Clinical Reminders

Manager's Manual

(Revised June 2020)

March 2005

Product Development
Office of Information and Technology
Department of Veterans Affairs

Preface

Purpose of Manager's Manual

This manual provides reference information for Clinical Reminders menus and options. It can serve both as a reference manual and a tutorial for Clinical Application Coordinators (CACs) and Clinical Reminders Managers who are just becoming familiar with Clinical Reminders.

To get further help information, please enter a Remedy ticket or call the National Help Desk: (1-888-596-4357).

Recommended Users

- Clinical Reminders Managers
- Clinical Application Coordinators (CACs)
- Department of Veterans Affairs Medical Center (VAMC) Information Resources Management (IRM) staff

Related Manuals

Manuals are available in Portable Document Format (PDF) at the following locations:

Hines - ftp.fo-hines.med.va.gov - anonymous.software
Salt Lake City - ftp.fo-slc.med.va.gov - anonymous.software

Clinical Reminders documentation can also be found in the VistA Software Document Library (VDL): http://www.va.gov/vdl

Related Web Sites

Site	URL
National HSD&D Reminders site	http://vista.med.va.gov/reminders
Office of Quality, Safety, and Value	http://vaww.oqsv.med.va.gov/
VA Software Document Library	http://www.va.gov/vdl/
VA/DoD Clinical Practice Guidelines	https://www.healthquality.va.gov/
National Clinical Reminders Committee	http://vaww.portal.va.gov/sites/ncrcpublic/default.aspx

Revision History

Revision Date	Page(s)	Description	Project Authors
June 2020	11 218 264 277 278 283 288 292 405, 406	PXRM*2.0*45 – Summary for patch PXRM*2.0*45 Explanation of the Repack menu item Added a short summary of items changed in PXRM*2.0*45 Changed Dialog Edit Options capture Updated the Dialog Overview menu capture Changed the Reminder Dialog Branching Logic Added Reminder Dialog CPRS 32 Pre Conversion report to a list of reports Added items to what is on the dialog checker report Updated what the Order Check Item Group can contain	T. Robinson: TW A. Puleo: SD
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Jan 2014	329	Added changes made by PXRM*2*26 in Reports/Finding Usage Report	Patrick Redington JoAnn Green
Jan 2014	137	Added changes made by PXRM*2*26 in Function Findings	Patrick Redington JoAnn Green
Jan 2014	263	Added changes made by PXRM*2*26 to Dialog Management	Patrick Redington Anthony Puleo JoAnn Green
Jan 2014	218	Added changes made in Reminder Exchange New Exchange action: Load Web Host File	Patrick Redington JoAnn Green
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April-June 2013	158	Updated Taxonomy chapter	Patrick Redington JoAnn Green
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			JoAnn Green
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October 2007	217	Added description of new option, Copy Location List	Patrick Redington JoAnn Green
October 2007	325	Added description of new option, TIU Template Reminder Dialog Parameter	Patrick Redington JoAnn Green
October 2007	280	Updates to description of Mental Health Dialog functionality	Patrick Redington JoAnn Green
October 2007	355	Added description of new option, Edit Number of MH Questions	Patrick Redington JoAnn Green
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January-February 2006	Various	Updates, based on changes or corrections in software	Patrick Redington JoAnn Green
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Introduction

The Clinical Reminder system helps caregivers deliver higher quality care to patients for both preventive health care and management of chronic conditions, and helps ensure that timely clinical interventions are initiated.

Reminders assist clinical decision-making and also improve documentation and follow-up, by allowing providers to easily view dates when certain tests or evaluations were performed and to track and document when care has been delivered. They can direct providers to perform certain tests or other evaluations that will enhance the quality of care for specific conditions. The clinicians can then respond to the reminders by placing relevant orders or recording clinical activities on patients' progress notes.

Clinical Reminders may be used for both clinical and administrative purposes. However, the primary goal is to provide relevant information to providers at the point of care, for improving care for Veterans. The package benefits clinicians by:

- Providing pertinent data for clinical decision-making
- Reducing duplicate documenting activities
- Assisting in targeting patients with particular diagnoses and procedures or site-defined criteria
- Assisting in compliance with VHA performance measures and with Health Promotion and Disease Prevention guidelines

Patch 45 (PXRM*2.0*45) Changes

This patch modified Reminder Dialog and Reminder Order Check functionality to support the TDrugs and the SMART projects being implemented in CPRS 31.B.

Patch 47 (PXRM*2*47) Changes

This patch is the follow-up to PXRM*2*26, which was part of the Computerized Patient Record System CPRS v30 project. That project modified the Computerized Patient Record System, Text Integration Utilities, Consults, Health Summary, Problem List, Clinical Reminders, and Order Entry/Results Reporting domains to meet the requirements proposed by the Dept. of Health and Human Services to replace the ICD-9 code set with the ICD-10 code set. It removes the taxonomy fields made obsolete by PXRM*2*26, adds the taxonomy editor actions that could not be completed for the release of PXRM*2*26, and fixes some defects.

One of the bugs that is fixed involves display of the status line when the frequency is in hours. This change adds time to the Date Due and Last Done fields. Because there are a number of Clinical Reminders Health Summary components, a Health Summary patch is required, it is: GMTS*2.7*113.

Patch 53 (PXRM*2*53) Changes

PXRM*2*53 adds a Reminder Dialog Search Report option to the Reminder Dialog Report menu. The Reminder Dialog Search Report allows sites to find Reminder Dialogs based on search criteria such as Coding Systems, Findings, and Dialog Items.

Patch 26 (PXRM*2*26) Changes

PXRM*2*26 is part of the ICD-10 project, and the purpose of patch 26 and its related patches (DG*5.3*853 and GMPL*2*43) is to update Clinical Reminders to allow the use of ICD-10 codes. A very general approach has been taken, wherein Clinical Reminders taxonomies are being restructured to be Lexicon-based instead of pointer-based. This allows the use of any coding system supported by the Lexicon Utility. In addition to adding ICD-10 codes, SNOMED CT codes are being added. After the release of CPRS 29, SNOMED CT codes will be collected by Problem List and Clinical Reminders will be able to search for them.

A new taxonomy management system replaces the previous taxonomy management menu. See the Taxonomy Management chapter for details and examples. Also see the Dialog management chapter for information and examples of the changes made to Dialog options by this patch.

The new system uses a combination of List Manager, ScreenMan, and the Browser. List Manager should already be familiar to users of Clinical Reminders tools such as Dialog Management or Reminder Exchange. ScreenMan and the Browser may not be as familiar, but reviewing Appendix B of this manual or the FileMan documentation should give you enough knowledge to make using the taxonomy management system much easier.

After PXRM*2*26 is installed, users will no longer be able to add ICD-9-CM and/or CPT-4 codes to a Reminder Dialog. Users will need to create a Taxonomy, assign codes, and then add the Taxonomy to the

Reminder Dialog. To maintain similar end user functionality in CPRS, a new called Taxonomy Pick List Display has been added to the dialog editor. This controls how Taxonomies should display in CPRS.

A simple taxonomy editor that is accessed from Dialog Management (either the element or group view) is available. Codes added in this editor are automatically marked as Use In Dialog. If a code is deleted in this editor, the Use In Dialog designation is removed from the code.

A change to Reminder Exchange was made to add a check of the line length and a warning if a line exceeds 245 characters. The maximum value allowed by Kernel is 255 characters, but for FileMan word-processing fields, it is 245. When a line exceeds this length, there is a very high probability that the Exchange entry will not install correctly. If the Exchange entry is transported as a host file, then 255 should work, but if is transported as a MailMan message, then 245 is the limit. The warning was added because previously, when an Exchange entry would not install correctly due to the line length being exceeded, it was difficult to determine the reason. The solution was to shorten the length of the field being transported. Detailed information about the field that needs to be shortened is given in the warning.

Example:

```
Warning the following line exceeds the VistA maximum allowed length of 245.
Therefore this Exchange entry will not transport correctly.
Line: 811.23;+619,+617,;.01~Telephone Assessment/Management by Nonphysician to Established
PT/Parent/Guardian not Originating from A/M Provided within Previous
7 Days Nor Leading to A/M Service/Procedure within Next 24 Hrs/Soonest Appt; 11-
20 Mins Medical Discussion
Its length is: 260
Component: REMINDER TAXONOMY
Name: PBM PHARMD PHONE VISIT CPT CODE 98967 V5*1
IEN: 617
Field number: .01
Value: Telephone Assessment/Management by Nonphysician to Established PT/Parent/
Guardian not Originating from A/M Provided within Previous 7 Days Nor Leading to
A/M Service/Procedure within Next 24 Hrs/Soonest Appt; 11-20 Mins Medical Discussion
```

Disable/Enable Reminder Evaluation

The option PXRM INDEX BUILD provides the ability to rebuild selected portions of the Clinical Reminders Index. (For information and details about the Clinical Reminders Index see the Clinical Reminders Index Technical Manual.) While an index is rebuilding, any reminder that uses the data from that index cannot be correctly evaluated – it will have the status of CNBD (cannot be determined). In the past, a MailMan message was sent to the Clinical Reminders mail group every time a reminder could not be evaluated because an index was rebuilding. Now, when an index is going to be rebuilt, reminder evaluation will be automatically disabled, meaning that any attempt to evaluate a reminder will result in an immediate return of a CNBD status. The Clinical Maintenance display will include text letting the user know that reminder evaluation is disabled and the reason(s). When the index has finished rebuilding, evaluation will be automatically enabled.

The option PXRM DISABLE/ENABLE EVALUATION provides a manual disable/enable function. If for some reason, reminder evaluation needs to be disabled, it can be done through this option. This option should be given to a very limited number of people and can only be used by holders of the PXRM MANAGER key. When the issue that required disabling evaluation has been handled, reminder evaluation can be enabled again using this same option. Note that this option can be used to enable evaluation even if it was not disabled using this option. For example, if reminder evaluation was automatically disabled for an index rebuild, this option could be used to enable evaluation even though the index is still rebuilding. If that is done, the MailMan messages will start being sent again.

When reminder evaluation is disabled, the following options and protocols will be put out of order.

Options:

```
PXRM DEF INTEGRITY CHECK ALL
PXRM DEF INTEGRITY CHECK ONE
PXRM ORDER CHECK TESTER
PXRM REMINDERS DUE
PXRM REMINDERS DUE (USER)
```

Protocols:

```
PXRM PATIENT LIST CREATE
PXRM EXTRACT MANUAL TRANSMISSION
```

When reminder evaluation is again enabled, these options and protocols will be put back in order.

Anytime reminder evaluation is disabled, a message with the subject "REMINDER EVALUATION DISABLED" will be sent to the Clinical Reminders mail group. The message will give the date and time that evaluation was disabled, list the reasons for disabling evaluation, and a search will be made for any Clinical Reminders TaskMan jobs that could be affected. There will be a list of those that are found; it will include the job description, the status (pending or running), and the task number. The results of any jobs that are already running will be unreliable and should be discarded. If possible, these jobs should be stopped, so that they don't waste system resources. None of the pending jobs should be allowed to start until evaluation is enabled again.

When evaluation is enabled, a message with the subject "REMINDER EVALUATION ENABLED" will be sent to the Clinical Reminders mail group. It will contain the date and time evaluation was disabled and when it was enabled. This gives you the exact period of when evaluation was disabled.

Here are examples of disable and enable messages:

```
MailMan message for CRMANAGER, TWO
Printed at CPRS30.FO-SLC.MED.VA.GOV  04/16/14@10:32
Subj: REMINDER EVALUATION DISABLED  [#122941] 04/16/14@10:30  58 lines
From: POSTMASTER (Sender: CRMANAGER, ONE)  In 'IN' basket.   Page 1
-------------------------------------------------------------------------------
Reminder evaluation was disabled on Apr 16, 2014@10:30:42.
Because of this, the following TaskMan jobs can produce erroneous results.
Pending jobs should not be allowed to start until evaluation is enabled.
The results of running jobs should be discarded and if possible, running jobs
should be stopped.

Reason: index rebuild for file #45.

 Reminders Due Report Jobs

Task number - 316820
Status - Active: Running
Time - Feb 08, 2012@12:40:28
User - CRCOORDINATOR, TWO

 Reminder Patient List Jobs

Task number - 1980022
Status - Active: Running
Time - Apr 16, 2014@08:00
User - TASKMAN,PROXY USER
```

```
Task number - 1980207
Status - Active: Pending
Time - Apr 17, 2014@08:00
User - TASKMAN,PROXY USER

 Reminder Extract Jobs

Task number - 342256
Status - Active: Pending
Time - Mar 06, 2012@20:04:25
User - CRCOORDINATOR, SIX

Task number - 1867565
Status - Active: Pending
Time - May 17, 2013@16:44:13
User - CRCOORDINATOR, SIX

Task number - 1902474
Status - Active: Pending
Time - Jul 17, 2013@17:16:30
User - CRCOORDINATOR,TEN

Task number - 1945932
Status - Active: Pending
Time - Oct 22, 2013@12:37:23
User - CRCOORDINATOR, THIRTY

Task number - 1946204
Status - Active: Pending
Time - Oct 23, 2013@12:37:35
User - CRCOORDINATOR, TWO

Task number - 1966964
Status - Active: Pending
Time - Feb 05, 2014@07:54:39
User - CRCOORDINATOR,THREE

Enter message action (in IN basket): Ignore//
```

```
Subj: REMINDER EVALUATION ENABLED  [#122942] 04/16/14@10:30  2 lines
From: POSTMASTER (Sender: CRMANAGER, ONE)  In 'IN' basket.   Page 1
-------------------------------------------------------------------------------
Reminder evaluation was enabled on Apr 16, 2014@10:30:49.
It was disabled on Apr 16, 2014@10:30:42.

Enter message action (in IN basket): Ignore//
```

See the Revision History in this manual and the Release Notes for additional changes made by PXRM*2*26.

Patch 31 (PXRM*2.0*31)- Palliative Care National Clinical Template

This patch releases the Palliative Care National Clinical Template without any changes to routines, data dictionaries, or other package functions – "content" only. The reminder dialog is VA-PALLIATIVE CARE NATIONAL CLINICAL TEMPLATE (PC-NCT).

There are two Reminder Exchange entries that will be installed as part of this patch.
1. VA-PALLIATIVE CARE CONSULT
2. VA-PATCH 31 POST HS COMPONENTS

The VA Hospice and Palliative Care (HPC) program office has sponsored the development of this reminder dialog template to document provider-based palliative care consultations at all sites within VHA. This template is critical to improving the process and documentation of clinical care, and facilitating high quality palliative care and programmatic quality improvement. It is the intent of the HPC program office that this national template be formally distributed to VA palliative care programs for voluntary use throughout VHA in early 2014.

Patch 36 (PXRM*2*36) Changes - Pneumococcal Reminders and Women's Health Taxonomy update

This patch installs two new or modified pneumococcal reminders, two new dialogs, and several new or modified terms and taxonomies, based on new guidelines.
ACIP recommends that adults aged >=19 years with immuno-compromising conditions, functional or anatomic asplenia, CSF leaks, or cochlear implants, and who have not previously received PCV13 or PPSV23, should receive a dose of PCV13 first, followed by a dose of PPSV23 at least 8 weeks later (Table). Subsequent doses of PPSV23 should
follow current PPSV23 recommendations for adults at high risk.
See the patch 36 Installation Guide for further details.

Patch 34 (PXRM*2*34) Changes - Teratogenic Medication Reminder Order Check Update

The Teratogenic Medications Order Check Interim Solution was originally released as VistA patch PXRM*2*22 in July 2012. The interim solution is intended to have regular updates for clinical content, primarily to add newly approved medications with FDA Pregnancy Categories that warrant an order check. This patch, PXRM*2*34 represents the first such update. Included in this update are new medications, order check text changes consistent with the Notification of Teratogenic Medications project, support for reversal of tubal ligations, and updates to the taxonomies that define a women's medical inability to conceive a pregnancy.

This patch also includes an update to a single dialog element for the Epilepsy Initial note that was released with PXRM*2.0*30. That element had a mapped Health Factor Category, instead of a mapped Health Factor. This element updates that mapped item.

Patch 24 (PXRM*2*24) Changes

The High Risk Mental Health Patient – Reminder & Flag project was released in two phases; the first phase was released in March 2012 with PXRM*2*18.

Phase 1 of this project provided the following:

1. Two new Scheduling reports that identify no-show "high risk for suicide" patients that missed

their MH appointments,

2. A new national reminder and reminder dialog that will be used by providers to document results of following up with a high risk for suicide patient that missed a MH appointment, and
3. A new health summary type with MH-specific supporting information.

Phase 2 of this project provides the following:

- DG*5.3*849 – DGPF New Category 1 Flag and Conversion.
- TIU*1*265 – New PRF Category 1 Title - HIGH RISK FOR SUICIDE
- SD*5.3*588 – New proactive reports that list appointments for High Risk for Suicide patients who have appointments for the day. MHTC has been added to these reports and also to the background nightly job no-show reports.
- PXRM*2*24 – New patch that includes an updated reminder (VA-MH HIGH RISK NO-SHOW FOLLOW-UP), a new computed finding (VA-PCMM MHTC), a new dialog that will display the MHTC, two new Reminder Definitions (VA-MH HIGH RISK NO-SHOW ADHOC RPT and VA- MHTC NEEDS ASSIGNMENT), and a new location list, VA-MHTC APPT STOP CODES LL, which is used in the Computed Finding: VA-Appointments for a Patient. The new Reminder Location List is consistent with the national list of MH Encounter Stop Codes defined for sites by the Office of Mental Health Services.

- OR*3*348 – Order Entry changes for the Mental Health Treatment Coordinator - Ability to select a Mental Health Treatment Coordinator as a notification recipient to receive notifications in CPRS. A new notification is also being released with this patch: SUICIDE ATTEMPTED/ COMPLETED. This informational notification is triggered by Clinical Reminders when a MH SUICIDE ATTEMPTED or MH SUICIDE COMPLETED health factor has been documented in PCE.
- GMTS*2.7*104 - modifies two entries in the Health Summary Component file (142.1): MH HIGH RISK PRF HX and MH TREATMENT COORDINATOR. These components are used in the VA-MH HIGH RISK PATIENT and REMOTE MH HIGH RISK PATIENT Health Summaries, as well as being available for use in the Health Summary Ad hoc Report.
- Suicide Behavior Report (SBR) instrument – The SBR is a new mental health template and a new entry in the MH TESTS & SURVEYS file (#601.71). It was distributed nationally in YS*5.01*103, as an enhancement to the Mental Health Assistant 3.0 Package. This instrument can be used by MH professionals to assess and reassess the High Risk for Suicide patient's behavior.

See the Release Notes, Installation & Setup Guide, and User Manual for more details about PXRM*2*24 enhancements and fixes.

Patch 23 (PXRM*2*23) Changes

This patch is part of a multi-package build that contains FB*3.5*138 and PXRM*2.0*23. It supports the third increment for Project ARCH **(**Access to Care Received Closer to Home**).**
FB*3.5*138:
This build adds the PROJECT ARCH REMINDER DELAY field (#38) to the FEE BASIS SITE PARAMETERS file (#161.4) that allows sites to customize number of days that the Project ARCH Clinical Reminder will become due again after the patient Declines or Refuses services offered. Two new options are also installed on the Project ARCH Menu. The ARCH

Eligibility Data Upload option allows sites to upload the national Project ARCH data extract files that contain the updates for Project ARCH Eligibility. The ARCH Clinical Reminder Due Delay option sets the value in the new PROJECT ARCH REMINDER DELAY field with a number between 1 and 180 days.

PXRM*2*23:
This build places updated VA-PROJECT ARCH VISN CONTRACT CARE PILOT ELIGIBILITY in the Reminder Exchange file. Updates to this reminder include a new Health Factor ARCH-SERVICE NEEDED THIS VISIT REFUSES. The updates also include a mandatory checkbox indicating that the patient has signed the consent form when the ARCH-SERVICE NEEDED THIS VISIT CONSENTS Health Factor is selected in the Reminder Dialog.

Patch 22 (PXRM*2*22) Changes

Patch PXRM*2*22 releases two new National Reminder Order Checks for placing Teratogenic Medications in CPRS. A pre-installation routine will identify any previously identified components and rename them correctly, and the patch installation will create or overwrite VA-named, national reminder components

This patch also addresses two bug fixes in the Reminder Order Check setup. To address these fixes, the Reminder Order Check System had to be divided into two files:

- File 801 Reminder Order Check Items Group
  File 801 contains the grouping of Orderable Items. This file has also been modified to allow groups to include entries from the Drugs file, file #50, VA Generic file, file #50.6 and VA Drug Class file, file # 50.605.
- File 801.1 Reminder Order Check Rules.
  File 801.1 contains the Reminder Order Check Rules.

These changes will allow sites to modify the Active and Testing Fields for National Rules.

This patch also fixes a Mumps error when the select order checks prompt times out.

To support the two-file structures, the existing menu options have been renamed and two new options will be released with this patch: Reminder Order Check Rule Inquiry and Reminder Order Check Test.

Patch 21 (PXRM*2*21) Changes (Military Service Data Sharing (MSDS) project)

This patch is being released along with patches DG*5.3*797, EAS*1.0*92, IVM*2.0*141, DVB*4.0*62, in host file DG_53_P797.KID, to support technology and business changes that occur with the implementation of the Enrollment System Redesign (ESR) Military Service Data Sharing (MSDS) project. The MSDS project introduced an MSDS Broker that will be activated in ESR. The Broker will construct a definitive military service data set including data received from the VA/DoD Identity Repository (VADIR), the Beneficiary Identification and Records Locator System (BIRLS), and VistA. Once the MSDS Broker is activated, ESR becomes the authoritative source for Military Service Episode data. The verified data will be shared from ESR to all VistA sites of record for the Veteran. The ESR-verified Military Service Episode data cannot be edited by VistA except to add new episodes. An unlimited number of military service episodes per Veteran will now be supported.

Clinical Reminders Computed Findings

One aspect of the Military Service Data Sharing (MSDS) project increases the number of military service episodes from three to an unlimited number. It provides new APIs for Clinical Reminders to use to get this data. These APIs are used to update the computed findings, VA-SERVICE BRANCH and VA-SERVICE SEPARATION DATES, so they can get data for all episodes of service.

NOTE: VA-LAST SEPARATION DATE is being renamed to VA-LAST SEPARATION DATES, because now it will return all service separation dates instead of just the last one.

A new list type computed finding: VA-OEF/OIF SERVICE (LIST) is also included. It can be used to build lists of patients with OEF/OIF service.

Patch 18 (PXRM*2*18) Changes

The High Risk Mental Health Patient – National Reminder and Flag project includes a national reminder and reminder dialog that mental health professionals can use to follow up on patients with the "High Risk of Suicide" patient record flag ,who missed their Mental Health appointments. The project also includes reports to facilitate follow-up on these patients by Suicide Prevention Coordinators and other Mental Health professionals.

Veterans Health Administration (VHA) mental health officials estimate that there are 1,000 suicides per year among Veterans receiving care within VHA and as many as 5,000 per year among all living Veterans. This request supports the Secretary's Mental Health Strategic Plan that contains several initiatives pertaining to suicide prevention, including "Develop methods for tracking Veterans with risk factors for suicide and systems for appropriate referral of such patients to specialty mental health care."

Major objectives of this project include:

1. Identifying those Veterans who are at risk for suicide (Sites define this locally in the Patient Record Flag.)
2. Preventing high risk, depressed patients from failing to get appropriate care if they miss appointments. The plan is to evaluate patients for depression so that appropriate referrals can be made, identify those Veterans with a history of suicide attempt or suicidal ideation who miss an appointment, notify the mental health professional of the missed appointment, and track efforts to reach this Veteran. If the Veteran is not reached after three attempts, a staff member may need to call other patient contacts or request a welfare check.

The purpose of this project is to release 1) two new Scheduling reports that identify no-show "high risk for suicide" patients that missed their MH appointments, 2) a new national reminder and reminder dialog that will be used by providers to document results of following up with a high risk for suicide patient that missed a MH appointment, and 3) provide a health summary type with MH-specific supporting information.

Phase 1: The first release of the High Risk Mental Health Patient- Reminder and Flag (HRMHP) project includes five patches, which will be installed as a combined build. The second phase of this project will be released in a future build.

1. SD*5.3*578

This Scheduling patch provides two new MH NO SHOW Scheduling Reports for use by Suicide Prevention Coordinators and other Mental Health professionals. The reports will support following up with High Risk for Suicide patients that missed a scheduled MH appointment.

2. DG*5.3*836
This Registration – Patient Record Flag patch provides new interfaces used by the Scheduling and Reminder patches to determine the High Risk for Suicide flag status on a specified date.

3. PXRM*2*18
This patch creates a national reminder to notify clinicians of a patient's risk of suicide and creates a dialog that the clinicians can use to document follow-up with the high risk patients when they miss MH appointments.

- HIGH RISK MH NO-SHOW FOLLOW-UP Reminder Definition
- HIGH RISK MH NO-SHOW Follow-up Reminder Dialog

This Clinical Reminder patch supports the Scheduling patch by providing a national Reminder Location List of Mental Health stop codes used for scheduled appointments. Additionally, this patch includes miscellaneous clinical reminder maintenance changes. Details of all the Clinical Reminder changes can be found in the Release Notes.

4. GMTS*2.7*99
This patch installs four Health Summary Components and two Health Summary Types, a single Health Summary Object, and a single TIU/Health Summary object.

5. TIU*1*260
The Text Integration Utility patch contains a single Health Summary Object and a single new TIU Health Summary object based on the new VA-MH HIGH RISK PATIENT Health Summary Type from GMTS*2.7*99. The TIU/HS object will be used in the VA-MH HIGH RISK NO SHOW FOLLOW-UP Reminder Dialog distributed in PXRM*2*18.

See the Clinical Reminders patch 18 Release Notes for specific details about enhancements and changes in patch 18 and related GMTS, OR, and TIU patches.

Patch 16 (PXRM*2*16) Changes

The Clinical Reminders patch PXRM*2*16 and bundled patches (OR*3.0*280, PSJ*5.0*226) released new functionality that enables sites to create their own CPRS Order Checks using Clinical Reminder Definitions or Terms. Both Reminder Exchange and the Review Date Report have been enhanced to support the Clinical Reminder Order Check functionality.
This patch contains a new computed finding, VA-ACTIVE PATIENT RECORD FLAGS.
This computed finding will allow sites to evaluate whether a patient has a specific active record flag on the date of evaluation.

Sites can create local order checks using the Clinical Reminder functionality. These Order Checks will occur at the time the user clicks on the accept button when placing an order in CPRS. This functionality is available with PXRM*2.0*16 and CPRS 28. The set-up of a Clinical Reminders Order Check consists of two parts:

- Creating a group of orderable items that the rules should be applied to.

- Creating the rules that will be applied to the orderable item when accepting an order in CPRS. It will be possible to have the same orderable item in multiple groups. Each rule assigned to the

different groups will be evaluated when placing the orderable item in CPRS. The order check groups and the rule will be stored in the Reminder Order Check file, file #801

Note: Sites should evaluate all requests to create a Clinical Reminder Order Check to determine the importance of adding it. The more reminders that are used in an order check, the more they could affect the performance of the order check system. This file stores a pointer to an entry in the Orderable Item file, file #101.43. The reminder Order Check file **will not** automatically be updated with changes to the Orderable Item file, such as inactivating an existing orderable item, or if an ancillary package adds an item to the Orderable Item file.. The entries in Reminder Order Check file, file #801 need to be evaluated by the site anytime an update is done to the Orderable Item file, file #101.43. The site will be need to determine if it needs to remove an orderable item from an existing group or if it needs to add an orderable item to existing group.

A new menu Reminder Orderable Item Group Menu ...[PXRM ORDERABLE ITEM GROUP MENU] has been added to the Reminder Managers Menu [PXRM MANAGERS MENU]

Patch 17 (PXRM*2*17) Changes

This project released a new national reminder and reminder dialog to be used by Polytrauma Specialty providers to identify potential OEF/OIF Polytrauma patients and mark the patient with a Polytrauma Marker (health factor) when appropriate.

The Polytrauma Marker project includes two patches:
PXRM*2*17 - Clinical Reminder patch with Polytrauma Marker reminder/dialog
USR*1*33 - ASU patch with API that checks to see if a user is a member of a specific User Class

This project was requested by the Office of Patient Care Services (PCS) to provide a means of improving care provided to Veterans and active duty patients suffering from blast-related polytrauma (multiple complex injuries).VHA has identified this as one of several initiatives that will support health care of Operation Iraqi Freedom and Operation Enduring Freedom (OIF/OEF) Veterans.

The Polytrauma Assessment reminder definition contains a new national reminder term which will be pre-defined with the new computed finding for the ASU User Class. Sites will be required to add the Computed Finding Parameter to the national reminder term. The parameter should specify the local ASU User Class that identifies specialty provider members that focus on Polytrauma and Rehabilitation services at the local facility.

The Polytrauma Assessment reminder uses a series of national Reminder Taxonomies to determine whether the patient has multiple diagnoses that identify the patient as a potential Polytrauma patient. The combination of the diagnoses found and the user's ASU user class will determine whether the reminder is applicable to the patient.

If the reminder is applicable to the patient and the patient has not been previously assessed for Polytrauma, the reminder will be DUE and will appear on the cover sheet and in the reminder drawer on the CPRS notes tab.

The reminder will be resolved by the provider responding to reminder dialog responses that result in the assessment that the patient "is" or "is not" an OEF/OIF Polytrauma patient. The responses will cause Health Factors to be created that make the reminder no longer due.

If the CPRS user views Clinical Maintenance output for the Polytrauma Assessment reminder and the user is not a member of the ASU User Class, then a message will be included in the Patient Cohort section indicating that the ASU User Class was not found.

The new Polytrauma Assessment reminder dialog was created outside the OI Field Office and tested at three sites based on input from Rehabilitation Service stakeholders.

This reminder/dialog includes branching logic that will use the new national reminder term that is defined with the ASU user class used by the reminder definition. The branching logic will check to see if the CPRS user is a member of the ASU user class before continuing with the reminder dialog. If the CPRS user is not a member of the ASU user class, then the reminder dialog will display text indicating the reminder is not applicable and the user is not the appropriate user to complete the reminder dialog.

Completing the reminder dialog will cause a progress note to be created and Health Factors will be populated in PCE. These health factors will be used by future reminder definition evaluation to indicate the reminder is resolved.

National Reminders

National reminders are clinical reminders and reminder dialogs that have gone through an approval process for national distribution. Some national reminders are related to statutory, regulatory, or Central Office mandates such as Hepatitis C, and MST,. Other national reminders are being developed under the guidance of the National Clinical Reminders Workgroup (NCRW)

Guideline-related reminders are developed for two reasons:

1. To provide reminders for sites that don't have reminders in place for a specific guideline (e.g., HTN, HIV).
2. To provide a basic set of reminders to all sites to improve clinical care, and also allow roll-up data for measurement of guideline implementation and adherence (e.g., IHD, Mental Health).

Updates to National Reminders in Patch 18

1. Updated branching logic reminders for OEF/OIF screening:
   a. Fix the problem that patients who do not have the required LSSD entry are not having the items show as due when they have been done.
   b. Remove refusals and other exclusions from the branching logic – if not done, then show the item as open and allow the parent reminder to use the exclusions instead of also evaluating them in the branching logic. This makes all 7 of the branching logic reminders consistent.

2. Updated the URLs for MH screening.

3. Added '0' to the Within Category Rank for EF-NO BLAST/EXPLOSION INJURY and EF-NO BULLET INJURY in the reminder VA-EMBEDDED FRAGMENTS RISK EVALUATION.

4. Added occurrence count of 4 to AUD C in the alcohol screening reminder.

5. Fixed header/info text in AAA reminder.

6. Distributed H1N1 reminders and dialog via patch and distribute and inactivate.

7. Updated VA-ALCOHOL F/U POS AUDIT-C dialog to display the education and advice interventions without a box around both and also to have the results of an AUDIT-10 go into the progress note.

8. Added VA-TB/POSITIVE PPD.

Detailed descriptions:

1. Updated branching logic reminders

   VA-BL DEPRESSION SCREEN

   Removed RT.VA-ACTIVE DUTY
   Cohort: changed to due for all
   Resolution: changed to resolve for any entry that is not before the LSSD
   Changed the logic from

   MRD(VA-DEPRESSION SCREEN NEGATIVE,VA-DEPRESSION SCREEN POSITIVE)>MRD(VA-LAST SERVICE SEPARATION DATE)

   To

   MRD(VA-DEPRESSION SCREEN POSITIVE,VA-DEPRESSION SCREEN NEGATIVE)'<MRD(VA-LAST SERVICE SEPARATION DATE)

   VA-BL ALCOHOL SCREEN

   Removed RT.VA-ACTIVE DUTY
   Cohort: change to due for all

Removed exclusions
Resolution: changed to resolve for any entry that is not before the LSSD

VA-BL PTSD SCREEN
Removed RT.VA-ACTIVE DUTY
Cohort: change to due for all
Removed exclusions
Resolution: change to resolve for any entry that is not before the LSSD
Add a '0' to the Within Category Rank for the health factors.

VA-BL OEF/OIF EMBEDDED FRAGMENTS
VA-BL OEF/OIF FEVER
VA-BL OEF/OIF GI SX
VA-BL OEF/OIF SKIN SX
Removed RT.VA-IRAQ/AFGHAN PERIOD OF SERVICE and substitute CF.VA-LAST SERVICE SEPARATION DATE
Removed RT.VA-ACTIVE DUTY
Cohort: change to due for all
Resolution: change to resolve for any entry that is not before the LSSD

2. Updated URLs
   VA-ALCOHOL USE SCREEN (AUDIT-C)
   VA-DEPRESSION SCREENING
   VA-PTSD SCREENING

3. VA-EMBEDDED FRAGMENTS RISK EVALUATION: Added '0' to the Within Category Rank for EF-NO BLAST/EXPLOSION INJURY and EF-NO BULLET INJURY

4. VA-ALCOHOL USE SCREENING (AUDIT-C)
   a. Added occurrence count of 4 to AUD C in the alcohol screening reminder
   b. Updated the dialog by changing 'Optional open and optional complete (partial complete possible)' to 'Optional open and required complete or cancel before finish'.

5. Fixed grammatical error in VA-TEXT INFO SCREEN FOR AAA

6. Distributes reminders VA-INFLUENZA H1N1 IMMUNIZATION, VA-INFLUENZA H1N1 IMMUNIZATION HIGH RISK, and dialog VA-INFLUENZA H1N1 IMMUNIZATION (DIALOG). Distribute as INACTIVE.

7. Updated VA-ALCOHOL F/U POS AUDIT-C dialog to display the education and advice interventions without a box around both and also to have the results of an AUDIT-10 go into the progress note. Add an * to the word 'required' in 2 of the captions.

8. Added VA-TB/POSITIVE PPD. This updates the taxonomy VA-TB/POSITIVE PPD by adding the ICD diagnosis code 795.51

Updates to National Reminders in Patch 12

The following Reminder components were updated and redistributed with PXRM*2*12:

Component	Name	Change
RD	VA-ALCOHOL AUDIT-C POSITIVE F/U EVAL	Added SUD; added text dialog element for local health summary object for prior AUDIT-C display; reversed order of feedback and advice; made nothing required
RD	VA-EMBEDDED FRAGMENTS RISK EVALUATION	New
RD	VA-IRAQ & AFGHAN POST-DEPLOY SCREEN	Added a FF to the cohort logic
RD	VA-TBI SCREENING	Changed dialog to have documentation of discussion of positive screen
RL	VA-OEF/OIF EXCLUSION STOPS	Added ultrasound stop code
RM	VA-ALCOHOL AUDIT-C POSITIVE F/U EVAL	Added SUD clinic visit exclusions
RM	VA-DEPRESSION SCREEN	Updated URLs and description.
RM	VA-EMBEDDED FRAGMENTS RISK EVALUATION	New
RM	VA-IRAQ/AFGHAN POST DEPLOYMENT SCREEN	Uses OEF/OIF in dialog and logic; updated logic, fixed active duty problem
RM	VA-OEF/OIF MONITOR REPORTING	Removed dialog from this reporting reminder.
RM	VA-TBI SCREENING	Changes to OEF/OIF in dialog and logic, fixed active duty issue
RT	VA-ACTIVE DUTY	Updated active duty term description
RT	VA-ALCOHOL NONE PAST 1YR	Removed MH test from term VA-ALCOHOL NONE PAST 1YR
RT	VA-IRAQ/AFGHAN SERVICE	Updated to include CFs for OEF/OIF service that point to the patient file
RX	VA-OEF/OIF MONITOR	New extract
TX	VA-BREAST TUMOR	Changed description to include mass, pain, abnormality
TX	VA-DEPRESSION	Updated to FY09 definition
TX	VA-DEPRESSION OUTPT	Updated to FY09 definition
TX	VA-DIABETES	Added 250.91-250.93
TX	VA-HIGH RISK FOR FLU	New
TX	VA-HIGH RISK FOR FLU/PNEUMONIA	Inactivated
TX	VA-HIGH RISK FOR PNEUMONIA	New

Updates to National Reminders in Patch 11

Reminder	Change
VA-ALCOHOL AUDIT-C POSITIVE F/U EVAL	Fixed logic
VA-ALCOHOL USE SCREEN (AUDIT-C)	Changes to dialog.

	Removed date from term and moved to the health factor for "No alcohol in the past 1 year"
VA-BL OEF/OIF FEVER	Fixed logic
VA-BL OEF/OIF GI SX	Fixed logic
VA-BL OEF/OIF SKIN SX	Fixed logic
VA-DEPRESSION SCREENING	Changes to terms and dialog; verify/report any changes
VA-IRAQ & AFGHANISTAN POST DEPLOYMENT SCREEN	Multiple changes: • Added Combat Vet to logic • Excluded those who did not serve from denominator • Added cognitive impairment to exclusions • Added done elsewhere to resolutions • Updated dates of health factors for depression/PTSD to 10/1/08
VA-PTSD SCREENING	Added Veteran status Added Acute Illness to the dialog

National Reminders

1. VA-*IHD 412 ELEVATED LDL REPORTING
2. VA-*IHD 412 LIPID PROFILE REPORTING
3. VA-*IHD ELEVATED LDL REPORTING
4. VA-*IHD LIPID PROFILE REPORTING
5. VA-AAA SCREENING
6. VA-ALCOHOL ABUSE SCREEN (AUDIT-C)
7. VA-ALCOHOL AUDIT-C POSITIVE F/U EVAL
8. VA-ALCOHOL USE SCREEN (AUDIT-C)
9. VA-ANTIPSYCHOTIC MED SIDE EFF EVAL
10. VA-DEPRESSION SCREENING
11. VA-EMBEDDED FRAGMENTS RISK EVALUATION
12. VA-EMBEDDED FRAGMENTS SCREEN
13. VA-GEC REFERRAL CARE COORDINATION
14. VA-GEC REFERRAL CARE RECOMMENDATION
15. VA-GEC REFERRAL NURSING ASSESSMENT
16. VA-GEC REFERRAL SOCIAL SERVICES
17. VA-GEC REFERRAL TERM SET (CC)
18. VA-GEC REFERRAL TERM SET (CR)
19. VA-GEC REFERRAL TERM SET (NA)
20. VA-GEC REFERRAL TERM SET (SS)
21. VA-HEP C RISK ASSESSMENT
22. VA-HTN ASSESSMENT BP >=140/90
23. VA-HTN ASSESSMENT BP >=160/100
24. VA-HTN LIFESTYLE EDUCATION
25. VA-IHD ELEVATED LDL
26. VA-IHD LIPID PROFILE
27. VA-INFLUENZA H1N1 IMMUNIZATION
28. VA-INFLUENZA H1N1 IMMUNIZATION HIGH RISK
29. VA-IRAQ & AFGHAN POST-DEPLOY SCREEN
30. VA-MH HIGH RISK NO-SHOW ADHOC RPT
31. VA-MH HIGH RISK NO-SHOW FOLLOW-UP
32. VA-MHTC NEEDS ASSIGNMENT
33. VA-MST SCREENING
34. VA- EPI LAB EXTRACT
35. VA- EPI RX EXTRACT
36. VA-PNEUMOCOCCAL IMMUNIZATION PCV13
37. VA-PNEUMOCOCCAL IMMUNIZATION PPSV23.docx
38. VA-OEF/OIF MONITOR REPORTING
39. VA-POLYTRAUMA MARKER
40. VA-POS DEPRESSION SCREEN FOLLOWUP
41. VA-PROJECT ARCH VISN CONTRACT CARE PILOT ELIGIBILITY
42. VA-PTSD REASSESSMENT (PCL)
43. VA-PTSD SCREENING
44. VA-QUERI REPORT IHD ELEVATED LDL
45. VA-QUERI REPORT LIPID STATUS
46. VA-TBI SCREENING
47. VA-TBI/POLYTRAUMA REHAB/REINTEGRATION PLAN OF CARE
48. VA-TERATOGENIC MEDICATIONS ORDER CHECK
49. VA-VANOD SKIN ASSESSMENT
50. VA-VANOD SKIN REASSESSMENT
51. VA-WH MAMMOGRAM REVIEW RESULTS
52. VA-WH MAMMOGRAM SCREENING

53. VA-WH PAP SMEAR REVIEW RESULTS
54. VA-WH PAP SMEAR SCREENING

Patches Released since V2.0

PXRM*2*1 National Women's Health Reminders
PXRM*2*2 GEC NATIONAL ROLLUP
PXRM*2*3 NATIONAL MYHEALTHEVET REMINDERS
PXRM*2*4 REMOVAL OF OLD-STYLE MRD
PXRM*2*5 NATIONAL VA-IRAQ & AFGHAN POST-DEPLOY SCREEN REMINDERS
PXRM*2*6 INTEGRATION WITH NEW MENTAL HEALTH PACKAGE
PXRM*2*8 NATIONAL VA-TBI SCREENING REMINDER
PXRM*2*9 PXRM CODE SET UPDATE protocol fix
PXRM*2*10 SKIN RISK ASSESSMENT
PXRM*2*11 REMINDER AND DIALOG UPDATES
PXRM*2*12 MH REMINDERS AND DIALOGS
PXRM*2*15 NATIONAL VA-TBI/POLYTRAUMA REHABILITATION DIALOG
PXRM*2*16 CLINICAL REMINDER ORDER CHECKS
PXRM*2*17 POLYTRAUMA MARKER
PXRM*2*18 MH HIGH RISK PHASE 1
PXRM*2*20 ARCH PILOT - ACCESS RECEIVED CLOSER TO HOME 1.0
PXRM*2*21 MILITARY SERVICE COMPUTED FINDING UPDATES
PXRM*2*22 TERATOGENIC DRUGS ORDER CHECK
PXRM*2*23 ARCH PILOT UPDATE
PXRM*2*24 MH HIGH RISK PHASE 2
PXRM*2*26 CLINICAL REMINDERS ICD-10 CHANGES
PXRM*2*27 HOMELESSNESS SCREENING REMINDER & LIPID STATIN RE
PXRM*2*28 WOMEN'S HEALTH REMINDERS
PXRM*2*29 MH NATIONAL EVIDENCE BASED PSYCHOTHERAPY REM
PXRM*2*30 EPILEPSY CENTERS OF EXCELLENCE REMINDER DIALOG
PXRM*2*31 PALLIATIVE CARE PATCH
PXRM*2*32 EPILEPSY CENTERS OF EXCELLENCE REMINDER DIALOG
PXRM*2*34 VA-TERATOGENIC MEDIATION ORDER CHECK
PXRM*2*36 PNEUMOCOCCAL REMINDERS AND WOMEN’S HEALTH TAXONOMY UPDATE
PXRM*2*38 LUNG CANCER DIALOG
PXRM*2*39 AIRBORNE HAZARD/BURNPIT EVALUATION
PXRM*2*40 MHV SECURE MESSAGING FIX
PXRM*2*50 ICD10 AND SNOMED CODES
PXRM*2*51 TERATOGENIC MEDICATION REMINDER ORDER CHECK
PXRM*2*52 HEPATITIS C UPDATES
PXRM*2*54 NATIONAL EBOLA REMINDER
PXRM*2*55 PNEUMOCOCCAL IMMUNIZATION UPDATES
PXRM*2*56 VETERANS CHOICE REMINDER DIALOG
PXRM*2*57 ADVANCE DIRECTIVE CLINICAL REMINDER DIALOG

NOTE : Several of these patches to the Clinical Reminders package have used the recently approved expedited patch process. These patches release new and updated National VHA reminders to the field, without any changes to routines, data dictionaries, or other package functions - they are "content-only” patches.

Reminders Maintenance

This section describes all the major components of the Clinical Reminders application. It describes the menus and options, and provides examples of how to use these to define reminders, create dialogs, and how to modify, troubleshoot, and maintain them for your site.

Reminder Managers Menu

This is a list of the options and menus on the Reminders Managers Menu.

```
Reminders Managers Menu [PXRM MANAGERS MENU]
   CF     Reminder Computed Finding Management ... [PXRM CF MANAGEMENT]
          CRL    Computed Finding List
          CFI    Reminder Computed Finding Inquiry
          CFE    Add/ Edit Computed Finding
   RM     Reminder Definition Management ... [PXRM REMINDER MANAGEMENT]
          RL     List Reminder Definitions
          RI     Inquire about Reminder Definition
          RE     Add/Edit Reminder Definition
          RC     Copy Reminder Definition
          RA     Activate/Inactivate Reminders
          RH     Reminder Edit History
          ICS    Integrity Check Selected
          ICA    Integrity Check All
   SM     Reminder Sponsor Management [PXRM SPONSOR MANAGEMENT]
          SL     List Reminder Sponsors
          SI     Reminder Sponsor Inquiry
          SE     Add/Edit Reminder Sponsor
   TXM    Reminder Taxonomy Management ... [PXRM TAXONOMY MANAGEMENT]
   TRM    Reminder Term Management ... [PXRM TERM MANAGEMENT]
          TL     List Reminder Terms
          TI     Inquire about Reminder Term
          TE     Add/Edit Reminder Term
          TC     Copy Reminder Term
   LM     Reminder Location List Management ... [PXRM LOCATION LIST MANAGEMENT]
          LL     List Location Lists
          LI     Location List Inquiry
          LE     Add/Edit Location List
          LC     Copy Location List
   RX     Reminder Exchange [PXRM REMINDER EXCHANGE]
   RT     Reminder Test [PXRM REMINDER TEST]
   OS     Other Supporting Menus ... [PXRM OTHER SUPPORTING MENUS]
          TM     PCE Table Maintenance ...
          PC     PCE Coordinator Menu ...
          HS     Health Summary Coordinator's Menu ...
          EF     Print Blank Encounter Forms ...
          QO     Enter/edit quick orders
   INFO   Reminder Information Only Menu ... [PXRM INFO ONLY]
          RL     List Reminder Definitions
          RI     Inquire about Reminder Definition
          TXL    List Taxonomy Definitions
          TXI    Inquire about Taxonomy Item
          TRL    List Reminder Terms
          TRI    Inquire about Reminder Term
          SL     List Reminder Sponsors
   DM     Reminder Dialog Management ... [PXRM DIALOG MANAGEMENT]
   DP     Dialog Parameters ...
                 RS     Reminder Resolution Statuses
                 HR     Health Factor Resolutions
                FP     General Finding Type Parameters
```

```
                FI     Finding Item Parameters
                TD     Taxonomy Dialog Parameters
        DI      Reminder Dialogs
        DR      Dialog Reports
                       OR     Reminder Dialog Elements Orphan Report
                       ER     Empty Reminder Dialog Report
                       ALL    Check all active reminder dialogs for invalid items
                       CH     Check Reminder Dialog for invalid items
        IA      Inactive Codes Mail Message
CP      CPRS Reminder Configuration [PXRM CONFIGURATION MANAGEMENT]
        CA      Add/Edit Reminder Categories
        CL      CPRS Lookup Categories
        CS      CPRS Cover Sheet Reminder List
        MH      Mental Health Dialogs Active
        PN      Progress Note Headers
        RA      Reminder GUI Resolution Active
        DL      Default Outside Location
        PT      Position Reminder Text at Cursor
        WH      WH Print Now Active
        GEC     GEC Status Check Active
        TIU     TIU Template Reminder Dialog Parameter
        NP      New Reminder Parameters
RP      Reminder Reports ... [PXRM REMINDER REPORTS]
        RD      Reminders Due Report
        RDU     Reminders Due Report (User)
        RDT     User Report Templates
        EPT     Extract EPI Totals
        EPF     Extract EPI List by Finding and SSN
        EQT     Extract QUERI Totals
        GEC     GEC Referral Report
        REV     Review Date Report
        FUR     Finding Usage Report
MST     Reminders MST Synchronization Management ... [PXRM MST MANAGEMENT]
        SYN     Reminders MST Synchronization
        REP     Reminders MST Synchronization Report
PL      Reminder Patient List Menu ... [PXRM PATIENT LIST MENU]
        LRM     List Rule Management
        PLM     Patient List Management
PAR     Reminder Parameters ... [PXRM REMINDER PARAMETERS]
        ESD     Edit Site Disclaimer
        EWS     Edit Web Sites
        MH      Edit Number of MH Questions
ROI     Reminder Orderable Item Menu
        OE      Add/Edit Reminder Orderable Item Group
        OI      Reminder Orderable Item Inquiry
        OT      Reminder Orderable Item Group Test
XM      Reminder Extract Menu [PXRM EXTRACT MENU]
        MA      Reminder Extract Management
        EP      Extract Definition Management
        EC      Extract Counting Rule Management
        EG      Extract Counting Group Management
        LR      List Rule Management
GEC     GEC Referral Report  [GEC REFERRAL REPORT]
```

Options not on a menu

The option PXRM DISABLE/ENABLE EVALUATION provides a manual disable/enable function. If for some reason, reminder evaluation needs to be disabled, it can be done through this option. This option should be given to a very limited number of people and can only be used by holders of the PXRM MANAGER key. When the issue that required disabling evaluation has been handled, reminder

evaluation can be enabled again using this same option. Note that this option can be used to enable evaluation even if it was not disabled using this option. For example, if reminder evaluation was automatically disabled for an index rebuild, this option could be used to enable evaluation even though the index is still rebuilding. If that is done, the MailMan messages will start being sent again.

Security Key

PXRM MANAGER
DESCRIPTION:
Assign this key to people who are responsible for managing Clinical Reminders.

Options/actions requiring key

PXRM DISABLE/ENABLE EVALUATION
(see above description)

PXRM FINDING USAGE REPORT **on** the PXRM REMINDER REPORTS menu

- The field called **Creator** is populated when someone creates a reminder report template. This field will be used when someone accesses the template. The user accessing the template must either be the same user who created the template or must hold the PXRM MGR key to be able to access the option to edit the template. If the user is not the creator and does not hold the PXRM MANAGER key, they will not see the prompt to edit the template.

Patient List Management Option
Actions

- Create Patient List
  Secure List? prompt
  If the answer to this prompt is "YES," the list becomes a private list, which means that the only people who can view the list are the creator, anyone who the creator has given view access, and anyone who holds the PXRM MANAGER KEY.

- ED (Edit Patient List) – if you are the creator of the list you can use this action to edit the name and type of list; if you hold the PXRM MANAGER key you can also edit the creator of the list.
- USR (View Users) – this action is applicable only to private lists. If you are the creator of the list or hold the PXRM MANAGER key you can use this action to give other users either view only or full access to the patient list. You can also remove a user's access to the list.

Reminder Managers Menu Descriptions

Option	Option Name	Syn	Description
Reminder Computed Finding Management	PXRM CF MANAGEMENT	CF	This option provides tools for viewing and editing reminder computed findings.
Reminder Definition Management	PXRM REMINDER MANAGEMENT	RM	This menu contains options for creating, copying, and editing reminder definitions, as well as the options for maintaining the parameters used by CPRS for reminder processing.
Reminder Sponsor Management	PXRM SPONSOR MANAGEMENT	SM	A Reminder Sponsor is the organization or group that sponsors a Reminder Definition, such as the Office of Quality and Performance. Options on this menu let you view, define, or edit Reminder Sponsors.
Reminder Taxonomy Management	PXRM TAXONOMY MANAGEMENT	TXM	This option provides all aspects of taxonomy management including creation, editing, and inquiry.
Reminder Term Management	PXRM TERM MANAGEMENT	TRM	This menu allows you to edit, map, and view reminder terms.
Reminder Location List Management	PXRM LOCATION LIST MANAGEMENT	LM	Location Lists store locations as stop codes or hospital locations. This option provides tools for viewing and editing location lists.
Reminder Exchange	PXRM REMINDER EXCHANGE	RX	This option allows sites to exchange reminder definitions, dialogs, and other reminder components via MailMan messages and host files.
Reminder Test	PXRM REMINDER TEST	RT	This utility helps you test and troubleshoot your reminders when you create them or when you have problems.
Other Supporting Menus	PXRM OTHER SUPPORTING MENUS	OS	This option contains menus from related packages such as PCE and Health Summary.
Reminder Information Only Men	PXRM INFO ONLY	INFO	This menu provides information-only options for users who need information about reminders but do not need the ability to make changes.
Reminder Dialog Management	PXRM DIALOG MANAGEMENT	DM	This menu allows maintenance of the parameters used by CPRS for reminder dialog processing.

Option	Option Name	Syn	Description
Reminder Reports	PXRM REMINDER REPORTS	RP	This is a menu of Clinical Reminder reports that clinicians can use for summary and detailed level information about patients' due and satisfied reminders. This option also contains reports that clinical coordinators can use to assign menus to specific users.
Reminders MST Synchronization Management	PXRM MST MANAGEMENT	MST	This option provides the Clinical Reminders MST management options. These options give you the ability to synchronize the MST History file #29.11 with MST data recorded elsewhere and to determine when the synchronization was last done.
Reminder Patient List Menu	PXRM PATIENT LIST MENU	PL	This menu contains options to manage list rules and patient lists.
Reminder Orderable Item Menu	PXM ORDER	OI	This menu contains options to allow sites to create Reminder Order Checks
Reminder Parameters	PXRM REMINDER PARAMETERS	PAR	This menu contains the options, Edit Site Disclaimer and Edit Web Sites, which allow you to modify the parameters for these items.
Reminder Extract Menu	PXRM EXTRACT MENU	XM	This option allows management of extract definitions, extract runs, and extract transmissions.
GEC Referral Report	PXRM GEC REFERRAL REPORT	GEC	This is the option that is used to generate GEC Reports. GEC (Geriatrics Extended Care) is used for referral of geriatric patients to receive further care

Reminder Computed Finding Management

A computed finding is an M routine that takes a standard set of arguments. The computed finding must be entered into the REMINDER COMPUTED FINDING file #811.4 before it can be used as a finding in a reminder definition or term. When none of the standard finding types will work, a computed finding can be used.

The Clinical Reminders application provides a set of national computed findings. Sites can also create their own.

NOTE: Only programmers who have "@" access can actually write the routine and enter it into the REMINDER COMPUTED FINDINGS file. Once it is in the file, Reminders Managers can use the computed finding in reminder definitions.

Changes made by PXRM*2*26

The national computed finding VA-REMINDER DEFINITION evaluates a reminder definition. If it is used recursively (evaluating the same definition that is calling it), it will generate framestack errors. This can wreak havoc with production systems. Remedy ticket #761925. Code was added to prevent this. Also, a check for recursion was added to the Integrity Checker.

The print name of VA-REMINDER DEFINITION was changed from VA-Reminder Definition Computed Finding to VA-Reminder Definition. The variable TEXT was not set before, but is now set to "Reminder: "_NAME, where NAME is the .01 of the reminder being evaluated. This means that the name of the reminder definition that was evaluated will be displayed in the clinical maintenance output.

The description for VA-FILEMAN DATE was updated to make it clear that the global reminder dates PXRMDOB, PXRMDOD, and PXRMLAD can also be used with this computed finding.

The computed finding inquiry was not displaying the Type; Type was added.

When a computed finding was selected to be used as a finding in a definition or term, the description of the computed finding was displayed on the screen to help the user set it up properly. If Type was not included in the description, then it was not displayed. The computed finding help was upgraded to include Type, Class, and Description, and is now displayed with the Browser instead of just written to the screen.

In the past we have had problems with updated national computed findings being overwritten by outdated versions that were installed via Reminder Exchange. To prevent further occurrences, Reminder Exchange was modified so it will not install national computed findings. From this point on, national computed findings will only be distributed via a KIDS build.

EXPECTED SIGNER and EXPECTED COSIGNER were added as CSUBs to the VA-PROGRESS NOTE computed finding. The description was updated to include these.

When using the special Reminder Location List VA-ALL LOCATIONS in the computed finding VA-APPOINTMENTS FOR A PATIENT, a message was being erroneously displayed (Remedy ticket #916079):

```
^TMP(NODE,$J,1,0)=Warning Reminder Location List VA-ALL LOCATIONS
^TMP(NODE,$J,2,0)=does not contain or expand to contain any hospital
locations!
```

This was corrected.

Reminder Computed Finding Management Menu

Syn.	Name	Option Name	Description
CFE	Add/Edit Reminder Computed Finding	PXRM COMPUTED FINDING EDIT	This option provides for editing of computed finding entries in the REMINDER COMPUTED FINDINGS file. This option requires programmer's access.
CFI	Computed Finding Inquiry	PXRM COMPUTED FINDING INQUI RY	Allows a user to display the information about a computed finding in an easy-to-read format.
CFL	Reminder Computed Finding List	PXRM COMPUTED FINDING LIST	This option lists the computed findings that are defined at a site.

Steps to Create a Computed finding

NOTE: The person who performs the step is listed in parentheses.

1. Write an M routine (developer).

For a *single occurrence* computed finding, the routine takes the following arguments: (DFN, TEST,DATE,DATA,TEXT). DFN is the patient ien and will be set when the computed finding routine is called. The following variables should be set by the computed finding routine.

- TEST is the logical value of the finding, set to 1 for true and 0 for false. A value for TEST must always be returned.
- DATE is the date of the finding in FileMan format. Set it to null if the finding is false

DATA is a value associated with the finding that can be used by the CONDITION field; when the Condition is evaluated V=DATA. Additional values that can also be used in the CONDITION can be passed back in DATA. This is done using subscripts, i.e., DATA("COLOR")="RED" and the CONDITION could test for color with a statement like I V("COLOR")="BLUE". The choice of what data is passed back and the associated subscripts are completely up to the programmer, however they should be well documented so the person using the computed finding knows what is available. See the DESCRIPTION field below for information on how to document your computed finding. Setting the DATA array is optional, but it must be set if a CONDITION is going to be used with the computed finding.

TEXT is text to be displayed in the Clinical Maintenance output. Setting this is optional.

Note: Now that multiple occurrence computed findings are available, creation of new single occurrence computed finding is generally discouraged because single occurrences are less flexible and less powerful.

For a *multiple occurrence* computed finding, the routine takes the following arguments:
(DFN, NGET,BDT,EDT, NFOUND,TEST,DATE,DATA,TEXT).

The following variables will be set when the computed finding routine is called:

- DFN is the patient ien.
- NGET is the number of findings to search for.
- BDT is the beginning date and time for the finding search.
- EDT is the ending date and time for the finding search.

The following variables should be set by the computed finding routine:

NFOUND is the number of findings found in the date range, it should never be larger than NGET. If there are no true findings then NFOUND should be set to 0.

Since this form of the computed finding returns multiple occurrences, each of the following variables is an array with NFOUND entries. Entry number 1 should be the most recent in the date range, entry number 2 the second most recent, and so on up to NFOUND entries. If NGET is negative, then the date ordering should be reversed with entry 1 the oldest in the date range, entry 2 the second oldest, and so on. If there are no true findings, then NFOUND should be 0. NFOUND must have a value when the computed finding routine returns. For the Nth true occurrence, set the following values:

- TEST(N) is the logical value of the finding for occurrence N; this is set to 1 for each occurrence that is found. (Required)
- DATE(N) is the date of the finding in FileMan format for occurrence N. (Required)
- DATA is an array of values that can be used by the CONDITION field. For the N'th occurrence set DATA(N,"VALUE")=VALUE. You can also pass back other data using subscripts just as for a single occurrence computed finding, the only difference being the occurrence subscript comes first. For example, DATA(N,"COLOR")="RED".
- TEXT(N) is text to be displayed in the Clinical Maintenance output for occurrence N. (Optional)

There is no need to set the unsubscripted values of TEST and DATE in a multi-occurrence computed finding.

In most cases it makes sense to create any new computed findings as multi-occurrence computed findings. They have more flexibility than single occurrence computed findings and can operate more efficiently. This is especially true with respect to date range searches. The multi-occurrence computed finding is passed the beginning and ending dates as parameters, so it can return results from the specified date range. The original single occurrence computed finding has no provision for passing the beginning and ending dates, so it would just return the most recent occurrence. The computed finding driver must then check the date returned to determine if it is in the date range. If it is not, then there is no way to go back and look for an older result that might be in the date range.

For a *list* computed finding, the routine takes the following arguments:

- (NGET,BDT,EDT, PLIST,PARAM)

- NGET, BDT, and EDT have the same meaning as above. (See below for a discussion of the last argument.) The routine should return the list in a ^TMP global as follows:
- ^TMP($J,PLIST,DFN,N)=DAS^DATE^FILENUM^ITEM^VALUE
- N is a number specifying the number of the occurrence. N=1 is the most recent occurrence, N=2 the second most recent occurrence, and so on. N should never exceed NGET.
- DAS is the DA string. See the Clinical Reminder Index Technical Manual for an explanation of what a DA string is.
  NOTE: DAS is optional for a list computed finding, but if it's not set, a NULL should be used; i.e., ^TMP($J,PLIST,DFN,N)=^DATE^FILENUM^ITEM^VALUE
- DATE is the date of the finding.
- FILENUM is the file number where the result was found.
- ITEM is the internal entry number of the item that was found.
- VALUE is the default value, if there is not one then it should be null.

If you want to use a Condition with the computed finding, then you should return the values as follows:
^TMP($J,PLIST,DFN,N,SUB)=DATA(N,"SUB")
At a minimum, one of the subscripts must be "VALUE"; i.e., DATA(N, "VALUE"); then in the Condition you can use either V or V("VALUE"), because V is set equal to V("VALUE"). If you create other subscripts, you can use them in the Condition. For example:

- ^TMP($J,PLIST,DFN,1,"VALUE")=5
- ^TMP($J,PLIST,DFN,1,"RATE")=5
- ^TMP($J,PLIST,DFN,1,"COLOR")="RED"

would mean in the Condition you could use V, V("VALUE"), V("RATE") or V("COLOR")

The field COMPUTED FINDING PARAMETER can be used to pass a parameter into the computed finding routine. For single and multiple occurrence computed findings, the value is passed in TEST; for list computed findings, it is passed as PARAM. The COMPUTED FINDING PARAMETER is defined as free-text field with a length of 245 characters so it can be used to pass more than one parameter. If you pass more than one parameter, you should not use "^" as the piece separator, because it will not be properly transported in Reminder Exchange. When this feature is used, it will need to be documented, so that users of the computed findings will know how to properly define the contents of the COMPUTED FINDING PARAMETER field.

Great care should be taken whenever you create a computed finding. If it is poorly written, it could affect system performance, generate errors, and produce incorrect or misleading reminder evaluation results.

Hint: make sure that you "new" all the variables you use, to avoid strange side effects.

2. Enter your computed finding into the Reminders package (developer).

Use the option Reminder Computed Finding Edit (CFE) on the Computed Findings menu to enter/register your computed finding, which makes an entry in the REMINDER COMPUTED FINDINGS file (#811.4).

File #811.4 contains a combination of nationally distributed and local entries. Nationally distributed entry names are prefixed with VA-. Local entry names can't start with VA-.

Complete each of the following fields:

NAME (.01 field) - this is the name of the computed finding. When a computed finding is added as a finding to a reminder definition, it is done using NAME. For example, type CF.VA-BMI to add the exported VA-BMI computed finding to your reminder definition.

ROUTINE (.02 field) - this is the name of the MUMPS routine.

ENTRY POINT (.03 field) - this is the entry point in the MUMPS routine (the line tag at which that finding begins).

PRINT NAME (.04 field) - this will be displayed on the Clinical Maintenance component as the name of the computed finding. If it is blank, NAME will be used.

TYPE (5 field) – this is a set of codes that specifies what type of computed finding this is. “S” stands for single occurrence, “M” for multiple occurrence, and “L” for list. If it is blank, single will be assumed.

DESCRIPTION – This is a word-processing field that is used to document the computed finding. It is very important to include this field so that the person who is using the computed finding knows how to properly use it. During the definition editing process if a computed finding is selected as a finding the DESCRIPTION will be displayed to the user so the documentation for the computed finding will be right in front of them as they setup the computed finding.

The remaining fields are optional.

Example

```
Select Reminder Computed Finding Management Option: cfe Reminder Computed
Finding Edit

Select Reminder Computed Finding: AJEY TEST COMPUTED FINDING
...OK? Yes// <Enter> (Yes)

NAME: AJEY TEST COMPUTED FINDING Replace <Enter>
ROUTINE: PXRMZC1
ENTRY POINT: TEST
PRINT NAME: Test Computed Finding
TYPE: ?
     Choose from:
       M        MULTIPLE
       L        LIST
       S        SINGLE
DESCRIPTION:
  1>
CLASS: LOCAL//
SPONSOR:
REVIEW DATE:
```

Example: Computed finding for determining if a patient is an inpatient

If you want it to be true, set TEST to 1.
Set the DATE="" when TEST=0 and set DATE to the date of the finding when TEST=1
Set VALUE to a value that can be tested against in the CONDITION field.
TEXT just goes back as additional info in the Clinical Maintenance view.

So, if you made one that was testing for whether your patient was an inpatient, it might look like this:

```
INP(DFN,TEST,DATE,VALUE,TEXT)    ;
      N VAIN
```

```
D INP^VADPT ;IA #10061
I +$P(VAIN(7),U,1) S TEST=1,DATE=$P(VAIN(7),U,1)
E   S TEST=0,DATE=""
D KVA^VADPT
S (TEXT,VALUE)=""
Q
```

In this example we are not going to use TEXT or VALUE, so they are set to null.

3. (Reminder Manager) Place the finding into your reminder.

Now that the finding is created and entered/registered, you may use it just like any other finding would be used. The prefix for selecting a computed finding is CF. When a computed finding is selected its description will be displayed and this will provide information on how to use the selected computed finding. This is an example of adding a computed finding to a reminder definition.

```
Select FINDING: CF.VA-DATE FOR AGE
     Searching for a REMINDER COMPUTED FINDING, (pointed-to by FINDING ITEM)
    VA-DATE FOR AGE     NATIONAL

         ...OK? Yes// Y  (Yes)
Computed Finding Description:
This computed finding returns the date on which the patient will
reach the age (in years) specified by the value of the computed
finding parameter. Both the default value and date of the finding
will be the date in FileMan format when the patient reaches the
specified age.

Fractional ages like 59.5 are not allowed and the fractional part
will be ignored.

Editing Finding Number: 1
FINDING ITEM: VA-DATE FOR AGE//
REMINDER FREQUENCY:
MINIMUM AGE:
MAXIMUM AGE:
RANK FREQUENCY:
USE IN RESOLUTION LOGIC:
USE IN PATIENT COHORT LOGIC:
BEGINNING DATE/TIME:
ENDING DATE/TIME:
OCCURRENCE COUNT:
CONDITION:
CONDITION CASE SENSITIVE:
USE STATUS/COND IN SEARCH:
COMPUTED FINDING PARAMETER: 65
FOUND TEXT:
  No existing text
  Edit? NO//
NOT FOUND TEXT:
  No existing text
  Edit? NO//
```

See the Hines Computed Findings website for further information about computed findings. Also look in SHOP,ALL and on the Clinical Reminders website for examples.

National Computed Findings

```
VA-ACTIVE PATIENT RECORD FLAGS
VA-ADMISSIONS FOR A DATE RANGE
VA-AGE
VA-AGE BIRTH SEX LIST
VA-AGENT ORANGE EXPOSURE
VA-ALLERGY
VA-APPOINTMENTS FOR A PATIENT
VA-ASU USER CLASS
VA-BIRTH DATE BIRTH SEX LIST
VA-BMI
VA-BSA
VA-CASCADE
VA-COMBAT SERVICE
VA-COMBAT VET ELIGIBILITY
VA-CURRENT INPATIENTS
VA-DATE FOR AGE
VA-DATE OF BIRTH
VA-DATE OF DEATH
VA-DISCHARGES FOR A DATE RANGE
VA-EMPLOYEE
VA-ETHNICITY
VA-FILEMAN DATE
VA-IS INPATIENT
VA-LAST SERVICE SEPARATION DATE
VA-MST STATUS
VA-OEF SERVICE
VA-OIF SERVICE
VA-PATIENT RECORD FLAG INFORMATION
VA-PATIENT RECORD FLAG LIST
VA-PATIENT TYPE
VA-PATIENTS WITH APPOINTMENTS
VA-PCMM MHTC
VA-PCMM PATIENTS ASSIGNED TO A PRACTITIONER
VA-PCMM PATIENTS ASSIGNED TO A TEAM
VA-PCMM PC TEAM AND INSTITUTION
VA-PCMM PRACTITIONERS ASSIGNED TO A PATIENT
VA-POW
VA-PRIMARY CARE PROVIDER
VA-PRIMARY CARE TEAM
VA-PROGRESS NOTE
VA-PROJECT ARCH ELIGIBILITY
VA-PROJECT ARCH ELIGIBILITY LIST
VA-PTF HOSPITAL DISCHARGE DATE
VA-PURPLE HEART
VA-RACE 2003
VA-RACE PRE 2003
VA-RANDOM NUMBER
VA-REMINDER DEFINITION
VA-SERVICE BRANCH
```

```
VA-SERVICE SEPARATION DATE
VA-SEX
VA-SMART PATIENT HAS ALERT
VA-SMART PROCESSING ALERT DATA
VA-SMART PROCESSING ALERT ID
VA-TREATING FACILITY LIST
VA-UNKNOWN OEF/OIF SERVICE
VA-VETERAN
VA-VIETNAM SERVICE
VA-WAS INPATIENT
VA-WH BREAST PROCEDURE
VA-WH BREAST TREATMENT OVERDUE LIST
VA-WH MAMMOGRAM ABNORMAL IN WH PKG
VA-WH MAMMOGRAM IN WH PKG
VA-WH NEXT PROCEDURE
VA-WH OPEN PROCEDURE COUNT
VA-WH PAP SMEAR ABNORMAL IN WH PKG
VA-WH PAP SMEAR IN LAB PKG
VA-WH PAP SMEAR IN WH PKG
VA-WH PATIENT DOCUMENTATION
VA-WH PATIENT IS PREGNANT/LACTATING
VA-WH PROCEDURES WITH NO NOTIFICATION
```

Detailed Descriptions

VA-ACTIVE PATIENT RECORD FLAGS

This multiple occurrence computed finding will return active patient record flags. The Computed Finding Parameter is used to precisely specify what flags to search for. There are three parameters that can be used: C for category, T for type, and F for a specific flag.
The possible values are:

Category - N (national), L (local)
Type - B (behavioral), C (clinical), O (other), and R (research)
Flag - exact name of the flag

Use the "^" character to include more than one parameter in the search specification.

Some examples:
C:L - would search for local flags
C:N^T:B - would search for national flags whose type is behavioral
F:DRINKING PROBLEM - would search for the flag DRINKING PROBLEM
T:C^F:INFECTIOUS DISEASE - would search for the flag INFECTIOUS DISEASE whose type is clinical

Only active flags that meet all the specified criteria will be returned. If no search parameters are specified then no flags will be returned.

The date associated with a flag is the assigned date.

The following "CSUB" data is returned for each flag that is found:

```
APPRVBY  - approved by
```

```
ASSIGNDT - assigned date/time
CATEGORY - category
DATE     - assigned date/time
FLAG     - flag name
FLAGTYPE - flag type
ORIGSITE - originating site
OWNER    - owner site
REVIEWDT - review date/time
TIULINK  - pointer to the TIU note (only applies if the flag is linked to a
           TIU note)
TIUTITLE - the note title (only applies if the flag is linked to a
           TIU note)
```

VA-ADMISSIONS FOR A DATE RANGE

This list type computed finding can be used to build a list of patients who were admitted in the specified date range. A Reminder Location List can be used to restrict the selection of patients to only the ward locations included in the location list. To do this, enter the exact .01 name of a Reminder Location List into the COMPUTED FINDING PARAMETER field. If a Reminder Location List is not used then all ward locations will be included.

The CONDITION field may also be used to select entries by any of the following CSUB subscripts:

V or V("VALUE") = the ward to which the patient was admitted
in the format of 9;3EAST (IEN;Ward Name)

V("INSTITUTION") = the name of the INSTITUTION (file #4) entry
with which the ward is associated in the format
5000;ELY;660GC (IEN;Institution Name;Station Number)

V("TYPE_OF_MVMT") = the type of movement entry from file 405.1
(e.g., REGULAR, OPT-NSC, OPT-SC, etc.)

VA-AGE

Print Name: VA-Patient Age
Class: NATIONAL
Sponsor:
Review Date:

Description:
This is a single occurrence computed finding that returns the patient's age in years. It can be used as the value in the Condition. For example: I V>50.

If the patient is deceased the age will be their age on the date of death and V("DECEASED")=1.

Entry Point: AGE Routine: PXRMPDEM

VA-AGE BIRTH SEX LIST

ROUTINE: PXRMASL

ENTRY POINT: CFAGESL PRINT NAME: VA-Age and Birth Sex List
TYPE: LIST CF PARAMETER REQUIRED: YES
DESCRIPTION:
This list type computed finding builds a list of all patients in the inclusive age range defined by a minimum age and a maximum age. Optionally, birth sex can used as an additional filter.

The Computed Finding Parameter is used to specify the search criteria in the format: minimum age^maximum age^sex. Age is written as a number followed by a unit. The units are: D=days, W=weeks, M=months, or Y=years. If the unit is not specified it defaults to years. Sex can be F=female, M=male, or null. If sex is null then both female and male patients who fall in the age range will be included on the list.

Here are some examples:

- 30Y^65Y - all patients between the ages of 30 and 65 years
- 40Y^65Y^F - all female patients between the ages of 40 and 65 years
- 66Y^66Y^M - all male patients whose age is 66 years

If these parameters are not correctly specified no patients will be on the list. Minimum age and maximum age cannot be null and maximum age must be greater than or equal to minimum age.

Note that Beginning Date/Time, Ending Date/Time, and Occurrence Count are not relevant for this computed finding.

CLASS: NATIONAL

VA-AGENT ORANGE EXPOSURE
This computed finding will be true if the patient has an agent orange exposure registration date in the date range specified by Beginning Date/Time and Ending Date/Time.

Subscripts that can be used in a Condition are:
"LOCATION"

The default value is "LOCATION".

VA-ALLERGY
Print Name: VA-Allergy
Class: NATIONAL
Sponsor:
Review Date:

Description:
Identifies any allergies that contain either the ingredient or drug class that you specify via the Computed Finding Parameter. Ingredients will be prefixed with IN: while DR: is used for drug classes. You may also use the * as a wildcard on the end of your selection. For example, to search for the ingredient aspirin you would enter IN:ASPIRIN. For drug class MS101 you would enter DR:MS101. For all ingredients beginning with "ampi" you would type IN:AMPI*. For all MS1 related drug classes you'd enter DR:MS1*.

Note: This computed finding does not support date reversal.

Entry Point: ARTCL Routine: PXRMART

Appointment Computed Findings

These appointment computed findings allow more detailed or specific appointment information to be used in cohort or resolution logic in reminder definitions. Use the COMPUTED FINDING PARAMETER in the findings editor to filter the results. See the Descriptions and examples that follow, for instructions on how to use these computed findings.

VA-APPOINTMENTS FOR A PATIENT
This multiple occurrence computed finding returns a list of appointments for a patient in the specified date range from the Scheduling Package.

The Computed Finding Parameter can be used to specify which appointment data fields should be returned from the Scheduling package and filter the results returned based on location and status. The Computed Finding Parameter entry uses FLDS: to specify appointment data fields, STATUS: to filter specific statuses, and LL: to specify a Reminder Location List to filter locations.

FLDS, STATUS, and LL are all optional and can be defined in any order in the computed finding parameter field.
Some examples of how to use FLDS, STATUS and/or LL:
FLDS:1,2,16^STATUS:R^LL:DIABETIC LOCATIONS
STATUS:CP,CC^FLDS:25
LL:DIABETIC LOCATION

FLDS parameter information:
The appointment data fields are specified as follows:
FLDS:F1,F2,... where F1,F2,... are any of the possible ID values listed in the Available Appointment Data Fields table below.
The F1,F2,... ID values specify what data associated with the appointment will display in the clinical maintenance output. If no FLDS is specified, the default display fields will be 1,2 for APPOINTMENT DATE/TIME and CLINIC.

Additionally, each F1,F2,... specified will be returned as CSUB data that can also be used in the computed finding's CONDITION field. The CONDITION can be used to further screen the filtered appointments, returned by Scheduling, by setting the USE STATUS/CONDIN SEARCH field to YES.

For example, if you only want appointments that were checked out, use FLDS: 1,2,11 to get the APPOINTMENT DATE/TIME, CLINIC, and CHECK-OUT DATE/TIME for display purposes. The FLDS:1,2,11 will return the CSUB data "APPOINTMENT DATE/TIME", "CLINIC" and "CHECK-OUT DATE/TIME".

CSUB values are used in the CONDITION field to do a comparison to numeric or string values. Using +V causes the CSUB data to be interpreted as as numeric. Strings that cannot be converted to a number are set to zero. For example, a CONDITION such as I +V("CHECK-OUT DATE/TIME")>0 would be true if the appointment had a check-out date/time.

List of Available Appointment Data Fields table with assigned ID

```
  ID     Field Name
-------------------------------------------------------

     1     APPOINTMENT DATE/TIME
     2     CLINIC
     3     APPOINTMENT STATUS
     4     PATIENT
     5     LENGTH OF APPOINTMENT
     6     COMMENTS
     7     OVERBOOK
     8     ELIGIBILITY OF VISIT
     9     CHECK-IN DATE/TIME
    10     APPOINTMENT TYPE
    11     CHECK-OUT DATE/TIME
    12     OUTPATIENT ENCOUNTER IEN
    13     PRIMARY STOP CODE
    14     CREDIT STOP CODE
    15     WORKLOAD NON-COUNT
    16     DATE APPOINTMENT MADE
    17     DESIRED DATE OF APPOINTMENT
    18     PURPOSE OF VISIT and SHORT DESCRIPTION
    19     EKG DATE/TIME
    20     X-RAY DATE/TIME
    21     LAB DATE/TIME
    22     STATUS
    23     X-RAY FILMS
    24     AUTO-REBOOKED APPOINTMENT DATE/TIME
    25     NO-SHOW/CANCEL DATE/TIME
    26     RSA APPOINTMENT ID
    28     DATA ENTRY CLERK
    29     NO-SHOW/CANCELED BY
    30     CHECK-IN USER
    31     CHECK-OUT USER
    32     CANCELLATION REASON
    33     CONSULT LINK
```

STATUS information:
STATUS: is used to set a filter on the appointment status; only those appointments with a status that matches the STATUS: values list will be returned. The possible values that the Scheduling API allows are:

```
VALUE     Description
-------------------------------------------------------
    R      SCHEDULED/KEPT
    I      INPATIENT
    NS     NO-SHOW
    NSR    NO-SHOW, RESCHEDULED
    CP     CANCELLED BY PATIENT
    CPR    CANCELLED BY PATIENT, RESCHEDULED
    CC     CANCELLED BY CLINIC
    CCR    CANCELLED BY CLINIC, RESCHEDULED
    NT     NO ACTION TAKEN
```

If STATUS is not specified the default is R,I.

The APPOINTMENT STATUS returned by the API is a summarized list which does not include detailed statuses such as Future, Checked-In, or Checked Out. These statuses are summarized as SCHEDULED/KEPT. As a result, a CONDITION may be required to make sure you are getting the correct results. For example, if you are looking for an appointment that was kept you would set

STATUS:R combined with a CONDITION of I (+V("OUTPATIENT ENCOUNTER IEN")>0)!(+V("CHECK-OUT DATE/TIME")>0) with USE STATUS/COND IN SEARCH set to YES.

LL information:
LL: Reminder Location List specifies a list of locations so that only appointments for those locations will be returned. If LL is not specified, then appointments for all locations will be returned.

Available Appointment Data Fields

ID	FIELD NAME	DATA TYPE	Format/Valid Values	Description	Examples of Returned Data
1	APPOINTMENT DATE/TIME	DATE/TIME	YYYMMDD.HHMM	The scheduled Appointment Date/Time	3031215.113 3031201.0815
2	CLINIC IEN and NAME	TEXT	ID^name	Clinic IEN and name	150;CARDIOLOGY 32;BLOOD DONOR
3	APPOINTMENT STATUS	TEXT	**R (**Scheduled/Kept) **I** (Inpatient) **NS** (No-Show) **NSR** (No-Show, Rescheduled) **CP** (Cancelled by Patient) **CPR** (Cancelled by Patient, Rescheduled) **CC** (Cancelled by Clinic) **CCR** (Cancelled by Clinic, Rescheduled) **NT** (No Action Taken)	The status of the appointment.	R;SCHEDULED/KEPT I;INPATIENT NS;N0-SHOW NSR;NO-SHOW & RESCHEDULED CP;CANCELLED BY PATIENT CPR;CANCELLED BY PATIENT & RESCHEDULED CC;CANCELLED BY CLINIC CCR;CANCELLED BY CLINIC & RESCHEDULED NT;NO ACTION TAKEN
4	PATIENT DFN and NAME	TEXT	DFN;name	Patient DFN and Patient Name	34877;JONES,BOB 455;SCHILSON,BRIAN
5	LENGTH OF APPOINTMENT	TEXT	NNN	The scheduled length of appointment, in minutes	20 60
6	COMMENTS	TEXT	free text	Any comments associated with the appointment	PATIENT NEEDS WHEELCHAIR
7	OVERBOOK	TEXT	**Y** or **N**	"Y" if appointment is an overbook else "N"	Y N
8	ELIGIBILITY OF VISIT IEN and NAME	TEXT	IEN;name	Eligibility code and name associated with the appointment	2;AID & ATTENDANCE 7;ALLIED VETERAN 13;COLLATERAL OF VET.
9	CHECK-IN DATE/TIME	DATE/TIME	YYYMMDD.HHMM	Date/time the patient checked in for the appointment	3031215.113
10	APPOINTMENT TYPE IEN and NAME	TEXT	IEN;name	Type of Appointment IEN and name	1;COMPENSATION & PENSION 3;ORGAN DONORS 7;COLLATERAL OF VET.
11	CHECK-OUT DATE/TIME	DATE/TIME	YYYMMDD.HHMM	Date/time the patient checked out of the appointment	3031215.113
12	OUTPATIENT ENCOUNTER IEN	TEXT	NNN	The outpatient encounter IEN associated with this appointment	4578
13	PRIMARY STOP CODE IEN and CODE	TEXT	IEN;code	Primary Stop code IEN and code	301;350

				associated with the clinic.	
ID	**FIELD NAME**	**DATA TYPE**	**Format/Valid Values**	**Description**	**Examples of Returned Data**
14	CREDIT STOP CODE IEN and CODE	TEXT	IEN;code	Credit Stop code IEN and code associated with the clinic.	549;500
15	WORKLOAD NON-COUNT	TEXT	**Y** or **N**	"Y" if clinic is non-count else "N"	Y N
16	DATE APPOINTMENT MADE	DATE	YYYMMDD	Date the appointment was entered into the Scheduling system	3031215
17	DESIRED DATE OF APPOINTMENT	DATE	YYYMMDD	The date the clinician or patient desired for the scheduling of this appointment.	3031215
18	PURPOSE OF VISIT	TEXT	Code (1, 2, 3, or 4) and short description (C&P, 10-10, SV, or UV)	The Purpose of Visit	1;C&P 2;10-10 3;SV 4;UV
19	EKG DATE/TIME	DATE/TIME	YYYMMDD.HHMM	The scheduled date/time of the EKG tests in conjunction with this appointment	3031215.083
20	X-RAY DATE/TIME	DATE/TIME	YYYMMDD.HHMM	The scheduled date/time of the X-RAY in conjunction with this appointment	3031215.083
21	LAB DATE/TIME	DATE/TIME	YYYMMDD.HHMM	The scheduled date/time of the Lab tests in conjunction with this appointment	3031215.083
22	STATUS	TEXT	Status Code, Status Description, Print Status, Checked In Date/Time, Checked Out Date/Time, and Admission Movement IFN	Status Information for the Visit.	8;INPATIENT APPOINTMENT;INPATIENT/CHECKED OUT;;3030218.1548;145844
23	X-RAY FILMS	TEXT	**Y** or **N**	"**Y**" if x-ray films are required at clinic else "**N**"	Y N

VA-ASU USER CLASS

Print Name: VA-ASU User Class
Class: NATIONAL
Sponsor:
Review Date:

Description:
This multi-occurrence computed finding returns a list of the ASU User Classes that the user belongs to. The user is the person who is running the reminder evaluation or processing a reminder dialog.

When a user is assigned to an ASU User Class, there can be an Activation Date and an Expiration Date. For the purpose of this computed finding, the date of the finding will be the Activation Date. In those cases when there is no Activation Date, 00/00/0000 will be displayed as the date of the finding. If a Beginning Date/Time and Ending Date/Time are used with the finding, then the period defined by the Activation Date and Expiration Date must overlap the period defined by the Beginning Date/Time and the Ending Date/Time in order for the finding to be true. When the Activation Date is missing, a 0 will be

used in its place for determining the overlap. When the Expiration Date is missing, the evaluation date will be used in its place for determining the overlap.

The Computed Finding Parameter can be used to specify either the internal entry number or the exact name of an ASU User Class. If this option is used, then each User Class the user is a member of is checked to see if it is either the specified User Class or a child of the specified User Class. Only the User Classes that pass this test will remain on the list of the user's User Classes. For example, if the user is a member of the user class ATTENDING PHYSICIAN, which is a child of the user class PHYSICIAN, and the Computed Finding Parameter is set to "PHYSICIAN," then ATTENDING PHYSICIAN will remain on the list. If the Computed Finding Parameter was set to CARDIOLOGIST, then ATTENDING PHYSICIAN would be removed since it is not a child of CARDIOLOGIST.

If you want to specify the user class as PHYSICIAN, in the computed finding parameter field, type the following: COMPUTED FINDING PARAMETER:PHYSICIAN

This computed finding uses date ranges like drug findings do, so if the user was an active member of the class anytime during the date range, the computed finding will be true. If you want to know if the user is active as of today, then use T for the beginning and ending date/time.

Entry Point: CLASS Routine: PXRMASU

VA-BIRTH DATE BIRTH SEX LIST
ROUTINE: PXRMASL
ENTRY POINT: CFBDAYSL
PRINT NAME: VA-Birth Date Birth Sex List
TYPE: LIST
CF PARAMETER REQUIRED: YES
DESCRIPTION:
This list type computed finding builds a list of all patients in the inclusive age defined by a minimum birth date and a maximum birth date.

Optionally, birth sex can used as an additional filter.

The Computed Finding Parameter is used to specify the search criteria in the format: minimum birth date^maximum birth date^sex. The dates can be entered in any of the date formats that can be used in Clinical Reminders. Sex can be F=female, M=male, or null. If sex is null then both female and male patients whose birth date falls in the range will be included on the list.

Here are some examples:

- 10/01/1940^Oct 1, 1965 - all patients born between October 1, 1940 and October 1, 1965.
- 01-01-1970^01 Jan 1980^F - all female patients born between January 1, 1970 and January 1, 1980
- Jun 1, 1969^Jun 1 1969^M - all male patients born on June 1, 1969.

If these parameters are not correctly specified no patients will be on the list. Minimum birth date and maximum birth date cannot be null and maximum birth date must be greater than or equal to minimum birth date.

Note that Beginning Date/Time, Ending Date/Time, and Occurrence Count are not relevant for this computed finding.

CLASS: NATIONAL

VA-BMI
The VA-BMI computed finding calculates the patient's body mass index. The value returned, which can be used in the CONDITION field of the findings, is the body mass index.

Note that date range searching is applied only to the weight and that the date of the finding is the date of the weight measurement used in the BMI calculation. The height used in the calculation will be the height measurement that occurred closest to the date of the weight measurement. This may be before or after the weight measurement.

An example of using the VA-BMI computed finding:
1) Create a finding in a reminder that is the VA-BMI computed finding;
2) Add logic in the CONDITION field to check for a particular BMI value: "I V>25";

Example: Changing the Occurrence count in a Reminder Definition using VA-BMI

```
Select Reminder Definition Management Option: RE  Add/Edit Reminder Definition

Select Reminder Definition: bmi and BSA TEST    PKR BMI AND BSA TEST  LOCAL

     Select one of the following:

          A         All reminder details
          G         General
          B         Baseline Frequency
          F         Findings
          FF        Function Findings
          L         Logic
          C         Custom date due
          D         Reminder Dialog
          W         Web Addresses

Select section to edit: f  Findings

Reminder Definition Findings

Choose from:

CF BSA                                                        Finding #   2
CF VA-BMI                                                     Finding #   1

Select FINDING: VA-BMI

     Searching for a DRUG, (pointed-to by FINDING ITEM)

     Searching for a EDUCATION TOPICS, (pointed-to by FINDING ITEM)

     Searching for a EXAM, (pointed-to by FINDING ITEM)

     Searching for a REMINDER LOCATION LIST, (pointed-to by FINDING ITEM)

     Searching for a HEALTH FACTOR, (pointed-to by FINDING ITEM)

     Searching for a IMMUNIZATION, (pointed-to by FINDING ITEM)

     Searching for a LABORATORY TEST, (pointed-to by FINDING ITEM)
```

```
     Searching for a MH TESTS AND SURVEYS, (pointed-to by FINDING ITEM)

     Searching for a ORDERABLE ITEM, (pointed-to by FINDING ITEM)

     Searching for a RADIOLOGY PROCEDURE, (pointed-to by FINDING ITEM)


     Searching for a REMINDER COMPUTED FINDING, (pointed-to by FINDING ITEM)
  VA-BMI     NATIONAL
         ...OK? Yes//   (Yes)


Computed Finding Description:
The VA-BMI computed finding calculates the patient's body mass index. The
value returned, which can be used in the CONDITION field of the findings, is
the body mass index.

An example of using the VA-BMI computed finding:
1)  Create a finding in a reminder that is the VA-BMI computed finding;
2)  Add logic in the CONDITION field to check for a particular BMI value:
"I V>25";
3)  This finding will be evaluated to true for patients with a BMI that is
greater than 25.

This is a multi-occurrence computed finding.

Editing Finding Number: 1
FINDING ITEM: VA-BMI//
REMINDER FREQUENCY:
MINIMUM AGE:
MAXIMUM AGE:
RANK FREQUENCY:
USE IN RESOLUTION LOGIC:
USE IN PATIENT COHORT LOGIC:
BEGINNING DATE/TIME:
ENDING DATE/TIME:
OCCURRENCE COUNT: 5// 6      ← You can change the occurrence count here.
CONDITION:
CONDITION CASE SENSITIVE:
USE STATUS/COND IN SEARCH:
COMPUTED FINDING PARAMETER:
FOUND TEXT:
  No existing text
  Edit? NO//
NOT FOUND TEXT:
  No existing text
  Edit? NO//

Reminder Definition Findings

Choose from:

CF BSA                                                    Finding #   2
CF VA-BMI                                                 Finding #   1
Select FINDING:
```

VA-BSA

This multi-occurrence computed finding returns the patient's body surface area (BSA) as a value that can be used in the CONDITION field. The COMPUTED FINDING PARAMETER can be used to select which formula is used to calculate the BSA.

COMPUTED FINDING PARAMETER	FORMULA
M	Mosteller
D	DuBois and Dubois
H	Haycock
G	Gehan and George
B	Boyd

The default is to use the Mosteller formula. Unless there is a reason to use one of the other formulas, the recommendation is to use the default, because it is faster to calculate and the numerical results are very close to those of the other formulas.

Formulas for Body Surface Area Calculator

The Mosteller formula

BSA (m^2) = ([Height(cm) x Weight(kg)]/ 3600)^{½} e.g. BSA = SQRT((cm*kg)/3600)
or in inches and pounds: BSA (m^2) = ([Height(in) x Weight(lbs)]/ 3131)^{½}

The DuBois and DuBois² formula

BSA (m^2) = 0.20247 x Height(m)$^{0.725}$ x Weight(kg)$^{0.425}$

A variation of DuBois and DuBois that gives virtually identical results is:

BSA (m^2) = 0.007184 x Height(cm)$^{0.725}$ x Weight(kg)$^{0.425}$

The Haycock formula

BSA (m^2) = 0.024265 x Height(cm)$^{0.3964}$ x Weight(kg)$^{0.5378}$

The Gehan and George formula

BSA (m^2) = 0.0235 x Height(cm)$^{0.42246}$ x Weight(kg)$^{0.51456}$

The Boyd formula

BSA (m^2) = 0.0003207 x Height(cm)$^{0.3}$ x Weight(grams)$^{(0.7285 - (0.0188 \times LOG(grams))}$

References

1. Mosteller RD: Simplified Calculation of Body Surface Area. *N Engl J Med* 1987 Oct 22;317(17):1098 (letter)
2. DuBois D; DuBois EF: A formula to estimate the approximate surface area if height and weight be known. *Arch Int Med* 1916 17:863-71.
3. Haycock G.B., Schwartz G.J.,Wisotsky D.H. Geometric method for measuring body surface area: A height weight formula validated in infants, children and adults. *The Journal of Pediatrics* 1978 93:1:62-66

4. Gehan EA, George SL, Estimation of human body surface area from height and weight. *Cancer Chemother Rep* 1970 54:225-35.
5. Boyd E, The growth of the surface area of the human body. Minneapolis: university of Minnesota Press, 1935. (I never found the original source. Instead, I copied the formula from: http://www.ispub.com/journals/IJA/Vol2N2/bsa.htm)

Note that the changes to VA-BMI (only applying the date range criteria to the weight) also apply to the VA-BSA computed finding, because it uses the same routine to obtain matched weight and height measurements.

VA-CASCADE INDEX
Print Name: Episode of Care
Type: MULTIPLE
Class: NATIONAL
Sponsor:
Review Date:

Description:

This computed finding can return multiple patient cascade(s). The computed finding parameter field is mandatory. The parameter structure is:

NAME:STATUS

NAME is the type of cascade to search for – at this time only BREAST CARE is available for use in this field:

STATUS is either OPEN or "". OPEN only returns cascade with a status of open. "" Returns both OPEN and CLOSED cascades.

If searching for an open cascade the computed finding will return only one cascade. If searching for all cascade the computed finding will return cascade when the START DATE is between the passed in start and stop date.

The data output is: DATA("STATUS")=STATUS (OPEN or CLOSED) DATA("NAME")=CASCADE NAME DATA("DIALOG")=1

The DIALOG parameter is used to let the Reminder Dialog Branching Logic build the dialog element/group display text from the TEXT node from the computed finding output.

Entry Point: EPISODE Routine: PXRMCEOC

VA-COMBAT SERVICE
This computed finding will be true if combat service is found in the date range the date range specified by Beginning Date/Time and Ending Date/Time.

Subscripts that can be used in a Condition are:
"LOCATION"

The default value is "LOCATION".

Entry Point: COMBAT Routine: PXRMMSER

VA-COMBAT VET ELIGIBILITY
Print Name: VA-Combat Vet Eligibility
Class: NATIONAL
Sponsor:
Review Date:

Description:
This computed finding will be true if the patient qualifies as a combat vet.

The possible values that can be used in a Condition are: "Eligible", "Expired", and "Not eligible". An example is:

I V="Not eligible"

If the patient was eligible on the evaluation date then the Value for use in a Condition will be "Eligible". If the patient is not eligible and the evaluation date is greater than the eligibility end date then the Value is "Expired", otherwise the value is "Not eligible".

```
Entry Point: CVELIG     Routine:    PXRMMSER
```

VA-CURRENT INPATIENTS
Print Name: VA-Current Inpatients
Class: NATIONAL
Sponsor:
Review Date:

Description:
This list type computed finding can be used to build a list of all current inpatients. Note that current refers to the actual calendar date so for this computed finding date ranges are irrelevant. A Reminder Location List can be used to restrict the selection of patients to only the ward locations included in the location list. To do this, enter the exact .01 name of a Reminder Location List into the COMPUTED FINDING PARAMETER field. If a Reminder Location List is not used, then all ward locations will be included.

The CONDITION field may also be used to select entries by any of the following CSUB subscripts:

```
V or V("VALUE") = the ward to which the patient is currently admitted
                  in the format of 9;3EAST (IEN;Ward Name)

V("INSTITUTION") = the name of the INSTITUTION (file #4) entry
                   with which the ward is associated in the format
                   5000;ELY;660GC (IEN;Institution Name;Station Number)

V("ADMIT DATE") = the date of admission for the patient in the
                  format 3010815.114255^AUG 15,2001@11:42:55
                  (Internal^External)
```

Entry Point: CURR Routine: PXRMINPL

VA-DATE FOR AGE
Print Name: VA-Date for Age
Class: NATIONAL
Sponsor:
Review Date:

Description:
This computed finding returns the date on which the patient will reach the age (in years) specified by the value of the computed finding parameter. Both the default value and date of the finding will be the date in FileMan format when the patient reaches the specified age.

Fractional ages like 59.5 are not allowed and the fractional part will be ignored.

Entry Point: DFA Routine: PXRMPDEM

VA-DATE OF BIRTH
Print Name: VA-Patient's Date of Birth
Class: NATIONAL
Sponsor:
Review Date:
Description:
This is a single occurrence computed finding that returns the patient's date of birth as a FileMan date. It can be used as the value in the Condition. For example: I V>2850302. The date of the finding is the date of birth so that date range searches can be used to find patients who were born in a certain time frame.

Entry Point: DOB Routine: PXRMPDEM

VA-DATE OF DEATH
Print Name: VA-Patient's Date of Death
Class: NATIONAL
Sponsor:
Review Date:

Description:
This is a single occurrence computed finding that returns the patient's date of death, if it exists, as a FileMan date. It can be used as the value in the Condition. For example: I V>2330304 The date of the finding is the date of death so that date range searches can be used to find patients who died in a certain time frame.

Entry Point: DOD Routine: PXRMPDEM

VA-DISCHARGES FOR A DATE RANGE

This list type computed finding can be used to build a list of patients who have been discharged in the specified date range. A Reminder Location List can be used to restrict the selection of patients to only the ward locations included in the location list. To do this, enter the exact .01 name of a Reminder Location List into the COMPUTED FINDING PARAMETER field. If a Reminder Location List is not used then all ward locations will be included.

The CONDITION field may also be used to select entries by any of the following CSUB subscripts:

```
V or V("VALUE") = the ward from which the patient was discharged
                  in the format of 9;3EAST (IEN;Ward Name)

V("INSTITUTION") = the name of the INSTITUTION (file #4) entry
                   with which the ward is associated in the format
                   5000;ELY;660GC (IEN;Institution Name;Station Number)

V("TYPE_OF_MVMT") = the type of movement entry from file 405.1
```

```
(e.g., REGULAR, OPT-NSC, OPT-SC, etc.)
```

VA-EMPLOYEE
DESCRIPTION: This computed finding will be true if the patient was an employee during the date range specified by the Beginning Date/Time and Ending Date/Time.

The following algorithm is used to determine if the patient was an employee:

1. A lookup based on the patient's SSN is made in the New Person file. If there is no match, the computed finding is false.
2. If there is a match, a check is made to see if the patient's New Person file entry has a pointer to the PAID file. If there is no pointer, the computed finding is false.
3. If there is a pointer, then Date Entered is compared with Ending Date/Time. If it is greater, the computing finding is false.
4. Next, a check is made to see if there is a Termination Date. If there is a Termination Date and it is prior to the Beginning Date/Time, the computed finding is false.
5. If steps one through four are passed, the computed finding is true.

VA-ETHNICITY
Print Name: VA-Patient's Ethnicity
Class: NATIONAL
Sponsor:

Review Date:

Description:
This multiple occurrence computed finding will return the patient's ethnicity values from the Patient file. If none are recorded then the computed finding will be false. This computed finding does not support date reversal.

The value of the computed finding that can be used in the Condition is the patient's ethnicity.

Entry Point: ETHNY Routine: PXRMPDEM
VA-FILEMAN DATE
Print Name: VA-FileMan Date
Class: NATIONAL
Sponsor:
Review Date:

Description:
The purpose of this computed finding is to allow the creation of a finding that has a specific date to be used for comparison purposes in a function finding date function.

This computed finding takes any acceptable FileMan date, via the COMPUTED FINDING PARAMETER, and sets the date of the finding and its value to that date.

See the FileMan Getting Started Manual to learn about acceptable FileMan date/time formats and abbreviations. Additionally, you may use the abbreviations T-NY or NOW-NY, where N is an integer and Y stands for years.

For example, setting the COMPUTED FINDING PARAMETER to T-3M would give the finding a date and value of the evaluation date minus three months.

:

Entry Point: FMDATE Routine: PXRMDATE

VA-IS INPATIENT
Print Name: VA-Is Inpatient
Class: NATIONAL
Sponsor:
Review Date:

Description:
This computed finding will be true if the patient was/is an inpatient on the evaluation date. The following "CSUB" values will be available:

ADMISSION DATE/TIME (FileMan format)
ADMISSION TYPE
ATTENDING PHYSICIAN
DATE (FileMan format)
PRIMARY PROVIDER
TREATING SPECIALITY
WARD LOCATION

Entry Point: INP Routine: PXRMPDEM

Example:

Determining if the inpatient is on ward 7 EAST or 7 WEST (these are mental health inpatient locations)

```
I (V("WARD LOCATION")="7 EAST (SEA)")!(V("WARD LOCATION")="7 WEST (SEA)")


                                    --STATUS-- --DUE DATE--  --LAST DONE--
Ment Hlth Inpatient Locations          N/A
Patient is not on an inpatient mental health ward.

Information:
Computed Finding: Is patient admitted as inpatient?
  10/01/2010 value - 23^3 EAST (SEA)


==================
                                    --STATUS-- --DUE DATE--  --LAST DONE--
Ment Hlth Inpatient Locations        DUE NOW     DUE NOW       unknown

Cohort:
Computed Finding: Is Inpatient
  12/06/2010; Patient is an inpatient; admission date/time:
  08/13/2010@10:12:17


Information:
Computed Finding: Is patient admitted as inpatient?
  08/13/2010 value - 27^7 EAST (SEA)
```

VA-MST STATUS
Print Name: VA-MST Status
Class: NATIONAL
Sponsor: Office of Mental Health Services and Women Veterans Heal
th Program

Review Date:
Description:
This computed finding uses $$GETSTAT^DGMSTAPI, DBIA #2716, to obtain a patient's MST status information.

:

Entry Point: STATUS Routine: PXRMMST

VA-OEF SERVICE
This multi-occurrence computed finding will search for periods of OEF service in the date range specified by Beginning Date/Time and Ending Date/Time.

Subscripts that can be used in a Condition are:
"LOCATION"

The default value is "LOCATION".

Entry Point: OEF Routine: PXRMMSER

VA-OIF SERVICE
Print Name: VA-OIF Service
Class: NATIONAL
Sponsor:
Review Date:

Description:
This multi-occurrence computed finding will search for periods of OIF service in the date range specified by Beginning Date/Time and Ending Date/Time.

Subscripts that can be used in a Condition are:
"LOCATION"

The default value is "LOCATION".

:

Entry Point: OIF Routine: PXRMMSER

VA-OEF/OIF SERVICE (LIST)

Print Name: VA-OEF/OIF Service List Patient List
Class: NATIONAL
Sponsor:
Review Date:

Description:
This list type computed finding builds a list of patients who have been deployed in Operation Enduring Freedom (OEF) or Operation Iraqi Freedom (OIF). If the location was either OEF or OIF, but cannot be Disclosed or determined, then it is listed as unknown (UNK).

Date range searching is done by looking for an overlap in the period defined by Beginning Date/Time (BDT) and Ending Date/Time (EDT), with the period defined by OEF/OIF From and To Dates. In order for a patient to be included on the list, there must be an overlap of these two time periods. In other words, if patients had service at any time in the date range specified by BDT and EDT, they will be included.

The Computed Finding Parameter can be used to include only patients who had service at a specific location. The locations can be OEF, OIF, or ANY. The value ANY, which is the default, will include all locations. Each location is separated by the "^" character. For example, to include patients who had OEF, service the Computed Finding Parameter is: OEF
To include patients who had either OEF or OIF service, the Computed Finding Parameter is:
OEF^OIF
To include patients who had UNK, service the Computed Finding Parameter is: UNK

:
Entry Point: OEIF Routine: PXRMMSER

VA-PATIENT RECORD FLAG INFORMATION
Print Name: VA-Patient Record Flag Information
Class: NATIONAL
Sponsor:
Review Date:

Description:
This multiple type computed finding returns information about the specified flag for a patient. The flag is specified by putting the exact name of the flag in the Computed Finding Parameter.

The following "CSUBS" are available:

"ACTION" The action
"APPRVBY" Approved by
"ASSIGN DT" Date and time the flag was assigned
"CATEGORY" The category
"DATE" Date of the action
"FLAGTYPE" Flag type
"REVIEW DT" Review date
"TIU TITLE" TIU title associated with the flag

:
Entry Point: GETINF Routine: PXRMPRF

VA-PATIENT RECORD FLAG LIST
Print Name: VA-Patient Record Flag List
Class: NATIONAL
Sponsor:
Review Date:

Description:
This list type computed finding returns a list of all patients who have a specified record flag active any time in the date range.

The Computed Finding Parameter is used to specify the flag in the following format: FLAG NAME^FLAG TYPE

Where FLAG NAME is the exact name of the flag and FLAG TYPE is L for local or N for national. FLAG TYPE is optional and defaults to L.

:
Entry Point: GETLST Routine: PXRMPRF

VA-PATIENT TYPE
Print Name: VA-Patient Type
Class: NATIONAL
Sponsor:
Review Date:

Description:
This computed finding is a single value computed finding. If a patient type is found for the patient the computed finding will be true and type will be returned as the Value.

Example: I V="ACTIVE DUTY"

Possible Values that can be returned from this computed finding are:
ACTIVE DUTY
ALLIED VETERAN
COLLATERAL
EMPLOYEE
MILITARY RETIREE
NON-VETERAN (OTHER)
NSC VETERAN
SC VETERAN
TRICARE

:

Entry Point: PATTYPE Routine: PXRMPDEM

VA-PATIENTS WITH APPOINTMENTS
Print Name: VA-Patients with Appointments
Class: NATIONAL
Sponsor:
Review Date:

Description:
This list computed finding returns a list of patients with appointments in the specified date range. The COMPUTED FINDING PARAMETER can be used to filter the results. The values that can be used in the parameter are: FLDS:F1,F2,... where F1,F2 are any of the possible integer ID values listed in the table for this computed finding in the Computed Finding section of the Clinical Reminders Manager's Manual. These specify what data associated with the appointment is to be returned; this data can be used in a CONDITION statement. Field number n will be the nth piece of the value. For example FLDS:1,16 would return the Appointment Date/Time in piece 1 and Date Appointment Made in piece 16. A condition such as I $P(V,U,16)>3060301 would be true if the date the appointment was made was after March 1, 2006. If FLDS is not specified then the value will be ID=1 (Appointment Date/Time) and ID=2 (Clinic IEN and Name).

STATUS sets a filter on the appointment status; only those appointments with status on the list will be returned. The possible values for STATUS are R (Scheduled/Kept), I (Inpatient), NS (No-show), NSR (No-show, Rescheduled), CP (Cancelled by Patient),

CPR (Cancelled by Patient, Rescheduled), CC (Cancelled by Clinic),

CCR (Cancelled by Clinic, Rescheduled), NT (No Action Taken).
If STATUS is not specified the default is R,I.

LL: Reminder Location List specifies a list of locations so that only appointments for those locations will be returned. If LL is not specified, then appointments for all locations will be returned.

FLDS, STATUS, and LL are all optional and can be given in any order. Some examples:

FLDS:1,2,16^STATUS:R^LL:DIABETIC LOCATIONS
STATUS:CP,CC^FLDS:25
LL:DIABETIC LOCATION

Entry Point: APPL Routine: PXRMRDI

VA-PCMM MHTC

Print Name: VA-PCMM Mental Health Treatment Coordinator
Class: NATIONAL
Sponsor:
Review Date:
Description:
This computed finding returns the patient's current Mental Health Treatment Coordinator (MHTC). The Scheduling API that this computed finding uses does not take a date as a parameter so it only returns the MHTC as of the actual calendar date. Therefore, this computed finding cannot be used to determine if the patient had an MHTC sometime in the past.

The default value of the computed finding is the MHTC. The following additional CSUBs are returned:

MHTC - Mental Health Treatment Coordinator ROLE - role TEAM - team TEAM
POSITION - team position

VA-PCMM PATIENTS ASSIGNED TO A PRACTITIONER
ROUTINE: PXRMPCMM ENTRY POINT: PTPR
PRINT NAME: VA-PCMM Patients Assigned to a Practitioner
TYPE: LIST CF PARAMETER REQUIRED: YES
DESCRIPTION: This list type computed finding returns a list of patients assigned to a list of practitioners in the date range defined by Beginning Date/Time and Ending Date/Time. The Computed Finding Parameter is used to specify the practitioners. Each practitioner is separated by a semicolon. Either the IEN or the exact name (.01 field) from file #200, the New Person file, can be used. IENs and names can be mixed.

Please note: When you identify a practitioner in the Computed Finding Parameter field, only patients who are directly linked to that practitioner will be included. Any patients that are only associated with that practitioner in a PRECEPTOR role, through an assignment to an Associate Provider, will NOT be included.

To get patients who are linked to a Preceptor via an Associate Provider, you would need to run a separate report for the Resident (Associate Provider) or include an additional entry of the Computed Finding with the resident's name or IEN.

The Computed Finding Parameter can also be used to pass the optional parameter INCLUDE. If you want to use this parameter, it is passed as the second piece of the Computed Finding Parameter. The possible values of INCLUDE are:

0 - include patients who were assigned anytime in the date range.
1 – include patients who were assigned for the entire date range.

The default is 0.

The format for the computed finding parameter is: PRACTITIONER(s)^INCLUDE

Here is an example of how to specify a list of practitioners, two by name and one by IEN:

PROVIDER,ONE;345;PROVIDER,SIX

In the above example, INCLUDE is not specified, so it takes the default value of 0. To set the value of INCLUDE to 1 with the above list, the computed finding parameter would be:

PROVIDER,ONE;345;PROVIDER,SIX^1

VA-PCMM PATIENTS ASSIGNED TO A TEAM
Print Name: VA-PCMM Patients Assigned to a Team

Class: NATIONAL
Sponsor:
Review Date:

Description:
This list type computed finding returns a list of patients assigned to a team in the date range specified by Beginning Date/Time and Ending Date/Time. If the patient was assigned to the team at anytime during the date range they will be on the list. The Computed Finding Parameter is used to specify the team. It can be either the IEN or the exact name (.01 field) from file #404.51, the Team file.

The Computed Finding Parameter can be used to pass the optional parameter INCLUDE. If you want to use this parameter, it is passed as the second piece of the Computed Finding Parameter. The possible values of INCLUDE are:

0 - include patients who were assigned anytime in the date range. 1 - include patients who were assigned for the entire date range.

The default is 0.

The format for the computed finding parameter is: TEAM^INCLUDE

For example, if the team is TEAM ONE and you want the value of INCLUDE to be 1, then the computed finding parameter would be: TEAM ONE^1
Entry Point: PTTM Routine: PXRMPCMM

VA-PCMM PC TEAM AND INSTITUTION
Print Name: VA-PCMM Primary Care Team & Institution
Class: NATIONAL
Sponsor:
Review Date:

Description:
This computed finding returns the patient's primary care team and institution as of the evaluation date.

:

Entry Point: INSTPCTM Routine: PXRMPCMM

VA-PCMM PRACTITIONERS ASSIGNED TO A PATIENT
Print Name: VA-PCMM Practitioners Assigned to a Patient
Class: NATIONAL
Sponsor:
Review Date:

Description:
This multiple valued computed finding returns a list of practitioners assigned to a patient in the date range defined by the Beginning Date/Time and Ending Date/Time.

The Computed Finding Parameter can be used to pass the optional parameter INCLUDE. The possible values are:

0 - include practitioners who were assigned anytime in the date range. 1 - include practitioners who were assigned for the entire date range.

The default is 0.

For example, if you want the value of INCLUDE to be 1, then the computed finding parameter would be: 1

:

Entry Point: PRPT Routine: PXRMPCMM

VA-POW
Print Name: VA-POW

Class: NATIONAL
Sponsor:
Review Date:

Description:
This computed finding will be true if the patient was a POW in the date range specified by Beginning Date/Time and Ending Date/Time.

Subscripts that can be used in a Condition are:
"LOCATION"

The default value is "LOCATION".

:

Entry Point: POW Routine: PXRMMSER

VA-PRIMARY CARE PROVIDER
Print Name: VA-PCMM Primary Care Provider
Class: NATIONAL
Sponsor:
Review Date:

Description:
This single occurrence computed finding returns the patient's primary care provider. This is the name field from the NEW PERSON file (#200). If no primary care provider has been assigned, the value will be null.

:

Entry Point: PROVIDER Routine: PXRMPCIN

VA-PRIMARY CARE TEAM
Print Name: VA-PCMM Primary Care Team
Class: NATIONAL
Sponsor:
Review Date:

Description:
This single occurrence computed finding returns the name of the patient's PCMM primary care team as the value. If no team has been assigned, the value will be null.

:

Entry Point: TEAM Routine: PXRMPCIN

VA-PROGRESS NOTE
Print Name: VA-Progress Note
Class: NATIONAL
Sponsor:
Review Date:

Description:
This computed finding will return multiple instances of a progress note based on the exact title of the TIU DOCUMENT DEFINTION or the internal entry number (IEN) of the TIU DOCUMENT DEFINTION. If the IEN is used, it should be preceded by the "`" character. The note title or IEN is specified in the COMPUTED FINDING PARAMETER field. If you want to search for notes with a certain status, then append "^status" to the title. Status can be any of the following:

1 = UNDICTATED
2 = UNTRANSCRIBED
3 = UNRELEASED
4 = UNVERIFIED
5 = UNSIGNED
6 = UNCOSIGNED
7 = COMPLETED
8 = AMENDED
9 = PURGED
10 = TEST
11 = ACTIVE
13 = INACTIVE
14 = DELETED
15 = RETRACTED

If status is not specified, then the default is to search for notes with a status of COMPLETED.

For example, if the COMPUTED FINDING PARAMETER field contains:
ADMITTING HISTORY & PHYSICAL^5, the search would be for notes with the exact title of "ADMITTING HISTORY & PHYSICAL" and a status of "UNSIGNED."

If the IEN were used then the COMPUTED FINDING PARAMETER filed would be: `1091^5

Note: The specified TIU DOCUMENT DEFINITION must have a TYPE of "DOC"; if it does not, the computed finding will always be false.

The values returned by this computed finding that can be used in the Condition are V=note title, V("TITLE")=note title and V("AUTH")=author of note.

Additional data for use in the Condition can be obtained by appending "^1" after the status; for example:
ADMITTING HISTORY & PHYSICAL^5^1
ADMITTING HISTORY & PHYSICAL^^1

(In the second example, since the status is blank, it would default to notes with a status of COMPLETED.)

The additional data is:

V("DISPLAY NAME")=Display name of TIU title.

V("EPISODE BEGIN DATE/TIME")=String_":"_EPISODE BEGIN DATE/TIME where String is "Adm" for ward locations and "Visit" for all other location types. Date/time is in MM/DD/YY format.

V("EPISODE END DATE/TIME")=String_" "_EPISODE END DATE/TIME where string is null if no date/time or "Dis: " if date/time exists. Date/time is in MM/DD/YY format

V("HOSPITAL LOCATION")=External format of HOSPITAL LOCATION from TIU DOCUMENT file

V("NUMBER OF IMAGES")=Number of images associated with TIU DOCUMENT entry

V("REQUESTING PACKAGE")=REQUESTING PACKAGE REFERENCE field from TIU DOCUMENT file (internal format)

V("SUBJECT")=SUBJECT (OPTIONAL description) field from TIU DOCUMENT file (note that characters are limited to ensure returned string is not longer than 255 characters).

Entry Point: NOTE Routine: PXRMTIU

VA-PROJECT ARCH ELIGIBILITY
Print Name: VA-ARCH Eligibility
Class: NATIONAL
Sponsor:
Review Date:

Description:
This multi-occurrence computing finding returns the patient's Project ARCH eligibility status for instances in the ARCH dataset that are in the date range defined by Beginning Date/Time and Ending Date/Time.

:
Entry Point: ELIG Routine: PXRMARCH

VA-PROJECT ARCH ELIGIBILITY LIST
Print Name: VA-Project ARCH Patient List
Class: NATIONAL
Sponsor:
Review Date:

Description:
This list computed finding returns a list of all patients who were Project ARCH eligible in the date range defined by Beginning Date/Time and Ending Date/Time.

:
Entry Point: LIST Routine: PXRMARCH

VA-PTF HOSPITAL DISCHARGE DATE
Print Name: VA-PTF Hospital Discharge Date
Class: NATIONAL
Sponsor:
Review Date:

Description:
This multi-occurrence computed finding returns a list of hospital discharge dates from the Patient Treatment File. The default is to not include fee basis or census entries. The computed finding parameter can be used to include them. The format is IN:FEE to include fee bases and IN:CEN to include census. If you want to include both, the format is IN:FEE,CEN.

Entry Point: HDISCH Routine: PXRMPDEM

VA-PURPLE HEART
Print Name: VA-Purple Heart
Class: NATIONAL
Sponsor:

Review Date:

Description:
This computed finding will be true if the patient is a Purple Heart recipient.

There is no value for use in a Condition.

:

Entry Point: PHEART Routine: PXRMMSER

This computed finding will be true if the patient is a Purple Heart recipient.

There is no value for use in a Condition.

VA-RACE 2003
Print Name: VA-Patient's Race, 2003 and On.
Class: NATIONAL
Sponsor:

Review Date:

Description:
This multiple occurrence computed finding returns entries from the Race Information multiple of the Patient file. Patch DG*5.3*415, compliance date
January 31, 2003, made the Race field obsolete and replaced it with the Race Information multiple. The possible values are limited to the nationally approved/supported races, which are:

Nationally Approved/Supported Races
---
* AMERICAN INDIAN OR ALASKA NATIVE
* ASIAN
* BLACK OR AFRICAN AMERICAN
* NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER
* WHITE
* DECLINED TO ANSWER

:

Entry Point: NEWRACE Routine: PXRMPDEM

VA-RACE PRE 2003
Print Name: VA-Patient's pre-2003 Race
Class: NATIONAL
Sponsor:
Review Date:

Description:
This single occurrence computed finding returns a patient's Race value from the Patient file. Patch DG*5.3*415, compliance date January 31, 2003, made the Race field obsolete and replaced it with the Race Information multiple.
The possible values are those in the RACE file (#10). If there is an entry, the computed finding will be true; otherwise it will be false.

:

Entry Point: RACE Routine: PXRMPDEM

VA-RANDOM NUMBER

Print Name: VA-Random number
Class: NATIONAL
Sponsor:
Review Date:

Description:
This computed finding uses the MUMPS $RANDOM function to return pseudo random numbers as the value. The Occurrence Count is the number of random numbers that will be returned and the Computed Finding Parameter is used to specify the range and optionally the number of decimal digits; the default is to generate integers, i.e., no decimal digits. The Occurrence Count entry on the finding will be an absolute value. Entering an Occurrence Count of 5 or -5 will result in 5 returns.

The format of the Computed Finding Parameter is: LB^UB^NDD, where LB is the inclusive lower bound, UB is the inclusive upper bound, and NDD is the optional number of decimal digits. LB and UB must be integers and UB must be greater than LB. If these conditions are not met then the computed finding will be false.

Some examples:
0^500 - integers in the range 0 to 500
0^1^1 - numbers in the range 0 to 1 with one decimal place
-1^1^2 - numbers in the range -1 to 1 with two decimal places

*****Please note:** This CF was developed for research program consideration/use. No clinical uses have been identified at present. Every evaluation of this finding on a given patient will yield different results, thus the name RANDOM. Please use caution when using this Computed Finding in a clinical setting.*******

Entry Point: RANDOM Routine: PXRMMATH

VA-REMINDER DEFINITION

Print Name: VA-Reminder Definition Computed Finding

Class: NATIONAL

Sponsor:

Review Date:

Description:

This computed finding will evaluate the reminder definition that is specified by name in the COMPUTED FINDING PARAMETER field. The name that is used is the NAME field (.01) of the reminder definition, not the PRINT NAME, additionally the definition must be active. The computed finding will be false if the reminder evaluation status is CNBD or ERROR, in all other cases it will be true.

The default date of the finding is the evaluation date; this can be overridden by appending "^DATE=DUE DATE" or "^DATE=LAST DONE" to the reminder name. If a last done date cannot be determined then the date of the finding will be the evaluation date.

Examples:

VA-IHD LIPID PROFILE
VA-IHD LIPID PROFILE^DATE=LAST DONE
VA-IHD LIPID PROFILE^DATE=DUE DATE

The VALUE array, which can be used in a Condition, will contain the evaluation status, due date, and last done date. The date values are in VA FileMan format. The variable V is the reminder evaluation status. Possible values for the reminder evaluation status are:

DONE
DUE NOW
DUE SOON
RESOLVED
NEVER
N/A

Example of the Value array:

VALUE("STATUS")="DUE NOW"
VALUE("DUEDATE")=3051010.1220
VALUE("LASTDONE")=3051010.1220

Condition examples:

I V="DUE NOW"
I V("STATUS")="DUE NOW"
I V("DUEDATE")>3051010.1220
I V("LASTDONE")=3051010.1220

WARNING This computed finding can be used to evaluate a reminder inside of a reminder evaluation - do not have this computed finding evaluate the same reminder as the one being evaluated.

:

Edit Date: APR 18,2011 14:22 Edit By: CRPROGRAMMER, ONE
Edit Comments: Exchange Install

Entry Point: RDEF Routine: PXRMCDEF

VA-SERVICE BRANCH
Print Name: VA-Service Branch
Class: NATIONAL
Sponsor:
Review Date:

Description:
This multiple occurrence computed finding will return service branch information for one or more service periods in the date range.

CSUB data that can be used in a Condition are:
"BRANCH"
"DISCHARGE TYPE"
"ENTRY DATE"
"SEPARATION DATE"
"SERVICE COMPONENT"

The default value is “SEPARATION DATE".

:

Entry Point: SBRANCH Routine: PXRMMSER

VA-SERVICE SEPARATION DATES
Print Name: VA-Service Separation Date(s)
Class: NATIONAL
Sponsor: Office of Quality & Performance
Review Date:

Description:
This multiple occurrence computed finding returns service separation information. The date of the finding is the separation date.

CSUB data that can be used in a Condition are:
"BRANCH"
"DISCHARGE TYPE"
"ENTRY DATE"
"SEPARATION DATE"
“SERVICE COMPONENT”

The default value is "SEPARATION DATE".

Entry Point: DISCHDT Routine: PXRMMSER

VA-SEX
Print Name: VA-Patient Sex

Class: NATIONAL

Sponsor:

Review Date:

Description:
This is a single occurrence computed finding that returns a patient's sex as either "F" for female or "M" for male.

Edit Date: FEB 15,2005 12:38 Edit By: CRPROGRAMMER, ONE
Edit Comments: Exchange Install

Entry Point: SEX Routine: PXRMPDEM

VA-SMART PATIENT HAS ALERT
```
Print Name:             Smart Alert
Type:                   MULTIPLE
Class:                  NATIONAL
Sponsor:
Review Date:

Description:

  This computed finding will return true if the patient and provider have an
  active SMART Alert in CPRS. To check for an alert, pass the internal entry
  number of the OE/RR Notification (#100.9) entry as the computed finding
  parameter.

  Return Values DATA("XQAID")=Alert XQAID string DATA("SOURCE")=The internal
  data source from the alert file.

Entry Point: ALERT      Routine:    PXRMCALT
```

VA-SMART PROCESSING ALERT DATA
```
Print Name:             Active SMART Alert
Type:                   MULTIPLE
Class:                  NATIONAL
Sponsor:
Review Date:

Description:
```

```
  THIS COMPUTED FINDING ONLY HAS VALUE IN A REMINDER DIALOG BRANCHING LOGIC.
  This computed finding is used to check if the SMART alert that is opening
  the Reminder Dialog is a specific SMART alert entry.

  Input parameters: alert id(s)

  A list of alert id to determine if the current alert id is one of them.
  Multiple alerts should be delimited by a semi-colon ";".

  This computed finding does not honor the following fields:
       Beginning Date
       Ending Date
       Occurence Count

  Return Data: The return data will vary based off the SMART alert. All alert
  will have an DATA("ACTIVE ALERT ID")=The active alert id.

Edit History:

Entry Point: ACTALRTD   Routine:    PXRMCALT

VA-SMART PROCESSING ALERT ID
Print Name:             Active SMART Alert ID
Type:                   MULTIPLE
Class:                  NATIONAL
Sponsor:
Review Date:

Description:

  THIS COMPUTED FINDING ONLY HAS VALUE IN A REMINDER DIALOG THAT CONTAINS
  GENERAL FINDINGS AND HAS BRANCHING LOGIC.

  This computed finding is used to determine which SMART Alert the user is
  processing so the Reminder Dialog can tell CPRS to clear the alert when it
  is appropriate based off the dialog setup.

  Input parameters: None

  Return Data
DATA("ACTIVE ALERT ID")=The active alert id
DATA("ACTIVE ALERT DATA")=This is the data id that trigger the alert.
DATA("DAS")=The active alert id used by Reminder General Findings.


DATA(NOTIFICATION NUMBER)="The alert IEN from file 100.9
DATA("DIALOG")=1

DATA("PACKAGE")="ORDER ENTRY/RESULTS REPORTING"
DATA("PACKAGE PREFIX")="OR"


  The DIALOG subscript is used to let the Reminder Dialog Branching Logic
```

```
  build the dialog element/group display text from the TEXT node from the
  computed finding output. This subscript is also used by branching logic to
  map the results to a Reminder General Finding entry.

  The PACKAGE and PACKAGE PREFIX subscripts are both used in the Reminder
  Dialog Branching Logic processes when mapping the computed finding results
  to Reminder General Finding entries.

Edit History:

Entry Point: ACTALERT   Routine:    PXRMCALT
```

VA-TREATING FACILITY LIST
Print Name: VA-Treating Facility List
Class: NATIONAL
Sponsor:
Review Date:

Description:
This multi-occurrence computed finding returns a list of treating facilities i.e., systems that store data related to a patient. The value for each entry is:
STATION NUMBER^NAME^DATE LAST TREATED^ADT/HL7 EVENT REASON^FACILITY TYPE

STATION NUMBER, NAME, and FACILITY TYPE are from the Institution file.
FACILITY TYPE is one of the entries found in the FACILITY TYPE file.
ADT/HL7 EVENT REASON is a code from the ADT/HL7 EVENT REASON file. If there is no ADT/HL7 EVENT REASON then DATE LAST TREATED will also be null.

Some examples of values that are returned:
"516^BAY PINES VAMC^^^VAMC"
"537^JESSE BROWN VAMC^3041122.110926^3^VAMC"
"552^DAYTON^3001113.092056^3^VAMC"
"556^NORTH CHICAGO VAMC^3050406.13^3^VAMC"
"578^HINES, IL VAMC^3020919.2324^3^VAMC"
"589VA HEARTLAND - WEST, VISN 15^^^VAMC"
"636VA NWIHS, OMAHA DIVISION^^^VAMC"
"673^TAMPA VAMC^3001215.1327^3^VAMC"
"695^MILWAUKEE VAMC^3030328.13^3^VAMC"

A CONDITION can be written that uses any of the pieces of the value. For example, a CONDITION to check that the FACILITY TYPE is VAMC would be: I $P(V,U,5)="VAMC"

Since no date can be associated with an entry, the date of evaluation will be used.

Edit Date: MAR 10,2006 15:00 Edit By: CRPROGRAMMER, ONE
Edit Comments:

Entry Point: TFL Routine: PXRMRDI

VA-UNKNOWN OEF/OIF SERVICE
Print Name: VA-Unknown OEF/OIF Service
Class: NATIONAL
Sponsor:
Review Date:

Description:
This multi-occurrence computed finding will search for periods of OEF/OIF service with an unknown location in the date range specified by Beginning Date/Time and Ending Date/Time.

Subscripts that can be used in a Condition are:
"LOCATION"

The default value is "LOCATION".

Entry Point: UNKOEIF Routine: PXRMMSER

This multi-occurrence computed finding will search for periods of OEF/OIF service with an unknown location in the date range specified by Beginning Date/Time and Ending Date/Time.

Subscripts that can be used in a Condition are:
"LOCATION"

The default value is "LOCATION".

VA-VETERAN
Print Name: VA-Patient is a Veteran
Class: NATIONAL
Sponsor:
Review Date:

Description:
This single occurrence computed finding is true if the patient is a Veteran and false otherwise.

There are no values that can be used in a Condition.

Edit Date: APR 18,2011 14:18 Edit By: CRPROGRAMMER, ONE
Edit Comments: Exchange Install

Entry Point: VETERAN Routine: PXRMMSER

This single occurrence computed finding is true if the patient is a Veteran and false otherwise.

There are no values that can be used in a Condition.

VA-VIETNAM SERVICE
Print Name: VA-Vietnam Service
Class: NATIONAL
Sponsor:
Review Date:

Description:
This computed finding will be true if Vietnam service in the time frame specified by Beginning Date/Time and Ending Date/Time is found.

There are no subscripts that can be used in a Condition.

Entry Point: VIET Routine: PXRMMSER

VA-WAS INPATIENT
Print Name: VA-Was Inpatient
Class: NATIONAL
Sponsor:
Review Date:

Description:
This multi-occurrence computed finding will search the Patient Movement File for a list of patient admissions and associated discharges. If the date range defined by the admission date and discharge date overlaps the date range defined by the Beginning Date/Time and Ending Date/Time, the admission discharge pair will be kept on the list. If the patient's last admission does not have an associated discharge, then the evaluation date will be used in place of the discharge date in the overlap calculation.

The date of the finding will be the admission date, unless the Computed Finding Parameter is set to "DISCH," in which case the discharge date will be used. If you want to use discharge date as the finding date, in the computed finding parameter field, type the following: COMPUTED FINDING PARAMETER:DISCH

The "CSUB" values returned by this computed finding are:
"ADMISSION DATE"
"ADMISSION WARD"
"DISCHARGE DATE"
"DISCHARGE WARD"
"LENGTH OF STAY"

Entry Point: WASINP Routine: PXRMPDEM

VA-WH BREAST PROCEDURES
Print Name: Most Recent Breast Procedure
Type: MULTIPLE
Class: NATIONAL
Sponsor:
Review Date:

Description:

This computed findings search the Women's Health Procedure file for procedures related to a breast image treatment between the beginning and ending date. This computed finding will only return one entry and it is always the most recent based off the search date range.

```
  Input parameters: None

  Return Values
DATA("ACCESSION")=Women's Health Procedure file accession
  number
DATA("STATUS")=Women's Health Procedure file status OPEN or CLOSED
DATA("DIAGNOSIS")=Women's Health Procedure file primary result/diagnosis
  field.
DATA("PROVIDER")=Women's Health Procedure file provider entry.
DATA("DAS")=The Women's Health Procedure file IEN.

DATA("DIALOG")=1
DATA("PACKAGE")="WOMEN'S HEALTH"
DATA("PACKAGE PREFIX")="WV"

  The DIALOG subscript is used to let the Reminder Dialog Branching Logic
  build the dialog element/group display text from the TEXT node from the
  computed finding output. This subscript is also used by branching logic to
  map the results to a Reminder General Finding entry.

  The PACKAGE and PACKAGE PREFIX subscripts are both used in the Reminder
  Dialog Branching Logic process when mapping the computed finding results to
  Reminder General Finding entries.

Entry Point: GETBRTST   Routine:    PXRMCWH
```

VA-WH BREAST TREATMENT OVERDUE LIST

```
Print Name:             Overdue breast treatment list
Type:                   LIST
Class:                  NATIONAL
Sponsor:                Women Veterans Health Program
Review Date:

Description:

  This list computed finding return a list of patient overdue for the breast
  treatment found between the beginning and end date.

Entry Point: BROVRDUE   Routine:    PXRMCWH
```

VA-WH MAMMOGRAM ABNORMAL IN WH PKG

Print Name: VA-WH Mammogram Abnormal in WH pkg
Class: NATIONAL
Sponsor: Women Veterans Health Program
Review Date:

Description:
This computed finding calls an API to the WH package that returns up to n number for a specific date range of Mammogram procedures found in the WH package that have an abnormal diagnosis.

The result from the computed finding will be returned in the Data Array; the format of the array is:
DATA(n,"LINK")= DATA(n,"STATUS")= DATA(n,"VALUE")= DATA(n,"WVIEN")=

The data assigned to the Link subscript is a boolean value. If the value is a 1, then the Mammogram procedure was entered through the Radiology package.

The data assigned to the Status subscript is used to determine if the procedure is Open, Closed, or Pending. Pending means that the Mammogram procedure in the Women's Health package needs to have a result entered. Open means that the Mammogram procedure has been resulted but the provider has not closed the case. Closed means that a result has been entered for the procedure and it has been closed.

The data assigned to the Value subscript is used to determine the diagnosis of the Mammogram procedure. The diagnosis in the Women's Health package can either be Normal, Abnormal, or Unsatisfactory. For this computed finding, the Value should always be Abnormal

The data assigned to the WVIEN subscript is the Women's Health procedure IEN.

The text display in the Clinical Maintenance will be found in the Text array.

Entry Point: MAMA Routine: PXRMCWH

VA-WH MAMMOGRAM IN WH PKG
Print Name: VA-Mammogram in WH pkg
Class: NATIONAL
Sponsor:
Review Date:

Description:
This computed finding calls an API to the WH package that returns up to n number for a specific date range of Mammogram procedures found in the WH package.

The results from the computed finding will be returned in the Data Array; the format of the array is:
DATA(n,"LINK")= DATA(n,"STATUS")= DATA(n,"VALUE")= DATA(n,"WVIEN")=

The data assigned to the Link subscript is a boolean value. If the value is a 1, then the Mammogram procedure was entered through the Radiology package.

The data assigned to the Status subscript is used to determine if the procedure is Open, Closed, or Pending. Pending means that the Mammogram procedure in the Women's Health package needs to have a result entered. Open means that the Mammogram procedure has been resulted but the provider has not closed the case. Closed means that a result has been entered for the procedure and it has been closed.

The data assigned to the Value subscript is used to determine the diagnosis of the Mammogram procedure. The diagnosis in the Women's Health package can be either Normal, Abnormal, or Unsatisfactory.

The data assigned to the WVIEN subscript is the Women's Health procedure IEN.

The text display in the Clinical Maintenance will be found in the Text array.

Entry Point: MAM Routine: PXRMCWH

VA-WH NEXT PROCEDURE

```
Print Name:             Women's Health Next Procedure
Type:                   MULTIPLE
Class:                  NATIONAL
Sponsor:                Women Veterans Health Program
Review Date:

Description:

  This computed finding returns the Next Procedure Name and the Next
  Procedure Date from the Women's Health Patient File. This computed finding
  will either return information related to the Breast or the Cervical
  treatments based off the Computed Finding Parameter.

  Computed Finding Parameter BR: Breast Procedure CX: Cervical Procedure

  Return Value DATA("Procedure")=the name of the appropriate next treatment
  need field

Edit History:

Entry Point: NEXTPROC   Routine:    PXRMCWH
```

VA-WH OPEN PROCEDURE COUNT

```
Print Name:             Number of open procedures
Type:                   MULTIPLE
Class:                  NATIONAL
Sponsor:                Women Veterans Health Program
Review Date:

Description:

  This computed finding searches an active Cascade type to find
   any open Women's Health Procedures in the active cascade. This computed
  findings returns the total count of open procedures and the highest BI-BAD
  result from the Women's Health Procedures. If one of the open procedures
  does not have a BI-RAD code then no diagnosis are returned.

  Computed Finding Parameter NAME = Cascade name to search for – BREAST CARE
is the only available name at this time.

  Return Data
DATA("DAS")=Internal entry from the WV Procedure File
DATA("Number of Test Open")=The total number of Procedure from the Women's
  Health Procedure file still in an open state.
DATA("DIAGNOSIS")=The diagnosis value from the WV Procedure File
```

```
DATA("DIALOG")=1
DATA("PACKAGE")="WOMEN'S HEALTH"
DATA("PACKAGE PREFIX")="WV"


  The DIALOG subscript is used to let the Reminder Dialog Branching Logic
  build the dialog element/group display text from the TEXT node from the
  computed finding output. This subscript is also used by branching logic to
  map the results to a Reminder General Finding entry.

  The PACKAGE and PACKAGE PREFIX subscripts are both used in the Reminder
  Dialog Branching Logic processes when mapping the computed finding results
  to a Reminder General Finding entry.

Entry Point: OPENPROC   Routine:    PXRMCWH
```

VA-WH PAP SMEAR ABNORMAL IN WH PKG

Print Name: VA-WH Pap Smear Abnormal in WH pkg
Class: NATIONAL
Sponsor: Women Veterans Health Program
Review Date:

Description:
This computed finding calls an API to the WH package that returns up to n number for a specific date range of Pap smear procedures found in the WH package that have an abnormal diagnosis.
The results from the computed finding will be returned in the Data Array; the format of the array is:
DATA(n,"LINK")= DATA(n,"STATUS")= DATA(n,"VALUE")= DATA(n,"WVIEN")=

The data assigned to the Link subscript is a boolean value. If the value is a 1, then the Pap smear procedure was entered through the Radiology package.

The data assigned to the Status subscript is used to determine if the procedure is Open, Closed, or Pending. Pending means that the Pap smear procedure in the Women's Health package needs to have a result entered.
Open means that the Pap Smear procedure has been resulted but the provider has not closed the case. Closed means that a result has been entered for the procedure and it has been closed.

The data assigned to the Value subscript is used to determine the diagnosis of the Pap smear procedure. The diagnosis in the Women's Health package can either be Normal, Abnormal, or Unsatisfactory. For this computed finding, the Value should always be Abnormal

The data assigned to the WVIEN subscript is the Women's Health procedure IEN.

The text display in the Clinical Maintenance will be found in the Text array.

Entry Point: PAPA Routine: PXRMCWH

VA-WH PAP SMEAR IN LAB PKG
Print Name: VA-Lab Pap Smear SNOMED
Class: NATIONAL
Sponsor:
Review Date:

Description:
This computed finding pulls a list of Topography and Morphology codes that are mapped to the Pap smear entry in the Women Health package. The Pap Smear entry is defined in file #790.2 the WV Procedure Type file.

This computed finding requires that both the topography and morphology codes are mapped to the Pap smear procedure. The morphology codes must also have a result assigned to them.

This computed search will return up to n number of entries found in the Lab package for a specific data range of procedures that match the topography and morphology codes.

The output of the computed finding will be returned in the Data array. The format of the data array is:

DATA(n,"TOPH")= DATA(n,"VALUE")= DATA(n,"MORP")= DATA(n,"RESULT STATUS")=

The data found in the TOPH subscript is the Topography code in the following format: T-SNOMED CODE

The data found in the VALUE subscript is the Topography code in the following format: T-SNOMED CODE SNOMED CODE DESCRIPTION

The data found in the MOPH subscript is the Morphology code in the following format: M-SNOMED CODE

The data found in the RESULT STATUS subscript is the result that has been mapped to the Morphology code in the Women's Health package. The result will either be NEM, Abnormal, Unsatisfactory, or Unknown.

The text display in the Clinical Maintenance will be found in the Text array.

Entry Point: PAPSCR Routine: PXRMCWH

VA-WH PAP SMEAR IN WH PKG
Print Name: VA-Pap Smear in WH pkg
Class: NATIONAL
Sponsor:
Review Date:

Description:
This computed finding calls an API to the WH package that returns up to n number for a specific date range of Pap smear procedures found in the WH package.

The result from the computed finding will be returned in the Data Array; the format of the array is:
DATA(n,"LINK")= DATA(n,"STATUS")= DATA(n,"VALUE")= DATA(n,"WVIEN")=

The data assigned to the Link subscript is a Boolean value. If the value is a 1, then the Pap smear procedure was entered through the Radiology package.

The data assigned to the Status subscript is used to determine if the procedure is Open, Closed, or Pending. Pending means that the Pap smear procedure in the Women's Health package needs to have a result entered.
Open means that the Pap smear procedure has been resulted but the provider has not closed the case. Closed means that a result has been entered for the procedure and it has been closed. The data assigned to the Value subscript is used to determine diagnosis of the Pap smear procedure. The diagnosis in the Women's Health package can either be Normal, Abnormal, or Unsatisfactory.

The data assigned to the WVIEN subscript is the Women's Health procedure IEN.

The text display in the Clinical Maintenance will be found in the Text array.

Edit Date: FEB 15,2005 12:31 Edit By: CRPROGRAMMER, ONE
Edit Comments: Exchange Install

Entry Point: PAP Routine: PXRMCWH

VA-WH PATIENT DOCUMENTATION

```
Print Name:             Women's Health Patient Documentation
Type:                   MULTIPLE
Class:                  NATIONAL
Sponsor:                Women Veterans Health Program
Review Date:

Description:

  This computed finding returns up to N number (within a specific date range)
  of pregnancy or lactation statuses found in the Women's Health software
  package.

  To retrieve pregnancy statuses, set the first caret piece of the COMPUTED
  FINDING PARAMETER value to PREGNANCIES.

  To retrieve lactation statuses, set the first caret piece of the COMPUTED
  FINDING PARAMETER value to LACTATIONS.

  The second caret piece of the COMPUTED FINDING PARAMETER value is used to
  identify this finding's return data for use in the VA-WH UPDATE PREGNANCY
  STATUS and VA-WH UPDATE LACTATION STATUS reminder dialogs. Setting this
  piece to DATA will identify it.

  The third caret piece of the COMPUTED FINDING PARAMETER value is used to
  calculate the grace period during which a patient is considered pregnant.
  The grace period begins on the expected delivery date and ends on the date
  calculated from this piece. The format of this piece is NX where N is a
  whole number greater than zero and X is a letter representing an interval
```

of time (Y for year, M for month, W for week, D for day and H for hour). If this piece is blank, four weeks ("4W") will be used to calculate the grace period. This piece is only applicable when the first caret piece is set to PREGNANCIES.

For example,

```
  COMPUTED FINDING PARAMETER: PREGNANCIES^DATA^3W
```

This finding will always return true, even when no documentation is on file. Refer to the DOCUMENTATION STATUS CSUB subscript to determine whether documentation is on file.

The CONDITION field may make use of the following CSUB subscripts when the first caret piece of the COMPUTED FINDING PARAMETER is set to PREGNANCIES:

```
  V(N,"MEDICALLY UNABLE TO CONCEIVE")=
  V(N,"MEDICAL REASON")=
  V(N,"TRYING TO BECOME PREGNANT")=
  V(N,"PREGNANCY STATE")=
  V(N,"PREGNANCY DAS")=
  V(N,"PREGNANCY DATA SOURCE")=
  V(N,"CONTRACEPTIVE METHOD USED",X)=
  V(N,"PREGNANCY LIKELIHOOD")=
  V(N,"LAST MENSTRUAL PERIOD DATE")=
  V(N,"EDD")=
  V(N,"EDD-GRACE")=
  V(N,"PREGNANCY END DATE")=
  V(N,"REASON PREGNANCY ENDED")=
  V(N,"OVERRIDE CALCULATED EDD REASON")=
```

The CONDITION field may make use of the following CSUB subscripts when the first caret piece of the COMPUTED FINDING PARAMETER is set to LACTATIONS:

```
  V(N,"LACTATION STATE")=
  V(N,"LACTATION DAS")=
  V(N,"LACTATION DATA SOURCE")=
  V(N,"END DATE")=
```

The CONDITION field may make use of the following CSUB subscripts when the first caret piece of the COMPUTED FINDING PARAMETER is set to PREGNANCIES or LACTATIONS:

```
  V(N,"DATE/TIME")=
  V(N,"DOCUMENTATION STATUS")=
  V(N,"VISIT")=
```

The CONDITION field may make use of the following CSUB subscripts when the second caret piece of the COMPUTED FINDING PARAMETER is set to DATA and the first caret piece is set to PREGNANCIES or LACTATIONS:

```
  V(N,"DIALOG")=
  V(N,"PACKAGE")=
  V(N,"PACKAGE PREFIX")=
```

When retrieving pregnancy statuses, the value assigned to the PREGNANCY STATE subscript is used to determine if the patient is pregnant and is one of PREGNANT, NOT PREGNANT or DO NOT KNOW. When retrieving lactation statuses, the value assigned to the LACTATION STATE subscript is used to determine if the patient is lactating and is one of LACTATING or NOT LACTATING.

The value assigned to the MEDICALLY UNABLE TO CONCEIVE subscript is used to determine if a patient is medically able to conceive and is one of YES or NO. Keep in mind that the values of this subscript are opposite of what you may think: a value of NO means the patient is medically able to conceive.

The value assigned to the MEDICAL REASON subscript is the text entered by the provider for why the patient is medically unable to conceive.

The value assigned to the TRYING TO BECOME PREGNANT field is used to determine if a patient is consciously trying to become pregnant and is one of YES or NO.

The data assigned to the CONTRACEPTIVE METHOD USED subscript is the method(s) the patient is using to avoid pregnancy. This subscript contains a numbered list that starts at one and increments by one. For example:

```
V(N,"CONTRACEPTIVE METHOD USED",1)="MALE CONDOM"
V(N,"CONTRACEPTIVE METHOD USED",2)="PILL, VAGINAL RING OR PATCH"
```

The value assigned to the PREGNANCY LIKELIHOOD subscript is the likelihood of the patient becoming pregnant while using the contraceptives returned in the CONTRACEPTIVE METHOD USED subscript. This subscript has a value of HIGH, LOW or UNKNOWN.

The value assigned to the LAST MENSTRUAL PERIOD DATE subscript is the start date of the patient's last menstrual period.

The value assigned to the EDD subscript is the expected due date.

The value assigned to the EDD-GRACE subscript is the end date of the EDD grace period. When a patient's EDD is in the past and there is no updated documentation on file, there is a grace period after which the system will no longer consider the patient pregnant even though the documentation is not updated.

The value assigned to the OVERRIDE CALCULATED EDD REASON subscript is the text entered by the provider in the VA-WH UDPATE PREGNANCY STATUS reminder dialog for why the expected due date was changed from the calculated value.

The value assigned to the PREGNANCY END DATE subscript is the date the patient's pregnancy ended.

The value assigned to the REASON PREGNANCY ENDED subscript is the text entered by the provider in the VA-WH UPDATE PREGNANCY STATUS reminder dialog for why the pregnancy ended.

The value assigned to the END DATE subscript is the date the patient stopped lactating.

The value assigned to the PREGNANCY DAS and the LACTATION DAS subscripts is the Internal Entry Number String (IENS) value identifying the record in the Women's Health software package from which this status data came.

The value assigned to the PREGNANCY DATA SOURCE and the LACTATION DATA SOURCE subscripts is the entry in the PACKAGE file of the software package that collected the status data from the end user.

The value assigned to the DATE/TIME subscript is the date and time the

status was entered. Note that the DATE subscript does not contain the time.

The value assigned to the DOCUMENTATION STATUS subscript is the completeness of the documentation. This subscript has a value of COMPLETE, INCOMPLETE or NO DOCUMENTATION.

The value assigned to the VISIT subscript is the Text Integration Utilities (TIU) visit string value representing the entry in the VISIT file associated with this status.

The value assigned to the DIALOG subscript is 1 and is part of the identifier used to differentiate a specific instance of this finding for use by the VA-WH UDPATE PREGNANCY STAUTS and VA-WH UPDATE LACTATION STATUS reminder dialogs.

The value assigned to the PACKAGE subscript is the name of the software package from which the finding's data comes from; this value is WOMEN'S HEALTH.

The value assigned to the PACKAGE PREFIX subscript is the prefix for the software package from which the finding's data comes from; this value is WV.

Entry Point: DOCSTAT Routine: PXRMCWH1

VA-WH PATIENT IS PREGNANT/LACTATING

Print Name: Women's Health Check If Patient is Pregnant or Lactating
Type: MULTIPLE
Class: NATIONAL
Sponsor: Women Veterans Health Program
Review Date:

Description:

This computed finding will check if a patient is documented as pregnant or lactating. It will return true if a patient is pregnant/lactating on a specific date or was pregnant/lactating on at least one day within a date range. It will return false if the patient was not pregnant/lactating or the status was unknown on a specific date or for all days within a date range. If no date is specified, the value of TODAY is used. You may specify a specific date in either the Beginning Date/Time or Ending Date/Time parameters.

Caution: This computed finding groups the statuses NOT PREGNANT and DO NOT KNOW into a single NOT PREGNANT OR UNKNOWN status. If you need a precise pregnancy status for a patient, use the VA-WH PATIENT DOCUMENTATION reminder computed finding.

To check if the patient is pregnant, set the first caret piece of the COMPUTED FINDING PARAMETER value to PREGNANT.

To check if the patient is lactating, set the first caret piece of the COMPUTED FINDING PARAMETER value to LACTATING.

The second caret piece of the COMPUTED FINDING PARAMETER value determines

how the end date of a pregnancy is calculated when no end date is specified. Setting this piece to DIALOG will set the end date to tomorrow's date. Leaving this piece empty will set the end date to the date the NOT PREGNANT status was entered.

The CONDITION field may make use of the "STATUS" CSUB subscript. This subscript contains a textual representation of the patient's status. When the first caret piece of the COMPUTED FINDING PARAMETER value is PREGNANT, possible values are "PREGNANT" and "NOT PREGNANT OR UNKNOWN". When the first caret piece of the COMPUTED FINDING PARAMETER value is LACTATING, possible values are "LACTATING" and "NOT LACTATING OR UNKNOWN". For example:

```
I V(1,"STATUS")="PREGNANT"
```

Entry Point: PATIS Routine: PXRMCWH1

VA-WH PROCEDURES WITH NO NOTIFICATION

Print Name: Procedures with no notification
Type: MULTIPLE
Class: NATIONAL
Sponsor: Women Veterans Health Program
Review Date:

Description:

This computed finding searches an active Cascade type to find any Women's Health Procedures between the beginning and ending dates that do not have a notification type on file or still have an open notification entry on file.

Computed Finding Parameter NAME = Cascade type to search for – BREAST CARE is the only available name at this time.

Return Values

DATA("DAS")=The internal entry number (IEN) from file 790.1.
Multiple IEN are delimited by a colon ":".
DATA("DIALOG")=1
DATA("PACKAGE")="WOMEN'S HEALTH"
DATA("PACKAGE PREFIX")="WV"

The DIALOG subscript is used to let the Reminder Dialog Branching Logic build the dialog element/group display text from the TEXT node from the computed finding output. This subscript is also used by branching logic to map the results to a Reminder General Finding entry.

The PACKAGE and PACKAGE PREFIX subscripts are both used in the Reminder Dialog Branching Logic processes when mapping the computed finding results to a Reminder General Finding entry.

Entry Point: NONOTIFD Routine: PXRMCWH

Reminder Definition Management

This PowerPoint presentation, used for VistaU distance learning, provides a good overview of how reminder definitions work.

Introduction to Reminder Definitions.

This menu contains options for creating, editing, copying, activating, and displaying clinical reminder definitions.

National Reminders, identified by having a CLASS of NATIONAL and a name starting with VA-, cannot be edited. If you cannot use a national reminder "as is" then copy to a new name, at which point it becomes local, and then edit the reminder to meet your requirements.

Sites may change anything in a local reminder definition to meet their needs. Findings at each site may require modification to represent local use of clinical data.

Syn.	Name	Option Name	Description
RA	Activate/Inactivate Reminders	PXRM (IN)/ACTIVATE REMINDERS	This option is used to make reminders active or inactive.
RE	Add/Edit Reminder Definition	PXRM DEFINITION EDIT	This option is used to create or edit Clinical Reminder Definitions. Nationally distributed reminder definitions items all have a "VA-"prefix. VA- for Ambulatory Care EP reminders and VA-* for National Center for Health Promotion reminders.
RC	Copy Reminder Definition	PXRM DEFINITION COPY	This option allows you to copy an existing reminder definition into a new reminder definition in the Clinical Reminder Definition file (#811.9). Once a new name is defined for the new reminder definition, the new reminder definition can be edited to reflect the local reminder definition.
RI	Inquire about Reminder Definition	PXRM DEFINITION INQUIRY	This option allows you to display a clinical reminder definition in an easy to read format.
RL	List Reminder Definitions	PXRM DEFINITION LIST	This option provides a brief summary of selected Clinical Reminder definitions.
RH	Reminder Edit History	PXRM REMINDER EDIT HISTORY	This option allows you to display a reminder definition's edit history. Edit history was formerly displayed as part of the Definition Inquiry, but was removed and made available within this option.
ICS	Integrity Check Selected	PXRM DEF INTEGRITY CHECK ONE	This option lets the user select a reminder definition for integrity checking.
ICA	Integrity Check All	PXRM DEF INTEGRITY CHECK ALL	This option runs the integrity check for all reminder definitions on the system.

Patch 45 (PXRM*2*45) Changes to Reminder Definition

Added a new possible value to the Reminder Definition Usage Field:
A: Action

The A will not allow a reminder to be used on the CPRS coversheet unless the value of C is set also in the usage field.

Patch 24 (PXRM*2*24) High Risk Mental Health Patient - Reminder and Flag: Changes to Reminder Definitions

1. **New Reminder Definitions:**

- VA-MH HIGH RISK NO-SHOW ADHOC RPT

No reminder dialog is associated with this reminder. This new Reminder Definition looks for the first appointment found, given a date and time and looking through the rest of the day. It is resolved if the finding is documented within 1 week. It is used by the SD MH NO SHOW AD HOC REPORT to get Results related to the follow-up reminder for each missed appointment date/time, if results are available.

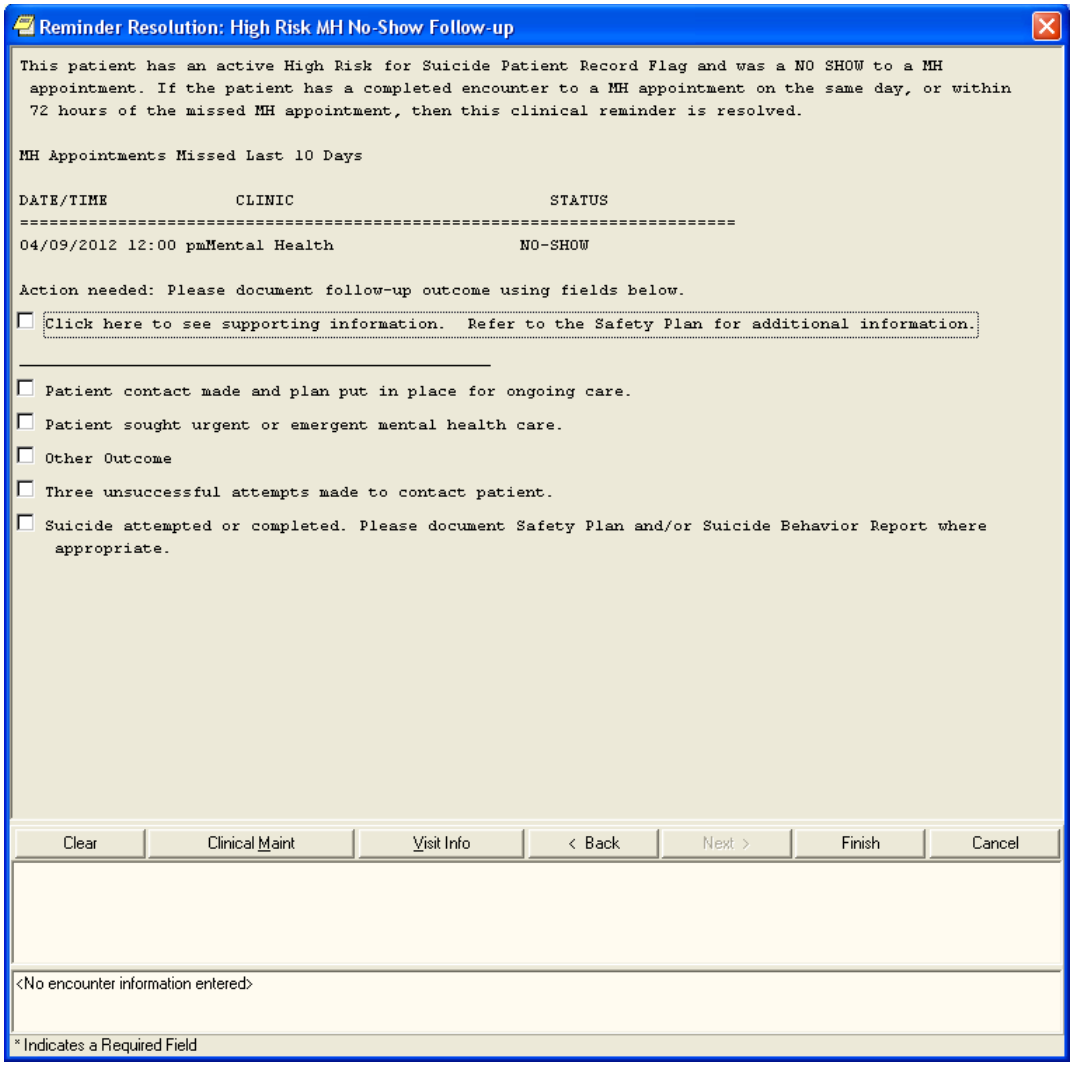
Example of Results section that prints after the Future Scheduled Appointments:

```
Future Scheduled Appointments: NO APPOINTMENTS SCHEDULED WITHIN 30 DAYS
   Results:
   Resolution: Last done 05/14/2012@12:00
    Reminder Term: VA-MH NOSHOW PT EMERGENT CARE
     Health Factor: MH NOSHOW PT EMERGENT CARE
      05/14/2012@12:00

    Reminder Term: VA-MH SUICIDE ATTEMPTED
     Health Factor: MH SUICIDE ATTEMPTED
      05/14/2012@12:00
```

- **VA-MHTC NEEDS ASSIGNMENT**
  - This reminder looks for the most recent three completed appointments to MH clinics over the past year and checks to see if an MHTC is currently assigned to the patient. If no MHTC is assigned, the reminder will be due.
  - The reminder definition uses the new VA-PCMM MHTC computed finding.
  - There is no reminder dialog related to this reminder.
  - This reminder can be used from CPRS to show as due on the CPRS GUI Cover Sheet.
  - This reminder can also be used from Reminder Reporting options/Reminder Due Report. Reminder CACs can create a Reminder Due Report (User) template for an SPC user to get the list of patients who are scheduled for a MH appointment next week and are candidates for MHTC.
  - Uses Reminder Term VA-MH APPTS FOR MHTC ASSIGNMENT, which uses a new Reminder Location List called VA-MHTC APPT STOP CODES LL in the Computed Finding VA-Appointments for a Patient. **The new Reminder Location List is consistent with the national list of MH Encounter Stop Codes defined for sites by the Office of Mental Health Services.**

2. Changed the dialog info text presented to the user to clarify that the reminder is resolved if a completed encounter is found for a MH appointment on the same day, or within 72 hours of the missed MH appointment.



3. Added Category I PRF for HIGH RISK FOR SUICIDE to the Reminder Definition. The reminder now looks for both the Category I and Category II active PRF for High Risk for Suicide.

```
                                    --STATUS-- --DUE DATE--  --LAST DONE--

High Risk MH No-Show Follow-up       DUE NOW     DUE NOW       unknown

Frequency: Due every 99Y - Once for all ages.
Reminder triggered by missed MH appointment and when resolved won't be due
again until another missed MH appointment occurs.

The patient has an active High Risk for Suicide Patient Record Flag and missed a MH
appointment.

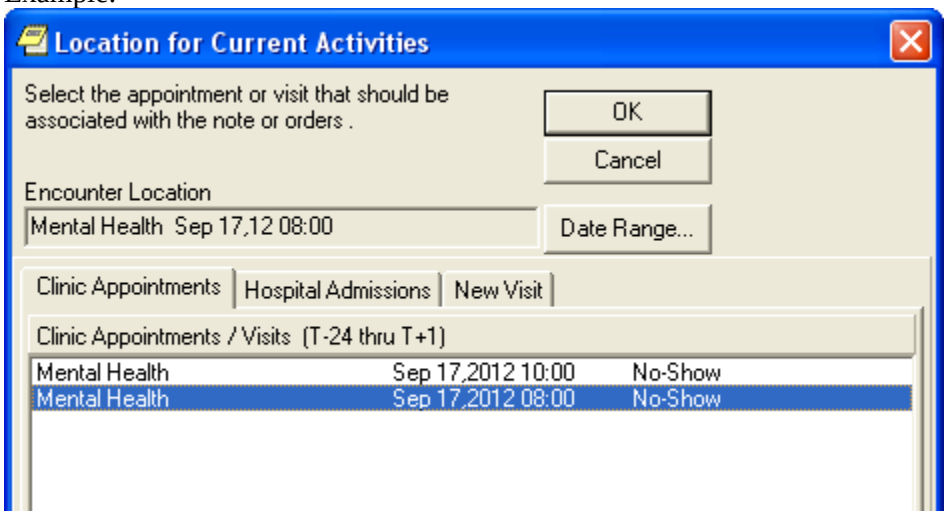
Cohort:
 Reminder Term: VA-MH NOSHOW MISSED MH CLINIC APPTS
  Computed Finding: VA-Appointments for a Patient
   04/09/2012@12:00 value - Mental Health
     CLINIC: Mental Health
     APPOINTMENT STATUS: NO-SHOW

 Reminder Term: VA-MH HIGH RISK FOR SUICIDE PRF
  Computed Finding: VA-Patient Record Flag Information
   01/31/2012@11:08:45 value - NEW ASSIGNMENT;
   Flag - HIGH RISK FOR SUICIDE(I (NATIONAL)).
   Assigned Jan 31, 2012@11:08:45 by REDINGTON,PATRICK. New record flag
   assignment.
   12/21/2010@15:36:02 value - NEW ASSIGNMENT;
   Flag - HIGH RISK FOR SUICIDE(II (LOCAL)).
   Assigned Dec 21, 2010@15:36:02 by TROST,DEBBIE. New record flag assignment.
```

4. Change to VA-MH HIGH RISK NO-SHOW FOLLOW-UP reminder definition:
   - Removed Occurrence Count of 5 from RT.VA-MH NOSHOW MISSED MH CLINIC APPTS Hospital Location and only defined occurrence at the Reminder Definition level. It still looks back 10D and resolves with specific health factors entered from the reminder dialog the same day or a completed MH Appointment within 8 hours before or 72 hours after.
   - Modifies the Reminder Dialog to include the Suicide Behavior Report(SBR) for optional entry.
   - If there are several No-show appointments for a given day, responses to any of the no-show appointments (even the earliest appointment) on that day will resolve all of the no-show follow-ups for that day.

No-show health factors entered at any time on the date of the missed appointment resolve all no-show appointment follow-up on that day.

Example:



Example: Clinical Maintenance output after selecting 8am appointment

```
                                    --STATUS-- --DUE DATE--  --LAST DONE--
High Risk MH No-Show Follow-up         DONE                   09/17/2012
Frequency: Due every 99Y - Once for all ages.
Reminder triggered by missed MH appointment and when resolved won't be due
again until another missed MH appointment occurs.

The patient has an active High Risk for Suicide Patient Record Flag and missed a MH
appointment.

Cohort:
 Reminder Term: VA-MH NOSHOW MISSED MH CLINIC APPTS
  Computed Finding: VA-Appointments for a Patient
   09/17/2012@10:00 value - Mental Health
     APPOINTMENT DATE/TIME: 09/17/2012@10:00
     CLINIC: Mental Health
     APPOINTMENT STATUS: NO-SHOW
   09/17/2012@08:00 value - Mental Health
     APPOINTMENT DATE/TIME: 09/17/2012@08:00
     CLINIC: Mental Health
     APPOINTMENT STATUS: NO-SHOW

 Reminder Term: VA-MH HIGH RISK FOR SUICIDE PRF
  Computed Finding: VA-Patient Record Flag Information
   12/21/2010@15:33:08 value - NEW ASSIGNMENT;
   Flag - HIGH RISK FOR SUICIDE(II (LOCAL)).
   Assigned Dec 21, 2010@15:33:08 by TROST,DEBBIE. New record flag assignment.

Resolution: Last done 09/17/2012@08:00
 Reminder Term: VA-MH NOSHOW PT CONTACTED
  Health Factor: MH NOSHOW PT CONTACTED
   09/17/2012@08:00
    Comments: Patient had flu
```

Most recent appointment that triggered the reminder

Resolved by no show findings for an earlier no-show appt.

5. Three terms were removed (VA-MH NOSHOW SUPPORT CONTACT, VA-MH NOSHOW INITIATE WELLNESS CHECK, VA-MH NOSHOW UNABLE TO REACH PT) from the reminder definition, since they are no longer valid responses in the related reminder dialog.

6. New functionality was added that gives Clinical Reminders the ability to send notifications. The specific notification is SUICIDE ATTEMPTED /COMPLETED.

7. For list-type reminders, the definition integrity checker was not correctly checking the Baseline Age Findings to make sure that an age range was defined. This was corrected.

Patch 18 (PXRM*2*18- High Risk Mental Health Patient - Reminder and Flag-phase 1) Updates for Reminder Definitions

Changes to National Reminder Definitions

Summary:

1. Updated branching logic reminders for OEF/OIF screening:
   a. Fixed the problem that patients who do not have the required LSSD entry are not having the items show as due when they have been done.
   b. Removed refusals and other exclusions from the branching logic – if not done, then show the item as open and allow the parent reminder to use the exclusions instead of also evaluating them in the branching logic. This makes all 7 of the branching logic reminders consistent.
2. Updated the URLs for MH screening.
3. Added '0' to the Within Category Rank for EF-NO BLAST/EXPLOSION INJURY and EF-NO BULLET INJURY in the reminder VA-EMBEDDED FRAGMENTS RISK EVALUATION.
4. Added occurrence count of 4 to AUD C in the alcohol screening reminder.
5. Fixed header/info text in AAA reminder.
6. Distributed H1N1 reminders and dialog via patch and distribute and inactivate.
7. Updated VA-ALCOHOL F/U POS AUDIT-C dialog to display the education and advice interventions without a box around both and also to have the results of an AUDIT-10 go into the progress note.
8. Distributed the updates to the VA-MHV INFLUENZA VACCINE reminder.

Detailed Descriptions:

1. Updated branching logic reminders

VA-BL DEPRESSION SCREEN

Removed RT.VA-ACTIVE DUTY
Cohort: changed to due for all
Resolution: changed to resolve for any entry that is not before the LSSD
Changed the logic from

MRD(VA-DEPRESSION SCREEN NEGATIVE,VA-DEPRESSION SCREEN POSITIVE)>MRD(VA-LAST SERVICE SEPARATION DATE)

To

MRD(VA-DEPRESSION SCREEN POSITIVE,VA-DEPRESSION SCREEN NEGATIVE)'<MRD(VA-LAST SERVICE SEPARATION DATE)

VA-BL ALCOHOL SCREEN

Removed RT.VA-ACTIVE DUTY
Cohort: changed to due for all
Removed exclusions
Resolution: changed to resolve for any entry that is not before the LSSD

VA-BL PTSD SCREEN
Removed RT.VA-ACTIVE DUTY
Cohort: changed to due for all
Removed exclusions
Resolution: changed to resolve for any entry that is not before the LSSD
Added a '0' to the Within Category Rank for the health factors.

VA-BL OEF/OIF EMBEDDED FRAGMENTS
VA-BL OEF/OIF FEVER
VA-BL OEF/OIF GI SX
VA-BL OEF/OIF SKIN SX
Removed RT.VA-IRAQ/AFGHAN PERIOD OF SERVICE and substitute CF.VA-LAST SERVICE SEPARATION DATE
Removed RT.VA-ACTIVE DUTY
Cohort: changed to due for all
Resolution: changed to resolve for any entry that is not before the LSSD

2. Updated URLs
   VA-ALCOHOL USE SCREEN (AUDIT-C)
   VA-DEPRESSION SCREENING
   VA-PTSD SCREENING

3. VA-EMBEDDED FRAGMENTS RISK EVALUATION: Added '0' to the Within Category Rank for EF-NO BLAST/EXPLOSION INJURY and EF-NO BULLET INJURY

4. VA-ALCOHOL USE SCREENING (AUDIT-C)
   a. Added occurrence count of 4 to AUD C in the alcohol screening reminder
   b. Updated the dialog by changing 'Optional open and optional complete (partial complete possible)' to 'Optional open and required complete or cancel before finish'.

5. Fixed grammatical error in VA-TEXT INFO SCREEN FOR AAA

6. Distributing reminders VA-INFLUENZA H1N1 IMMUNIZATION, VA-INFLUENZA H1N1 IMMUNIZATION HIGH RISK, and dialog VA-INFLUENZA H1N1 IMMUNIZATION (DIALOG). Distribute as INACTIVE.

7. Updated VA-ALCOHOL F/U POS AUDIT-C dialog to display the education and advice interventions without a box around both and also to have the results of an AUDIT-10 go into the progress note. Added an * to the word 'required' in 2 of the captions.

8. Distributing the updates to the VA-MHV INFLUENZA VACCINE reminder which update the age range and also the date of the reminder term for vaccination for the '10-'11 flu season.

Enhancements in Patch 18

New options
Two new options were added to the reminder definition management menu:

- Integrity Check Selected
- Integrity Check All.

These can be used to check the integrity of selected or all reminder definitions. The integrity check will also be made automatically whenever a reminder definition has been edited. Fatal errors (F) that will prevent the reminder from working properly and warnings (W) will be given. The following checks are made:

F – Each finding is checked to make sure it exists
F – If either the Beginning Date/Time or Ending Date/Time contains FIEVAL(M,"DATE") or FIEVAL(M,N,"DATE"), the definition is checked to make sure it contains finding M, and if an occurrence is used, the Occurrence Count of finding M is checked to make sure it is greater than or equal to N.
F- Function findings functions of the form FUNCTION(M) and FUNCTION(M,N) are checked to make sure finding M is in the definition and the Occurrence Count of finding M is greater than or equal to N.
F – If a Custom Date Due is defined, it is checked to make sure that the findings used in the Custom Date Due all exist in the definition.
F – Patient Cohort Logic and Resolution Logic are checked to make sure that the findings used in the logic all exist in the definition.
F – Logic strings are checked to make sure their syntax is valid.
F – The definition contains Resolution Logic but does not have a baseline frequency or any findings that will set a frequency.
W – The Usage field contains a "P" and it is not a national reminder
W – The definition contains Resolution Logic but does not have a baseline frequency. It does have findings that will set a frequency. This could be a problem if all findings that set frequency are false.

New functionality was added to allow using the date of one finding to set the date range of another finding. The syntax for the date of a finding is FIEVAL(M,"DATE") or FIEVAL(M,N,"DATE"), where M is the finding number and N is the occurrence. This means you can now use dates like FIEVAL(3,"DATE")-3W as the Beginning or Ending Date/Time of another finding. The global reminder dates PXRMDOB and PXRMLAD can also be used. Note that if FIEVAL(M) is false or PXRMLAD does not exist, then the finding whose date range depends on the date of finding M will be set to false.

In conjunction with allowing FIEVAL(M,N,"DATE") to be used in Beginning Date/Time or Ending Date/Time, additional frequency units were added. The allowed values are now: H (hours), D (days), W (weeks), M (months), and Y (years). This change applies everywhere that a frequency can be used, including Beginning Date/Time, Ending Date/Time, Reminder Frequency in the Baseline Age Findings multiple, Findings multiple, Function Findings multiple, and Custom Date Due. Custom Date Due will now allow both "+" and "-"; in the past it only allowed "+"

Fixes
Remedy ticket #360708 reported a problem with the incorrect calculation of the resolution date when the resolution logic contains function findings. This was because the resolution date calculation was not properly differentiating between true and false function findings. This was corrected.

Remedy ticket #413731 pointed out a problem with non-VA meds that turned out to be two problems. The first is the existing issue where the Index for non-VA meds has incorrect entries. Remedy ticket #347730 reporting this problem was submitted September 4, 2009 and it still has not been fixed by

Pharmacy. The second problem was a display issue. By default, the date of a drug finding is the stop date. If USE START DATE is true, the date of a drug finding is the start date. However, even when USE START DATE was true, the stop date was being displayed as the date of the finding. That has been corrected so that now whichever date is selected for the drug finding will be displayed as its finding date.

The Clin2 support team pointed out that the value for blood pressure can come back in either of the following forms: SYSTOLIC/DIASTOLIC or SYSTOLIC/MEAN/DIASTOLIC (the second form is not very common). If the second form comes back, then the DIASTOLIC CSUB would have the value for mean, and if $P was used in a Condition, it would also be the mean. The code was changed so that the DIASTOLIC CSUB will always have the correct value. If you are using $P in a Condition, we recommend that you replace it with the appropriate CSUBs. Several national definitions and terms were originally distributed with Conditions using $P; as part of this patch they will be updated to use the SYSTOLIC and DIASTOLIC CSUBs.

The following updates are made:

Definitions:

VA-HTN ASSESSMENT BP >=140/90
FI(11) CONDITION: I $P(V,"/",1)>139!($P(V,"/",2)>89)

changed to I (V("SYSTOLIC")>139)!(V("DIASTOLIC")>89)

FI(13) CONDITION: I $P(V,"/",1)>159!($P(V,"/",2)>99)
changed to I (V("SYSTOLIC")>159)!(V("DIASTOLIC")>99)

VA-HTN ASSESSMENT BP >=160/100
FI(13) CONDITION: I $P(V,"/",1)>159!($P(V,"/",2)>99)
changed to I (V("SYSTOLIC")>159)!(V("DIASTOLIC")>99)

VA-HTN LIFESTYLE EDUCATION
FI(11) CONDITION: I $P(V,"/",1)>139!($P(V,"/",2)>89) changed to I (V("SYSTOLIC")>139)!(V("DIASTOLIC")>89)

Terms:

VA-BP >130/80
Mapped item 1: CONDITION: I $P(V,"/",1)>130!($P(V,"/",2)>80)

changed to I (V("SYSTOLIC")>130)!(V("DIASTOLIC")>80)

VA-BP >130/80 (ANY OF LAST 3)
Mapped item 1: CONDITION: I $P(V,"/",1)>130!($P(V,"/",2)>80) changed to I (V("SYSTOLIC")>130)!(V("DIASTOLIC")>80)

VA-BP >=140/90
Mapped item 1: CONDITION: I $P(V,"/",1)>139!($P(V,"/",2)>89)

changed to I (V("SYSTOLIC")>139)!(V("DIASTOLIC")>89)

VA-BP >=160/100
Mapped item 1: CONDITION: I $P(V,"/",1)>159!($P(V,"/",2)>99)

changed to I (V("SYSTOLIC")>159)!(V("DIASTOLIC")>99)

On the Nov 19, 2010 national reminder call, there was a discussion about frequency being required. If there is no resolution logic, then frequency is not required as long as AGE is not in the cohort logic (because age is associated with a frequency). When there was no frequency, the status was being returned as CNBD even if there was no resolution logic and no age in the cohort logic. This was changed so that as long as there is no AGE in the cohort logic and no resolution logic, the status will be either DUE or N/A.

There were a couple of errors in the description of the **Usage field**.

Original Description:
The Usage field describes how the reminder definition will be used. This field must contain C if the reminder is to be selected in CPRS. The L or the O values will override all other values. For example, if L and C are defined in the usage field, the Reminder will not show on the cover sheet in CPRS, because L is in the Usage field.

This is free text field and can contain any combination of the following codes:

Code	Usage
C	CPRS
L	Reminder Patient List
O	Reminder Order Checks
P	Patient
R	Reminder Reports
X	Reminder Extracts
*	All of the above, except L, and O.

Corrected Description:
The Usage field describes how the reminder definition can be used. This field must contain C or * if the reminder is to be selected in CPRS. The L or the O values will override all other values. For example, if L and C are defined in the Usage field, the Reminder will not show on the cover sheet in CPRS, because L is in the Usage field.

This is free text field and can contain any combination of the following codes:

Code	Usage
C	CPRS
L	Reminder Patient List
O	Reminder Order Checks
P	Patient
R	Reminder Reports
X	Reminder Extracts
*	All of the above, except L, O, and P.

Steps to Define a Working Reminder

There are two parts to creating a working clinical reminder.

- *Reminder definition:* This describes the patients the reminder applies to, how often it is given, and what resolves or satisfies the reminder.
- *Process Issues:* The process issues include who will use the reminder and how the data will be captured. The process issues are extremely important; if they are not worked out, the reminder will never function as intended, even if the definition is correct.

These are the basic steps for defining a reminder. More detailed instructions for creating reminders and dialogs are provided in chapters that follow. As you become more experienced, you will probably develop your own process, but this provides a good starting place.

1. Write the reminder definition in a narrative form that clearly describes what you want the reminder to do. Use this narrative to identify patient data you need and how to capture it. Determine what characteristics the reminder will have (make a list). Which patients will the reminder be applicable for: age ranges, sex, diagnoses, etc. What satisfies the reminder and what makes it not applicable: diagnoses, lab results, x-rays, education, etc.

Reminders provide answers to the questions:

- WHO (findings and patient cohort logic)
- WHAT resolves the reminder (findings and resolution logic)
- WHEN (frequency)
- WHERE this reminder will likely be resolved (location/provider)

2. Review existing reminders to see if there is an existing reminder that is close to what you need.
   List Reminder Definitions, Reminder Definition Management Menu
   Inquire about a Reminder Definition, Reminder Definition Management Menu
3. Create new findings if they are required. For example, you may need exams or health factors.
   Option: PCE Table Maintenance on Other Supporting Menus
4. Copy the existing reminder and edit it to meet your needs, or define a new reminder.
   Copy Reminder Definition or Add/Edit Reminder Definition,
5. Test your reminder definition by evaluating the reminder for test patients. You should have patients who are in the cohort and who are not in the cohort. For patients who are in the cohort, you should have some who have the reminder resolved and some who do not.
   Options: Test Reminder on the Reminder Management Menu, Health Summary Coordinator's Menu; Clinical Maintenance in CPRS;
6. Create a reminder dialog (following instructions in the Reminder Dialog section of this manual), if desired, for resolving the reminder in CPRS.
7. Once you are certain the reminder works as intended, set it up in one or more of the following applications:
   - Add it to a health summary
   - Make it available to users through the CPRS GUI

NOTE: The procedure for making a health summary available in the CPRS GUI is found on page 317.

List Reminder Definitions

This option prints a summary of reminder definitions. You can limit the list by several criteria: all reminders, all national reminders, all local reminders, print name, or .01 name.

Example: List Reminder Definitions by National Reminders

NOTE: Only the first few of the reminder definitions are deleted from this example, for brevity's sake.

```
   RL     List Reminder Definitions
   RI     Inquire about Reminder Definition
   RE     Add/Edit Reminder Definition
   RC     Copy Reminder Definition
   RA     Activate/Inactivate Reminders
   RH     Reminder Edit History
   ICS    Integrity Check Selected
   ICA    Integrity Check All

Select Reminder Definition Management Option: RL  List Reminder Definitions

List all reminders? Y// NO

List all local reminders? Y// NO

List only reminders starting with (prefix)? VA-//

List Active (A), Inactive (I), Both (B)? B// Active

Sort list by Name (N), Print Name (P)? N// ame (.01)

A reminder list will be created using the following criteria:
  List all reminders?  NO
  List all local reminders?  NO
  List only reminders starting with (prefix)?  VA-
  List Active (A), Inactive (I), Both (B)?  Active
  Sort list by Name (N), Print Name (P)?  Name (.01)

Is this correct? Y// ES
DEVICE:   HOME
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-----------------------------------
Name:        VA-*IHD 412 ELEVATED LDL REPORTING
Print Name:  IHD 412 Elevated LDL Reporting

Class:                        NATIONAL

Sponsor:                      Office of Quality & Performance

Review Date:

Usage: DATA EXTRACT, REPORTS

Priority:

Reminder Description:
    Compliance reporting measures the management of IHD patients with an
```

```
    ICD-9 412.nn diagnosis, whose most recent LDL is greater than or equal to
    120mg/dl as defined by the VA External Peer Review Program (EPRP)
    performance measure and the maximum guideline recommended below:

       The VHA/DOD Clinical Practice Guideline for Management of Dyslipidemia
       recommends an LDL goal of <120 mg/dl for patients with Ischemic Heart
       Disease; and the NCEP Adult Treatment Panel II recommends a more
       stringent goal of <100 mg/dl.

    This national IHD 412 Elevated LDL Reporting reminder is used monthly to
    roll up compliance totals for management of a subgroup of IHD patients
    with a 412.nn diagnosis, whose most recent LDL is greater than or equal
    to 120mg/dl.

    This national reminder identifies IHD patients with a documented ICD-9
    code 412.nn in the last 5 years, who have had a serum lipid panel within
    the last two years, where the most recent LDL lab test (or documented
    outside LDL) is greater than or equal to 120 mg/dl.

    If a more recent record of an UNCONFIRMED IHD DIAGNOSIS is found, the
    reminder will not be applicable to the patient.

Findings:
  Finding Item:  VA-IHD 412 DIAGNOSIS (FI(1)=RT(75))
  Finding Item:  VA-OUTSIDE LDL <100 (FI(3)=RT(35))
  Finding Item:  VA-OUTSIDE LDL 100-119 (FI(4)=RT(34))
  Finding Item:  VA-OUTSIDE LDL 120-129 (FI(5)=RT(52))
  Finding Item:  VA-OUTSIDE LDL >129 (FI(6)=RT(36))
  Finding Item:  VA-LDL <100 (FI(7)=RT(49))
  Finding Item:  VA-LDL 100-119 (FI(8)=RT(50))
  Finding Item:  VA-LDL 120-129 (FI(9)=RT(51))
  Finding Item:  VA-LDL >129 (FI(10)=RT(71))
  Finding Item:  VA-UNCONFIRMED IHD DIAGNOSIS (FI(11)=RT(42))

Customized PATIENT COHORT LOGIC to see if the Reminder applies to a patient:
 FI(1)&FF(2)

Expanded Patient Cohort Logic:
 FI(VA-IHD 412 DIAGNOSIS)&FF(2)

Customized RESOLUTION LOGIC defines findings that resolve the Reminder:
 (FI(3)!FI(4)!FI(5)!FI(6)!FI(7)!FI(8)!FI(9)!FI(10))&FF(1)

Expanded Resolution Logic:
 (FI(VA-OUTSIDE LDL <100)!FI(VA-OUTSIDE LDL 100-119)!
 FI(VA-OUTSIDE LDL 120-129)!FI(VA-OUTSIDE LDL >129)!FI(VA-LDL <100)!
 FI(VA-LDL 100-119)!FI(VA-LDL 120-129)!FI(VA-LDL >129))&FF(1)

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Name:        VA-*IHD 412 LIPID PROFILE REPORTING
Print Name:  IHD 412 Lipid Profile Reporting

Class:                        NATIONAL

Sponsor:                      Office of Quality & Performance

Review Date:

Usage: DATA EXTRACT, REPORTS
```

```
Priority:

Reminder Description:
    Compliance reporting measures the LDL completed within 2 years as defined
    by the VA External Peer Review Program (EPRP) performance measure and the
    maximum guideline recommended below:

      The VHA/DOD Clinical Practice Guideline for Management of Dyslipidemia
      recommends that patients with Ischemic Heart Disease have a lipid
      profile/LDL every one to two years; and that patients taking lipid
      lowering medications have a lipid profile/LDL at least every year.

    This national IHD 412 Lipid Profile Reporting reminder is used monthly to
    roll up LDL compliance totals for a subgroup of IHD patients. This
    reminder identifies IHD patients with a documented ICD-9 code 412.nn in
    the last five years who have not had a serum lipid panel/LDL (calculated
    or direct lab package LDL or documented outside LDL) within the last two
    years. If a more recent record of an UNCONFIRMED IHD DIAGNOSIS is found,
    the reminder will not be applicable to the patient.

Findings:
  Finding Item:  VA-IHD 412 DIAGNOSIS (FI(1)=RT(75))
  Finding Item:  VA-LDL (FI(2)=RT(32))
  Finding Item:  VA-OUTSIDE LDL <100 (FI(3)=RT(35))
  Finding Item:  VA-OUTSIDE LDL 100-119 (FI(4)=RT(34))
  Finding Item:  VA-OUTSIDE LDL 120-129 (FI(5)=RT(52))
  Finding Item:  VA-OUTSIDE LDL >129 (FI(6)=RT(36))
  Finding Item:  VA-UNCONFIRMED IHD DIAGNOSIS (FI(10)=RT(42))
  Finding Item:  VA-LIPID LOWERING MEDS (FI(12)=RT(54))
  Finding Item:  VA-LDL <100 (FI(13)=RT(49))
  Finding Item:  VA-LDL 100-119 (FI(14)=RT(50))
  Finding Item:  VA-LDL 120-129 (FI(15)=RT(51))
  Finding Item:  VA-LDL >129 (FI(16)=RT(71))

Customized PATIENT COHORT LOGIC to see if the Reminder applies to a patient:
 FI(1)&FF(1)

Expanded Patient Cohort Logic:
 FI(VA-IHD 412 DIAGNOSIS)&FF(1)

Default RESOLUTION LOGIC defines findings that resolve the Reminder:
 FI(2)!FI(3)!FI(4)!FI(5)!FI(6)

Expanded Resolution Logic:
 FI(VA-LDL)!FI(VA-OUTSIDE LDL <100)!FI(VA-OUTSIDE LDL 100-119)!
 FI(VA-OUTSIDE LDL 120-129)!FI(VA-OUTSIDE LDL >129)


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-----------------------------------
Name:        VA-*IHD ELEVATED LDL REPORTING
Print Name:  IHD Elevated LDL Reporting

Class:                       NATIONAL

Sponsor:                     Office of Quality & Performance

Review Date:
```

```
Usage: DATA EXTRACT, REPORTS

Priority:

Reminder Description:
    Compliance reporting measures the management of IHD patients whose most
    recent LDL is greater than or equal t0 120mg/dl as defined by the VA
    External Peer Review Program (EPRP) performance measure and the maximum
    guideline recommended below:

       The VHA/DOD Clinical Practice Guideline for Management of Dyslipidemia
       recommends an LDL goal of <120 mg/dl for patients with Ischemic Heart
       Disease; and the NCEP Adult Treatment Panel II recommends a more
       stringent goal of <100 mg/dl.

    This national IHD Elevated LDL Reporting reminder is used monthly to roll
    up compliance totals for management of IHD patients whose most recent LDL
    is greater than or equal to 120mg/dl.

    This national reminder identifies patients with known IHD (i.e., a
    documented ICD-9 code for IHD in the last five years) who have had a
    serum lipid panel within the last two years, where the most recent LDL
    lab test (or documented outside LDL) is greater than or equal to 120
    mg/dl. If a more recent record of an UNCONFIRMED IHD DIAGNOSIS is found,
    the reminder will not be applicable to the patient.

Findings:
  Finding Item:  VA-IHD DIAGNOSIS (FI(1)=RT(27))
  Finding Item:  VA-OUTSIDE LDL <100 (FI(3)=RT(35))
  Finding Item:  VA-OUTSIDE LDL 100-119 (FI(4)=RT(34))
  Finding Item:  VA-OUTSIDE LDL 120-129 (FI(5)=RT(52))
  Finding Item:  VA-OUTSIDE LDL >129 (FI(6)=RT(36))
  Finding Item:  VA-LDL >129 (FI(7)=RT(71))
  Finding Item:  VA-LDL <100 (FI(8)=RT(49))
  Finding Item:  VA-UNCONFIRMED IHD DIAGNOSIS (FI(13)=RT(42))
  Finding Item:  VA-LDL 100-119 (FI(14)=RT(50))
  Finding Item:  VA-LDL 120-129 (FI(15)=RT(51))

Customized PATIENT COHORT LOGIC to see if the Reminder applies to a patient:
 FI(1)&FF(2)

Expanded Patient Cohort Logic:
 FI(VA-IHD DIAGNOSIS)&FF(2)

Default RESOLUTION LOGIC defines findings that resolve the Reminder:
 FI(3)!FI(4)!'FI(5)!'FI(6)!'FI(7)!FI(8)!FI(14)!'FI(15)&FF(1)

Expanded Resolution Logic:
 FI(VA-OUTSIDE LDL <100)!FI(VA-OUTSIDE LDL 100-119)!'
 FI(VA-OUTSIDE LDL 120-129)!'FI(VA-OUTSIDE LDL >129)!'FI(VA-LDL >129)!
 FI(VA-LDL <100)!FI(VA-LDL 100-119)!'FI(VA-LDL 120-129)&FF(1)


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-----------------------------------
Name:        VA-*IHD LIPID PROFILE REPORTING
Print Name:  IHD Lipid Profile Reporting

Class:                        NATIONAL
```

```
Sponsor:                      Office of Quality & Performance

Review Date:

Usage: DATA EXTRACT, REPORTS

Priority:

Reminder Description:
    Compliance reporting measures the LDL completed within 2 years as defined
    by the VA External Peer Review Program (EPRP) performance measure and the
    maximum guideline recommended below:
      The VHA/DOD Clinical Practice Guideline for Management of Dyslipidemia
      recommends that patients with Ischemic Heart Disease have a lipid
      profile/LDL every one to two years; and that patients taking lipid
      lowering medications have a lipid profile/LDL at least every year.

    This national IHD Lipid Profile Reporting reminder is used monthly to
    roll up LDL compliance totals for IHD patients. This reminder identifies
    patients with known IHD (i.e., a documented ICD-9 code for IHD in the
    last five years) who have not had a serum lipid panel/LDL (calculated or
    direct lab package LDL) or documented outside LDL within the last two
    years. If a more recent record of an UNCONFIRMED IHD DIAGNOSIS is found,
    the reminder will not be applicable to the patient.

Findings:
  Finding Item:  VA-IHD DIAGNOSIS (FI(1)=RT(27))
  Finding Item:  VA-LDL (FI(2)=RT(32))
  Finding Item:  VA-OUTSIDE LDL <100 (FI(3)=RT(35))
  Finding Item:  VA-OUTSIDE LDL 100-119 (FI(4)=RT(34))
  Finding Item:  VA-OUTSIDE LDL 120-129 (FI(5)=RT(52))
  Finding Item:  VA-OUTSIDE LDL >129 (FI(6)=RT(36))
  Finding Item:  VA-UNCONFIRMED IHD DIAGNOSIS (FI(10)=RT(42))
  Finding Item:  VA-LIPID LOWERING MEDS (FI(12)=RT(54))
  Finding Item:  VA-LDL <100 (FI(13)=RT(49))
  Finding Item:  VA-LDL 100-119 (FI(14)=RT(50))
  Finding Item:  VA-LDL 120-129 (FI(15)=RT(51))
  Finding Item:  VA-LDL >129 (FI(16)=RT(71))

Customized PATIENT COHORT LOGIC to see if the Reminder applies to a patient:
 FI(1)&FF(1)

Expanded Patient Cohort Logic:
 FI(VA-IHD DIAGNOSIS)&FF(1)

Default RESOLUTION LOGIC defines findings that resolve the Reminder:
 FI(2)!FI(3)!FI(4)!FI(5)!FI(6)

Expanded Resolution Logic:
 FI(VA-LDL)!FI(VA-OUTSIDE LDL <100)!FI(VA-OUTSIDE LDL 100-119)!
 FI(VA-OUTSIDE LDL 120-129)!FI(VA-OUTSIDE LDL >129)


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Name:        VA-*IRAQ & AFGHAN POST-DEPLOY SCREEN REPORTING

Print Name:  Iraq&Afghan Post-Deployment Screen

Class:                        LOCAL
```

Sponsor:

Review Date:

Usage: CPRS, REPORTS

Priority:

Reminder Description:

Patients who served in combat in either Operation Iraqi Freedom (Iraq, Kuwait, Saudi Arabia, Turkey) or in Operation Enduring Freedom (Afghanistan, Georgia, Kyrgyzstan, Pakistan, Tajikistan, Uzbekistan, The Philippines) should be screened for illnesses related to their service. Screening for PTSD, depression, problem alcohol use, infectious diseases, and chronic symptoms should be part of the initial evaluation of these Veterans.

COHORT: Veterans with separation date after 9/11/01. This finding is part of the reminder term: VA-IRAQ/AFGHAN PERIOD OF SERVICE and is determined by a computed finding.

An additional reminder term VA-ACTIVE DUTY is also available to cause patients to be part of the cohort. This term contains a computed finding for VA-PATIENT TYPE which can be used to include active duty patients. Sites that do not screen active duty patients may remove the computed finding from this reminder term.

RESOLUTION: entry of a health factor for NO IRAQ/AFGHAN SERVICE which is found in the reminder term IRAQ/AFGHAN SERVICE NO will resolve the reminder. If the Veteran served in Iraq or Afghanistan (IRAQ/AFGHAN SERVICE) then

1. the area of service by country must be answered and 2. all the other items are required to resolve the reminder and must be completed after the date of the most recent service separation:

a) screen for PTSD,
b) screen for depression,
c) screen for alcohol use,
d) all 4 screening questions related to infectious diseases and other symptoms.

The clinical maintenance will display information on which portions of the screen are not yet completed.

All of the individual elements of the screening tool are exported with attached health factors and reminder terms. The national health factors and reminder terms for the 2 question depression screen are used for the depression screening. The reminder dialog for alcohol screening allows the use of the standard AUDIT-C tool from the Mental Health package or entry of a refusal or entry of a health factor for no alcohol in the past year. The reminder term for ALCOHOL USE SCREEN contains the AUDIT-C and CAGE from the Mental Health package, the health factor for no alcohol use in the past year and the health factor for refusal. Additional health factors are included for PTSD screening and for the Infectious Diseases/Chronic symptoms screening. If your site does PTSD screening, then you will need to map your local health factors to the national PTSD reminder terms that are exported with this reminder.

The HFs for all of these screens should be entered in the site parameters as ones that cannot be added outside of a reminder dialog. Use the parameter ORWPCE EXCLUDE HEALTH FACTORS to exclude these from the electronic encounter forms. Entry of these health factors should ONLY

```
    occur during reminder dialog use.

Findings:
  Finding Item:  VA-IRAQ/AFGHAN SERVICE NO (FI(1)=RT(489))
  Finding Item:  VA-IRAQ/AFGHAN PERIOD OF SERVI (FI(2)=RT(490))
  Finding Item:  VA-IRAQ/AFGHAN SERVICE (FI(3)=RT(568012))
  Finding Item:  VA-DEPRESSION SCREEN NEGATIVE (FI(4)=RT(80))
  Finding Item:  VA-DEPRESSION SCREEN POSITIVE (FI(5)=RT(81))
  Finding Item:  VA-ALCOHOL USE SCREEN (FI(6)=RT(488))
  Finding Item:  VA-PTSD SCREEN (FI(7)=RT(568013))
  Finding Item:  VA-UNEXPLAINED FEVER (IRAQ/AFG (FI(8)=RT(568015))
  Finding Item:  VA-OTHER SYMPTOMS (IRAQ/AFGHAN (FI(9)=RT(568017))
  Finding Item:  VA-GI SYMPTOMS (IRAQ/AFGHANIST (FI(10)=RT(568014))
  Finding Item:  VA-PERSISTENT RASH (IRAQ/AFGHA (FI(11)=RT(568016))
  Finding Item:  VA-PTSD AVOIDANCE ALL (FI(12)=RT(617))
  Finding Item:  VA-PTSD DETACHMENT ALL (FI(13)=RT(620))
  Finding Item:  VA-PTSD NIGHTMARES ALL (FI(14)=RT(618))
  Finding Item:  VA-PTSD ON GUARD ALL (FI(15)=RT(619))
  Finding Item:  VA-REFUSED PTSD SCREEN (FI(16)=RT(631))
  Finding Item:  VA-REFUSED ALCOHOL SCREENING (FI(17)=RT(568018))
  Finding Item:  VA-REFUSED DEPRESSION SCREENIN (FI(18)=RT(73))
  Finding Item:  VA-ACTIVE DUTY (FI(19)=RT(568019))
  Finding Item:  VA-REFUSED ID & OTHER SX SCREE (FI(20)=RT(568020))
  Finding Item:  VA-*SERVICE PERIOD SEPARATION  (FI(21)=RT(616))
  Finding Item:  VA-*SERVICE PERIOD SERVICE TYP (FI(22)=RT(644))
  Finding Item:  VA-*SERVICE PERIOD SERVICE TYP (FI(23)=RT(645))
  Finding Item:  VA-*SERVICE PERIOD SERVICE TYP (FI(24)=RT(646))
  Finding Item:  VA-*SERVICE PERIOD SERVICE TYP (FI(25)=RT(647))
  Finding Item:  VA-*SERVICE PERIOD SERVICE TYP (FI(26)=RT(648))
  Finding Item:  VA-*SERVICE PERIOD BRANCH AIR  (FI(27)=RT(650))
  Finding Item:  VA-*SERVICE PERIOD BRANCH ARMY (FI(28)=RT(649))
  Finding Item:  VA-*SERVICE PERIOD BRANCH COAS (FI(29)=RT(653))
  Finding Item:  VA-*SERVICE PERIOD BRANCH MARI (FI(30)=RT(652))
  Finding Item:  VA-*SERVICE PERIOD BRANCH NAVY (FI(31)=RT(651))
  Finding Item:  VA-*SERVICE PERIOD BRANCH OTHE (FI(32)=RT(654))
  Finding Item:  VA-*SERVICE PERIOD BRANCH NONE (FI(33)=RT(655))
  Finding Item:  VA-*CONFLICT OEF/OIF/VIS WITHI (FI(34)=RT(624))
  Finding Item:  VA-*CONFLICT OIF WITHIN LATEST (FI(35)=RT(675))
  Finding Item:  VA-*CONFLICT OEF WITHIN LATEST (FI(36)=RT(674))
  Finding Item:  VA-*CONFLICT VIS WITHIN LATEST (FI(37)=RT(633))
  Finding Item:  VA-*CONFLICT OEF/OIF/VIS SERVI (FI(38)=RT(625))
  Finding Item:  VA-*OEF COUNTRY AFGHANISTAN (P (FI(39)=RT(666))
  Finding Item:  VA-*OEF COUNTRY GEORGIA (PER P (FI(40)=RT(667))
  Finding Item:  VA-*OEF COUNTRY KYRGYZSTAN (PE (FI(41)=RT(668))
  Finding Item:  VA-*OEF COUNTRY PAKISTAN (PER  (FI(42)=RT(669))
  Finding Item:  VA-*OEF COUNTRY PHILIPPINES (P (FI(43)=RT(672))
  Finding Item:  VA-*OEF COUNTRY TAJIKISTAN (FI(44)=RT(670))
  Finding Item:  VA-*OEF COUNTRY UZBEKISTAN (PE (FI(45)=RT(671))
  Finding Item:  VA-*OEF COUNTRY OTHER (PER PAT (FI(46)=RT(673))
  Finding Item:  VA-*OIF COUNTRY IRAQ (PER PATI (FI(47)=RT(643))
  Finding Item:  VA-*OIF COUNTRY KUWAIT (PER PA (FI(48)=RT(662))
  Finding Item:  VA-*OIF COUNTRY SAUDI ARABIA ( (FI(49)=RT(663))
  Finding Item:  VA-*OIF COUNTRY TURKEY (PER PA (FI(50)=RT(664))
  Finding Item:  VA-*OIF COUNTRY OTHER (PER PAT (FI(51)=RT(665))
  Finding Item:  VA-*SEX FEMALE (FI(52)=RT(661))
  Finding Item:  VA-*SEX MALE (FI(53)=RT(660))
  Finding Item:  VA-*AGE LESS THAN 20 (FI(54)=RT(636))
  Finding Item:  VA-*AGE 20-29 (FI(55)=RT(637))
  Finding Item:  VA-*AGE 30-39 (FI(56)=RT(638))
  Finding Item:  VA-*AGE 40-49 (FI(57)=RT(639))
  Finding Item:  VA-*AGE 50-59 (FI(58)=RT(640))
  Finding Item:  VA-*AGE 60-69 (FI(59)=RT(641))
  Finding Item:  VA-*AGE GREATER THAN 69 (FI(60)=RT(642))
```

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  Finding Item:  VA-*RACE ASIAN (FI(61)=RT(632))
  Finding Item:  VA-*RACE BLACK OR AFRICAN AMER (FI(62)=RT(629))
  Finding Item:  VA-*RACE NATIVE HAWAIIAN OR OT (FI(63)=RT(630))
  Finding Item:  VA-*RACE WHITE (FI(64)=RT(628))
  Finding Item:  VA-*ETHNICITY HISPANIC (FI(65)=RT(634))
  Finding Item:  VA-*ETHNICITY NOT HISPANIC (FI(66)=RT(635))
  Finding Item:  VA-*LOCATION LIST NEXUS PRIMAR (FI(67)=RT(656))
  Finding Item:  VA-*LOCATION LIST NEXUS MENTAL (FI(68)=RT(657))
  Finding Item:  VA-*LOCATION LIST EMERGENCY/ (FI(69)=RT(658))

Default PATIENT COHORT LOGIC to see if the Reminder applies to a patient:
 (SEX)&(AGE)&FI(2)!FI(19)

Expanded Patient Cohort Logic:
 (SEX)&(AGE)&FI(VA-IRAQ/AFGHAN PERIOD OF SERVICE)!FI(VA-ACTIVE DUTY)

Customized RESOLUTION LOGIC defines findings that resolve the Reminder:
 (FI(1)&FF(1))!(FI(3)&(FF(2)!FI(16))&(FF(3)!FI(18))&(FF(4)!FI(17))&FF(5)&
 FF(6)&FF(7)&FF(8))

Expanded Resolution Logic:
 (FI(VA-IRAQ/AFGHAN SERVICE NO)&FF(1))!(FI(VA-IRAQ/AFGHAN SERVICE)&
 (FF(2)!FI(VA-REFUSED PTSD SCREEN))&(FF(3)!
 FI(VA-REFUSED DEPRESSION SCREENING))&(FF(4)!
 FI(VA-REFUSED ALCOHOL SCREENING))&FF(5)&FF(6)&FF(7)&FF(8))

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Name:        VA-AAA SCREENING
Print Name:  Screen for Abd Aortic Aneurysm

Class:                        NATIONAL

Sponsor:                      National Clinical Reminder Committee

Review Date:

Usage: CPRS, DATA EXTRACT, REPORTS

Priority:

Reminder Description:
    Screen once for AAA in men ages 65-75 who are current or prior smokers.

    Developed by the National Clinical Reminder Committee in conjunction with
    the VA National Center for Health Promotion and Disease Prevention and
    Dr. Charles Anderson, Director, VHA Radiology Program.

    The reminder applies to all patients who have a history of smoking
    recorded in their record.  Mapping of all local health factors for
    current or prior smoking history is needed.  The term VA-SMOKING HISTORY
    is included for this.  The user has an option in the dialog to indicate
    that the patient smoked <100 total lifetime cigarettes.

    If the procedure was done on or after the 60th birthday, then it will be
    counted as adequate screening.

    Many types of imaging procedures could be adequate to evaluate the status
    of the abdominal aorta if the interpreting Radiologist addresses the
    aorta in the reading and the report.  Because it is not always clear from
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    the type of procedure, these procedures are marked as "non-specific"
    abdominal imaging in this reminder and a health factor is available to be
    entered by a user if it is clear from the report that the procedure
    adequately addressed the status of the abdominal aorta from the renal
    arteries to the bifurcation of the aorta.

    The following terms are included: VA-IMAGING FOR AAA (CPT NON-SPECIFIC
    PROC) This term is mapped to a taxonomy of procedures that represent
    radiology studies that could be adequate for screening but may not be
    depending on the report.

    VA-IMAGING FOR AAA (RAD NON-SPECIFIC PROC) This term must be mapped
    locally and should contain radiology procedures ONLY.  No CPT codes
    should be added to this term.  If a diagnostic code is added by Radiology
    to one of the procedures in this term to show that AAA screening was
    completed, then the reminder will be resolved.

    VA-IMAGING FOR AAA (RAD SPECIFIC PROC) This term must be mapped locally
    and should contain radiology procedures ONLY.  No CPT codes should be
    added to this term.  Only procedures that are always used to screen for
    AAA should be added to this term.  Do not enter any procedures that may
    be done for purposes other than AAA screening. This term will resolve the
    reminder.

    A reminder term for orderable items is included.  You will need to map
    your local orderable items for the procedures in the taxonomy to this
    term in order for orders to temporarily resolve the reminder.  If a
    procedure has been ordered in the past 6 months, then this finding will
    temporarily resolve the reminder.  If a different time period is
    preferable at the local VA, then enter a different date range on the
    findings in this term and those dates will override the 6 month period.

    A health factor for outside procedures is included.

    Patients with a short life expectancy are excluded.  You may want to add
    any local health factors for short life expectancy to the reminder term
    VA-AAA SCREENING NOT APPLICABLE.

    Patients who are not candidates for repair may not be appropriate for
    screening and may be excluded.

    Patients with known AAA or with prior repair of an AAA are excluded.

    A term is included for refusals and this term permanently resolves the
    reminder.  If a shorter time frame is desired for refusal, then enter
    that time frame on the health factor in the term.

Findings:
  Finding Item:  VA-SMOKING HISTORY (FI(1)=RT(793))
  Finding Item:  VA-SMOKING HX <100 LIFETIME CI (FI(2)=RT(794))
  Finding Item:  VA-AAA DX/AAA REPAIR CPT (FI(3)=RT(795))
  Finding Item:  VA-AAA SCREENING NOT APPLICABL (FI(7)=RT(786))
  Finding Item:  VA-IMAGING FOR AAA (RAD SPECIF (FI(8)=RT(785))
  Finding Item:  VA-IMAGING FOR AAA (CPT NON-SP (FI(9)=RT(784))
  Finding Item:  VA-IMAGING CONFIRMED AS ADEQUA (FI(10)=RT(787))
  Finding Item:  VA-OUTSIDE SCREENING FOR AAA (FI(11)=RT(788))
  Finding Item:  VA-IMAGING FOR AAA (RAD NON-SP (FI(12)=RT(789))
  Finding Item:  VA-IMAGING FOR AAA ORDERABLE I (FI(13)=RT(790))
  Finding Item:  VA-DATE OF BIRTH (FI(14)=CF(2))
  Finding Item:  VA-REFUSED IMAGING FOR AAA SCR (FI(15)=RT(791))

Default PATIENT COHORT LOGIC to see if the Reminder applies to a patient:
 (SEX)&(AGE)&FI(1)&'FI(2)&'FI(3)&'FI(7)
```

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Expanded Patient Cohort Logic:
 (SEX)&(AGE)&FI(VA-SMOKING HISTORY)&'
 FI(VA-SMOKING HX <100 LIFETIME CIGARETTES)&'
 FI(VA-AAA DX/AAA REPAIR CPT)&'FI(VA-AAA SCREENING NOT APPLICABLE)

Customized RESOLUTION LOGIC defines findings that resolve the Reminder:
 FI(8)&FF(8)!(FI(9)&FI(10)&FF(9))!(FI(11)&FF(11))!(FI(12)&FF(12))!FI(13)!
 FI(15)

Expanded Resolution Logic:
 FI(VA-IMAGING FOR AAA (RAD SPECIFIC PROC))&FF(8)!
 (FI(VA-IMAGING FOR AAA (CPT NON-SPECIFIC PROC))&
 FI(VA-IMAGING CONFIRMED AS ADEQUATE FOR AAA SCREENING)&FF(9))!
 (FI(VA-OUTSIDE SCREENING FOR AAA)&FF(11))!
 (FI(VA-IMAGING FOR AAA (RAD NON-SPECIFIC PROC))&FF(12))!
 FI(VA-IMAGING FOR AAA ORDERABLE ITEMS)!
 FI(VA-REFUSED IMAGING FOR AAA SCREEN)

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Name:        VA-ALCOHOL ABUSE SCREEN (AUDIT-C)
Print Name:  Alcohol Abuse Screen (AUDIT-C)

Class:                        NATIONAL

Sponsor:                      Office of Patient Care Services

Review Date:

Usage: CPRS, REPORTS

Priority:

Reminder Description:
    Alcohol Screen Due yearly for all patients.

    The AUDIT-C is needed on all patients on a yearly basis.  A reminder term
.
.
Etc.
```

Inquire About Reminder Item

You can select a specific reminder to see all the details.

```
Select Reminder Definition Management Option: RI  Inquire about Reminder Definition
Select REMINDER DEFINITION: VA-MH HIGH RISK NO-SHOW FOLLOW-UP       NATIONAL
DEVICE: ;;999  HOME
```

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VA-MH HIGH RISK NO-SHOW FOLLOW-UP                                  No. 406
-------------------------------------------------------------------------------


Print Name:             High Risk MH No-Show Follow-up

Class:                  NATIONAL

Sponsor:                Office of Mental Health Services

Review Date:

Rescission Date:

Usage:                  CPRS, DATA EXTRACT, REPORTS

Related VA-* Reminder:

Reminder Dialog:        VA-MH HIGH RISK NO SHOW FOLLOW-UP

Priority:

Description:
  This reminder shall determine whether Mental Health (MH) professionals have
  followed up on a No-Show MH appointment for a patient with an active High
  Risk for Suicide Patient Record Flag.

  The reminder requires clinicians to initiate follow-up with the patient to
  insure his/her safety and to try to get the patient back into care. The
  follow-up results are documented with health factors.

  Studies show that individuals that get lost to follow-up have a higher rate
  of actual suicide than those that stay connected with care.

  If the patient has a completed encounter to a MH appointment on the same
  day, or within 72 hours of the missed MH appointment, follow-up will no
  longer be necessary.

Technical Description:


Baseline Frequency:

      Do In Advance Time Frame:  Do if DUE within 99Y - Once
                  Sex Specific:
                 Ignore on N/A:
       Frequency for Age Range:  99Y - Once for all ages
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                    Match Text:  Reminder triggered by missed MH appointment
                                 and when resolved won't be due again until
                                 another missed MH appointment occurs.\\
                 No Match Text:


Findings:

  ---- Begin: VA-MH NOSHOW MISSED MH CLINIC APPTS (FI(1)=RT(809)) ----------
                  Finding Type: REMINDER TERM
   Use in Patient Cohort Logic: AND
           Beginning Date/Time: T-10D
              Ending Date/Time: T
              Occurrence Count: 5
    Computed Finding Parameter: FLDS:1,2,3^STATUS:NS,NSR^LL:VA-MH NO SHOW APPT
 CLINICS LL

                    Mapped Findings: CF.VA-APPOINTMENTS FOR A PATIENT
         Computed Finding Parameter: FLDS:1,2,3^STATUS:NS,NSR^LL:VA-MH NO SHOW
 APPT CLINICS LL^

  ---- End: VA-MH NOSHOW MISSED MH CLINIC APPTS ----------------------------

  ---- Begin: VA-MH HIGH RISK FOR SUICIDE PRF (FI(2)=RT(811)) --------------
                  Finding Type: REMINDER TERM
   Use in Patient Cohort Logic: AND
           Beginning Date/Time: FIEVAL(1,1,"DATE")
              Ending Date/Time: FIEVAL(1,1,"DATE")+1D
              Occurrence Count: 2

                    Mapped Findings: CF.VA-PATIENT RECORD FLAG
                                     INFORMATION
         Computed Finding Parameter: HIGH RISK FOR SUICIDE^L

                    Mapped Findings: CF.VA-PATIENT RECORD FLAG
                                     INFORMATION
         Computed Finding Parameter: HIGH RISK FOR SUICIDE^N

  ---- End: VA-MH HIGH RISK FOR SUICIDE PRF --------------------------------

  ---- Begin: VA-MH NOSHOW PT CONTACTED (FI(3)=RT(812)) --------------------
                  Finding Type: REMINDER TERM
      Use in Resolution Logic: OR
           Beginning Date/Time: FIEVAL(1,1,"DATE")
              Occurrence Count: 3

                    Mapped Findings: HF.MH NOSHOW PT CONTACTED
             Health Factor Category: MH NOSHOW MANAGEMENT

  ---- End: VA-MH NOSHOW PT CONTACTED --------------------------------------

  ---- Begin: VA-MH NOSHOW PT EMERGENT CARE (FI(4)=RT(818)) ----------------
                  Finding Type: REMINDER TERM
      Use in Resolution Logic: OR
           Beginning Date/Time: FIEVAL(1,1,"DATE")

                    Mapped Findings: HF.MH NOSHOW PT EMERGENT CARE
             Health Factor Category: MH NOSHOW MANAGEMENT

  ---- End: VA-MH NOSHOW PT EMERGENT CARE ----------------------------------
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```
---- Begin: VA-MH NOSHOW SUPPORT CONTACT (FI(5)=RT(819)) -----------------
                Finding Type: REMINDER TERM
     Use in Resolution Logic: OR
         Beginning Date/Time: FIEVAL(1,1,"DATE")

                  Mapped Findings: HF.MH NOSHOW SUPPORT CONTACT
           Health Factor Category: MH NOSHOW MANAGEMENT

---- End: VA-MH NOSHOW SUPPORT CONTACT -----------------------------------

---- Begin: VA-MH NOSHOW PT CALLED 3X UNSUCCESSFUL (FI(6)=RT(821)) -------
                Finding Type: REMINDER TERM
         Beginning Date/Time: FIEVAL(1,1,"DATE")

                  Mapped Findings: HF.MH NOSHOW PT CALLED 3X
                                   UNSUCCESSFUL
           Health Factor Category: MH NOSHOW MANAGEMENT

---- End: VA-MH NOSHOW PT CALLED 3X UNSUCCESSFUL -------------------------

---- Begin: VA-MH NOSHOW PLAN DEVELOPED (FI(8)=RT(827)) ------------------
                Finding Type: REMINDER TERM
     Use in Resolution Logic: OR
         Beginning Date/Time: FIEVAL(1,1,"DATE")

                  Mapped Findings: HF.MH NOSHOW PLAN DEVELOPED
           Health Factor Category: MH NOSHOW MANAGEMENT

---- End: VA-MH NOSHOW PLAN DEVELOPED ------------------------------------

---- Begin: VA-MH NOSHOW INITIATE WELLNESS CHECK (FI(9)=RT(830)) ---------
                Finding Type: REMINDER TERM
     Use in Resolution Logic: OR
         Beginning Date/Time: FIEVAL(1,1,"DATE")

                  Mapped Findings: HF.MH NOSHOW INITIATE WELLNESS
                                   CHECK
           Health Factor Category: MH NOSHOW MANAGEMENT

---- End: VA-MH NOSHOW INITIATE WELLNESS CHECK ---------------------------

---- Begin: VA-MH NOSHOW OUTREACH LETTER (FI(10)=RT(832)) ----------------
                Finding Type: REMINDER TERM
         Beginning Date/Time: FIEVAL(1,1,"DATE")

                  Mapped Findings: HF.MH NOSHOW OUTREACH LETTER
           Health Factor Category: MH NOSHOW MANAGEMENT

---- End: VA-MH NOSHOW OUTREACH LETTER -----------------------------------

---- Begin: VA-MH NOSHOW OTHER OUTCOME (FI(11)=RT(831)) ------------------
                Finding Type: REMINDER TERM
     Use in Resolution Logic: OR
         Beginning Date/Time: FIEVAL(1,1,"DATE")

                  Mapped Findings: HF.MH NOSHOW OTHER OUTCOME
           Health Factor Category: MH NOSHOW MANAGEMENT

---- End: VA-MH NOSHOW OTHER OUTCOME -------------------------------------
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```
 ---- Begin: VA-MH SUICIDE ATTEMPTED (FI(12)=RT(833)) ---------------------
                 Finding Type: REMINDER TERM
     Use in Resolution Logic: OR
         Beginning Date/Time: FIEVAL(1,1,"DATE")

                  Mapped Findings: HF.MH SUICIDE ATTEMPTED
            Health Factor Category: MH NOSHOW MANAGEMENT

 ---- End: VA-MH SUICIDE ATTEMPTED ----------------------------------------

 ---- Begin: VA-MH SUICIDE COMPLETED (FI(13)=RT(834)) ---------------------
                 Finding Type: REMINDER TERM
     Use in Resolution Logic: OR
         Beginning Date/Time: FIEVAL(1,1,"DATE")

                  Mapped Findings: HF.MH SUICIDE COMPLETED
            Health Factor Category: MH NOSHOW MANAGEMENT

 ---- End: VA-MH SUICIDE COMPLETED ----------------------------------------

 ---- Begin: VA-MH APPT KEPT (FI(14)=RT(835)) -----------------------------
                 Finding Type: REMINDER TERM
     Use in Resolution Logic: OR
         Beginning Date/Time: FIEVAL(1,1,"DATE")-8H
            Ending Date/Time: FIEVAL(1,1,"DATE")+72H
            Occurrence Count: 4
                  Found Text: Patient kept a MH appointment within 72 hours
                               of the missed MH appointment, resolving the
                               reminder.

                  Mapped Findings: CF.VA-APPOINTMENTS FOR A PATIENT
                        Condition: I +V("OUTPATIENT ENCOUNTER
IEN")>0!+V("CHECK-OUT DATE/TIME")>0
         Use Status/Cond in Search: YES
        Computed Finding Parameter: FLDS:1,2,3,11,12^STATUS:R^LL:VA-MH NO SHOW
APPT CLINICS LL

 ---- End: VA-MH APPT KEPT ------------------------------------------------

 ---- Begin: VA-MH NOSHOW UNABLE TO REACH PT (FI(15)=RT(836)) -------------
                 Finding Type: REMINDER TERM
         Beginning Date/Time: FIEVAL(1,1,"DATE")

                  Mapped Findings: HF.MH NOSHOW UNABLE TO REACH PT
            Health Factor Category: MH NOSHOW MANAGEMENT

 ---- End: VA-MH NOSHOW UNABLE TO REACH PT --------------------------------

Function Findings:

 ---- Begin: FF(1)---------------------------------------------------------
              Function String: MRD(1)>MRD(3,4,5,8,9,11,12,13)
     Expanded Function String:
      MRD(VA-MH NOSHOW MISSED MH CLINIC APPTS)>MRD(VA-MH NOSHOW PT CONTACTED,
      VA-MH NOSHOW PT EMERGENT CARE,VA-MH NOSHOW SUPPORT CONTACT,
      VA-MH NOSHOW PLAN DEVELOPED,VA-MH NOSHOW INITIATE WELLNESS CHECK,
      VA-MH NOSHOW OTHER OUTCOME,VA-MH SUICIDE ATTEMPTED,
      VA-MH SUICIDE COMPLETED)
  Use in Patient Cohort Logic: AND
```

```
  ---- End: FF(1) ----------------------------------------------------------


General Patient Cohort Found Text:
    The patient has an active High Risk for Suicide Patient Record Flag and
    missed a MH appointment.

General Patient Cohort Not Found Text:
    This patient has no missed MH appointment pending follow-up.

Default PATIENT COHORT LOGIC to see if the Reminder applies to a patient:
 (SEX)&(AGE)&FI(1)&FI(2)&FF(1)

Expanded Patient Cohort Logic:
 (SEX)&(AGE)&FI(VA-MH NOSHOW MISSED MH CLINIC APPTS)&
 FI(VA-MH HIGH RISK FOR SUICIDE PRF)&FF(1)

Default RESOLUTION LOGIC defines findings that resolve the Reminder:
 FI(3)!FI(4)!FI(5)!FI(8)!FI(9)!FI(11)!FI(12)!FI(13)!FI(14)

Expanded Resolution Logic:
 FI(VA-MH NOSHOW PT CONTACTED)!FI(VA-MH NOSHOW PT EMERGENT CARE)!
 FI(VA-MH NOSHOW SUPPORT CONTACT)!FI(VA-MH NOSHOW PLAN DEVELOPED)!
 FI(VA-MH NOSHOW INITIATE WELLNESS CHECK)!FI(VA-MH NOSHOW OTHER OUTCOME)!
 FI(VA-MH SUICIDE ATTEMPTED)!FI(VA-MH SUICIDE COMPLETED)!
 FI(VA-MH APPT KEPT)


Web Sites:
Select REMINDER DEFINITION:
```

Add/Edit Reminder Definition

You can define a reminder through this option or through the Copy Reminder Definition.
To edit existing reminders, a sub-menu is displayed that allows selection of specific fields in the reminder definition for edit. Only local reminders can be edited.

```
Select Reminder Definition Management Option: Add/Edit Reminder Definition
Select Reminder Definition:  JG DIABETIC EYE EXAM     LOCAL

     Select one of the following:

          A         All reminder details
          G         General
          B         Baseline Frequency
          F         Findings
          FF        Function Findings
          L         Logic
          C         Custom date due
          D         Reminder Dialog
          W         Web Addresses

Select section to edit: a  All reminder details

NAME: JG DIABETIC EYE EXAM  Replace

PRINT NAME: Diabetic Eye Exam//

CLASS: LOCAL//
SPONSOR:
REVIEW DATE: MAY 3,2000//
USAGE: C//

RELATED REMINDER GUIDELINE:

INACTIVE FLAG:

RESCISSION DATE:
REMINDER DESCRIPTION:
Patients with the VA-DIABETES taxonomy should have a diabetic eye exam
done yearly.

  Edit? NO//

TECHNICAL DESCRIPTION:
This reminder is based on the Diabetic Eye Exam reminder from the New
York VAMC which was designed to meet the guidelines defined by the PACT
panel.  Additional input came from the Saginaw VAMC.

  Edit? NO//

PRIORITY:
Baseline Frequency
DO IN ADVANCE TIME FRAME: 1M//
SEX SPECIFIC:
IGNORE ON N/A:

Baseline frequency age range set
Select REMINDER FREQUENCY: 0Y//
  REMINDER FREQUENCY: 0Y//
  MINIMUM AGE:
  MAXIMUM AGE:
```

```
  AGE MATCH TEXT:
    No existing text
    Edit? NO//
  AGE NO MATCH TEXT:
    No existing text
    Edit? NO//
Select REMINDER FREQUENCY:

Reminder Definition Findings

Choose from:
EX      DIABETIC EYE EXAM
TX      VA-DIABETES

Select FINDING: ex.DIAB

     Searching for a EXAM, (pointed-to by FINDING ITEM)
  DIABETIC EYE EXAM
        ...OK? Yes//   (Yes)
FINDING ITEM: DIABETIC EYE EXAM//
MINIMUM AGE:
MAXIMUM AGE:
REMINDER FREQUENCY:
RANK FREQUENCY:
USE IN RESOLUTION LOGIC: OR//
USE IN PATIENT COHORT LOGIC:
BEGINNING DATE/TIME:
ENDING DATE/TIME:
OCCURRENCE COUNT:
CONDITION:

Function Findings
Select FUNCTION FINDING: ?
        You may enter a new FUNCTION FINDINGS, if you wish
        Enter the number of the function finding you are defining

Select FUNCTION FINDING:

Patient Cohort and Resolution Logic
CUSTOMIZED PATIENT COHORT LOGIC (OPTIONAL):
GENERAL PATIENT COHORT FOUND TEXT:
  No existing text
  Edit? NO//
GENERAL PATIENT COHORT NOT FOUND TEXT:
  No existing text
  Edit? NO//
CUSTOMIZED RESOLUTION LOGIC (OPTIONAL):
GENERAL RESOLUTION FOUND TEXT:
  No existing text
  Edit? NO//
GENERAL RESOLUTION NOT FOUND TEXT:
  No existing text
  Edit? NO//

Reminder Dialog
LINKED REMINDER DIALOG: JG DIABETIC EYE EXAM//

Web Addresses for Reminder Information
Select URL:

     Select one of the following:

          A         All reminder details
```

```
          G         General
          B         Baseline Frequency
          F         Findings
          FF        Function Findings
          L         Logic
          C         Custom date due
          D         Reminder Dialog
          W         Web Addresses

Select section to edit:
Input your edit comments.
Edit? NO//
```

Editing part of the reminder definition

This is an example of editing Logic.

```
Select Reminder Definition Management Option: RE  Add/Edit Reminder Definition
Select Reminder Definition: JG-DIABETIC EYE EXAM
     Select one of the following:
          A         All reminder details
          G         General
          B         Baseline Frequency
          F         Findings
          FF        Function Findings
          L         Logic
          C         Custom date due
          D         Reminder Dialog
          W         Web Addresses
Select section to edit: Logic

Patient Cohort and Resolution Logic
CUSTOMIZED PATIENT COHORT LOGIC (OPTIONAL): (SEX)&(AGE)&FI(SLC DIABETES)
GENERAL PATIENT COHORT FOUND TEXT:
  1> <Enter>
GENERAL PATIENT COHORT NOT FOUND TEXT:
  1><Enter>
CUSTOMIZED RESOLUTION LOGIC (OPTIONAL): FI(DIABETIC EYE EXAM)
GENERAL RESOLUTION FOUND TEXT:
  1><Enter>
GENERAL RESOLUTION NOT FOUND TEXT:
  1><Enter>
```

Copy Reminder Definition

This option allows you to copy an existing reminder definition into a new reminder definition.

```
Select Reminder Definition Management Option: copy Reminder Definition

Select the reminder item to copy:    VA-WH PAP SMEAR SCREENING     NATIONAL
PLEASE ENTER A UNIQUE NAME: JG-WH PAP SMEAR SCREENING

The original reminder VA-WH PAP SMEAR SCREENING has been copied into JG-WH PAP SMEAR
SCREENING.
Do you want to edit it now? YES

     Select one of the following:

          A         All reminder details
          G         General
          B         Baseline Frequency
          F         Findings
          FF        Function Findings
          L         Logic
          C         Custom date due
          D         Reminder Dialog
          W         Web Addresses

Select section to edit: General


PRINT NAME: VA-PAP Smear Screening  Replace VA With LOCAL
  Replace
   LOCAL-PAP Smear Screening

CLASS: LOCAL//
SPONSOR:
REVIEW DATE:
USAGE: CR//

RELATED REMINDER GUIDELINE:

INACTIVE FLAG:

REMINDER DESCRIPTION:. . .
       . . .
        * PCE CPT procedure code
        * Completed consult order for outside procedure

The following will resolve this reminder for one week:
        * PAP smear obtained at this encounter
        * Patient declined PAP smear
        * PAP smear deferred
        * Health Factor documenting an order related to PAP Smear
          screening was placed

  Edit? NO//


TECHNICAL DESCRIPTION:. . .
       . . .
    ordering options for the clinicians. Some sites have clinicians order
    a consult to a service that provides PAP smears.  If your site does
    this, copy the reminder dialog to a local reminder dialog, then
```

```
    add the local dialog element for the consult order to the reminder
    dialog so this practice can continue.

4.  If your site chooses not to send letters via the WH package, copy
    the appropriate national dialog components to local components and
    remove the findings related to WH notifications.

  Edit? NO//


PRIORITY:

     Select one of the following:

          A         All reminder details
          G         General
          B         Baseline Frequency
          F         Findings
          FF        Function Findings
          L         Logic
          C         Custom date due
          D         Reminder Dialog
          W         Web Addresses

Select section to edit:
```

Reminder Edit History

You can display a reminder definition's edit history with this option.

```
Select Reminder Definition Management Option: RH  Reminder Edit History
Maximum number of occurrences to display :  (2-99): 3//

Select Reminder Definition:    TEST     LOCAL

Edit History for reminder AGP TEST:

  Edit date: May 12, 2010@08:30:49    Edit by: CRUSER,TWO
  Edit Comments: Exchange Install

Select Reminder Definition: VA-TERATOGENIC MEDICATIONS ORDER CHECK
NATIONAL

Edit History for reminder VA-TERATOGENIC MEDICATIONS ORDER CHECK:

  Edit date: Oct 27, 2011@22:05:53    Edit by: CRDEVELOPER,TWO
  Edit Comments: Exchange Install

Select Reminder Definition:
```

Integrity Check Options

Two new options were added to the reminder definition management menu: Integrity Check Selected and Integrity Check All. These can be used to check the integrity of selected or all reminder definitions. The integrity check will also be made automatically whenever a reminder definition has been edited. Fatal errors (F) that will prevent the reminder from working properly and warnings (W) will be given.
The following checks are made:

F – Each finding is checked to make sure it exists

F – If either the Beginning Date/Time or Ending Date/Time contains FIEVAL(M,"DATE") or FIEVAL(M,N,"DATE"), the definition is checked to make sure it contains finding M, and if an occurrence is used, the Occurrence Count of finding M is checked to make sure it is greater than or equal to N.

F- Function findings functions of the form FUNCTION(M) and FUNCTION(M,N) are checked to make sure finding M is in the definition and the Occurrence Count of finding M is greater than or equal to N.

F – If a Custom Date Due is defined, it is checked to make sure that the findings used in the Custom Date Due all exist in the definition.

F – Patient Cohort Logic and Resolution Logic are checked to make sure that the findings used in the logic all exist in the definition.

F – Logic strings are checked to make sure their syntax is valid.

F – The definition contains Resolution Logic but does not have a baseline frequency or any findings that will set a frequency.

W – The Usage field contains a "P" and it is not a national reminder

W – The definition contains Resolution Logic but does not have a baseline frequency. It does have findings that will set a frequency. This could be a problem if all findings that set frequency are false.

NOTE: PXRM*2*26 added new checks:

- When the Usage is 'L', any computed findings that are not list-type are flagged as fatal errors.
- Terms that are used as findings in the definition will now be checked to make sure all the mapped findings exist and mapped computed findings are the proper type.

Integrity Check Selected

This option lets the user select a reminder definition for integrity checking.

```
Select Reminder Definition Management Option: ICS  Integrity Check Selected

Select Reminder Definition:    VA-TERATOGENIC MEDICATIONS ORDER CHECK
NATIONAL

Warning, there is no Resolution logic.
No fatal errors were found.
```

Integrity Check All

This option runs the integrity check for all reminder definitions on the system. It is good practice to run this on a regular basis such as monthly or quarterly.

```
Select Reminder Definition Management Option: ica  Integrity Check All

Check the integrity of all reminder definitions.
DEVICE: HOME//   HOME

Checking 01-DIAB PTS (5Y) W/O DIAB EXAM (1Y) (IEN=256)
Warning, there is no Resolution logic.
No fatal errors were found.

Checking 37-PC-PTSD SCREENING (IEN=331)
No fatal errors were found.

Checking 691 PNT EYE CLINIC (IEN=262)
Warning, there is no Resolution logic.
No fatal errors were found.

Checking AAA SCREENING (IEN=360)
No fatal errors were found.

Checking AGETEST (IEN=660004)
No fatal errors were found.

Checking AGP ABNORMAL WH STUFF (IEN=170)
Finding number 10 uses computed finding VA-PROGRESS NOTE. This computed
finding
will not work properly unless the Computed Finding Parameter is defined and
in this case it is not.
Finding number 13 uses computed finding VA-ACTIVE PATIENT RECORD FLAGS. This
computed finding will not work properly unless the Computed Finding Parameter
is defined and in this case it is not.

Checking AGP APPOINTMENT (IEN=419)
Finding number 1 uses computed finding VA-APPOINTMENTS FOR A PATIENT. This
computed finding will not work properly unless the Computed Finding Parameter
is defined and in this case it is not.

Etc.
```

Reminder Definition Fields

Name	Description
NAME	This field is the name of a clinical reminder definition. Nationally distributed reminder definition names are prefixed with "VA-". The VA-prefixed reminder definitions cannot be altered by a site, but may be inactivated so they will not be selectable.
PRINT NAME	This is the name that is used when the results of a reminder evaluation are displayed.
CLASS	This is the class of definition. National definitions cannot be edited or created by sites. N NATIONAL V VISN L LOCAL
SPONSOR	This is the name of a group or organization that sponsors the reminder.
REVIEW DATE	The review date is used to determine when the definition should be reviewed to verify that it is current with the latest standards and guidelines.
USAGE	This field allows the reminder creator to specify how the reminder can be used. This is a free text field that can contain any combination of the following characters: A - Action C - CPRS (the reminder can be used in the CPRS GUI) L – Reminder Patient List O – Reminder Order Checks P – Patient; patients can view “My Health” reminders; the wildcard (*) excludes P R - Reminder Reports (the reminder can be used in reminder reports) X - Reminder Extracts (the reminder is used for data extraction) * - All of the above, except L, O, and P This field must contain C or * if the reminder is to be selected in CPRS. The L or the O values will override all other values. The A will not allow a reminder to be used on the CPRS coversheet unless the value of C is set also in the usage field. NOTE: To enter more than one code, type the codes with no spaces or punctuation between them.
INACTIVE FLAG	Reminders that are inactive will not be evaluated. The Clinical Maintenance component will return a message stating the reminder is inactive and the date when it was made inactive. Other applications that use reminders may use this flag to determine if a reminder can be selected for inclusion.
REMINDER DESCRIPTION	This is a description of the clinical purpose of the reminder.
TECHNICAL DESCRIPTION	This is a description of how the reminder works.
PRIORITY	The reminder priority is used by the CPRS GUI for sorting purposes.
DO IN ADVANCE TIME FRAME	This field is used to let a reminder become due earlier than the date determined by adding the frequency to the date when the reminder was last resolved. For example, if the frequency is 1Y (one year) and the DO IN ADVANCE TIME FRAME is 1M (one month) the reminder would have a status of "DUE SOON" 11 months after it was last resolved. After one year has passed the STATUS would be "DUE."

SEX SPECIFIC	This field is used to make a reminder sex-specific. If an "F" is entered, the reminder applies only to females. If an "M" is entered, the reminder applies only to males. If it is left blank, then the reminder is applicable to either sex.
IGNORE ON N/A	This field allows the user to stop reminders from being printed in the Clinical Maintenance component if the reminder is N/A. This is a free- text field that can contain any combination of the following codes: Code Description A N/A due to not meeting age criteria. I N/A due to inactive reminder. R N/A due to the wrong race. S N/A due to the wrong sex. * N/A for any reason.
FREQUENCY AGE RANGE SET	The Frequency Age Range set is a multiple that allows you to define different frequencies for different non-overlapping age ranges. The fields in this multiple are: REMINDER FREQUENCY: This is the frequency to give the reminder. It is input as nD, nM, or nY, where D stands for days, M for months, Y for years, and n is a number. Thus, for a reminder that is to be given once a year, the values 365D, 12M, or 1Y would all work. If a reminder is only to be given once in a lifetime, use a frequency of 99Y. MINIMUM AGE: This field specifies the minimum age for defining an age range associated with a frequency. Leave it blank if there is no minimum age. MAXIMUM AGE: This field specifies the maximum age for defining an age range associated with a frequency. Leave it blank if there is no maximum age. AGE MATCH TEXT: This text will be displayed in the Clinical Maintenance component if the patient's age falls in the age range. AGE NO MATCH TEXT: This text will be displayed in the Clinical Maintenance component if the patient's age does not fall in the age range.
FINDING	The Findings multiple is documented later in this chapter, page 130.
FUNCTION FINDINGS	Function Findings are new in version 2.0. They are called Function Findings because they do a computation on the results from regular findings. Function Findings can be used in both patient cohort logic and resolution logic. The general form of the function string is: FUNCTION(finding list) operator FUNCTION(finding list) where FUNCTION is one of the available functions and finding list is a comma-separated list of regular finding numbers. See page 137.
CUSTOMIZED PATIENT COHORT LOGIC	This field may be used to define a customized Boolean logic string that defines how and what findings in a reminder are used to determine if the reminder applies to the patient. The customized logic is used when the USE IN PATIENT COHORT LOGIC fields associated with each finding do not provide the ability to create the required logic string. (e.g., grouping various findings within parenthesis) Tip: Before defining the Boolean string, review the default logic defined in the DEFAULT PATIENT COHORT LOGIC field using the reminder inquiry option.
GENERAL PATIENT COHORT FOUND TEXT	This text is displayed in the Clinical Maintenance component if the patient is in the cohort and the reminder is applicable.

GENERAL PATIENT COHORT NOT FOUND TEXT	This text will be displayed in the Clinical Maintenance component if the patient is not in the cohort and the reminder is not applicable.
CUSTOMIZED RESOLUTION LOGIC	This field may be used to define a customized Boolean logic string that defines how and what reminder findings are used to determine if the reminder has been resolved. The customized logic is used when the USE IN RESOLUTION LOGIC fields associated with each finding do not provide the ability to create the required logic string. (e.g., grouping various findings within parenthesis). Tip: Before defining the Boolean string, review the default logic defined in the DEFAULT RESOLUTION LOGIC field using the reminder inquiry option.
GENERAL RESOLUTION FOUND TEXT	This text will be displayed in the Clinical Maintenance component if the reminder has been resolved.
GENERAL RESOLUTION NOT FOUND TEXT	This text will be displayed in the Clinical Maintenance component if the reminder has not been resolved.
CUSTOM DATE DUE	When a CUSTOM DATE DUE is defined, it takes precedence over the standard date due calculation. This means the normal date due calculation that is based on the dates of the resolution findings and the final frequency is not done. Only the dates of the findings and the frequencies specified in the Custom Date Due string are used. Any finding that is in the reminder definition can be used in the Custom Date Due string; it is not limited to those defined as resolution findings. The final age range will still be used to determine if the patient is in the cohort; however, the frequency associated with this age range is not used. Only the frequencies specified in the Custom Date Due String are used. They are added to the date of the associated finding to determine the dates used by the MIN_DATE, MAX_DATE, or RANK_DATE functions.
LINKED REMINDER DIALOG	This is the Reminder Dialog that will be used when the reminder is processed in the CPRS GUI.
WEB SITES	This multiple contains Web site(s) for information related to this reminder. When processing a reminder in the CPRS GUI you will be able to launch a browser and visit the Web site.
Select URL	This is the URL for the web site.
WEB SITE TITLE	This is the web site title that is used by the CPRS GUI. It will appear after a right-click, allowing you to select the web site.
WEB SITE DESCRIPTION	This field contains a description of the Web site.

Reminder Findings

Findings are types of data elements in VistA that determine a reminder's status. Each finding is evaluated when a reminder is evaluated for a patient. Findings are either True (1) or False (0)

Findings have three functions in reminder definitions:

- To select the applicable patient population (Patient Cohort Logic)
- To resolve the reminder (Resolution Logic)
- To provide information

Findings Types

Finding Type	Source File Number	Abbreviation
Drug	50	DR
Education Topic	9999999.09	ED
Exam	9999999.15	EX
Health Factor	9999999.64	HF
Immunization	9999999.14	IM
Laboratory Test	60	LT
MH Tests and Surveys	601.71	MH
Orderable Item	101.43	OI
Radiology Procedure	71	RP
Reminder Computed Finding	811.4	CF
Reminder Taxonomy	811.2	TX
Reminder Term	811.5	RT
Skin Test	9999999.28	ST
VA Drug Class	50.605	DC
VA Generic	50.6	DG
Vital Measurement	120.51	VM
Reminder Location List	810.9	RL

IMPORTANT: There is a problem with the scoring of some Mental Health instruments, see the discussion and Important Note on page 280.

TIP: When editing findings in a reminder definition or term, you can save time by giving an exact specification of the name of the finding by using the abbreviation. This tells FileMan exactly where to find it and avoids long searches.

Example
For finding: VA-DIABETES taxonomy
Enter: TX.VA-DIABETES

Hint: To add a second occurrence of a finding, enclose it in quotes, i.e., "Prefix.Name"

Drug – Drugs are found in the DRUG file #50. Results for individual patients can be found in the Pharmacy Patient file #55 (inpatient), the Prescription file #52 (outpatient), or for non-VA Meds which are stored in the Pharmacy Patient file. The parameter RXTYPE can be used to control which files are searched for patient results; see the description of RXTYPE below.

Each type of drug has an associated start date and stop date. For inpatient drugs, these are the START DATE and the STOP DATE. For outpatient drugs, the start date is the RELEASE DATE and the stop date is the RELEASE DATE + DAYS SUPPLY. For non-VA Meds, the start date is the START DATE or, if there is no START DATE, it is the DOCUMENTED DATE and the stop date is the DISCONTINUED DATE if it exists; otherwise it is today's date.

Education Topic – Education topics are found in the EDUCATION TOPICS file #9999999.09. Results for individual patients are found in the V PATIENT ED file #9000010.16. The default value used for the CONDITION is LEVEL OF UNDERSTANDING. Possible values are:

- '1' FOR POOR;
- '2' FOR FAIR;
- '3' FOR GOOD;
- '4' FOR GROUP-NO ASSESSMENT;
- '5' FOR REFUSED

If you want to allow only those educations where the LEVEL OF UNDERSTANDING is GOOD to be true, the CONDITION field would be I V=3.

Exam – Exams are found in the EXAM file #9999999.15. Results for individual patients are found in the V EXAM file #9000010.13. The default value used for the CONDITION is the RESULT. Possible values are:

- 'A' FOR ABNORMAL
- 'N' FOR NORMAL

If you want only those exams where the RESULT is NORMAL to be true, the CONDITION field would be I V="N".

Health Factor – Health factors are found in the HEALTH FACTOR file #9999999.64. Results for individual patients are found in the V HEALTH FACTOR file #9000010.23. The default value used for the CONDITION is LEVEL/SEVERITY. Possible values are:

- 'M' FOR MINIMAL
- 'MO' FOR MODERATE
- 'H' FOR HEAVY/SEVERE

If you want only those health factors whose LEVEL/SEVERITY is HEAVY/SEVERE to be true, then the CONDITION field would be I V="H".

Health Factors have a field called ENTRY TYPE. There are two possible values for this field: category and factor. Each factor health factor must belong to a category. Categories provide a way to group health factors. Typical examples of categories are alcohol use, breast cancer, and tobacco. When reminders are evaluated, if there is more than one health factor from a category in the definition, only the most recent health factor in the category can be true. This feature can be used to make a reminder applicable or not applicable for a patient.

Example:
A reminder for smoking cessation education provides a good example. A health factor of current smoker is used in the PATIENT COHORT LOGIC with the AND Boolean operator. A second health factor of non-smoker is included as an information finding. A patient comes in and is a current smoker so they are given the current smoker health factor; this makes the reminder applicable. The patient has the smoking cessation education; six months later he or she has quit, so is given the non-smoker health factor. Since

non-smoker is more recent than current smoker, the reminder is not applicable. Another six months passes and the patient is smoking again, so he is given the current smoker health factor, which makes the reminder applicable again. All the health factors are still in the patient's record, so you can see the progression of their smoker non-smoker status.

When health factors are mapped to a Term, the categorization is done only for the health factors in the Term. The Term factors are not combined with health factors in the definition for the categorization.

The field WITHIN CATEGORY RANK will let you change this categorization behavior. See that section, page 132, for a description of how to use it.

Only those Health Factors with an ENTRY TYPE of factor can be used in reminder definitions. However, when you create a packed reminder definition using the reminder Exchange Utility, each factor health factor and its category health factor are included. This is done so that a receiving site can install the factor health factors used in the reminder definition. Factor health factors cannot be installed if their category health factor does not already exist. Category health factors should be installed before factor health factors.

Immunization – Immunizations are found in the IMMUNIZATION file #9999999.14. Results for individual patients are found in the V IMMUNIZATION file #9000010.11. The default value used for the CONDITION is the SERIES. Possible values are:

- 'P' FOR PARTIALLY COMPLETE
- 'C' FOR COMPLETE
- 'B' FOR BOOSTER
- '1' FOR SERIES 1
- '2' FOR SERIES 2
- '3' FOR SERIES 3
- '4' FOR SERIES 4
- '5' FOR SERIES 5
- '6' FOR SERIES 6
- '7' FOR SERIES 7
- '8' FOR SERIES 8

Laboratory Test – Laboratory tests are found in the LABORATORY TEST file #60. Only individual tests may be selected as a reminder finding; lab panels cannot be used. Test results are found in the LAB DATA file #63. The default value for the CONDITION is the result of the lab test. The type of result, text or numerical, the normal range of values, and the units will be a function of the particular test, so you should be aware of what they are before you set up a Condition.

Orderable Item –Orderable Items are found in the ORDERABLE ITEMS file #101.43. Results for a patient are found in the ORDER file #100. An order has an associated Start Date and in most – but not all – cases, an associated Stop Date. If the Stop Date does not exist, then reminder evaluation date is used as the Stop Date. By default, Start Date is used as the date of an orderable item finding. If you want the date of the finding to be the Stop Date, set the finding modifier to NO. See the description of the USE START DATE finding modifier to understand how date ranges are used in the finding search.

You can use a STATUS LIST for orderable item findings. If no STATUS LIST is defined, then only orders with a status of active or pending can be true. The default value for the CONDITION is the order status.

Possible order statuses are found in the ORDER STATUS file #100.01:

DISCONTINUED	COMPLETE	HOLD
FLAGGED	PENDING	ACTIVE
EXPIRED	SCHEDULED	PARTIAL RESULTS
DELAYED	UNRELEASED	RENEWED
DISCONTINUED/EDIT	CANCELLED	LAPSED
NO STATUS		

In Clinical Reminders V.1.5, an OE/RR API was used to obtain order information and it always returned the order status in lower-case. Clinical Reminders V.2.0 uses the Clinical Reminders Index to determine if a patient has a particular orderable item and a new API to obtain the actual order data. This new API returns the order status in all upper-case.

MH Tests and Surveys – This file defines the interviews, surveys and tests available in the Mental Health Assistant. Attributes of the instruments include authoring credits, target populations, normative samples and copyright information. Actions available including privileging, reporting of full item content and transmission to the Mental Health National Database are also specified.

Entries may be made through the provided Mental Health Authoring software.
Direct entry through FileMan or the programmer prompt is prohibited.

Mental Health Instruments are found in the MH INSTRUMENT file #601. Results for a patient are found in the PSYCH INSTRUMENT PATIENT file #601.2. The default value for the CONDITION is the result returned by the Mental Health test. The normal range of values and the units will be a function of the particular test. When the user enters answers to a mental health test, the answers are automatically passed to the Mental Health package to calculate a result, which may be referenced as SCORE. For example, CAGE test has a SCORE from 1-4 and GAF has a SCORE from 1-99.

For most Mental Health tests, progress note text can be automatically generated that summarizes or includes the results (SCORE). Default text is distributed in the REMINDER DIALOG file # 801.41 for sites to use for each Mental Health test processed in the reminder resolution process.

Because different Mental Health Score could have possible results, reminder dialogs use Result Group for the score evaluation. A result group can contain multiple result elements. Based on the Mental Health test score, the correct Result element Text is displayed in the progress note. To modify the default text, sites would need to copy both the Result Element and the Result group, The progress note text is contained in the result element. The modified result element must be added to the local result group alone, with any other result element to be evaluated against when the Mental Health test is processed in the Reminder Dialog. Once the result group is completed, it must be added to the Dialog element that contains the Mental Health dialog. Sites would add the new Result group to this field: RESULT GROUP/ELEMENT.

Reminder Computed Findings – Reminder Computed Findings are found in the COMPUTED FINDINGS file #811.4. Computed findings provide the ability to create custom findings for situations when none of the standard findings will work.
See the chapter on Computed Findings, page 34, for more details.

Reminder Taxonomy – Reminder taxonomies are found in the REMINDER TAXONOMY file #811.2. Reminder taxonomies provide a convenient way to group coded values and give them a name. For example, the VA-DIABETES taxonomy contains a list of diabetes diagnoses.

A taxonomy can contain ICD0, ICD9, and CPT codes. The codes are entered as a low value and a high value. These pairs are automatically expanded into a set that contains the low value, the high value, and every code in between. Clinical Reminders searches in a number of places for code matches. For ICD9 codes, it looks in V POV, Problem List, and PTF. For CPT codes, it looks in V CPT and Radiology. For ICD0 codes, it looks in PTF.

There are two dates associated with ICD9 diagnoses found in Problem List, the date entered and the date last modified. The PRIORITY field is used to determine if a problem is chronic or acute. If the problem is chronic, Clinical Reminders will use today's date in its date calculations; otherwise it will use the date last modified. The default is to only use active problems unless the field USE INACTIVE PROBLEMS is yes or the STATUS LIST contains the status of inactive.

The following are fields that can be specified for each taxonomy finding:

USE INACTIVE PROBLEMS – Normally, Problem List problems that are marked as inactive are ignored during the reminder evaluation. If you want them to be used, give this field a value of "YES."

PATIENT DATA SOURCE specifies where to search for patient data. It is a string of comma-separated key words. The keywords and their meanings are:

KEYWORD	MEANING
IN	Search in the inpatient data file PTF
INDXLS	Search in PTF for DXLS only
INPR	Search in PTF for principal diagnosis only
EN	Search encounter (PCE) data
ENPR	Search PCE data for primary diagnosis only
PL	Search for Problem List diagnosis only
RA	Search in Radiology for radiology CPT codes.

You may use any combination of these keywords. An example is EN,RA. This would cause the search to be made in V CPT and Radiology for CPT codes. If PATIENT DATA SOURCE is left blank, the search is made in all the possible sources.

See the chapter that describes Reminder Taxonomy options on page 158.

Reminder Term – Reminder Terms are found in file #811.5. Reminder Terms provide a way to define a general concept, for example diabetes diagnosis, which can be mapped to specific findings. A Reminder Term must be mapped to at least one finding before it can be used for reminder evaluation. A Reminder Term can be mapped to more than one finding. Reminder Terms can be mapped to any of the findings, except Reminder Terms, that can be used in a Reminder Definition.

Each node of the findings multiple in a term has the following fields: BEGINNING DATE/TIME, ENDING DATE/TIME, USE INACTIVE PROBLEMS, WITHIN CATEGORY RANK, CONDITION, MH SCALE, and RXTYPE. These fields work exactly the same as the fields with the same names in the findings multiple of the reminder definition. If one of these fields is specified at the definition findings level, where the term is the finding, then each finding in the term will inherit the value. If the field is specified at the finding level of the term, then it will take precedence and replace what has been specified at the definition level.

See the chapter in this manual that describes Reminder Term options on page 198.

Skin Test – Skin Tests are found in the SKIN TEST file #9999999.28. Results for individual patients are found in the V SKIN TEST file #9000010.12. The default value used for CONDITION is RESULTS. Possible values are:

- 'P' FOR POSITIVE
- 'N' FOR NEGATIVE
- 'D' FOR DOUBTFUL
- 'O' FOR NO TAKE

If you want only those findings to be true for skin tests whose results are positive, the CONDITION would be I V="P".

VA Drug Class – VA Drug Class entries are found in the VA DRUG CLASS file #50.605. An entry from the VA Drug Class file points to one or more entries in the Drug file. Each of the corresponding entries in the Drug file is processed as described in the Drug section. The information displayed in the Clinical Maintenance component includes the VA Drug Class and the particular drug that was found.

VA Generic – VA Generic entries are found in the VA GENERIC file #50.6. (This was formerly called the National Drug file.) An entry from the VA Generic file points to one or more entries in the Drug file.

Each of the corresponding entries in the Drug file is processed as described in the Drug section. The information displayed in the Clinical Maintenance component includes the VA Generic name and the particular drug that was found.

Vital Measurement – Vital Measurement types are found in the GMRV VITAL TYPE file #120.51. Results for individual patients are found in the GMRV VITAL MEASUREMENT file #120.5. The default value used for the CONDITION is RATE, which is the value of the measurement. If you are going to use a CONDITION with this finding, you need to be familiar with how the Vitals package returns the Rate data. For example, if the vital sign is weight, Rate will be a number that is the weight in pounds. If the vital sign is blood pressure, then Rate can have two possible forms: systolic/diastolic or systolic/intermediate/diastolic. If your Condition is to be based only on systolic pressure, then it is straightforward; you always check the first piece. For example, if you want the finding to be true only for systolic pressures greater than 140, then the Condition would be I $P(V,"/",1)>140. Checking the diastolic pressure is not so straightforward because there is no way to know in advance whether the Rate will be returned as systolic/diastolic or systolic/intermediate/diastolic. Insuring that you are always checking the diastolic requires the complex Condition statement I $S($L(V,”/”)=3:$P(V,”/”,3),1:$P(V,”/”,2)).
NOTE: Blood pressure is the only Vital measurement for which the Rate can have two possible forms.

PXRM*2*18 Update:
If you are using $P in a Condition, we recommend that you replace it with the appropriate CSUBs. Several national definitions and terms were originally distributed with Conditions using $P; as part of this patch, they will be updated to use the SYSTOLIC and DIASTOLIC CSUBs.

SYSTOLIC/MEAN/DIASTOLIC and use of CSUB instead of $P: The Clin2 support team pointed out that the value for blood pressure can come back in either of the following forms: SYSTOLIC/DIASTOLIC or SYSTOLIC/MEAN/DIASTOLIC (the second form is not very common). If the second form comes back, then the DIASTOLIC CSUB would have the value for mean, and if $P was used in a Condition, it would also be the mean. The code was changed so that the DIASTOLIC CSUB will always have the correct value.

Reminder Location List – Reminder Location List entries are found in the REMINDER LOCATION LIST file #810.9. This file contains lists of stop codes and/or hospital locations for use as a reminder finding. Results for individual patients are found by looking at the patient's Visit file entries and matching the location associated with a Visit with a location in the location list.
See the chapter in this manual, page 205, that describes Reminder Location List options.

Finding Modifier Fields

There are a number of fields in the Findings multiple that modify how each Finding is used in the reminder evaluation process. Each of these fields is described in detail below. Some fields apply only to specific finding types and you will only be prompted for them if they apply to the selected finding item.

- FINDING ITEM
- REMINDER FREQUENCY
- MINIMUM AGE
- MAXIMUM AGE
- RANK FREQUENCY
- USE IN RESOLUTION LOGIC
- USE IN PATIENT COHORT LOGIC
- BEGINNING DATE/TIME
- ENDING DATE/TIME
- OCCURRENCE COUNT
- USE INACTIVE PROBLEMS (applies only to taxonomies that search Problem List)
- WITHIN CATEGORY RANK (applies only to health factors)
- MH SCALE (applies only to mental health instruments)
- RXTYPE (applies only to drug findings)
- CONDITION
- CONDITION CASE SENSITIVE
- USE STATUS/COND IN SEARCH
- FOUND TEXT
- NOT FOUND TEXT
- STATUS LIST (applies only to findings that have a status)
- COMPUTED FINDING PARAMETER (applies only to computed findings)

Finding Modifiers Description

REMINDER FREQUENCY, MINIMUM AGE, and MAXIMUM AGE – These are treated as a set that we can call a frequency age range set. If a finding is true, then the frequency age range set will override the baseline frequency age range set. This is used when a finding should override the baseline. For example, a patient with a particular health factor needs to get the reminder at an earlier age than normal and it should be done more frequently. The values these fields can take are exactly the same as those that set the baseline frequency and age range.

RANK FREQUENCY – If more than one finding that has a frequency age range set is true, then how do we decide which frequency age range set to use? That is the purpose of the RANK FREQUENCY. The frequency age range set from the finding with the highest RANK FREQUENCY will be used. In the absence of RANK FREQUENCY, the frequency age range set that will cause the reminder to be given the most often will be used. RANK FREQUENCY is a numerical value with 1 being the highest.

USE IN RESOLUTION LOGIC – This field specifies how a finding is used in resolving a reminder. It is a set of codes that can contain the Mumps Boolean operators and their negations. The operators are ! (OR), & (AND), !' (OR NOT), and &' (AND NOT). If a particular finding must be true in order for the reminder to be resolved, then you would use an AND in this field. If the finding is one of a number of findings that will resolve a reminder, then you would use an OR. For those cases where this mechanism does not allow you to describe the exact logical combination of findings you require, you can input the logic directly in the CUSTOM RESOLUTION LOGIC field.

USE IN PATIENT COHORT LOGIC – This field specifies how a finding is used in selecting the applicable patient population; i.e., the patient cohort. It is a set of codes that works exactly like the USE IN RESOLUTION LOGIC. For those cases where this mechanism does not allow you to describe the exact logical combination of findings you require, you can input the logic directly in the CUSTOM PATIENT COHORT LOGIC field.

BEGINNING DATE/TIME – This is the beginning date/time to search for findings.
1. The date/time cannot be in the future.
2. The date/time can be any of the acceptable FileMan date/time formats or abbreviations.
3. In addition, you may use the abbreviations T-NY or NOW-NY, where N is an integer and Y stands for years.
4. If this is null, then the beginning date/time will correspond with the date/time of the oldest entry.

See the FileMan Getting Started Manual to learn about acceptable FileMan date/time formats and abbreviations.

ENDING DATE/TIME – This is the ending date/time to search for findings.
1. The date/time cannot be before the beginning date/time.
2. The date/time can be any of the acceptable FileMan date/time formats or abbreviations.
3. In addition you may use the abbreviations T-NY or NOW-NY, where N is an integer and Y stands for years.
4. If this is null then the ending date/time will be the end of today.

When date range searching is done, a finding with a single date is considered to be in the date range if the date of the finding falls anywhere in the date range defined by the BEGINNING DATE/TIME and ENDING DATE/TIME. The criteria for findings with a start date and a stop date are different. In this case, if there is any overlap between the date range defined by the start date and stop date and the date range defined by the BEGINNING DATE/TIME and the ENDING DATE/TIME, the finding is considered to be in the date range.

* Changes to Beginning and Ending Date/Time made in Patch 18

New functionality was added to allow using the date of one finding to set the date range of another finding. The syntax for the date of a finding is FIEVAL(M,"DATE") or FIEVAL(M,N,"DATE"), where M is the finding number and N is the occurrence. This means you can now use dates like FIEVAL(3,"DATE")-3W as the Beginning or Ending Date/Time of another finding. The global reminder dates PXRMDOB and PXRMLAD can also be used. Note that if FIEVAL(M) is false or PXRMLAD does not exist, then the finding whose date range depends on the date of finding M will be set to false.

In conjunction with allowing FIEVAL(M,N,"DATE") to be used in Beginning Date/Time or Ending Date/Time, additional frequency units were added. The allowed values are now: H (hours), D (days),

W (weeks), M (months), and Y (years). This change applies everywhere that a frequency can be used, including Beginning Date/Time, Ending Date/Time, Reminder Frequency in the Baseline Age Findings multiple, Findings multiple, Function Findings multiple, and Custom Date Due. Custom Date Due will now allow both "+" and "-"; in the past it only allowed "+".

OCCURRENCE COUNT - This is the maximum number of occurrences of the finding in the date range to return. If the OCCURRENCE COUNT is input as a positive number, N, up to N of the most recent occurrences will be returned and the finding will take the value of the most recent occurrence. If the OCCURRENCE COUNT is input as a negative number then this behavior is reversed. Up to N of the oldest occurrences will be returned and the finding will take the value of the oldest occurrence in the list.
USE INACTIVE PROBLEMS – This field applies only to taxonomies containing ICD 9 diagnoses. If the diagnosis is found in the PROBLEM LIST and it is inactive, then the finding cannot be true unless this field is set to YES.

WITHIN CATEGORY RANK – This field applies only to health factors. In order to understand how it works, you need to understand how health factors work in the reminder evaluation process. The default behavior is that all the health factor findings in the definition are grouped by category and only the most recent health factor in a category can be true. A problem can arise if there are two or more health factors in the same category and they have exactly the same date and time. (This can happen if multiple health factors are given during the same encounter.) If the date/times are the same, the health factor with the highest WITHIN CATEGORY RANK will be the true one. This is a numerical value like RANK FREQUENCY with 1 being the highest rank.

In some cases, you may want to have a health factor treated as an individual finding, suppressing the category behavior. To do this, use the special value of 0 for the WITHIN CATEGORY RANK.

MH SCALE – This is applicable only to Mental Health Instrument findings. The scale is used to score the results. Typing a "?" at the MH SCALE prompt will list all the scales that are applicable for the selected mental health test. Select the scale to use by typing its number. If no scale is selected then the first scale for the test will be used.

Patch 6 Changes:
To aid sites in making the conversion of Clinical Reminders to use MHA3, the post-init will convert all existing mental health findings to their MHA3 equivalent and MH SCALE values to the appropriate MHA3 scale. If the field MH SCALE is null, then the score for the first scale returned by MHA3 will be displayed in the Clinical Maintenance output.

When MH SCALE has a value, it will set the value of V for use in a Condition. In other words, V will be the score according to the scale stored in MH SCALE. Another change is that score is now returned as raw score^transformed score. Thus, if your Condition uses the raw score, you will use +V or $P(V,U,1) and if it uses the transformed score, use $P(V,U,2). The post-init will convert V to +V in all existing national Conditions for MH findings.

The entire set of scores has been made into a CSUB item in patch PXRM*2*6, so that any score or combination of scores can be used in a Condition. For example, the MH Test AUIR has scales 279 through 329; if you want to use the raw score for scale 300, then you can use +V("S",300).

USE START DATE – Some findings such as drugs and orderable items have a Start Date and a Stop Date. When these findings are used in the Resolution Logic, determination of a resolution date requires assigning a single date to these types of findings. For drug findings this defaults to the Stop Date while for orderable items it defaults to the Start Date. For findings that have a date range, the finding will be

true if the date range defined by the Start Date to the date of the finding overlaps with the date range defined by the Beginning Date/Time to Ending Date/Time. If USE START DATE is not defined, the date of the finding can be either the Start Date or the Stop Date, as described above. If the date of the finding is set to be the Start Date then the date range for the finding is just Start Date to Start Date.

INCLUDE VISIT DATA – This applies only to the data in the PCE V-files. It includes: V CPT, V EXAM, V HEALTH FACTORS, V IMMUNIZATION, V PATIENT ED, V POV, and V SKIN TEST. When this is set to YES, additional data from the corresponding Visit File entry is included in the list of CSUB data. The best way to determine what additional data is included is by examining the CSUB list shown in reminder test. Adding this data to the CSUB list requires additional computing overhead so set this value to YES only when the additional data is needed; accordingly the default is NO.

RXTYPE - RXTYPE is applicable only to drug findings and controls the search for medications. The possible RXTYPEs are:

- A - all
- I - inpatient
- N - non-VA meds
- O - outpatient

You may use any combination of the above in a comma-separated list. For example, I,N would search for inpatient medications and non-VA meds.

The default is to search for all possible types of medications. So a blank RXTYPE is equivalent to A.

CONDITION – Many types of findings have associated values. For example, for Education Topics, the value is Level of Understanding; for Vital Measurement, it is the value of the measurement. More specific information can be found in the detailed section for each finding type. The CONDITION field can be used to make the finding true or false depending on the value of the finding. The contents of this field are a single line of Mumps code that should evaluate to true or false. If the code evaluates to true, then the finding is true; if it evaluates to false, then the finding is false.

The default value for each finding type is given in the following table.

Finding Type	Value
Drug	None
Education Topic	Level of Understanding
Exam	Result
Health Factor	Level/severity
Immunization	Series
Laboratory Test	Value
Mental Health Instrument	Raw score
Orderable Item	Status
Radiology Procedure	Exam Status
Reminder Computed Finding	Determined by the programmer
Reminder Taxonomy	None
Skin Test	Results
VA Drug Class	None
VA Generic	None
Vital Measurement	Rate
Reminder Location List	Service Category

Some examples of simple CONDITIONS are shown in the following table:

Finding Type	Results File	Result Fields that can be used in CONDITION	Data example	CONDITION field example
Drug (50)		NONE – but you can use EFFECTIVE PERIOD of 0D, 0M, OR 0Y in the reminder definition to restrict view to current medications only		
Education Topic (9999999.09)	V PATIENT ED (9000010.06)	LEVEL OF UNDER-STANDING	1 for Poor 2 for Fair 3 for Good 4 for Group-no Assessment 5 for Refused	I V=1 I V=2 I V=3 I V=4 I V=5
Exam (9999999.15)	V EXAM (9000010.13)	RESULT	A for Abnormal N for Normal	I V="A" I V="N"
Health Factor (9999999.64)	V HEALTH FACTOR (9000010.23)	LEVEL/SEVERITY	M for Minimal MO for Moderate H for Heavy/Severe	I V="M" I V="MO" I V="H"
Immunization (9999999.14)	V IMMUNIZATION (9000010.11)	SERIES	P for Partially Complete C for Complete B for Booster 1 for Series 1 2 for Series 2 3 for Series 3 4 for Series 4 5 for Series 5 6 for Series 6 7 for Series 7 8 for Series 8	I V="P" I V="C" I V="B" I V=1 I V=2 I V=3 I V=4 I V=5 I V=6 I V=7 I V=8
Laboratory Test (60)	LAB RESULTS in “CH” node	Number returned from the Lab API as the lab result	180	I V>130
Location List	VISIT (9000010)	SERVICE CATEGORY	‘A' for AMBULATORY 'H' for HOSPITALIZATION ‘I' for IN HOSPITAL 'C' for CHART REVIEW 'T' for TELECOMMUNICATIONS 'N' for NOT FOUND 'S' for DAY SURGERY 'O' for OBSERVATION 'E' for EVENT (HISTORICAL)	I V="A" I V="H" I V="I" I V="C" I V="T" I V="N" I V="S" I V="O" I V="E" I V="R"

			'R' for NURSING HOME 'D' for DAILY HOSPITALIZATION DATA 'X' for ANCILLARY PACKAGE DAILY DATA	I V="D" I V="X"
Mental health Instrument (601)		RAW SCORE from API based on a scale	3 (CAGE)	I V>2
Orderable Item (101.43)				

In addition to the values for type of finding shown in the above table, the following global reminder variables can be used in any CONDITION:

- PXRMAGE - patient's age
- PXRMDOB - patient's date of birth in FileMan format
- PXRMLAD – the last admission date in FileMan format, if there is no admission this will be null
- PXRMSEX - patient's sex, in the format M for male or F for female

The use of these variables is very similar to how you use the V variable. For example, if you want the finding to apply only to patients who are 65 and younger, the CONDITION is I PXRMAGE'>65 (in English if AGE is not greater than 65). You can combine these variables and the V in a CONDITION. Let's say we want a finding that is true for all patients whose BMI>25 and were born before 1955. Our finding is the VA-BMI finding, so the CONDITION is (I V>25)&(PXRMDOB<2550101).

When using PXRMSEX in a CONDITION, you can test for male patients with PXRMSEX=”M” and for female patients with PXRMSEX=”F”. If we wanted to make the above example true only for female patients the CONDITION would be (I V>25)&(PXRMDOB<2550101)&(PXRMSEX=”F”).

In addition to the default values for finding type, which are referred to as V in the Condition statement, you can now use subscripted V values.

Examples:

- I V("PDX")=["ABNORMALITY"
- I (V="COMPLETE")&(V("PDX")["ABNORMALITY")
- I V("DATE READ")<V("DATE")

The subscripts that can be used depend on the type of finding; the easiest way to determine what is available is to use the Reminder Test option and examine the FIEVAL array for the finding of interest.

Here is an example where the finding is an Education Topic.

```
FIEVAL(2)=1
FIEVAL(2,1)=1
FIEVAL(2,1,"COMMENTS")=
FIEVAL(2,1,"CSUB","COMMENTS")=
FIEVAL(2,1,"CSUB","LEVEL OF UNDERSTANDING")=1
FIEVAL(2,1,"CSUB","VALUE")=1
FIEVAL(2,1,"CSUB","VISIT")=3102
FIEVAL(2,1,"DAS")=83
FIEVAL(2,1,"DATE")=2990520.07292
FIEVAL(2,1,"LEVEL OF UNDERSTANDING")=1
FIEVAL(2,1,"VALUE")=1
FIEVAL(2,1,"VISIT")=3102
```

```
FIEVAL(2,"COMMENTS")=
FIEVAL(2,"CSUB","COMMENTS")=
FIEVAL(2,"CSUB","LEVEL OF UNDERSTANDING")=1
FIEVAL(2,"CSUB","VALUE")=1
FIEVAL(2,"CSUB","VISIT")=3102
FIEVAL(2,"DAS")=83
FIEVAL(2,"DATE")=2990520.07292
FIEVAL(2,"FILE NUMBER")=9000010.16
FIEVAL(2,"FINDING")=369;AUTTEDT(
FIEVAL(2,"LEVEL OF UNDERSTANDING")=1
FIEVAL(2,"VALUE")=1
FIEVAL(2,"VISIT")=3102
```

Each array element that contains a “CSUB” (Condition Subscript) element can be used in a Condition statement, so for this finding, we could use V("COMMENTS"), V("LEVEL OF UNDERSTANDING"), V(“VALUE”), or V(“VISIT”) in the Condition.

Some finding types may return multiple values for certain types of data; an example is qualifiers for vitals. In the Reminder Test Option output for a weight finding you might see qualifiers such as:

- FIEVAL(1,"QUALIFIER",1)=ACTUAL
- FIEVAL(1,"QUALIFIER",2)=STANDING

You could use these in a Condition as follows:

```
I (V(“QUALIFIER”,1)=”ACTUAL”)&(V(“QUALIFIER”,2)=”STANDING”)&(V>165)
```

Since you don’t always know what subscript the various qualifiers will be associated with, you can use the wildcard in the Condition as follows:

```
I (V(“QUALIFIER”,“*”)=”ACTUAL”)&(V(“QUALIFIER”,”**”)=”STANDING”)&(V>165)
```

Lab results now include specimen, so that specimen can be used in the Condition statement. For example, I V("SPECIMEN")="SERUM. " Again, the best way to find out what is available for a particular finding is to using the Reminder Test Option and see what comes back with a "CSUB" subscript.
CONDITION CASE SENSITIVE. When this field is set to "NO" then the CONDITION will not be case-sensitive. The default is case-sensitive.

USE STATUS/COND IN SEARCH - Give this field a value of "YES", the default is “NO”, if you want the STATUS LIST and/or CONDITION applied to each result found in the date range for this finding. Only results that have a status on the list or for which the CONDITION is true will be retained. The maximum number to retain is specified by the OCCURRENCE COUNT. For example, if there are 7 occurrences of the finding in the date range, occurrences 1, 3, 6, and 7 have a status on the list, and the OCCURRENCE COUNT is 3 then occurrences 1, 3, and 6 will be returned. If USE STATUS/COND IN SEARCH is NO and the OCCURRENCE COUNT is 3 then findings 1, 2, and 3 will be returned but only finding 1 and 3 will be true.

Note - if the finding has both a STATUS LIST and a CONDITION the status check will be made first; the CONDITION will be applied only if the finding passes the status check.

FOUND TEXT – This is a word-processing field. The contents of this field will be displayed in the Clinical Maintenance component whenever the finding is found (true).

NOT FOUND TEXT – This is a word-processing field. The contents of this field will be displayed in the Clinical Maintenance component whenever the finding is not found (false).

Both FOUND TEXT and NOT FOUND TEXT can contain TIU objects. In both, you can control the output format by using \\ to force a line break.

STATUS LIST - This field applies to finding types that have an associated status. When the search for patient findings is done, only those findings that have a status on the list can be true. The allowable values depend on the finding type. If no statuses are specified then the default list for each finding type will be used.

COMPUTED FINDING PARAMETER - This field applies only to computed findings and is used to pass a parameter into the computed finding. Acceptable values for this field depend on the computed finding and should be documented in the computed finding description.

Function Findings

Function Findings (FF) do computations on the results from regular findings. Function Findings can be used just like regular findings with one exception, there is no date associated with an FF which means the Resolution Logic cannot be written so that it is made true solely by FFs. Besides providing new and expanded functionality, FFs can make custom logic much simpler to understand.

Function Findings expand upon, and are intended to replace, the old-style "Most Recent Date" (MRD) functionality of Reminders 1.5 that could be used in customized Patient Cohort Logic to return the most recent date from a list of finding items. Old MRD logic released in National Reminders will be converted to Function Findings and the reminders will be redeployed with V.2.0.

Note that this new functionality may be difficult to comprehend. Be advised that you should not attempt to modify existing Function Findings or create new Function Findings unless you understand what they do and test the results thoroughly.

Patch 26 changes to Function Findings

The executable help for the function string was upgraded by improving the text and using the Browser to display it.

Users reported that the display of function finding true/false values in the Clinical Maintenance output is useful to CACs, but confusing for clinical users. As a result, a change was made so that the function finding true/false values will be displayed only in the Clinical Maintenance output in reminder test.

Remedy ticket #823815 reported an undefined error during function finding evaluation. The function string being evaluated was “UROLOGY PCU”[“URO”. The error was occurring because a unary operator in the function string is flagged as being unary by appending the operator with a ‘U’. The code checking for a unary operator was improperly interpreting the ‘U’ in UROLOGY as a flag for a unary operator which caused the undefined error. The code was corrected. Additional changes: A check was added for division; if none is found, then the logic string is evaluated using indirection; if division is found, then special logic evaluation is used to trap division by zero. This may give a slight improvement in execution speed. The function finding step-by-step output in reminder test was made a little more readable.

Output of function finding true or false values for function findings used in cohort or resolution logic was added in PXRM*2.0*24. The reminder definition VA-IRAQ & AFGHAN POST-DEPLOY SCREEN has

a lot of found and not found text and the display of the function finding values in the Clinical Maintenance output was giving the display of the text a poor appearance. This is an example of how it looks without the function finding values:

```
Resolution:
  1. PTSD Screening completed since service discharge
  2. Depression Screening completed since service discharge
  3. Alcohol Screening completed since service discharge
  Screening for at risk alcohol use using the AUDIT-C screening tool should be
  performed yearly for any patient who has consumed alcohol in the past year.
  No record of prior screening for alcohol use was found in this patient's
  record.

  4A. Screen for GI symptoms done or not required.
  4A. Screen for GI symptoms done or not required.
  Screen for diarrhea or other GI complaints that might suggest giardia,
  amoebiasis or other GI infection.

  4B. Screen for Fevers done or not required.
  Screen for unexplained fevers that might represent occult malaria or
  infection with leishmaniasis.

  4C. Screen for Skin Rash done or not required.
  Screen for persistent rash that might represent infection with leishmaniasis.
```

This is how it looks with the function finding values displayed:

```
Resolution:
  FF(16)=0
  FF(2)=1
  1. PTSD Screening completed since service discharge
  FF(3)=1
  2. Depression Screening completed since service discharge
  FF(18)=0
  FF(4)=1
  3. Alcohol Screening completed since service discharge
  Screening for at risk alcohol use using the AUDIT-C screening tool should be
  performed yearly for any patient who has consumed alcohol in the past year.
  No record of prior screening for alcohol use was found in this patient's
  record.

  FF(17)=0
  FF(5)=1
  4A. Screen for GI symptoms done or not required.
  FF(5)=1
  4A. Screen for GI symptoms done or not required.
  Screen for diarrhea or other GI complaints that might suggest giardia,
  amoebiasis or other GI infection.

  FF(6)=1
  4B. Screen for Fevers done or not required.
  Screen for unexplained fevers that might represent occult malaria or
  infection with leishmaniasis.

  FF(7)=1
  4C. Screen for Skin Rash done or not required.
  Screen for persistent rash that might represent infection with leishmaniasis.

  FF(10)=0
```

The output as of patch 26 looks like this:

```
Resolution:
  1. PTSD Screening completed since service discharge
  2. Depression Screening completed since service discharge
  3. Alcohol Screening completed since service discharge
  Screening for at risk alcohol use using the AUDIT-C screening tool should be
  performed yearly for any patient who has consumed alcohol in the past year.
  No record of prior screening for alcohol use was found in this patient's
  record.

  4A. Screen for GI symptoms done or not required.
  4A. Screen for GI symptoms done or not required.
  Screen for diarrhea or other GI complaints that might suggest giardia,
  amoebiasis or other GI infection.

  4B. Screen for Fevers done or not required.
  Screen for unexplained fevers that might represent occult malaria or
  infection with leishmaniasis.

  4C. Screen for Skin Rash done or not required.
  Screen for persistent rash that might represent infection with leishmaniasis.

  FF(2)=1, FF(3)=1, FF(4)=1, FF(5)=1, FF(6)=1, FF(7)=1, FF(10)=0, FF(16)=0,
  FF(17)=0, FF(18)=0
```

Patch 24 Changes to Function Findings

Remedy ticket #**742674** showed the undefined error `<UNDEFINED>MRD+2^PXRMFF0 *FIEVAL("1")` when trying to evaluate a function finding using the MRD function for a taxonomy finding. This was occurring because during the evaluation, a lock could not be obtained for the taxonomy expansion and the finding was not being set to false as it should have been. This was corrected.

Function findings were changed in PXRM*2*18 to allow the MUMPS division operators in the function string, which meant there is the possibility of division by 0. The function finding evaluation code was changed, to trap a division by 0 so it would not generate an error, and the function finding was set to false if there was a division by 0. During testing of PXRM*2*24, it was determined that this behavior was not optimal since only the portion of the function string involving the division by 0 should be set to false. The function finding evaluator was changed to do this and **a new feature was added to reminder test that shows step-by-step how the function string is evaluated. Also the display of the reminder test was moved to the FileMan Browser to make it easier to view.**

A fix was made for a problem reported in Remedy ticket #242214, which reported that reminder tests produced an error when either a patient or a reminder was not selected.

Patch 18 Changes to Function Findings

The set of allowed operators in function finding strings was expanded. It now includes: +, -, *, **, /, \, #, !, &, `, >, <, =,], [. The additions were *, **, /, \, #.

All function findings were improved to handle the case when the findings they use are false. Functions will now return the value “UNDEF” when they cannot be evaluated.

An optional third argument of “NAV” was added to the DIFF_DATE function. If this argument is present, the actual value instead of the absolute value is returned.

Two new functions, MAX_VALUE and MIN_VALUE, were added.
A new function DIFF_DT which is a generalized version of DIFF_DATE was added.

There were some CSUBs that could not be used in a function finding because they would not pass the input transform. ”ADMISSION DATE/TIME” is an example of one that could not be used. It was not passing because of the space and the “/”.The input transform was changed to allow all legitimate CSUBs.

Clin2 reported that a list type reminder that used the VALUE function in a function finding failed the validation when creating a reminder rule. This was because the validater was written before functions could have CSUB values as arguments. The validation code was changed to handle those cases.

Creating a Function Finding

To define or edit a Function Finding, select the option “FF Function Finding” from the reminder definition editor (in Add/Edit Reminder Definition or Copy Reminder Definition on the Reminder Definition Management menu).

The name of a Function Finding is a number, so, when prompted to “Select FUNCTION FINDING,” enter a number. Function Finding number 1 is created in the following example:

```
Select Reminder Definition:    FFTEST     LOCAL
     Select one of the following:
          A         All reminder details
          G         General
          B         Baseline Frequency
          F         Findings
          FF        Function Findings
          L         Logic
          C         Custom date due
          D         Reminder Dialog
          W         Web Addresses
Select section to edit: FF  Function Findings
Function Findings
Select FUNCTION FINDING: 1
  Are you adding '1' as a new FUNCTION FINDINGS (the 1ST for this REMINDER
DEFINITION)? No// Y
  (Yes)
FUNCTION FINDINGS FUNCTION STRING: MRD(1,3)>MRD(11,8,4)
FUNCTION FINDING NUMBER: 1// <Enter>
FUNCTION STRING: MRD(1,3)>MRD(11,8,4)  Replace <Enter>
FOUND TEXT:
  No existing text
  Edit? NO// <Enter>
NOT FOUND TEXT:
  No existing text
  Edit? NO// <Enter>
USE IN RESOLUTION LOGIC: <Enter>
USE IN PATIENT COHORT LOGIC: <Enter>
REMINDER FREQUENCY: <Enter>
MINIMUM AGE: <Enter>
MAXIMUM AGE: <Enter>
```

```
RANK FREQUENCY: <Enter>
Select FUNCTION FINDING: <Enter>
```

When prompted, enter the number of the finding you want to create/edit. If the function finding number does not exist, you will be asked to confirm that you want to add a new function finding:

```
Select FUNCTION FINDING: 1
  Are you adding '1' as a new FUNCTION FINDINGS (the 1ST for this REMINDER
DEFINITION)? No// Y
  (Yes)
```

Next, you will be prompted to add the Function Finding string.

```
FUNCTION FINDINGS FUNCTION STRING: MRD(1,3)>MRD(11,8,4)
```

Then the name and the FUNCTION STRING will be displayed on the screen so you can modify the FUNCTION STRING if you wish to do so:

```
FUNCTION FINDING NUMBER: 1//
FUNCTION STRING: MRD(1,3)>MRD(11,8,4)  Replace
```

Lastly, you will be prompted for the following fields, which work the same as they do with regular Findings.

```
FOUND TEXT:
  No existing text
  Edit? NO//
NOT FOUND TEXT:
  No existing text
  Edit? NO//
USE IN RESOLUTION LOGIC:
USE IN PATIENT COHORT LOGIC:
REMINDER FREQUENCY:
MINIMUM AGE:
MAXIMUM AGE:
RANK FREQUENCY:
```

If the FF is true and USE IN RESOLUTION LOGIC and USE IN PATIENT COHORT LOGIC are not specified, the FF found/not found text will appear under the Clinical Maintenance Information heading.

Function Findings Primer

Function findings operate on data from standard findings and return computed data. They can be used in patient cohort logic and resolution logic or for display as informational text. Function findings functions are stored in file #802.4, this file defines the functions that can be used in function finding strings.

- OPERATORS and GLOBAL VARIABLES
- MRD
- MAX_DATE
- MIN_DATE
- COUNT
- FI
- DUR
- DIFF_DATE
- DTIME_DIFF
- VALUE
- NUMERIC
- MAX_VAL
- MIN_VAL

Operators and Global Variables

The mathematical operators that can be used are as follows:

+	ADD
-	Subtract
*	Multiply
/	Divide by
\	Integer division (remainder is dropped)
**	Exponential
#	Modulus (remainder)
>	Greater than
<	Less than
=	Equals

The logical operators that can be used are as follows:

&	And
!	Or
‘	Not
[	Contains
]	Follows

Please note that even though all of these operators may be used within function findings, it is not always clinically relevant to use them. We will list the operators for each function that would clinically apply.

For example, we could multiply the date of FI(1) by the date of FI(2) and do a comparison to some number, but that would not be clinically relevant.
Function string: MRD(1)*MRD(2)>60

Clinically, there would be no reason to multiply two dates.

Certain **Global Variables** are set every time a reminder is evaluated on a patient. These are as follows:

PXRMAGE – Returns the patient's age
PXRMDOB – Returns the patients date of birth in FileMan format
PXRMDOD – Returns the patients date of death, if it exists, in FileMan format
PXRMLAD – Returns the patients last admission date, if it exists, in FileMan format
PXRMSEX – Returns the patients sex

Global variables may be used in function findings as part of the string.
Example: MRD(1)>MRD(2)&(PXRMAGE>50)
The Global Variables may NOT be the only part of the string.

MRD

This function returns the most recent date of the finding(s) in the argument list of the MRD string, and then makes a comparison based on the operator used to another MRD string or a reminder global variable. All mathematical operators may be used with MRD, but the relevant operators include:

Greater than - >
Less than - <
Equals - =

Relevant logical operators include:

Not – '
And - &
Or - !

These may be used in combinations as well; i.e. '<, '=, '>
Examples:

1. MRD(1)'>MRD(2) This would be true if the date of finding 1 is less than or equal to the date of finding 2. This is because of the "NOT GREATER THAN" notation which implies "less than or equal to."
2. MRD(1,2)<MRD(3) This would be true if the most recent date of finding 1 and 2 is less than the date of finding 3. If both finding 1 and 2 are true, the function would return the most recent date of those two for the comparison to finding 3.
3. MRD(1,2)=MRD(3,4) This would be true if the most recent date of finding 1 and 2 is equal to the most recent date of finding 3 and 4. If both finding 1 and 2 are true, the function would return the most recent date of those two. The same would hold true for the second part of this string, where, for comparison, the most recent date of finding 3 or 4 would be returned.
4. MRD(1)>PXRMLAD This would be true if the date of finding 1 is more recent than the patient's last admission date.
5. (MRD(1,2) >MRD(4))&(PXRMDOB>2500101) This would be true if the most recent date of findings 1 and 2 is more recent than the date of finding 4, AND the patient's date of birth is after January 1, 1950.

Be aware that if you have a date range defined by Beginning Date/Time (BDT) and Ending Date/Time (EDT) set on the finding(s) that is part of the MRD string, it could affect the date returned. For example, your string is MRD(1,2)>MRD(3) and there is no EDT entry on either finding, then the function will work as described above. If there is an EDTentry, let's see how the outcome is affected.
FI(1) has ending date/time entry of T-1Y and FI(2) has NO EDT:

Dates of findings, and assuming today is 7/29/10 for the example:

FI(1)	FI(2)
7/24/10	6/18/10
2/3/10	4/8/10
6/1/09	3/20/08

Given these dates with the EDT entry on FI(1), the MRD that would be used to compare to FI(3) would be date of 6/18/10 from FI(2). Even though the FI(1) dates of 7/24/10 and 2/3/10 exist, because of the ending date/time entry of T-1Y, they are not considered in the evaluation.

Another caveat of the MRD functionality is the use of a finding in the MRD string that has a negative occurrence count.

Example: MRD(1)>MRD(2) and Finding 1 has a -1 occurrence count

FI(1)	FI(2)
7/24/10	8/18/10
2/3/10	4/8/10
6/1/09	3/20/08

With FI(1) having a -1 as occurrence count, the function string MRD(1)>MRD(2) would evaluate to false because the date of FI(1) would be 6/1/09, which is the OLDEST occurrence retrieved by use of the -1 in the occurrence count of FI(1).

MRD can be also combined with other functions and global variables as below:

MRD(1)>MIN_DATE(2)&(COUNT(2)>3)
MRD(2)>3100510!(PXRMAGE>45)

CLASS: NATIONAL

MAX_DATE

MAX_DATE is just another name for MRD so everything in the above discussion of MRD applies to MAX_DATE.

CLASS: NATIONAL

MIN_DATE

This function finding returns the oldest date of the finding(s) in the argument list of the MIN_DATE string, and then makes a comparison based on the operator used to another MIN_DATE string or a global variable.

All mathematical operators may be used with MIN_DATE but the relevant operators include:

Greater than - >
Less than - <
Equals - =

Relevant logical operators include:

Not – ‘
And - &
Or - !

These may be used in combinations as well, i.e. ‘<, ‘=, ‘>

Examples:

1. MIN_DATE(1)>MIN_DATE(2) This would be true if the date of finding 1 is more recent than the date of finding 2
2. MIN_DATE(1,2)<MIN_DATE(3) This would be true if the oldest date of finding 1 and 2 is less than the date of 3. If both finding 1 and 2 are true, the function would use the oldest date of those two for the comparison to finding 3
3. MIN_DATE(1,2)=MIN_DATE(3,4) This would be true if the oldest date of finding 1 and 2 is equal to the oldest date of finding 3 and 4. If both finding 1 and 2 are true, the function would use the oldest date of those two. The same would hold true for the second part of this string where for comparison, the oldest date of finding 3 or 4 would be used.
4. MIN_DATE(1)>PXRMLAD This would be true if the date of finding 1 is more recent than the patients last admission date.
5. (MIN_DATE(1,2) >MIN_DATE(4))&(PXRMDOB>2500101) This would be true if the oldest date of findings 1 and 2 is more recent than the date of finding 4 AND the patient s date of birth is after January 1, 1950.

Please note that if you have date range defined by Beginning Date/Time (BDT) and Ending Date/Time (EDT)on a finding it may impact your results. The date range will restrict the dates used for evaluation to only those occurring during the specified date range. So your oldest finding date will be the oldest one of those within the range.

For example, in the Function Finding of MIN_DATE(1) > MIN_DATE(2), below is a list of all the dates for each finding.

FI(1)	**FI(2)**
7/29/10	6/26/10
6/15/10	4/1/09
3/26/08	2/5/08

With no BDT defined on either finding the evaluation of MIN_DATE(1) > MIN_DATE(2) would be 7/29/10>6/26/0, thus the finding is TRUE.
If you had a BDT of T-1Y on FI(1) (given today is 7/29/10) the evaluation of MIN_DATE(1) > MIN_DATE(2) would now be 6/15/10> 6/26/10, thus the FF is FALSE.

Another caveat of the MIN_DATE functionality is the use of a finding in the MIN_DATE string that has a negative occurrence count.
Example: MIN_DATE(1)>MIN_DATE(2) and Finding 1 has a -2 occurrence count

FI(1)	FI(2)
7/24/10	6/18/10
2/3/10	4/8/10
6/1/09	3/20/08

With FI(1) having a -2 as occurrence count, the function string MIN_DATE(1)<MIN_DATE(2) would evaluate to true because MIN_DATE of FI(1) would be 6/1/09 and MIN_DATE of FI(2) would be 6/18/10.

MIN_DATE can be also combined with other functions and global variables as below:
MIN_DATE(1)>MIN_DATE(2)&(COUNT(2)>3)
MIN_DATE(2)>3100510!(PXRMAGE>45)

CLASS: NATIONAL

COUNT

The COUNT Function Finding checks to see if there are a certain number of true occurrences of a particular finding. The syntax of this function finding is COUNT(N)>3. In this example, a check is done to see if there are more than 3 occurrences of FI(N). The COUNT function works in conjunction with the occurrence count parameter of the finding number that COUNT is looking at. If you have your COUNT string set as COUNT(1)>2, then on FI(1), you will need to ensure the occurrence count is set to at least 3. There are other factors that come into play as well, such as entries on the following fields: CONDITION, BEGINNING DATE/TIME, ENDING DATE/TIME, USE STATUS/COND IN SEARCH. These will be addressed below.

All mathematical operators that may be used with COUNT, but the relevant operators or operator combinations include:

Less than - <
Greater than - >
Equal to - =
NOT – ‘
AND - &
OR - !

With no entries on the above mentioned fields (CONDITION, BEGINNING DATE/TIME, ENDING DATE/TIME, USE STATUS/COND IN SEARCH), the COUNT works as follows:
FI(N) has occurrence count of 3
FF(N) has string of COUNT(N)>2
The FF(N) will be true if FI(N) has at least 3 occurrences

If FI(N) has dates defined on beginning date/time or ending date/time, then when COUNT is invoked, it will look for the number of occurrences designated by the entry in the occurrence count field within those date ranges and then based on what the string of COUNT is, will make a determination of TRUE or FALSE.

With Use Status/Condition in Search set to NO
If FI(N) has a Condition or Status associated, then the number of returned occurrences will be less than or equal to the occurrence count. Each returned occurrence will have the condition applied so they may be true or false. Also, if there are entries on beginning date/time and ending date/time, those parameters will also be considered in the evaluation of the FF. Example: FI(1) is an A1C lab test with condition of I V>9.0 and occurrence count of 5. Given a list of values within the date range specified by beginning date/time and ending date/time are as follows:

8.0, 7.5, **9.1**, **9.2**, 8.8, 8.4, 9.3, 9.4, 7.9, 9.1, 8.5
The value of COUNT(1) will be 2 because only the last five occurrences are considered. If you had a string of COUNT(1)>2, then the FF would be false.
With Use Status/Condition in Search set to YES
Again, assuming occurrence count of 5 on FI(N) (Lab test) and condition of I V>9.0, up to the last 5 occurrences that **actually meet** the condition within the date range will be returned. Given the same list of values as above, the number of occurrences up to the occurrence count that meet the condition will be returned.
8.0, 7.5, **9.1**, **9.2**, 8.8, 8.4, **9.3, 9.4**, 7.9, **9.1**, 8.5

The bold values will be returned and if the String of the FF was COUNT(N)=5, then the FF would be TRUE. Be careful with the use of USE STATUS/CONDITION in SEARCH as it will affect your outcome.
COUNT can be also combined with other functions and global variables as below:

COUNT(1)>2&(COUNT(3)=1))
COUNT(4)=2!(MRD(2)>MRD(1))
COUNT(3)<5&(PXRMAGE>50!PXRMLAD>3100317)

CLASS: NATIONAL

FI

This function provides a way to logically string regular findings and/or other functions and/or reminder global variable combinations together. The function will be evaluated and return a TRUE or FALSE value. Complex strings can be written using parenthesis to group items together.
Below are some examples. In some of these examples you will see the use of the global variables and other functions:

FI(1)&FI(2)&(FI(3)!FI(4))
F(1)&FF(1)&’FF(2)
FI(2)&FF(1)&(MRD(1)>PXRMLAD)
FI(2)&FI(3)&FI(4)&’FF(1)&(PXRMSEX=”F”)&(PXRMDOB>2500101)

CLASS: NATIONAL

DUR (Duration)

For findings that have a start and stop date (orderable items, medications), DUR will be the number of **days** between the start and stop date of the finding. For orders/medications that do not have a stop date, the current date is used as the stop date.
DUR(N)>60
Orderable Item example

FI(1)=OI.HEMATOLOGY CONSULT
FF(1)=DUR(1)>60

Here is an excerpt from a reminder test to show how this works for a finding with no stop date:
Orderable Item: HEMATOLOGY CONSULT
06/20/2006 Status: pending, Start date: 04/02/2004, Stop date: missing

The DUR would be 809 days:

FIEVAL("FF1","VALUE")=809 if the current date was 6/20/2006. The reminder calculates the number of days from 04/02/2004 (start date of consult) and stop date, which in this case we are using 06/20/2006 as the current date.

For findings that have only a single date, DUR works in conjunction with the Occurrence Count Field and is the number of days between the first and last occurrence. If there is only one occurrence, then DUR will be 0. The default value of the occurrence count field is 1, therefore, if you are using the DUR on a finding that only has 1 as the occurrence count, the DUR will always be 0. Your Occurrence Count Field setting will determine which findings are evaluated. For example, let's assume you have a specific Health Factor (HF) that is in a Veterans record 10 times. If your Occurrence Count is set to 5, the DUR will be only evaluated between the most recent date of the HF and that of the 5th most recent date of the HF. If your Occurrence Count is set to 99, then the most recent and the oldest dates of the HF are compared to give the DUR. Since the highest numerical value for the occurrence count field is 99, in theory, if you had 200 occurrences (of a blood pressure or pain score), then instead of getting the duration of the most recent occurrence and the 200th occurrence, you would in actuality get the duration of the most recent and the 99th occurrence.

Please note that if you have a Beginning Date Time (BDT) or Ending Date Time (EDT) on your finding, the Occurrence Count will only pull the specified number of entries during that time frame and then do the DUR evaluation on the First and Last dates of those "filtered" list of finding items.
Another example showing how your return value for DUR could be affected by occurrence count entry:
Finding 1 is a Health Factor with given entry dates:

3100624 (June 24, 2010)
3090516 (May 16, 2009)
3080516 (May 16, 2008)

If the function finding string is DUR(1)>370 and if the occurrence count of FI(1) is set to a value of 2, then DUR would be true because difference would be 404, which is the difference between the most recent and second most recent entries. If occurrence count is set to -2, then DUR would be False because difference is 365, which is the difference between the oldest and second oldest entries.

DUR can be also combined with other functions and global variables as below:

DUR(1)>120&(DIFF_DATE(1,2)>100)
DUR(2)<50&((PXRMAGE>75)&(MRD(1)>3060910))

CLASS: NATIONAL

DIFF_DATE

This function returns the difference in days between the dates of the two findings listed as parameters. The default is to return the absolute value, but if the optional third parameter of "N" is present, the actual value is returned. If you want the actual value, be aware that if the date of the second parameter is more recent than the date of the first parameter, the result will be negative.

Syntax: DIFF_DATE(M,N)>*n* where the "M" and "N" are findings and are also called parameters in this case and *n* is the number of days.

Some examples:
Given dates

FI(1)=3100710 (July 10, 2010)
FI(2)=3100720 (July 20, 2010)

DIFF_DATE(1,2)>5 This will evaluate as TRUE because there are 10 days (absolute value) between FI(1) and FI(2)

DIFF_DATE(1,2,"N")<-6 This will evaluate as TRUE because there are negative 10 (-10) days between FI(1) and FI(2). If we simply change the order of the parameters (FI(1) and FI(2)), it will change the evaluation as long as the "N" is left as a third parameter.
DIFF_DATE(2,1,"N")<-6 This will evaluate as FALSE because there are 10 days between FI(1) and FI(2)

You **cannot** use reminder global variables directly in the DIFF_DATE function since it only works on dates of regular findings. You **can** use the Computed Finding VA-FILEMAN DATE to create a regular finding with a specific date. For example, if you want to determine if the date of finding 1 occurred more than 20 days after the last admission, set up the computed finding (VA-FILEMAN DATE) with PXRMLAD in the Computed Finding Parameter field. If finding 2 is the computed finding, the function string would be DIFF_DATE(1,2)>20. Another example would be to compare the date of FI(1) to today's date. Again, you would use the computed finding VA-FILEMAN DATE and enter TODAY or NOW (if you want the time included) into the computed finding parameter field. Then function string would be something like DIFF_DATE(1,2)>200.

In the above examples, the assumption is made that there are no entries on beginning date/time and ending date/time fields. Again, as with other functions, having a date range on the finding could affect the dates that are used. Let's give an example.
FI(1) dates:
3100501
3090501
FI(2) dates:
3100525

FI(1) has an ENDING DATE/TIME entry of 3100430. FI(2) has no ENDING DATE/TIME entry. Given these dates and a DIFF_DATE string of DIFF_DATE(1,2)>30, the FF will be TRUE because for FI(1), the date that will be used is 3090501 due to the entry in ENDING DATE/TIME field.
The comparison would be 389>30 which is true. The 389 value is the number of days between FI(1) and FI(2). If you remove the ENDING DATE/TIME entry, then the FF will be FALSE because for FI(1), the date that will be used is 3100501. The comparison would be 24>30 which is false. The 24 value is the number of days between FI(1) and FI(2).

DIFF_DATE can be also combined with other functions and global variables as below:
DIFF_DATE(1,2)>100&(MRD(1,2)>MRD(3))
DIFF_DATE(2,4)=0!(PXRMDOB>2450101)

CLASS: NATIONAL

DTIME_DIFF

This function is a generalized function that returns the difference in time between the dates of two findings. The difference in time can be displayed down to the second. It can be displayed by Days, Hours, Minutes or Seconds. This function also gives you the ability to look at specific occurrences and CSUB items. Note that if you want to compare an occurrence other than the first, you must set the occurrence count on that finding to be greater than 1. Also, fields such as BEGINNING DATE/TIME, ENDING DATE/TIME, CONDITION, USE STATUS/COND IN SEARCH can change the dates returned by the function.

Syntax: DTIME_DIFF(F1,O1,C1,F2,O2,C2,U,"A") where F is finding number, O is occurrence number, C is CSUB item, U is units which can be D for Days, H for Hours, M for Minutes or S for Seconds. If A is present, then the absolute value of the difference will be returned. If A is omitted, then the result could be calculated as a negative value.
Any of the parameters in the DIFF_DT function that are text must be in quotes.
Example: DTIME_DIFF(1,1,"DATE",2,1,"DATE","D","A")
In this example the absolute value, in Days, the difference between finding 1, occurrence 1 DATE CSUB and finding 2, occurrence 1 DATE CSUB

Some examples of DTIME_DIFF

FI(1) has 3 occurrences and we have the occurrence count set to 3
Dates of occurrences:
3100409
3090409
3080409

DTIME_DIFF(1,1,"DATE",1,2,"DATE","D","A")>300 would evaluate to TRUE because the absolute difference in DAYS between the first occurrence of finding 1 date and the second occurrence of finding 1 date is 365 days, so 365>300.
DTIME_DIFF(1,1,"DATE",1,3,"DATE","H")>14400 would evaluate to TRUE because the difference in HOURS between the first occurrence of finding 1 date and the third occurrence of finding 1 date is 17520 hours, so 17520>14400
DTIME_DIFF(1,2,"DATE",1,1,"DATE","D")>50 would evaluate to FALSE because the difference in DAYS between the second occurrence of finding 1 date and the first occurrence of finding 1 date is -365 days, so -365>50 is FALSE. The reason the result is negative (-365) is because we did not specify the "A" parameter for absolute value.

DTIME_DIFF can be also combined with other functions and global variables as below:
DTIME_DIFF(1,1,"DATE",1,2,"DATE","D")>60&(COUNT(2)=5)
DTIME_DIFF(1,1,"DATE",2,1,"DATE","D","A")<400&(PXRMAGE>40)

CLASS: NATIONAL

VALUE

The VALUE function returns any of the "CSUB" values of a particular occurrence of a finding for comparison to a different occurrence of the same finding or to an occurrence of a different finding. The argument list is the finding number, the occurrence and the CSUB of interest. For example, if you wanted to check to see if occurrence 1 of finding 4 was less than occurrence 2 of the same finding, the function string would be VALUE(4,1,"VALUE")<VALUE(4,2,"VALUE"). If you are comparing multiple occurrences of a particular finding, then you must remember to set the occurrence count on that finding to a value high enough to work in your function string. Note that fields BEGINNING DATE/TIME, ENDING DATE/TIME, CONDITION, USE STATUS/COND IN SEARCH may have significant impact on the data returned by the VALUE function. Also, using a negative number in the occurrence count will/could have a significant impact on the results returned.
Common operators used with the VALUE function are:

Greater than - >
Less than - >
Equals - >
AND - &
OR - !
NOT – '

Examples:
I. FI(1) is a lab test with occurrence count set to 3. Values are as follows

6.0
5.5
5.0

VALUE(1,1,"VALUE")>(VALUE(1,2,"VALUE"))>(VALUE(1,3,"VALUE"))
6.0>5.5>5.0 would evaluate to TRUE which could be clinically significant because the value is trending upwards.

II. FI(1) is an education topic with occurrence count set to 2. The CSUB "Level of Understanding" values are as follows:

Occurrence 1 – POOR
Occurrence 2 – POOR

VALUE(1,1,"LEVEL OF UNDERSTANDING")="POOR"&(VALUE(1,2,"LEVEL OF UNDERSTANDING")="POOR")) This could be clinically significant because the last two education topics level of understanding was POOR

VALUE can be also combined with other function and global variables as below:

VALUE(1,1,"LEVEL OF UNDERSTANDING")="POOR"&(COUNT(2)=2)
VALUE(1,1,"LEVEL OF UNDERSTANDING")="POOR"!(PXRMLAD>3100909)

CLASS: NATIONAL

NUMERIC

The NUMERIC function returns the first numeric portion of any CSUB value for a particular finding. For example, if the COMMENT field of a health factor contains a numeric value (i.e. an outside lab result), NUMERIC can be used test it.

Assume FI(1) is a Health Factor for an outside HGB A1C result. On the reminder dialog, there is a comment field associated with the dialog element. If a numeric value is entered into the comment field as a piece of the comment, then this becomes computable data for the NUMERIC function. This value in this comment field is stored in PCE associated with the health factor, so that when a reminder is evaluated, that value can be used as a possibility for cohort or resolution logic or displayed as informational text.

The syntax of NUMERIC is finding number, occurrence, CSUB.
NUMERIC(1,1,"COMMENT")>5.0 This essentially says the function will be true if the very first numeric portion of the comment field of finding 1, occurrence 1 is greater than 5.0. Please note that if the comment field entry is "A1C: 8.5", then the part of the comment that will be evaluated will the "1" part of "A1C", not the actual value of 8.5. It is strongly suggested that if you are using this function that you should provide education to the fact that the first part of the comment should be numeric.
As with all functions, the BEGINNING DATE/TIME, ENDING DATE/TIME, CONDITION, USE STATUS/COND IN SEARCH fields could significantly impact your results so pay close attention to these entries.

NUMERIC can be also combined with other functions and global variables as below:

NUMERIC(1,1,”COMMENT”)>4.0&’(MRD(2)’<3100909)
NUMERIC(2,2,”COMMENT”)<5&(PXRMAGE>60)

CLASS: NATIONAL

MAX_VALUE

The MAX_VALUE function returns the maximum value of *n* number of occurrences of a specific CSUB or multiple CSUB’s of a single finding or multiple findings. The CSUB that is being requested must be a numeric value. Any CSUB requested that is not numeric will be treated as having a value of zero. For instance, if you want to know the largest A1C result a patient has, you can use the MAX_VALUE function.

The syntax of the function is MAX_VALUE(N,”CSUB”)<operator><test value> where N is the finding number. In the above example with A1C, assume the A1C is FI(1), the function would be written as MAX_VALUE(1,”VALUE”). Note that you have to set the occurrence count on FI(1) to a value greater than 1 or you will get the latest (most recent) result. If you wanted to look at the last 20 A1C values and see if the largest value is greater than 10, you would set the occurrence count to 20 on the finding and then use the string MAX_VALUE(1,”VALUE)>10. The function finding will be true if the value returned from MAX_VALUE is greater than 10.

When using the function with multiple findings and CSUB’s, the syntax is a bit more complex. MAX_VALUE(X,”CSUB”,Y,”CSUB”,Z,”CSUB”)<operator><test value>, where X,Y and Z are all separate findings. Again, for each finding, the number of results returned is only up to whatever value is set in the occurrence count of each finding. In this example, the largest value of all findings evaluated is returned and a comparison is made to the test value.

Example: FI(1) is lab test with occurrence count of 5 with the following values:

100
103
98
96
92

The MAX_VALUE(1,”VALUE”)>100 would be TRUE because the largest value returned from the last 5 occurrences is 103. If you did not set the occurrence count field entry, then the result would be FALSE because the largest value would be 100.

As with all functions, the BEGINNING DATE/TIME, ENDING DATE/TIME, CONDITION, USE STATUS/COND IN SEARCH fields could significantly impact your results so pay close attention to these entries.

MAX_VALUE can be also combined with other functions and global variables as below:

MAX_VALUE(1,”VALUE”)>10&(MRD(1,2)>MRD(4))!(COUNT(6)<3)
MAX_VALUE(1,”VALUE”)<4.0&(PXRMAGE<40)&(PXRMSEX=”F”)

CLASS: NATIONAL

MIN_VALUE

The MIN_VALUE function returns the minimum value of *n* number of occurrences of a specific CSUB or multiple CSUB's of a single finding or multiple findings. The CSUB that is being requested must be a numeric value. Any CSUB requested that is not numeric will be treated as having a value of zero. For instance, if you want to know the smallest A1C result a patient has, you can use the MIN_VALUE function.

The syntax of the function is MIN_VALUE(N,"CSUB")<operator><test value> where N is the finding number. In the above example with A1C, assume the A1C is FI(1). The function would be written as MIN_VALUE(1,"VALUE"). Note that you have to set the occurrence count on FI(1) to a value greater than 1 or you will get the latest (most recent) result. If you wanted to look at the last 20 A1C values and see if the smallest value is greater than 10, you would set the occurrence count to 20 on the finding and then use the string MIN_VALUE(1,"VALUE)>10. The function finding will be true if the value returned from MIN_VALUE is greater than 10.

When using the function with multiple findings and CSUB's, the syntax is a bit more complex. MIN_VALUE(X,"CSUB",Y,"CSUB",Z,"CSUB")<operator><test value>, where X,Y and Z are all separate findings. Again, for each finding, the number of results returned is only up to whatever value is set in the occurrence count of each finding. In this example, the smallest value of all findings evaluated is returned and a comparison is made to the test value.

Example: FI(1) is lab test with occurrence count of 5 with the following values:

100
103
98
96
92

The MIN_VALUE(1,"VALUE")>99 would be FALSE because the smallest value returned from the last 5 occurrences is 92. If you did not set the occurrence count field entry, then the result would be TRUE because the smallest value would be 100.

As with all functions, the BEGINNING DATE/TIME, ENDING DATE/TIME, CONDITION, USE STATUS/COND IN SEARCH fields could significantly impact your results so pay close attention to these entries.

MIN_VALUE can be also combined with other functions and global variables as below:

MIN_VALUE(1,"VALUE")>10&(MRD(1,2)>MRD(4)!COUNT(6)<3)
MIN_VALUE(1,"VALUE")<4.0&(PXRMAGE<40&PXRMSEX="F")

CLASS: NATIONAL

Status List

Status List applies only to finding types that have a status:

- Inpatient pharmacy
- Outpatient pharmacy
- Orders
- Problem List
- Radiology
- Reminder Taxonomy
- Reminder Terms

If no Status List is specified, then certain defaults apply:

Finding Type	Default Status
Inpatient Medications	ACTIVE
Orderable Item	ACTIVE, PENDING
Outpatient Medications	ACTIVE, SUSPENDED
Problem List	ACTIVE
Radiology Procedure	COMPLETE

Default View (This example is for a Radiology Procedure as the Finding Item)

```
Statuses already defined for this finding item:
COMPLETE
     Select one of the following:
          A         ADD STATUS
          D         DELETE A STATUS
          S         SAVE AND QUIT
          Q        QUIT WITHOUT SAVING CHANGES

Enter response: S// ?
Display when adding a status
Enter response: S// a  ADD STATUS
1 - * (WildCard)
2 - CANCELLED
3 - COM
4 - COMPLETE
5 - EXAMINED
6 - TRANSCRIBED
7 - WAITING FOR EXAM
Select a Radiology Procedure Status or enter '^' to Quit:  (1-7): 2,3,6

Statuses already defined for this finding item:
CANCELLED
COM
COMPLETE
TRANSCRIBED
     Select one of the following:
          A         ADD STATUS
          D         DELETE A STATUS
          S         SAVE AND QUIT
          Q         QUIT WITHOUT SAVING CHANGES

Enter response: S// ?
View when deleting a status
Enter response: S// d  DELETE A STATUS
```

```
1 - CANCELLED
2 - COM
3 - COMPLETE
4 - TRANSCRIBED
Select which status to be deleted:  (1-4): 2,4

Statuses already defined for this finding item:
CANCELLED
COMPLETE

     Select one of the following:
          A         ADD STATUS
          D         DELETE A STATUS
          S         SAVE AND QUIT
          Q         QUIT WITHOUT SAVING CHANGES
Enter response: S//
```

Tip: Here is a tip that will make it work a little bit faster when you are using a Condition to check the status. The status is checked before the Condition is applied so if your status list does not contain the status you are checking for in the Condition the Condition will never be true. So when you are using a Condition set the status list to the wildcard "*", this makes the status check faster.

Activate/Inactivate Reminders

Use this option to make individual reminders active or inactive.

```
Select Reminder Definition Management Option: RA  Activate/Inactivate Reminders
Select REMINDER DEFINITION NAME: ??
 Answer with REMINDER DEFINITION NAME, or REMINDER TYPE, or
     PRINT NAME
Choose from:
   CHOLESTEROL
   LOCAL FOBT
   VA-*BREAST CANCER SCREEN
   VA-*CERVICAL CANCER SCREEN
   VA-*CHOLESTEROL SCREEN (F)
   VA-*CHOLESTEROL SCREEN (M)
   VA-*COLORECTAL CANCER SCREEN (
   VA-*COLORECTAL CANCER SCREEN (
   VA-*FITNESS AND EXERCISE SCREE
   VA-*HYPERTENSION SCREEN
   VA-*INFLUENZA IMMUNIZATION
   VA-*PNEUMOCOCCAL VACCINE
   VA-*PROBLEM DRINKING SCREEN
Select REMINDER DEFINITION NAME: CHOLESTEROL SCREEN (F)
INACTIVE FLAG: ?
     Enter "1" to inactivate the reminder item.
     Choose from:
       1        INACTIVE
INACTIVE FLAG: 1
```

Inactivating a reminder will not remove it from CPRS cover sheet lists or health summaries. However when the cover sheet loads or the health summary is run the reminder will not be evaluated and a message showing the date and time the reminder was inactivated will be displayed.

Reminder Sponsor Management

This option provides the functions for Reminder Sponsor Management.

Syn.	Name	Option Name	Description
SL	List Reminder Sponsors	PXRM SPONSOR LIST	This option is used to get a list of Reminder Sponsors.
SI	Reminder Sponsor Inquiry	PXRM SPONSOR INQUIRY	This option is used to do a reminder sponsor inquiry.
SE	Add/Edit Reminder Sponsor	PXRM SPONSOR EDIT	The option allows for editing of Reminder Sponsors.

List Reminder Sponsors

```
Select Reminder Sponsor Management Option: SL  List Reminder Sponsors
DEVICE:   ANYWHERE    Right Margin: 80//
REMINDER SPONSOR LIST                          JAN 28,2003  10:39    PAGE 1
-------------------------------------------------------------------------------

Name:  A NEW SPONSOR
Class: VISN

Name:  CRPROVIDER,TWO
Class: VISN

Name:  CRPROVIDER,THREE
Class: LOCAL

Name:  Guidelines committee
Class: LOCAL

Name:  HOSPITAL COMMITTEE
Class: LOCAL

Name:  INFECTIOUS DISEASES PROGRAM OFFICE, VAHQ
Class: NATIONAL

Name:  CRPROVIDER,FOUR
Class: NATIONAL

Name:  Mental Health Group
Class: LOCAL

Name:  Mental Health and Behavioral Science Strategic Group
Class: NATIONAL

Name:  Mental Health and Behavioral Science Strategic Group and Women Veterans
Health Program
Class: NATIONAL

Name:  NEW
Class: LOCAL

Name:  Office of Quality & Performance
Class: NATIONAL
```

```
Name:  QUERI IHD
Class: NATIONAL

Name:  SLC OIFO DEVELOPMENT
Class: NATIONAL

Name:  Women Veterans Health Program
Class: NATIONAL
```

Reminder Sponsor Inquiry

```
Select Reminder Sponsor Management Option: SI  Reminder Sponsor Inquiry
Select Reminder Sponsor: ?
 Answer with REMINDER SPONSOR NAME, or ASSOCIATED SPONSORS
 Do you want the entire REMINDER SPONSOR List? N  (No)
Select Reminder Sponsor: ??

   Choose from:
   Guidelines committee         LOCAL
   HOSPITAL COMMITTEE         LOCAL
   INFECTIOUS DISEASES PROGRAM OFFICE, VAHQ         NATIONAL
   CRPROVIDER,TEN         NATIONAL
   Mental Health Group         LOCAL
   Mental Health and Behavioral Science Strategic Group         NATIONAL
   Office of Quality & Performance         NATIONAL
   QUERI IHD         NATIONAL
   SLC OIFO DEVELOPMENT         NATIONAL
   Women Veterans Health Program         NATIONAL

Select Reminder Sponsor: Office of Quality & Performance       NATIONAL
DEVICE:   ANYWHERE    Right Margin: 80//
REMINDER SPONSOR INQUIRY                     Jan 28, 2003 10:41:47 am  Page 1
-------------------------------------------------------------------------------

        NUMBER: 15

Name:  Office of Quality & Performance
Class: NATIONAL

Associated Sponsors:

Select Reminder Sponsor:
```

Add/Edit Reminder Sponsor

```
Select Reminder Sponsor Management Option: SE  Enter/Edit Reminder Sponsor

Select Reminder Sponsor:    Office of Quality & Performance     NATIONAL
You cannot edit National Class Sponsors!

Select Reminder Sponsor: A NEW SPONSOR       VISN
NAME: A NEW SPONSOR//
CLASS: VISN//
Select CONTACT:
Select ASSOCIATED SPONSORS:

Select Reminder Sponsor: ?
```

Reminder Taxonomy Management

Reminder taxonomies, stored in file #811.2, provide a convenient way to create a set of coded values and give it a name. For example, the VA-DIABETES taxonomy contains a list of ICD diagnosis codes that signify the patient has a diagnosis of diabetes.

Changes made to Taxonomy Management by Patch 26 (PXRM*2*26)

In the past, taxonomies were based on pointers to the ICD diagnosis file (#80), the ICD Operation/ Procedure file (#80.1), and the CPT file (#81). Multiple ranges of codes (low code to high code) could be defined for each of these coding systems. When editing was finished, each range of codes was expanded to include all the codes from the low code to the high code. Some coding systems such as SNOMED CT do not assign any meaning to the codes, so they cannot be grouped by code and the concept of a range of codes is meaningless. In some cases, for coding systems that do support the concept of a range, code set updates have inserted an unrelated code into a range.

New approach: For the above reasons, the PXRM*2*26 patch changes taxonomies so that they are Lexicon-based. This is a general approach that allows Clinical Reminders taxonomies to support any coding system defined in Lexicon's Coding Systems file (#757.03), provided Lexicon maintains the coding system and patient data using the coding system is stored in VistA.

For each coding system it includes, the Coding Systems file defines a three-character abbreviation, nomenclature, source title, and source. Example: ICD, ICD-9-CM, International Classification of Diseases, Diagnosis, 9th Edition, and US Department of Health and Human Services. The three-character abbreviation provides a convenient way to refer to coding systems and is used by Clinical Reminders Taxonomies. The following coding systems are supported by Clinical Reminders:

Abbreviation	Nomenclature
10D	ICD-10-CM
10P	ICD-10-Proc
CPT	CPT-4
CPC	HCPCS
ICD	ICD-9-CM
ICP	ICD-9-Proc
SCT	SNOMED CT

Changes to Reminder Dialogs

Before PXRM*2*26, users created Reminder Dialogs by adding individual ICD-9-CM and/or CPT-4 codes. When using codes as Finding Items or Additional Finding Items in CPRS, the end user didn't select codes; codes were automatically filed to VistA when the element/group was selected in the

Reminder Dialog. If the Reminder Dialog was set up to use a Taxonomy, it could only be used as a Finding Item; it created a pick list of codes for the user to pick from in CPRS.

The display in CPRS was controlled by the set-up in the Reminder Finding Parameter File (#801.45) and the Reminder Taxonomy File (#811.2). These controls determined if the Taxonomy should assign codes to the current encounter or an historical encounter and what prompts should be assigned to the Reminder Dialog in CPRS.

After PXRM*2*26, users will no longer be able to add ICD-9-CM and/or CPT-4 codes to a Reminder Dialog. Users will need to create a Taxonomy, assign codes, and then add the Taxonomy to the Reminder Dialog. To maintain similar end user functionality in CPRS, a new field named Taxonomy Pick List Display has been added to the dialog data dictionary. This field controls how Taxonomies display in CPRS.

When editing a dialog, a simple taxonomy editor is available. It is accessed from dialog management (either the element or group view). Codes added in this editor are automatically marked as Use In Dialog. If a code is deleted in this editor, the Use In Dialog designation is removed from the code.

See the Dialog Management section (page 294) for further explanation of the changes and for examples of using the new Dialog Taxonomy functionality.

Reminder Taxonomy Management

A new taxonomy management system replaces the previous taxonomy management menu. The new system uses a combination of List Manager, ScreenMan, and the Browser. List Manager should already be familiar to users of Clinical Reminders tools such as Dialog Management or Reminder Exchange. ScreenMan and the Browser may not be as familiar, but reviewing Appendix A of this manual or the FileMan documentation should give you enough knowledge to make using the taxonomy management system much easier.

ScreenMan Overview

ScreenMan is VA FileMan's *screen-oriented* data entry tool. It is an alternative to the Scrolling Mode approach. With ScreenMan, data is entered in *forms*. Each form field occupies a fixed position on the screen (instead of scrolling off!). You can see many data fields at once, and use simple key combinations to edit data and move from field to field on a screen. You can also move from one screen to another like turning through the pages of a book.

If you are not familiar with how to use ScreenMan, see Appendix A of this manual for a brief overview. ***For a detailed explanation of using ScreenMan and the Browser, please refer to the VA FileMan Getting Started manual.***

Browser Overview

The Browser lets you view any text *on the screen* instead of *on paper*. Do this by printing your text to the **BROWSER** device instead of the HOME device or a printer.

The Browser makes it very easy to view text on screen. Its main features are:

- Scroll forwards *and backwards* through the text. This means you don't lose lines of text "off the top" of the screen, like you do when you print to the HOME device.
- Use the Search feature to find a text string and immediately jump to occurrences of the search string.
- Copy selected text from to the VA FileMan Clipboard; later, if you're editing a mail message or other WORD-PROCESSING-type field with the Screen Editor, you can paste from the clipboard.

Shortcuts and Screen setup Tips

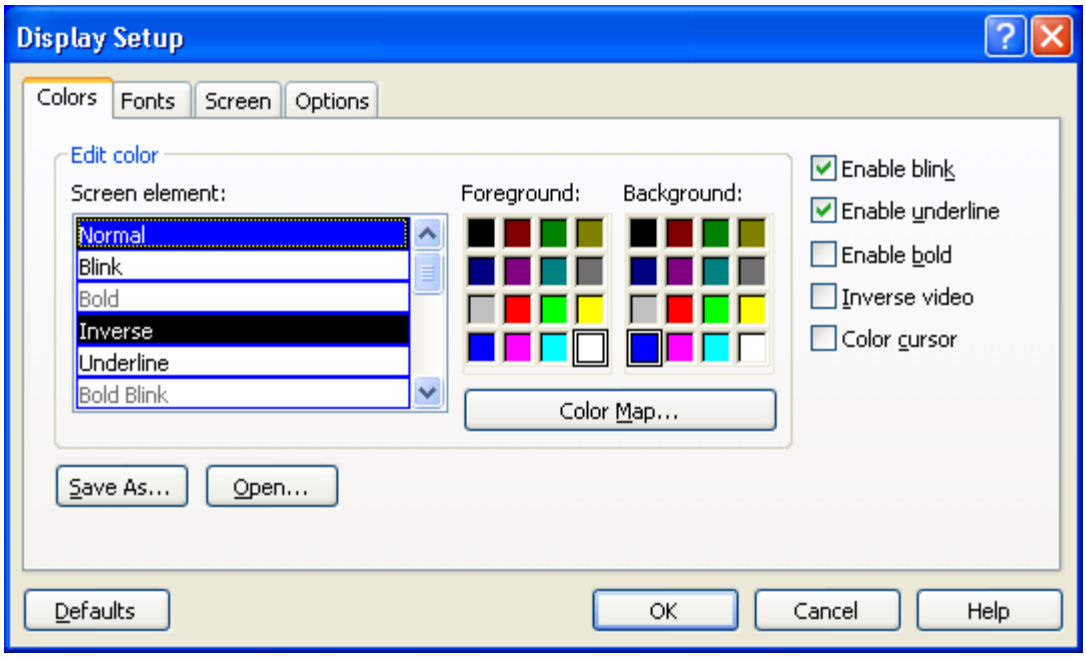
Both the Browser and ScreenMan have shortcuts that can save you a lot of time. Each shortcut begins by pressing the Num Lock (NL) key. (NOTE: some laptops don’t have a NumLock key, so you would need to use Map Keyboard on your Reflections Utility menu to map a terminal key to the PC NumLock key.)
Some Browser actions:

- (NL)B – go to bottom
- (NL)E – exit
- (NL)F – find
- (NL)H – help
- (NL)Q – quit
- (NL)T – go to top

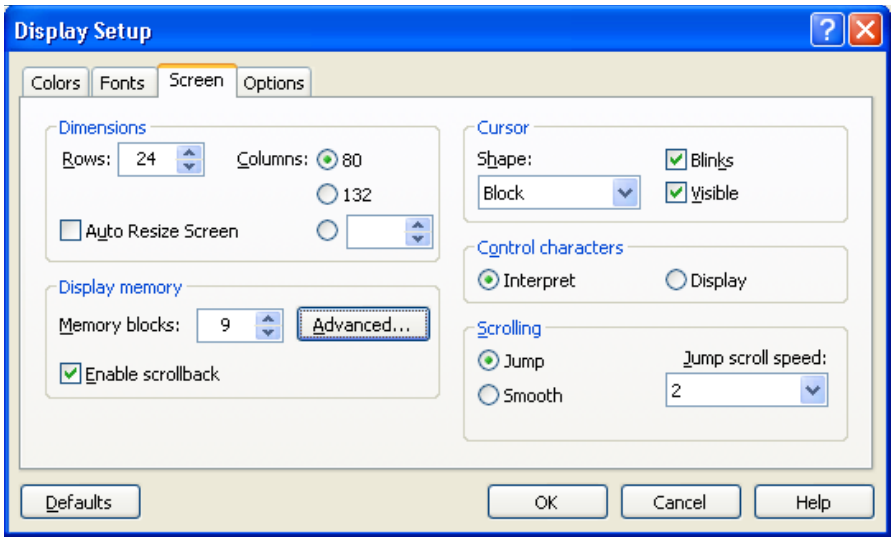
Some ScreenMan shortcuts:

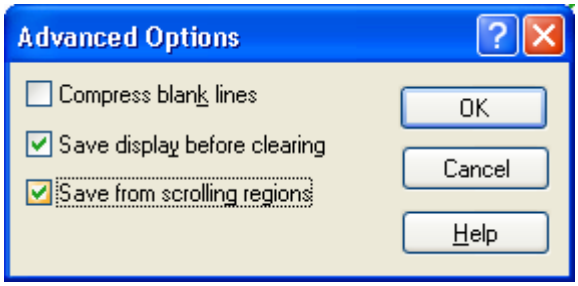
- (NL)C – close a screen
- (NL)E – exit and save changes
- (NL)H – help
- (NL)Q – exit and do not save changes
- (NL)Z – zoom editor

Your Reflections session setup makes a difference in the appearance of the ScreenMan display. The screen element Normal default is a white background and black foreground. Choosing a background color other than white and a foreground color that works well with the background color will provide a more readable ScreenMan display.



NOTE: For taxonomy inquiry print to display properly in Reflections, the setup must have Save from Scrolling Regions checked. Sequence is: Setup => Display => Screen => Display Memory Advanced.





Reminder Taxonomy Management Main Screen

When you select Taxonomy Management from the Clinical Reminders Managers Menu, you will go into a List Manager Taxonomy Management screen. It lists all of the taxonomies on your system. You can use the standard List Manager actions to search or scroll through the list.

Example: Taxonomy Management main screen

```
I1028 - Reflection for UNIX and OpenVMS
File  Edit  Connection  Setup  Macro  Window  Help

Taxonomy Management            May 24, 2013@14:45:54          Page:    1 of   25
Taxonomy File Entries.

 No. Taxonomy                          Description
   1 07 ASTHMA CODES
   2 07 ASTHMA CPT/ICD 9 CODES         Combination of ICD9 and CPT codes
   3 07 ASTHMA EL                      This taxonomy was automatically gener...
   4 07 COPD CODES                     COPD CODES
   5 07 COPY TXM TEST
   6 07 GERD CODES                     GERD
   7 07 GERD ICD 10 AND CPT CODES      GERD CPT AND ICD 10 CODES
   8 07 IMMUNIZATIONS TAXONOMY
   9 07 RENAL CONDITIONS OTHER         RENAL CONDITIONS OTHER THAN CANCER PL...
     THAN CANCER
+          + Next Screen    - Prev Screen    ?? More Actions
ADD  Add                                CS   Code Search
EDIT Edit                               IMP  Import
COPY Copy                               UIDR UID report
INQ  Inquire                            OINQ Old Inquire
CL   Change Log
Select Action: Next Screen//

136, 30   VT500-7 -- 10.72.241.80 via TELNET   00:02:11   Num   Caps
```

Reminder Taxonomy Management Actions

Synonym	Action	Description
ADD	Add	Use this action to create a new taxonomy.
EDIT	Edit	Use this action to edit an existing taxonomy.
COPY	Copy	This action allows the user to copy an existing taxonomy into a new one. The new taxonomy must have a unique name.
INQ	Inquire	Use this action to obtain a detailed report about a taxonomy. It lists all the codes that have been selected, the code's status, and shows if the code has been marked as Use In Dialog (UID).
CL	Change Log	Use this action to display a taxonomy's change log (edit history).
CS	Code Search	This action can be used to find all taxonomies that include a particular code.
IMP	Import	Use this action to import codes from a CSV file.
UIDR	UID Report	This action runs the UID report which displays all inactive codes marked as UID.

***NOTE – KNOWN ANOMALY:**

For any action that works with a list, you can select the list and then the action, or select the action and then the list. In the first case, the action uses List Manager's list selection, which returns the list as a string of items. If the list has too many items, it generates a range error.

The workaround is to select the action first.

For example, on the code selection screen, if you do an ICD-10 Lexicon search for diabetes, you will see a list of around 250 codes. If you enter 1-250, you'll get a range error. However, if you select Add, then you can enter 1-250 and not get the error.

```
Lexicon Selection              Nov 14, 2013@11:16:15        Page:   57 of   57
Term/Code: diabetes
253 ICD-10-CM codes were found.
+No. Code       Active      Inactive  Description
                                      Gestational Diabetes
 250 P70.2      10/1/2014             Neonatal diabetes mellitus
 251 Z13.1      10/1/2014             Encounter for Screening for Diabetes
                                      Mellitus
 252 Z83.3      10/1/2014             Family History of Diabetes Mellitus
 253 Z86.32     10/1/2014             Personal History of Gestational Diabetes



          + Next Screen   - Prev Screen   ?? More Actions
ADD  Add to taxonomy                    UID  Use in dialog
RFT  Remove from taxonomy               SAVE Save
RFD  Remove from dialog
Select Action: Quit// 1-250

>>>  Range too large: 1-250.
```

Reminder Taxonomy Actions

Add

Use this action to add a new taxonomy.

```
+          + Next Screen   - Prev Screen   ?? More Actions
ADD  Add                                CS   Code Search
EDIT Edit                               IMP  Import
COPY Copy                               UIDR UID report
INQ  Inquire                            OINQ Old Inquire
CL   Change Log
Select Action: Next Screen// ADD
```

When you select Add, you are prompted to enter the Name and Class of the new taxonomy. Once these have been entered you will be taken to the ScreenMan edit form. This is the same form you enter when selecting the Edit action.

```
Are you adding 'JGTAXONOMY1' as a new REMINDER TAXONOMY (the 148TH)? No// Y
(Yes)
```

```
REMINDER TAXONOMY CLASS: LOCAL  LOCAL
```

Edit

Use this action to edit the fields in a taxonomy definition. When you select Edit, a ScreenMan form opens.

Taxonomy Fields

NAME	DESCRIPTION
NAME	This is the name of the taxonomy. It must be unique. Nationally distributed taxonomies start with “VA-“.
DESCRIPTION	Use this word-processing field to give a complete description of the taxonomy. Topics to consider including are what the taxonomy represents and its intended usage.
PATIENT DATA SOURCE	Specifies where to search in VistA for patient data. It is a string of comma-separated key words. The list of key words is given below.
USE INACTIVE PROBLEMS	Applies only to searches in Problem List. Normally inactive problems are not used. However when this field is set to YES, then both active and inactive problems are used. This field works just like the field with the same name that can be specified for a reminder definition finding or a reminder term finding. If this field is defined in the taxonomy, it will take precedence over the value of the corresponding field at the term or definition level.
PRIORITY LIST	This field applies only to Problem List searches. It can be used to limit the problems that are included to those with the listed priorities. The possible values are: A - acute C - chronic U - undefined Any combination of these letters can be used. For example, 'A' would limit the search to acute problems. 'CU' would include chronic problems and those whose priority is undefined. If this field is left blank then all priorities will be included.
INACTIVE FLAG	Enter "1" to inactivate the taxonomy.
TERM/CODE (multiple)	Term/Code and a Coding System are passed to the Lexicon search utility, which returns a list of codes based on the users search criteria. Terms are descriptions for a concept and the code is a unique identifier assigned to that description. A concept can have one or more descriptions to express the concept. An example of this in SNOMED CT is the concept code 271807003 that has a fully specified name of "Eruption of Skin", a preferred name of "Eruption" and several synonyms "Rash", "Skin Eruption", "Skin Rash". For more information, see the Lexicon Utility User Manual.
CLASS	This is the class of the entry. Entries whose class is National cannot be edited or created by sites. N - NATIONAL V - VISN L - LOCAL
SPONSOR	This is the name of a group or organization that sponsors the taxonomy.
REVIEW DATE	The review date is used to determine when the entry should be reviewed to verify that it is current with the latest standards and guidelines.
CHANGE LOG	If changes were made, the date and the name of the user making the changes will be inserted automatically. You can optionally type in a description of the changes made during the editing session.

Patient Data Source Keywords

KEYWORD	MEANING
ALL	All sources (default)
EN	All PCE encounter data (CPT-4 & ICD diagnosis)
ENPP	PCE encounter data, principal procedure (CPT-4) only
ENPD	PCE encounter data, principal diagnosis (ICD) only
IN	All PTF inpatient data (ICD diagnosis and procedures)
INDXLS	PTF inpatient DXLS diagnosis (ICD) only
INM	PTF inpatient diagnosis (ICD) movement only
INPD	PTF inpatient principal diagnosis (ICD) only
INPR	PTF inpatient procedure (ICD) only
PL	Problem List (ICD diagnosis and SNOMED-CT)
RA	Radiology (CPT-4) only

You may use any combination of these keywords. An example is EN,RA. This would cause the search to be made in V CPT and Radiology for CPT-4 codes. If PATIENT DATA SOURCE is left blank, the search is made in all the possible sources. You can also use a "-" to remove a source from the list; for example, IN,-INM.

It is important to remember that the link between CPT-4 codes and radiology procedures is maintained by sites. If this linkage is not kept current at your site then the recommendation is **do not use RA** in Patient Data Source. It will be much more reliable to use radiology procedures directly as findings.

When you navigate to some of the fields on the form, you may see help in the command area. If more detailed help is needed, type '?' or '??'.

Term/Code is a multiple of terms, codes, or code fragments that are used for a Lexicon search. In the above example, the code fragment 250 has been entered. When you press Enter you will be taken to a form where you select the coding system to search.

Example: Coding System Selection Form

```
Term/Code: 250

 ICD-10-CM diagnosis code search:
  ICD-9-CM diagnosis code search:

 SNOMED CT code search:

 ICD-10 procedure code search:
  ICD-9 procedure code search:
       CPT-4 code search:
       HCPCS code search:

REVIEW DATE:

Press Enter to search for ICD-9-CM diagnosis codes.

                                   Press <PF1>H for help    Insert
```

The top line displays the Term/Code that will be used in the search. You can scroll through the list to select a coding system for the search. When the cursor is on a coding system and you press Enter, the Term/Code and the coding system are passed to the Lexicon search engine, which returns a list of matching codes. The codes are displayed in a List Manager screen. At the top it shows you Term/Code and the number of codes found in the selected coding system.

Example: List Manager Lexicon Selection Screen
This example shows the results of a search for the Term/Code 250 in the ICD-9-CM coding system. The second line shows the Term/Code and the third line the number of codes found in the selected coding system.

```
Lexicon Selection              Feb 14, 2014@09:04:58          Page:    8 of   18
Term/Code: DIABETES
80 ICD-9-CM codes were found, 2 are selected.
+No. Code       Active      Inactive  Description
                                      [Juvenile type], Uncontrolled
  29 250.20     10/1/1978   10/1/2014 Diabetes with Hyperosmolarity, type II or
                                      unspecified type, not stated as
                                      Uncontrolled
  30 250.21     10/1/1978   10/1/2014 Diabetes with Hyperosmolarity, type i
                                      [Juvenile type], not stated as Uncontrolled
  31 250.22     10/1/1978   10/1/2014 Diabetes with Hyperosmolarity, type II or
                                      unspecified type, Uncontrolled
  32 250.23     10/1/1978   10/1/2014 Diabetes with Hyperosmolarity, type i
                                      [Juvenile type], Uncontrolled
+          + Next Screen    - Prev Screen    ?? More Actions
ADD  Add to taxonomy                    CV   Change view
RFT  Remove from taxonomy               SAVE Save
RFD  Remove from dialog                 EXIT Exit with save
UID  Use in dialog
Select Action: Next Screen//
```

At this point, the following actions are available:

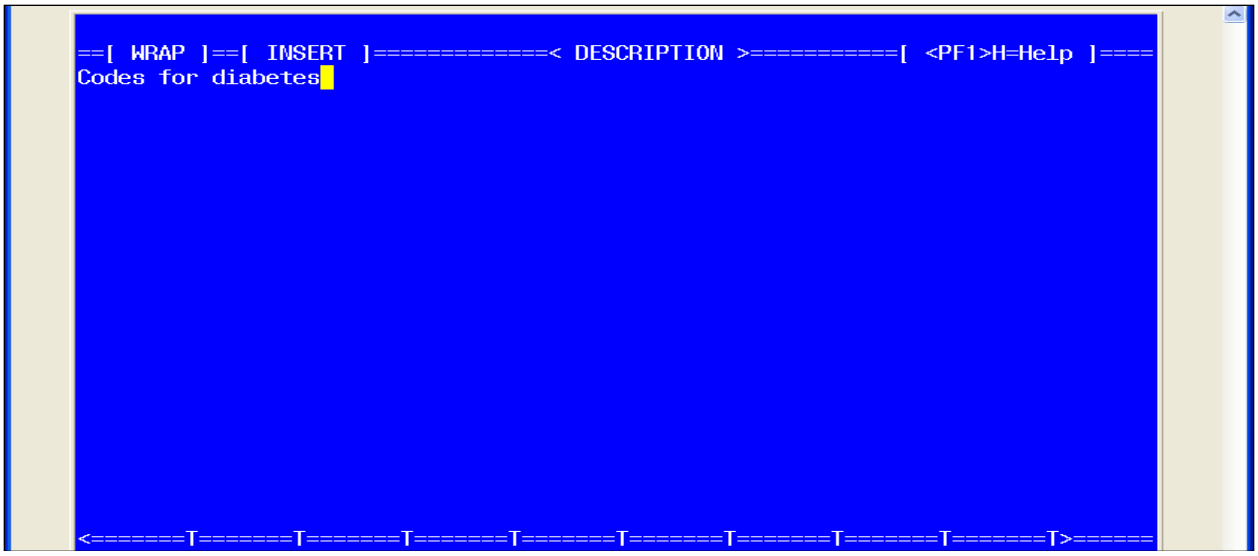
Synonym	Action	Description
ADD	Add to taxonomy	Adds the selected codes to the taxonomy.
RFT	Remove from taxonomy	Removes the selected codes from the taxonomy.
RFD	Remove from dialog	Removes UID from the selected codes.
UID	Use in dialog	Marks the selected codes as Use in Dialog.
SAVE	Save	Saves the results of the other actions. You may do multiple adds, removes, etc., but nothing is actually saved until the Save action is performed.

Note: You may select the action first, then the list of entries it applies to, or the list of entries and then the action. There are a number of ways to specify the selection list.

Comma separated list of entries	1,3,5
Range of entries	4-8
Combination	3,9-12

When you are finished, use the hidden action Quit to return to the coding system selection form. If desired, you can use the same Term/Code for searching another coding system, just move to the next coding system and press Enter. If you want to input another Term/Code then use either shortcut (NL)C (close) or (NL)Q (quit) to exit the coding system selection form and return to the main taxonomy edit form.

To edit some fields, such as Description, you must press Enter, and then a word-processing screen opens:



- To exit the word-processing screen, press <PF1>E (or the key you've mapped).

- Move down the edit screen by using the down arrow.

Copy

Use this action to copy an existing taxonomy definition into a new entry. Once the taxonomy has been copied, you have the option of editing it.

Example: Copying a taxonomy definition screen

```
I1028 - Reflection for UNIX and OpenVMS
File  Edit  Connection  Setup  Macro  Window  Help

+No. Taxonomy                        Description
  57 CERVICAL CA/PAP CODES           Cervical cancer screen codes
  58 CHRONIC LUNG DISEASE            Codes for COPD, etc.
  59 CHRONIC VIRAL HEPATITIS         Codes for Hep B(CH), Hep C
  60 CIRRHOSIS                       Codes for cirrhosis
  61 CLCOLONOSCOPY
  62 COLITIS AND ILEITIS             Codes for ileitis, colitis
  63 COLON REMOVAL                   CPT CODES FOR REMOVAL OF COLON
  64 COLONOSCOPY                     Codes for colonoscopy
  65 COLORECTAL CANCER               Colorectal cancer codes
  66 DEMENTIA                        Codes for dementia guideline
+          + Next Screen   - Prev Screen   ?? More Actions
ADD  Add                                CS   Code Search
EDIT Edit                               IMP  Import
COPY Copy                               UIDR UID report
INQ  Inquire                            OINQ Old Inquire
CL   Change Log
Select Action: Next Screen// COPY   Copy
Select taxonomy to copy:  (1-255): 60
Enter a Unique Name: JG-CIRRHOSIS

The original reminder taxonomy CIRRHOSIS has been copied into JG-CIRRHOSIS.
Do you want to edit it now?

306, 29   VT500-7 -- 10.72.241.80 via TELNET   00:04:02   Num   Caps
```

If you choose to edit the taxonomy you've copied, you will enter the standard editing form.

Example: Standard Editing form

```
I1028.r2w - Reflection for UNIX and OpenVMS
File  Edit  Connection  Setup  Macro  Window  Help

NAME: JG CIRRHOSIS
DESCRIPTION: Codes for cirrhosis
PATIENT DATA SOURCE:
USE INACTIVE PROBLEMS:      PRIORITY LIST:
INACTIVE FLAG:

 Term/Code                                  Selected Codes (CODESYS:QTY)
 Copy from ICD range 571.2 to 571.9         ICD:10

CLASS: LOCAL
SPONSOR:
REVIEW DATE:

COMMAND:                                    Press <PF1>H for help    Insert

138, 7   VT500-7 -- 10.72.241.80 via TELNET   00:07:11   Num   Caps
```

```
I1028.r2w - Reflection for UNIX and OpenVMS
File  Edit  Connection  Setup  Macro  Window  Help

NAME: JG CIRRHOSIS
DESCRIPTION: Codes for cirrhosis
PATIENT DATA SOURCE:
USE INACTIVE PROBLEMS: YES  PRIORITY LIST: A
INACTIVE FLAG:

 Term/Code                                  Selected Codes (CODESYS:QTY)
 Copy from ICD range 571.2 to 571.9         ICD:10

CLASS: LOCAL
SPONSOR:
REVIEW DATE: JAN 2014

      T-1 (for YESTERDAY),  T-3W (for 3 WEEKS AGO), etc.
    If the year is omitted, the computer uses CURRENT YEAR.  Two digit year
      assumes no more than 20 years in the future, or 80 years in the past.
    You may omit the precise day, as:  JAN, 1957

                                        Press <PF1>H for help    Insert

249, 22   VT500-7 -- 10.72.241.80 via TELNET   00:13:54   Num   Caps
```

Inquire about Taxonomy Item

Use this action to get the details of a single taxonomy. You may select Condensed or Full.
The condensed displays each code on a single line with a column for code, inactive, UID, and the first 47 characters of the description.

You will also have the option of browsing the output or choosing an output device.

```
I1028 - Reflection for UNIX and OpenVMS
File  Edit  Connection  Setup  Macro  Window  Help

Taxonomy Management          Aug 08, 2013@11:37:25          Page:    1 of   30
Taxonomy File Entries.

 No. Taxonomy                          Description
   1 07 ASTHMA CODES
   2 07 ASTHMA CPT/ICD 9 CODES         Combination of ICD9 and CPT codes
   3 07 ASTHMA EL                      This taxonomy was automatically gener...
   4 07 COPD CODES                     COPD CODES
   5 07 COPY TXM TEST
   6 07 GERD CODES                     GERD
   7 07 GERD ICD 10 AND CPT CODES      GERD CPT AND ICD 10 CODES
   8 07 IMMUNIZATIONS TAXONOMY
   9 07 RENAL CONDITIONS OTHER         RENAL CONDITIONS OTHER THAN CANCER PL...
     THAN CANCER
+          + Next Screen   - Prev Screen   ?? More Actions
ADD  Add                                CS   Code Search
EDIT Edit                               IMP  Import
COPY Copy                               UIDR UID report
INQ  Inquire                            OINQ Old Inquire
CL   Change Log
Select Action: Next Screen// inq   Inquire
Display inquiry for which taxonomy?:  (1-280): 1
Condensed or full inquiry? C//

4140, 32   VT500-7 -- 10.72.241.80 via TELNET   00:26:32   Num   Hold
```

Examples: Browsing Taxonomy Inquiry

```
                    Taxonomy Inquiry - Condensed
--------------------------------------------------------------------------
07 ASTHMA CODES                                                   No. 100
--------------------------------------------------------------------------

Class: LOCAL
Sponsor:
Review Date: JUN 01, 2014

Description:

Reversible airway disease

Inactive Flag:
Patient Data Source: ALL
Use Inactive Problems:

Selected Codes:

Lexicon Search Term/Code: 493

Coding System: ICD-9-CM
Code        Inactive  UID  Description
Col>   1 |<PF1>H=Help <PF1>E=Exit| Line>    22 of 43     Screen>     1 of 2
```

```
                    Taxonomy Inquiry - Condensed
Code        Inactive  UID  Description
---------   --------  ---  -----------
493.00        X            Extrinsic asthma, unspecified
493.01        X            Extrinsic asthma with status asthmaticus
493.02        X            Extrinsic asthma, with (Acute) Exacerbation
493.10        X            Intrinsic asthma, unspecified
493.11        X            Intrinsic asthma with status asthmaticus
493.12        X            Intrinsic asthma, with (Acute) Exacerbation
493.20        X            Chronic Obstructive asthma, unspecified
493.21        X            Chronic obstructive asthma (with obstructive pulmo ...
493.22        X            Chronic Obstructive asthma, with (Acute) Exacerbation
493.81        X            Exercise Induced Bronchospasm
493.82        X            Cough Variant Asthma
493.90                     Asthma, unspecified type, without mention of statu ...
493.90        X            Asthma, unspecified Type, unspecified
493.91        X            Asthma, unspecified type, with status asthmaticus
493.92        X            Asthma, unspecified, with (Acute) Exacerbation


This taxonomy includes the following numbers of codes:
ICD-9-CM: 14
Total number of codes: 14
Col>   1 |<PF1>H=Help <PF1>E=Exit| Line>    43 of 43     Screen>     2 of 2
```

Example: Browsing Taxonomy Inquiry – Condensed

```
                          Taxonomy Inquiry - Full
--------------------------------------------------------------------------------
07 ASTHMA CODES                                                          No. 100
--------------------------------------------------------------------------------

Class: LOCAL
Sponsor:
Review Date: JUN 01, 2014

Description:

Reversible airway disease

Inactive Flag:
Patient Data Source: ALL
Use Inactive Problems:

Selected Codes:

Lexicon Search Term/Code: 493

Coding System: ICD-9-CM
Code       Activation Inactivation  UID  Description
Col>   1 |<PF1>H=Help <PF1>E=Exit| Line>    22 of 56     Screen>     1 of 3
```

```
                          Taxonomy Inquiry - Full
---------  ---------- ------------  ---  -----------
493.00     10/01/1978  10/01/2014       Extrinsic asthma, unspecified
493.01     10/01/1978  10/01/2014       Extrinsic asthma with status
                                        asthmaticus
493.02     10/01/2000  10/01/2014       Extrinsic asthma, with (Acute)
                                        Exacerbation
493.10     10/01/1978  10/01/2014       Intrinsic asthma, unspecified
493.11     10/01/1978  10/01/2014       Intrinsic asthma with status
                                        asthmaticus
493.12     10/01/2000  10/01/2014       Intrinsic asthma, with (Acute)
                                        Exacerbation
493.20     10/01/1978  10/01/2014       Chronic Obstructive asthma,
                                        unspecified
493.21     10/01/1978  10/01/2014       Chronic obstructive asthma (with
                                        obstructive pulmonary disease),
                                        with status asthmaticus
493.22     10/01/2000  10/01/2014       Chronic Obstructive asthma, with
                                        (Acute) Exacerbation
493.81     10/01/2003  10/01/2014       Exercise Induced Bronchospasm
493.82     10/01/2003  10/01/2014       Cough Variant Asthma
493.90     10/01/1978                   Asthma, unspecified type, without
                                        mention of status asthmaticus or
Col>   1 |<PF1>H=Help <PF1>E=Exit| Line>    44 of 56     Screen>     2 of 3
```

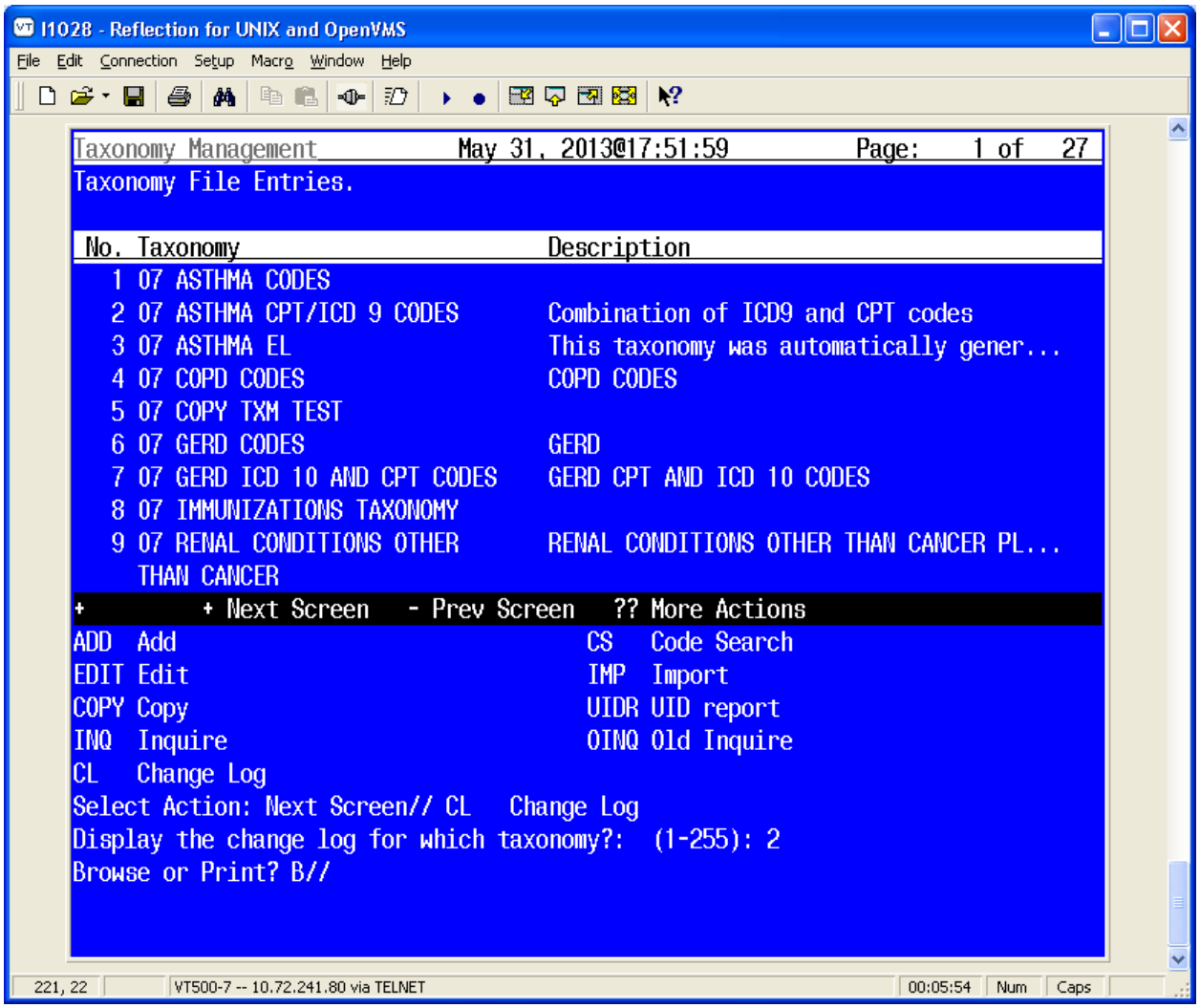
Example: Browsing Taxonomy Inquiry - Full

Change Log

Use this action to see the historical details of a taxonomy; i.e., who created, edited, or copied it, and when. You will have the option of browsing the output or choosing an output device:

```
Browse or Print? B//
```

Example: Browsing Taxonomy Change Log



```
                    REMINDER TAXONOMY Change Log for IEN=100
 Edit By: VEHU,SEVEN on MAR 05, 2013@15:14:53
Taxonomy built

 Edit By: VEHU,SEVEN on MAR 05, 2013@15:23:10
Codes added.

 Edit By: VEHU,SEVEN on MAR 13, 2013@15:12:10
Test

Col>    1 |<PF1>H=Help <PF1>E=Exit| Line>     8 of 8      Screen>     1 of 1
```

Code Search

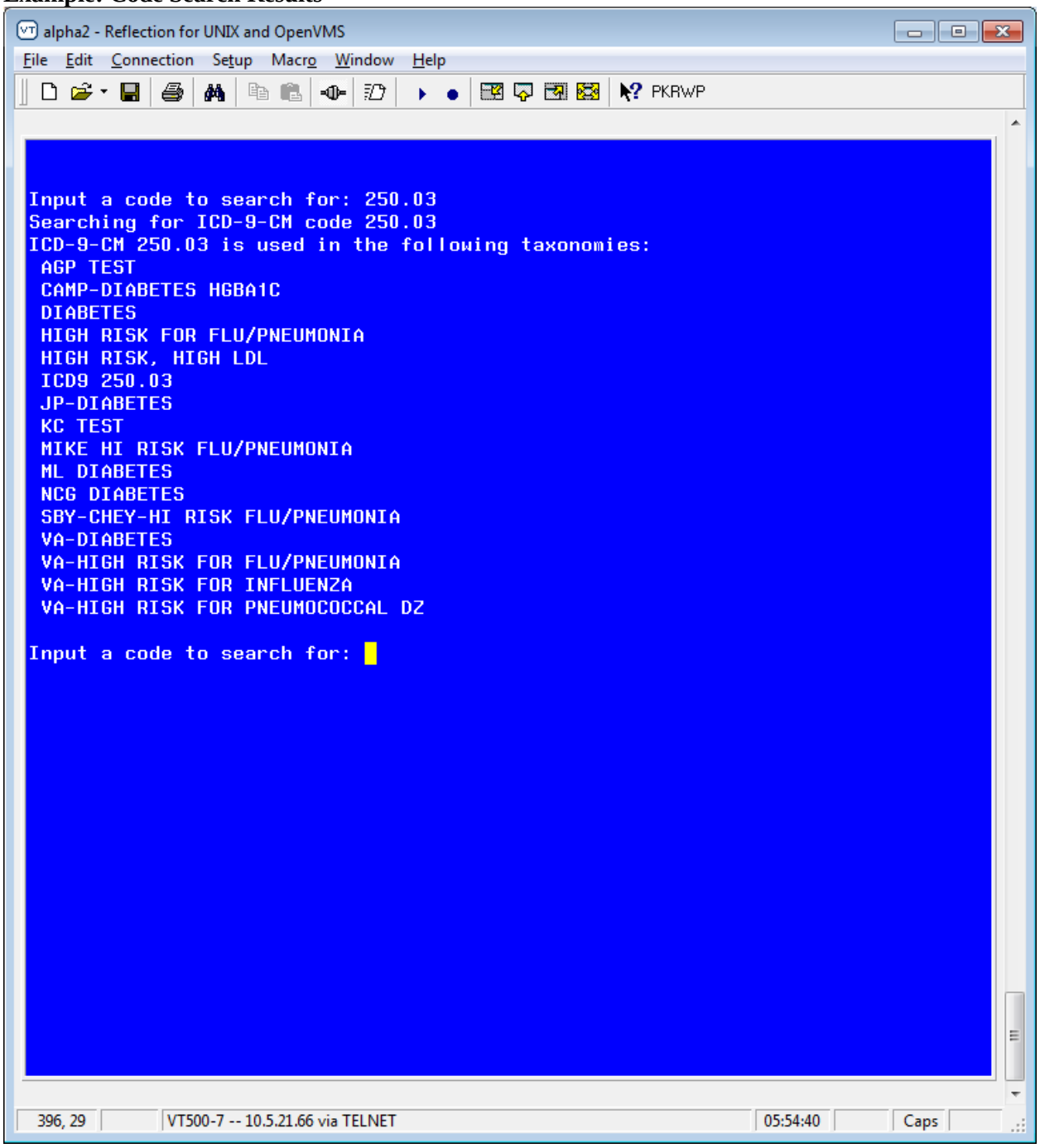
This lets you find all taxonomies that contain a particular code. When you select this action, you are prompted to input a code from any of the supported coding systems. You only need to enter the code; the coding system will be automatically determined.

Example: Selecting Code Search screen

```
Taxonomy Management            May 24, 2013@14:56:32          Page:    1 of   25
Taxonomy File Entries.

 No. Taxonomy                          Description
   1 07 ASTHMA CODES
   2 07 ASTHMA CPT/ICD 9 CODES         Combination of ICD9 and CPT codes
   3 07 ASTHMA EL                      This taxonomy was automatically gener...
   4 07 COPD CODES                     COPD CODES
   5 07 COPY TXM TEST
   6 07 GERD CODES                     GERD
   7 07 GERD ICD 10 AND CPT CODES      GERD CPT AND ICD 10 CODES
   8 07 IMMUNIZATIONS TAXONOMY
   9 07 RENAL CONDITIONS OTHER         RENAL CONDITIONS OTHER THAN CANCER PL...
     THAN CANCER
+          + Next Screen   - Prev Screen   ?? More Actions
ADD  Add                                CS   Code Search
EDIT Edit                               IMP  Import
COPY Copy                               UIDR UID report
INQ  Inquire                            OINQ Old Inquire
CL   Change Log
Select Action: Next Screen// cs
```

Example: Code Search Results



Import

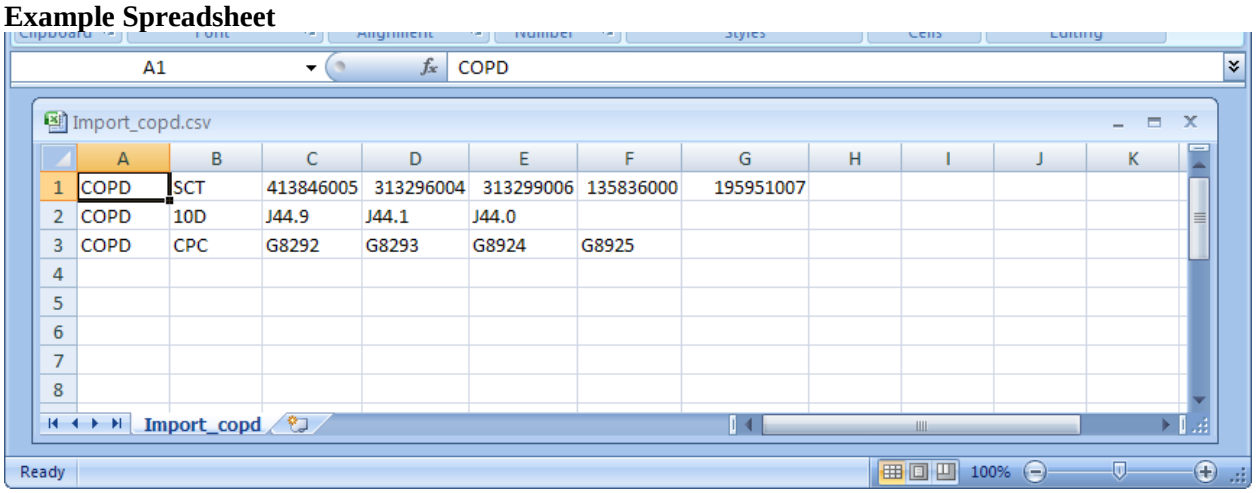
The Import action provides an easy way to import lists of codes into a taxonomy.

A CSV file (Comma Separated Values) is created from a spreadsheet. The first column is equivalent to the Term/Code, the second column is the three-character coding system abbreviation for one of the supported coding systems, and the rest of the columns are the codes to be imported for the Term/Code, coding system pair. The spreadsheet can have multiple rows, a row for each Term/Code, coding system, set of codes to be imported. The final step is to create a CSV file (comma-delimited text file), using the Save As action.

NOTE: The National Library of Medicine (NLM), in collaboration with the Office of the National Coordinator for Health Information Technology and the Centers for Medicare & Medicaid Services has created a Value Set Authority Center (https://vsac.nlm.nih.gov/). These value sets contain lists of terms and their codes and they can be useful for creating taxonomies.

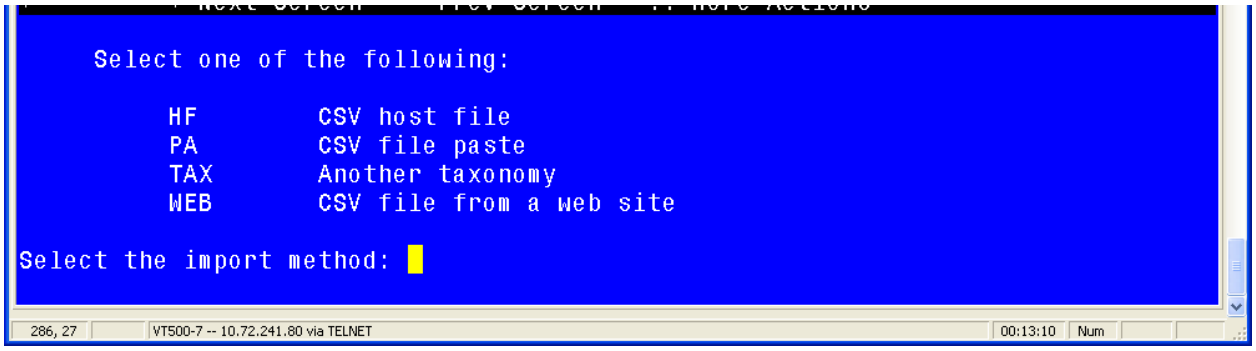
The Import action facilitates their use by allowing import of the codes into a taxonomy. To prepare the data for import, the original spreadsheet should be copied into a new spreadsheet that can be edited.

Example Spreadsheet



	A	B	C	D	E	F	G	H	I	J	K
1	COPD	SCT	413846005	313296004	313299006	135836000	195951007				
2	COPD	10D	J44.9	J44.1	J44.0						
3	COPD	CPC	G8292	G8293	G8924	G8925					
4											
5											
6											
7											
8											

When the Import action is selected, you will be prompted to select a taxonomy to import into, and after it has been selected, you have the following choices:



Import: CSV Host File
If the CSV file has been saved as a host file, choose the HF option. You will then be prompted for a path. This is the directory/folder that contains the CSV file and it must be accessible from your VistA session. A list of all files with a '.CSV' extension in that directory will be displayed; enter the file name at the prompt, (you do not need to include the .csv extension).

NOTE: Special privileges are required to access host file directories, so you may not be able to use this option.

Example: Importing codes from a CSV host file

```
 120 PKR PROBLEM LIST TEST ICD-9
 121 PKR PROBLEM LIST TEST SNOMED
     CT
 122 PKR PTF DIAG TEST
+          + Next Screen   - Prev Screen   ?? More Actions
ADD  Add                                EH   Edit History
EDIT Edit                               CS   Code Search
COPY Copy                               IMP  Import
INQ  Inquire                            UIDR UID report
Select Action: Next Screen// IMP   Import
Enter a number (1-243): 115
Enter a path: USER$:[TEMP.CPRS28]//
The following CSV files were found in USER$:[TEMP.CPRS28]
  CR_COPD_IMPORT_12272012.CSV;1
  MEASURE_0001.CSV;2
  NQF_RETOOLED_MEASURE_0012.CSV;2
Enter a file name: MEASURE_0001
Starting the import process ...

Do you want to browse the list of codes? Y//
```

Insert the Clipboard contents at the cursor position

At this point you will have the option of browsing the list of codes.

Example: Browsing list of codes screen

```
alpha2 - Reflection for UNIX and OpenVMS
File  Edit  Connection  Setup  Macro  Window  Help
PKRWP

                        List Of Codes To Be Imported
Term/Code: Asthma (imported)
  Coding System: ICD-10-CM
    1. J45.22
    2. J45.32
    3. J45.42
    4. J45.52
    5. J45.901
    6. J45.901
    7. J45.902
    8. J45.902
    9. J45.909
   10. J45.909
   11. J45.901
   12. J45.902
   13. J45.990
   14. J45.991

Term/Code: Asthma (imported)
  Coding System: ICD-9-CM
    1. 493.01
    2. 493.02
    3. 493.10
Col>    1 |<PF1>H=Help <PF1>E=Exit| Line>    22 of 140    Screen>    1 of 7
```

```
                        List Of Codes To Be Imported
    4. 135836000
    5. 195951007

Term/Code: COPD (imported)
  Coding System: ICD-9-CM
Invalid coding system code pair:
 Coding system is ICD, code is J44.9
Invalid coding system code pair:
 Coding system is ICD, code is J44.1
Invalid coding system code pair:
 Coding system is ICD, code is J44.0

Term/Code: COPD (imported)
  Coding System: CPT-4
    1. 1015F


This import includes the following numbers of codes:
CPT-4: 1
ICD-9-CM: 0
SNOMED CT: 5
Total number of codes: 6
Col>    1 |<PF1>H=Help <PF1>E=Exit| Line>    27 of 27    Screen>    2 of 2
668, 1   VT500-7 -- 10.72.241.80 via TELNET   00:26:48   Num
```

```
I1028 - Reflection for UNIX and OpenVMS
File  Edit  Connection  Setup  Macro  Window  Help

                          Taxonomy Inquiry
--------------------------------------------------------------------------------
JG-AAA                                                                   No. 60
--------------------------------------------------------------------------------

Class: LOCAL
Sponsor:
Review Date:

Description:
AAA codes

Inactive Flag:
Patient Data Source:
Use Inactive Problems:

Selected Codes:

Lexicon Search Term/Code: COPD (imported)

Coding System: CPT-4
Code       Activation Inactivation  UID  Description
--------   ---------- ------------  ---  -----------
Col>   1 |<PF1>H=Help <PF1>E=Exit| Line>    22 of 68     Screen>     1 of 4

812, 1   VT500-7 -- 10.72.241.80 via TELNET   00:27:59   Num
```

If you are satisfied, then when the Browser is exited, respond yes to this prompt:

```
Do you want to save the imported codes? Y//
```

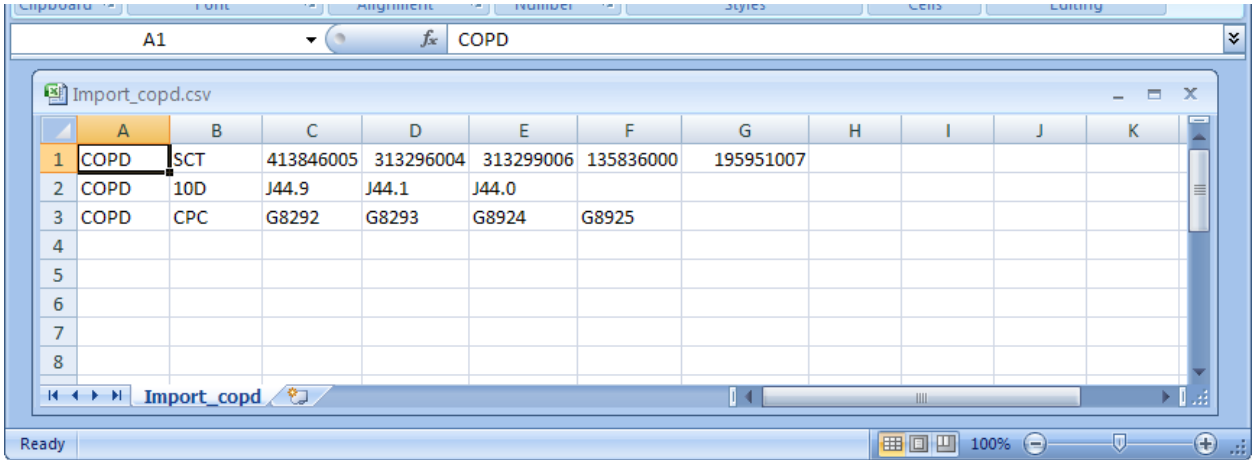
If there are problems with any of the codes, error messages will be displayed.

When the codes are imported into the taxonomy, each Term/Code will have “(imported)” appended to it so that you will know the codes were imported.

Import: CSV Paste

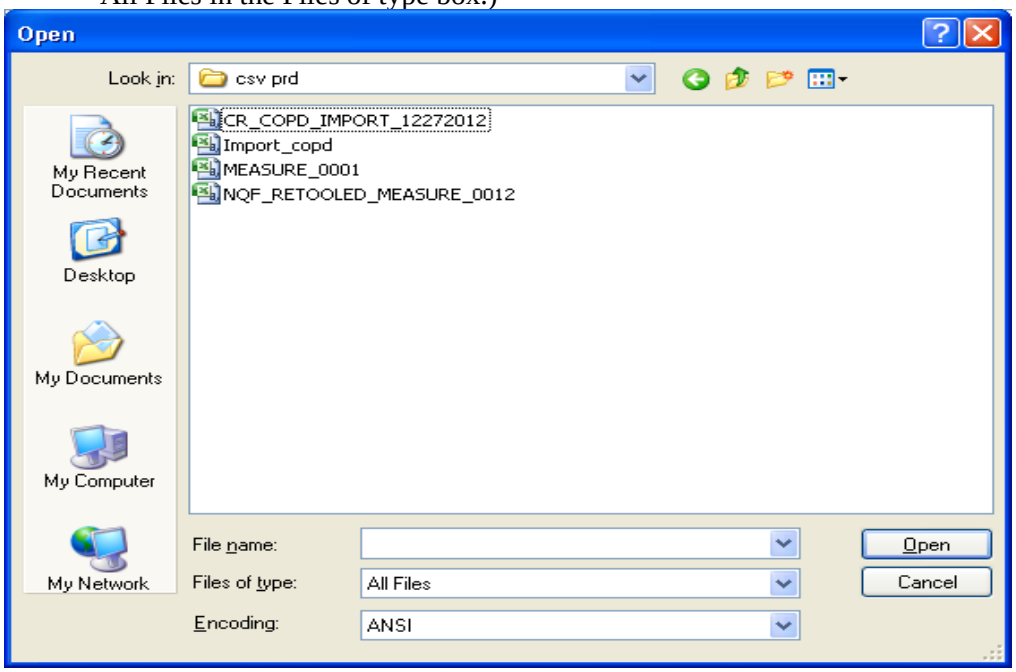
Another way to import a CSV file is the PA option. When you use this option, you open the CSV file on your workstation and copy it.

1. Create an Excel Spreadsheet. The first column of the new spreadsheet is equivalent to the Term/Code, the second column is the three-character coding system abbreviation for one of the supported coding systems, and the rest of the columns are the codes to be imported for the Term/Code, coding system pair. The spreadsheet can have multiple rows, a row for each Term/Code, coding system, set of codes to be imported. The final step is to create a CSV file (comma-delimited text file), using the Save As action.

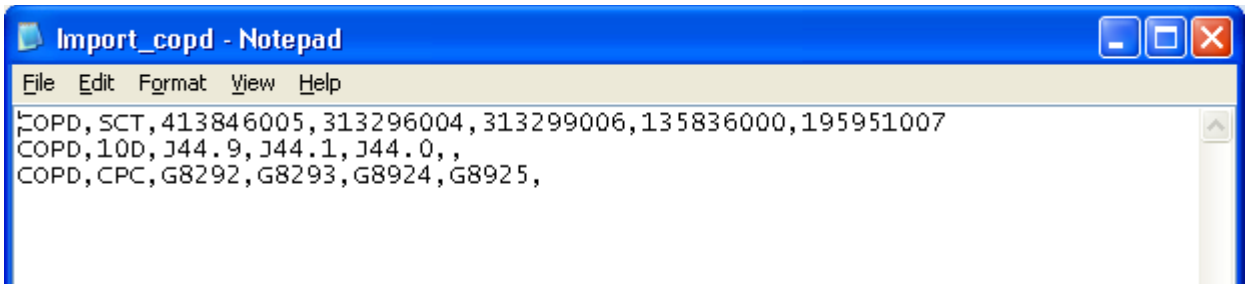


	A	B	C	D	E	F	G
1	COPD	SCT	413846005	313296004	313299006	135836000	195951007
2	COPD	10D	J44.9	J44.1	J44.0		
3	COPD	CPC	G8292	G8293	G8924	G8925	

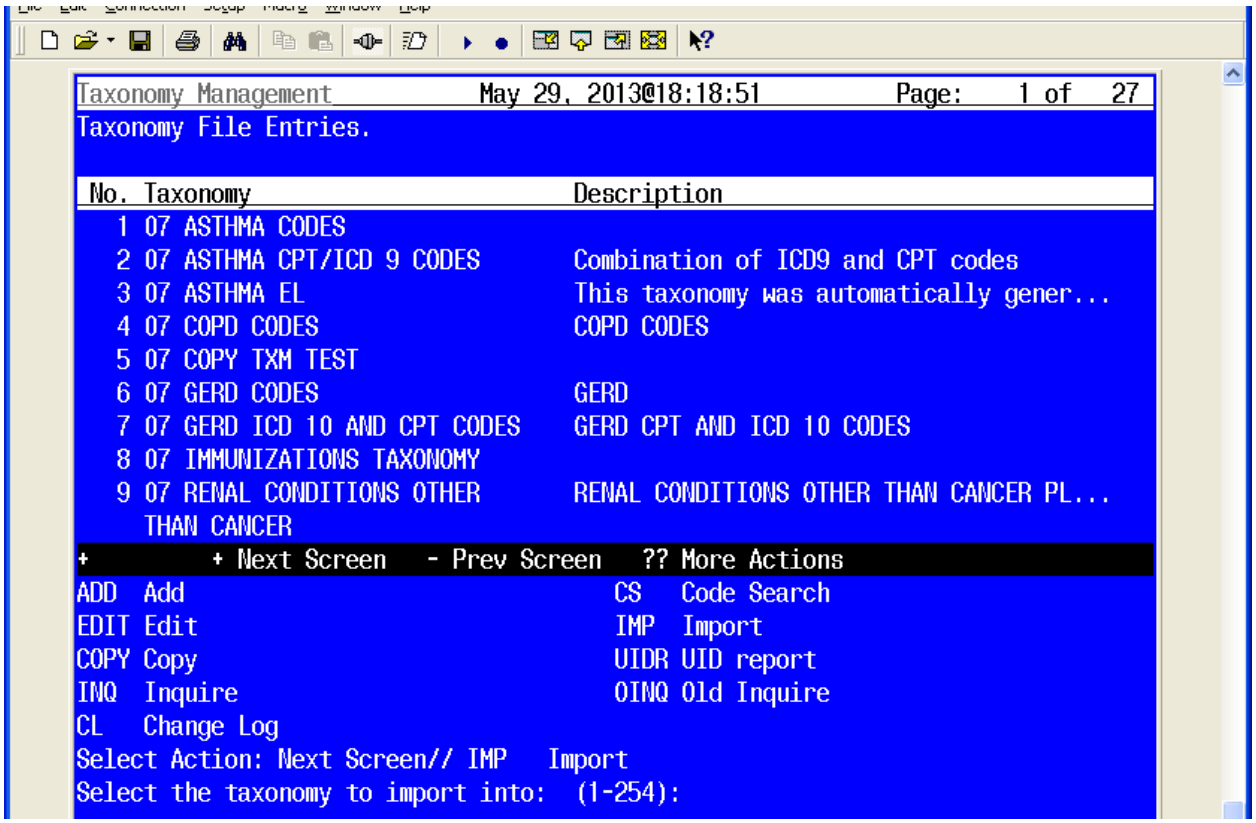
2. Save the imported files as a CSV.
3. Open the CSV file, as a text file, using a text editor such as Notepad or Microsoft Word. (Select All Files in the Files of type box.)



4. Open the desired csv file, and copy the contents so they are ready for pasting.



5. In Taxonomy Management, select the action IMP and press enter.
6. At the prompt, enter the number of the Taxonomy that the import file will be imported to.



7. Select PA for the import method.

```
+          + Next Screen   - Prev Screen   ?? More Actions

     Select one of the following:

          HF        CSV host file
          PA        CSV file paste
          TAX       Another taxonomy
          WEB       CSV file from a web site

Select the import method:
```

8. At the 'Paste the CSV file now prompt, click on Paste from the file menu (or select the Paste icon) and press <enter> to finish.

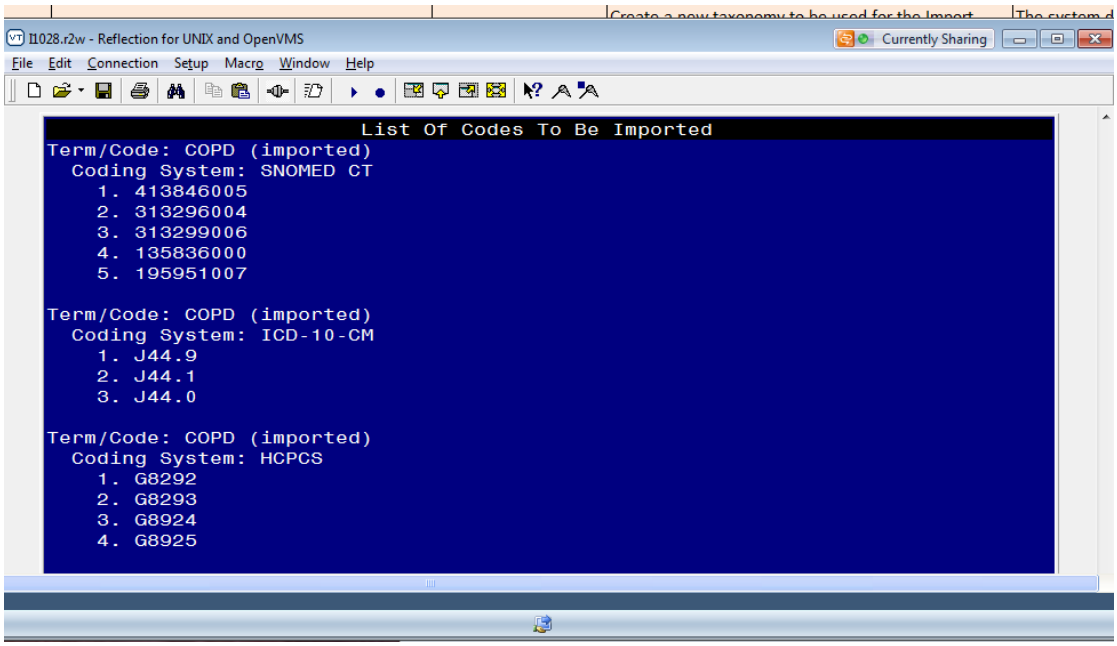
```
File  Edit  Connection  Setup  Macro  Window  Help

Taxonomy Management          May 29, 2013@17:28:52          Page:    2 of   27
Taxonomy File Entries.

+No. Taxonomy                          Description
  10 07 V*-IMAGING FOR AAA (CPT)       CPT CODES FOR RADIOLOGY PROCEDURES
  11 10 EG CPT ONLY
  12 10 EG ICD10 AND CPT
  13 10 EG ICD10 ONLY
  14 10 EG ICD9 AND CPT
  15 10 EG ICD9 ONLY
  16 10 EG TEST
  17 10 IMPORT TAX                     test import tax
  18 10 IMPORT TAX SEL
  19 10 IMPORT TAX2                    TEST IMPORT TAX 2
+          + Next Screen   - Prev Screen   ?? More Actions
          HF        CSV host file
          PA        CSV file paste
          TAX       Another taxonomy
          WEB       CSV file from a web site

Select the import method: pa  CSV file paste
Paste the CSV file now, press <ENTER> to finish.COPD,SCT,413846005,313296004,313
299006,135836000,195951007COPD,10D,J44.9,J44.1,J44.0,,COPD,CPC,G8292,G8293,G8924
,G8925,
```

9. Next you will be given the opportunity to browse the list of codes that will be imported. If you are satisfied with the list, respond ‘Y’ to the following prompt to import the codes:



10. After browsing, you'll be asked if you want to save the codes.

```
Do you want to save the imported codes? Y//
```

11. You can also do an inquiry on the taxonomy you imported the codes into, to verify that these have been entered.

```
+          + Next Screen    - Prev Screen    ?? More Actions
ADD  Add                                   CS   Code Search
EDIT Edit                                  IMP  Import
COPY Copy                                  UIDR UID report
INQ  Inquire                               OINQ Old Inquire
CL   Change Log
Select Action: Next Screen// inq   Inquire
Display inquiry for which taxonomy?:  (1-254): 105
```

```
I1028 - Reflection for UNIX and OpenVMS
File  Edit  Connection  Setup  Macro  Window  Help

                          Taxonomy Inquiry

Selected Codes:

Lexicon Search Term/Code: COPD (imported)

Coding System: ICD-10-CM
Code       Activation Inactivation  UID  Description
---------  ---------- ------------  ---  -----------
J44.0      10/01/2014                   Chronic Obstructive Pulmonary
                                        Disease with Acute lower
                                        Respiratory Infection
J44.1      10/01/2014                   Chronic Obstructive Pulmonary
                                        Disease with (Acute) Exacerbation
J44.9      10/01/2014                   Chronic Obstructive Pulmonary
                                        Disease, unspecified

Coding System: HCPCS
Code       Activation Inactivation  UID  Description
---------  ---------- ------------  ---  -----------
G8292      01/01/2007  01/01/2008       COPD Patient with Spirometry
                                        Results Documented
G8293      01/01/2007  01/01/2011       COPD Patient without Spirometry
Col>   1 |<PF1>H=Help <PF1>E=Exit| Line>    36 of 86     Screen>     2 of 4

818, 1   VT500-7 -- 10.72.241.80 via TELNET   03:19:17   Num
```

Import – TAX

If you choose the TAX option then you will be presented with a list of all the taxonomies on the system and you can create a list of taxonomies to import codes from.

```
   2 07 ASTHMA CPT/ICD 9 CODES       Combination of ICD9 and CPT codes
   3 07 ASTHMA EL                    This taxonomy was automatically gener...
   4 07 COPD CODES                   COPD CODES
   5 07 COPY TXM TEST
   6 07 GERD CODES                   GERD
   7 07 GERD ICD 10 AND CPT CODES    GERD CPT AND ICD 10 CODES
   8 07 IMMUNIZATIONS TAXONOMY
   9 07 RENAL CONDITIONS OTHER       RENAL CONDITIONS OTHER THAN CANCER PL...
     THAN CANCER
+          + Next Screen   - Prev Screen   ?? More Actions
     Select one of the following:

          HF        CSV host file
          PA        CSV file paste
          TAX       Another taxonomy
          WEB       CSV file from a web site

Select the import method: TAX  Another taxonomy
Select a taxonomy or taxonomies to import from.
```

```
Taxonomy Choose Entries        May 24, 2013@15:10:44          Page:    1 of   25
Taxonomy File Entries.

 No. Taxonomy                          Description
   1 07 ASTHMA CODES
   2 07 ASTHMA CPT/ICD 9 CODES         Combination of ICD9 and CPT codes
   3 07 ASTHMA EL                      This taxonomy was automatically gener...
   4 07 COPD CODES                     COPD CODES
   5 07 COPY TXM TEST
   6 07 GERD CODES                     GERD
   7 07 GERD ICD 10 AND CPT CODES      GERD CPT AND ICD 10 CODES
   8 07 IMMUNIZATIONS TAXONOMY
   9 07 RENAL CONDITIONS OTHER         RENAL CONDITIONS OTHER THAN CANCER PL...
     THAN CANCER
+          + Next Screen   - Prev Screen   ?? More Actions
SEL  Select an entry
REM  Remove an entry
INQ  Inquire
Select Action: Next Screen// sel   Select an entry
Enter a number (1-237): 4
```

The SEL action adds a taxonomy to the list and the REM action removes it from the list. Once the list is built use the DONE action. You will then see the following prompt for each selected taxonomy:

```
Ready to import codes from taxonomy (taxonomy name here)

     Select one of the following:

          ALL       All codes
          SEL       Selected codes

Enter response: ALL//
```

ALL will import all the codes and SEL will walk you through each Term/Coding System combination in the taxonomy and allow you to choose whether or not to import it.

Importing a CSV file from a web site

```
I1028 - Reflection for UNIX and OpenVMS
File  Edit  Connection  Setup  Macro  Window  Help

Taxonomy Management          May 03, 2013@13:54:15          Page:    4 of   24
Taxonomy File Entries.

+No. Taxonomy                          Description
  28 15V-DIABETES                      THE BLUE COW IS NOT A NORMAL VARIATIO...
  29 17 E&M CODES ONLY                 Taxonomy Testing CPT codes only
  30 17 HTN ICD9 ONLY                  Taxonomy Testing ICD-9 codes only
  31 17 ICD10 & CPT                    Taxonomy Testing ICD-10 and CPT codes...
  32 17DIABETES                        TAXONOMY TESTING - ICD10 CODES ONLY
  33 17HTN                             Testing software - CPT and ICD-9 codes
  34 19COPD                            19TESTING
  35 AGP AAA ALL                       ICD codes and CPT codes indicating AAA
  36 AGP AAA DIAGNOSIS                 ICD codes and CPT codes indicating AAA
  37 AGP AAA PROCEDURE ONLY            ICD codes and CPT codes indicating AAA
+         + Next Screen   - Prev Screen   ?? More Actions
     Select one of the following:

         HF        CSV host file
         PA        CSV file paste
         TAX       Another taxonomy
         WEB       CSV file from a web site

Select the import method: WEB  CSV file from a web site
Input the exact url for the CSV file: http://vista.med.va.gov/reminders/CR_COPDV
```

Hint - If you have the url copied to the clipboard you can paste it at the Input prompt.

```
Taxonomy Management          May 03, 2013@13:54:15          Page:    4 of   24
Taxonomy File Entries.

+No. Taxonomy                          Description
  28 15V-DIABETES                      THE BLUE COW IS NOT A NORMAL VARIATIO...
  29 17 E&M CODES ONLY                 Taxonomy Testing CPT codes only
  30 17 HTN ICD9 ONLY                  Taxonomy Testing ICD-9 codes only
  31 17 ICD10 & CPT                    Taxonomy Testing ICD-10 and CPT codes...
  32 17DIABETES                        TAXONOMY TESTING - ICD10 CODES ONLY
  33 17HTN                             Testing software - CPT and ICD-9 codes
  34 19COPD                            19TESTING
  35 AGP AAA ALL                       ICD codes and CPT codes indicating AAA
  36 AGP AAA DIAGNOSIS                 ICD codes and CPT codes indicating AAA
  37 AGP AAA PROCEDURE ONLY            ICD codes and CPT codes indicating AAA
+         + Next Screen   - Prev Screen   ?? More Actions
Starting the import process ...
Invalid coding system code pair:
 Coding system is ICD, code is J44.9
Invalid coding system code pair:
 Coding system is ICD, code is J44.1
Invalid coding system code pair:
 Coding system is ICD, code is J44.0

Do you want to browse the list of codes? Y//
```

```
                    List Of Codes To Be Imported
Term/Code: COPD (imported)
  Coding System: SNOMED CT
    1. 413846005
    2. 313296004
    3. 313299006
    4. 135836000
    5. 195951007

Term/Code: COPD (imported)
  Coding System: ICD-9-CM
Invalid coding system code pair:
 Coding system is ICD, code is J44.9
Invalid coding system code pair:
 Coding system is ICD, code is J44.1
Invalid coding system code pair:
 Coding system is ICD, code is J44.0

Term/Code: COPD (imported)
  Coding System: CPT-4
    1. 1015F

Col>   1 |<PF1>H=Help <PF1>E=Exit| Line>    22 of 27     Screen>     1 of 2
```

Use in Dialog Report (UIDR)

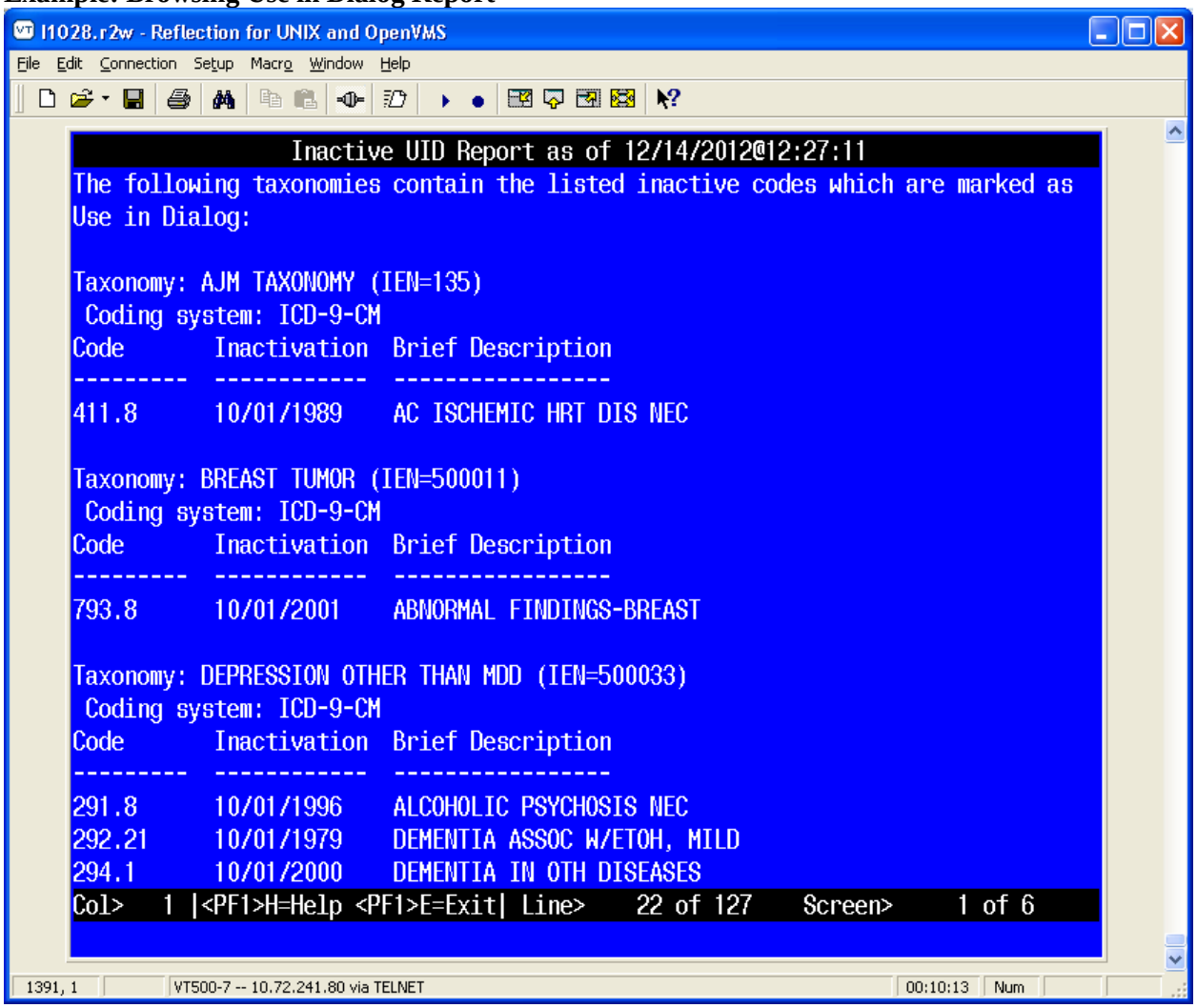
The Use in Dialog Report option searches all taxonomies for inactive codes that are marked as Use in Dialog. If any of these are found, a Browser window displays the taxonomies and information about the inactive code(s) they contain.

Select UIDR from the Taxonomy Selection screen:

```
Taxonomy Management          Jun 06, 2014@11:43:12          Page:    1 of   33
Taxonomy File Entries.

 No. Taxonomy                          Description
   1 07 ASTHMA CODES
   2 07 ASTHMA CPT/ICD 9 CODES         Combination of ICD9 and CPT codes
   3 07 ASTHMA EL                      This taxonomy was automatically gener...
   4 07 COPD CODES                     COPD CODES
   5 07 COPY TXM TEST
   6 07 GERD CODES                     GERD
   7 07 GERD ICD 10 AND CPT CODES      GERD CPT AND ICD 10 CODES
   8 07 IMMUNIZATIONS TAXONOMY
   9 07 RENAL CONDITIONS OTHER         RENAL CONDITIONS OTHER THAN CANCER PL...
     THAN CANCER
+          + Next Screen   - Prev Screen   ?? More Actions
ADD  Add                                CS   Code Search
EDIT Edit                               IMP  Import
COPY Copy                               UIDR UID report
INQ  Inquire                            OINQ Old Inquire
CL   Change Log
Select Action: Next Screen// UIDR
```

Once the report is built a Browser screen will open displaying the report.
Example: Browsing Use in Dialog Report



Code Set Versioning

The Health Insurance Portability and Accessibility Act (HIPAA) stipulates that specific code sets used for billing purposes must be versioned based on the date of service. Those code sets must be applicable at the time the service is provided. Clinical Reminders was required to make changes to ensure that users would be able to select codes based upon a date that an event occurred with the Standards Development Organization (SDO)-established specific code and translation that existed on an event date.

Because of this, when reminder dialogs are processed the user can only select codes that are active on the encounter date. For historical entries the user may select a code that is currently inactive, but was active on the date of the historical encounter. In practical terms, this means that you may want to leave codes that have been recently inactivated marked as Use in Dialog (UID), but remove UID from codes that were inactivated some time ago.

Taxonomies are another matter; even though a code has been inactivated, it probably should still be left in the taxonomy, because you will still want to be able to find any patients that were given the code in the past when it was active.

When Lexicon code set updates are installed it triggers the generation of reports which are sent to the Clinical Reminders mail group defined in file #800. In the past, the content of these reports was based upon the use of expansion in taxonomies and the use of individual codes as findings or additional findings in reminder dialogs. Since expansion is no longer used and individual codes are no longer used in dialogs the content has changed and is much simpler. Now, it is very similar to the Use in Dialog Report and lists codes which are marked as Use in Dialog but are now inactive. When you receive the messages, review them to see what action should be taken, if any.

Example : Code Set Update Message

```
Subj: Clinical Reminder taxonomy updates, ICD global was updated.  [#95437]
11/27/12@15:32  159 lines
From: XXXXX,YYY (Yyy Xxxxxxx)  In 'IN' basket.   Page 1
-------------------------------------------------------------------------------
There was an ICD code set update on 11/27/2012@15:32:39.

The following taxonomies contain the listed inactive codes which are marked as
Use in Dialog:

Taxonomy: AGP HYPERTENSION TEST (IEN=219)
 Coding system: ICD-9-CM
Code       Inactivation  Brief Description
---------  ------------  -----------------
404.1      10/01/1989    BEN HYPERT HRT/RENAL DIS

Taxonomy: AWAT CPT AND POV (IEN=660013)
 Coding system: ICD-9-CM
Code       Inactivation  Brief Description
---------  ------------  -----------------
008.61     01/01/2012    ROTAVIRUS
```

```
Taxonomy: BREAST TUMOR (IEN=500011)
 Coding system: ICD-9-CM
Code       Inactivation  Brief Description
---------  ------------  -----------------
793.8      10/01/2001    ABNORMAL FINDINGS-BREAST


Taxonomy: DEPRESSION OTHER THAN MDD (IEN=500033)
 Coding system: ICD-9-CM
Code       Inactivation  Brief Description
---------  ------------  -----------------
291.8      10/01/1996    ALCOHOLIC PSYCHOSIS NEC
292.21     10/01/1979    DEMENTIA ASSOC W/ETOH, MILD
294.1      10/01/2000    DEMENTIA IN OTH DISEASES

Taxonomy: HF INJECTION OTHER (IEN=200)
 Coding system: CPT-4
Code       Inactivation  Brief Description
---------  ------------  -----------------
90772      01/01/2009    THER/PROPH/DIAG INJ, SC/IM

Please review the affected taxonomies and take appropriate action

Enter message action (in IN basket): Ignore//
```

Value Sets

The National Library of Medicine has a Value Set Authority Center (VSAC) web site, where value sets can be obtained. From the web site: "Value sets are lists of specific values (terms and their codes) derived from single or multiple standard vocabularies used to define clinical concepts (e.g. patients with diabetes, clinical visit, reportable diseases) used in quality measures and to support effective health information exchange." These value sets cover many clinical areas of relevance to the VA and since they are very similar to taxonomies they can be used to automatically generate taxonomies.

To introduce value set functionality into VistA, patch PXRM*2*47 added the following files:

- NLM QUALITY MEASURE GROUPS (file #802.3),
- NLM VALUE SET CODING SYSTEMS (file #802.1),
- NLM VALUE SETS (file #802.2).

And on the PXRM MANAGERS MENU it added an option for Value Sets:

```
Select OPTION NAME: PXRM MANAGERS MENU       Reminder Managers Menu


   CF      Reminder Computed Finding Management ...
   RM      Reminder Definition Management ...
   SM      Reminder Sponsor Management ...
   TXM     Reminder Taxonomy Management
   TRM     Reminder Term Management ...
   LM      Reminder Location List Management ...
   RX      Reminder Exchange
   RT      Reminder Test
   OS      Other Supporting Menus ...
   INFO    Reminder Information Only Menu ...
   DM      Reminder Dialog Management ...
   CP      CPRS Reminder Configuration ...
   RP      Reminder Reports ...
   MST     Reminders MST Synchronization Management ...
   PL      Reminder Patient List Menu ...
   PAR     Reminder Parameters ...
   ROC     Reminder Order Check Menu ...
   XM      Reminder Extract Menu ...
   VS      NLM Value Set Menu
   CQM     NLM Clinical Quality Measures Menu
   GEC     GEC Referral Report
```

When the VS option is selected it opens a List Manager screen:

```
NLM Value Set Menu            Feb 19, 2015@11:50:18          Page:    1 of  191
NLM Value Sets

 No.  Value Set                                                  Version Date
   1  Above Normal Follow-up                                      Jul 01, 2014
      (2.16.840.1.113883.3.600.1.1525)
   2  Above Normal Medications                                    Jul 01, 2014
      (2.16.840.1.113883.3.600.1.1498)
   3  ACE Inhibitor or ARB                                        Jul 01, 2014
      (2.16.840.1.113883.3.526.3.1139)
   4  ACE Inhibitor or ARB Ingredient                             Jul 01, 2014
      (2.16.840.1.113883.3.526.3.1489)
   5  Activation of Emergency Medical System Education            Apr 01, 2014
      (2.16.840.1.113883.3.117.1.7.1.377)
+          + Next Screen   - Prev Screen   ?? More Actions
CT   Create Taxonomy                    CS   Code Search
INQ  Inquire
Select Action: Next Screen//
```

The List Manger screen lists all the value sets contained in the NLM Value Set file. Since it is List Manager, all the standard List Manager actions such as SL (search list) are available. In addition to the standard List Manager actions, there are these actions:

Create Taxonomy
This action will automatically generate a new taxonomy from a value set. Some value sets contain coding systems that are not supported in taxonomies so when a taxonomy is generated, these coding systems will not be included. When you select the CT action you are prompted for the value set, after it has been selected the value set is scanned for coding systems that can be imported into the taxonomy, they are listed. The default name for the new taxonomy is the name of the value set; you are given the opportunity to change it. The taxonomy is then created and the code list is populated. The description of the taxonomy will be populated with text stating it was automatically generated from a value set.

```
                    Taxonomy Inquiry - Condensed
-------------------------------------------------------------------------------
COLON CANCER VALUE SET EXAMPLE                                          No. 416
-------------------------------------------------------------------------------

Class: LOCAL
Sponsor:
Review Date:

Description:
This taxonomy was automatically generated from the value set:
 Colon Cancer
 OID - 2.16.840.1.113883.3.526.3.391
 Version Date - May 01, 2015
```

Inquire
This action will display the contents of the selected value set. You have the option of a condensed or full inquiry. Both list all the codes in the value set, but in the condensed only the first 57 characters of the

code description are shown while the full inquiry lists the entire description. All the clinical quality measures that use the value set are listed at the end of the inquiry. In the condensed inquiry, only the name of the quality measures is displayed. In the full inquiry, comprehensive information about the quality measures is listed include its name, CMS ID, version number, GUID, NQF number, steward, and description.

Code Search
This action allows you to select from a list of NLM Value Set Coding Systems then input a code from that coding system and it returns a list of all the value sets that contain that code.

In addition to these explicit actions, the standard set of List Manager actions is available, you can see the list by typing "??". Initially the help for the visible actions is displayed in a FileMan Browser screen, after exiting that screen the hidden action help is displayed. Probably the three most useful actions are:
FS – First Screen
LS – Last Screen
SL – Search List; this is a non-case sensitive search of the text in the List Manager display. It is a convenient way to find value sets that have specified text in their name. You can find all the values sets that contain "mumps" in their name by typing "mumps" at the "Search for:" prompt.

Reminder Term Management

A reminder term provides a way to group findings under a single name, just as a taxonomy lets you group a set of codes under a single name. Each term has a findings multiple that is just like the findings multiple in the reminder definition. When you add findings to this multiple, we call it "mapping" the term. All the findings that are mapped to the term should represent the same concept. The list of possible findings in a term is the same as in a definition, except that a term cannot have another term as a finding.

When a term is evaluated, the entire list of findings is evaluated and the most recent finding is used for the value of the term. If the most recent finding is false (which could happen as a result of a Condition), then the term is false.

A term's Class can be:
- National (N)
- VISN (V)
- Local (L)

These options are necessary for national guidelines/reporting. The Reminder Term functionality allows you to map local or VISN-level findings to national terms.

Reminder Term Management Options

Synonym	Option	Option Name	Description
TL	List Reminder Terms	PXRM TERM LIST	This option allows a user to display a list of reminder terms that have been defined.
TI	Inquire about Reminder Term	PXRM TERM INQUIRY	This option allows a user to display the contents of a reminder term in an easy-to-read format.
TE	Add/ Edit Reminder Term	PXRM TERM EDIT	This option is used to edit reminder terms. NOTE: Name the reminder terms using all capital letters because the names are case-sensitive.
TC	Copy Reminder Term	PXRM TERM COPY	This option allows a user to copy an existing reminder term into a new one. The new term must have a unique name.
TEST	TERM TEST	PXRM TERM TESTER	This option allows a user to test a reminder term against a patient. The option returns a true/false value. If the term is true the option also writes out the FIEVAL array

List Reminder Terms

This option is used to give a brief listing of reminder terms.

```
Select Reminder Term Management Option: TL  List Reminder Terms
DEVICE:   ANYWHERE    Right Margin: 80//
REMINDER TERM LIST                                SEP 16,2003  14:17    PAGE 1
-------------------------------------------------------------------------------

ACUTE MEDICAL CONDITION
    Class:         NATIONAL
    Date Created:
    Sponsor:
    Review Date:
    Description:   Screening for depression may not be possible in patients
                   with acute medical conditions.  This term represents any
                   data element that is used to indicate that the patient has
                   an acute medical condition that prevents screening for
                   depression.  E.g. delirium, alcohol hallucinosis, florid
                   psychosis, MI's and other medical emergencies.
    Findings:      UNABLE TO SCREEN-ACUTE MED CONDITION (FI(1)=HF(107))


AIM EVALUATION NEGATIVE
    Class:         NATIONAL
    Date Created:
    Sponsor:
    Review Date:
    Description:   Represents any AIM evaluation that is negative or normal.
    Findings:      AIMS (FI(2)=MH(234))

AIM EVALUATION POSITIVE
    Class:         NATIONAL
    Date Created:
    Sponsor:
    Review Date:
```

```
    Description:   Represents any AIM evaluation that is positive or scored
                   above the cutoff defined as abnormal.  (AIMS greater than
                   or equal to 7)
    Findings:      AIMS (FI(2)=MH(234))


ALANINE AMINO (ALT) (SGPT)
    Class:         NATIONAL
    Date Created:  MAY 21,2000
    Sponsor:       INFECTIOUS DISEASES PROGRAM OFFICE, VAHQ
    Review Date:
    Description:   This term represents serum glutamic-pyruvic transaminase
                   or ALT laboratory tests. Enter the finding items from the
                   Laboratory Test file (#60) that represent the SGPT test.

                   National terms related to this term.
                     WKLD CODE file (#64): The national lab test term is
                   Transferase Alanine Amino  SGPT.

                     CPT File (#81) procedure:
                       CPT code: 84460    SHORT NAME: ALANINE AMINO (ALT) (SGPT)
                       CPT CATEGORY: CHEMISTRY              SOURCE: CPT
                       EFFECTIVE DATE: JUN 01, 1994         STATUS: ACTIVE
```

List Reminder Terms, cont'd

```
                      DESCRIPTION: TRANSFERASE;
                       DESCRIPTION: ALANINE AMINO (ALT) (SGPT)

                     Lexicon: The CPT code is in the Lexicon term as a
                   Laboratory Procedure term.
    Findings:

ANTIDEPRESSANT MEDICATIONS
    Class:         NATIONAL
    Date Created:  DEC 28,2000
    Sponsor:
    Review Date:
    Description:
    Findings:      CN600 (FI(1)=DC(86))
                   CN609 (FI(2)=DC(395))
                   CN602 (FI(3)=DC(88))
                   CN601 (FI(4)=DC(87))
                   BUSPIRONE (FI(5)=DG(1165))
```

Inquire about Reminder Term

This option lets you display the contents of a reminder term in an easy-to-read format.

```
Select Reminder Term Management Option: TI  Inquire about Reminder Term
Select Reminder Term:    IHD DIAGNOSIS     NATIONAL
         ...OK? Yes//   (Yes)

DEVICE:   ANYWHERE    Right Margin: 80//
REMINDER TERM INQUIRY                        Jul 03, 2003 11:06:58 am  Page 1
-------------------------------------------------------------------------------

IHD DIAGNOSIS                                                   No.27
-----------------------------------------------------------------------------
```

```
Class:                  NATIONAL
Sponsor:                Office of Quality & Performance
Date Created:           JUL 23,2001
Review Date:

Description:
    This term represents patients diagnosed with Ischemic Heart Disease
    (IHD).

    This term is distributed pre-mapped to the VA-ISCHEMIC HEART DISEASE
    taxonomy. The Active Problem list, Inpatient Primary Diagnosis and
    Outpatient Encounter Diagnosis are used to search for IHD ICD9 diagnoses.

Edit History:

    Edit Date: JAN 18,2002  16:03       Edit By: CRPROVIDER,ONE
    Edit Comments:  Exchange Install


Findings:

                  Finding Item:  VA-ISCHEMIC HEART DISEASE  (FI(1)=TX(14))
                  Finding Type:  REMINDER TAXONOMY
         Use Inactive Problems:  NO
```

Add/Edit Reminder Term

You can edit terms or add new ones with this option. If the term is National, you can enter new Findings Items, but can't edit other fields. You can edit any fields for VISN or Local terms.

NOTE: Dates, Conditions, and other data entered for Reminder Terms take precedence over the same data entered in Reminder Definitions.

Give the field USE STATUS/COND IN SEARCH a value of "YES" if you want the STATUS LIST and/or CONDITION applied to each result found in the date range for this finding. Only results that have a status on the list or for which the CONDITION is true will be retained. The maximum number to retain is specified by the OCCURRENCE COUNT.

If the finding has both a STATUS LIST and a CONDITION, the status check will be made first; the CONDITION will be applied only if the finding passes the status check.

Reminder Term Edit Example

```
Mapping the local finding, HEPATITIS B SURFACE ANTIBODY, to the National term, HBs

Select Reminder Term: HBs
     1   HBs Ab positive       NATIONAL
     2   HBs Ag positive       NATIONAL
CHOOSE 1-2: 1  HBs Ab positive     NATIONAL
Select Finding: HEPATITIS B SURFACE ANTIBODY
FINDING ITEM: HEPATITIS B SURFACE ANTIBODY// <Enter>
BEGINNING DATE/TIME: <Enter>
ENDING DATE/TIME: <Enter>
OCCURRENCE COUNT: ??
        This is the maximum number of occurrences of the finding to return.
OCCURRENCE COUNT: 3
```

This is where you enter the local finding name.

```
CONDITION: I (V["POS")!(V="+")
CONDITION CASE SENSITIVE: <Enter>
USE STATUS/COND IN SEARCH: ?
     Enter a "Yes" if you want the Status List and/or Condition used in the finding
     search.
     Choose from:
       1        YES
       0        NO
USE STATUS/COND IN SEARCH: Yes

Choose from:
IM   HEPATITIS B
Finding #: 1

Select Finding: <Enter>
Input your edit comments.
Edit? NO// <Enter>

Select Reminder Term: <Enter>
```

NOTE: In most cases, a finding modifier on a term takes precedence over the modifier in the definition. An exception to this is the Occurrence Count. The reason for this can be understood by looking at an example. Let's say a term has been mapped to three findings with an Occurrence Count of 1 for finding 1, 2 for finding 2, and 3 for finding 3. If the maximum number of occurrences is found for each finding, then how do you determine how many occurrences to display? In this case, we would have 6 occurrences, so we have the possibility of displaying anywhere between 1 and 6 of them. The solution is to display the number of occurrences specified at the definition level.

Copy Reminder Term

This option lets you copy an existing reminder term into a new one. The new term must have a unique name.

```
Select Reminder Term Management Option: TC  Copy Reminder Term
Select the reminder term to copy: EDUTERM
   Reminder term to copy: EDUTERM
         ...OK? Yes// <Enter>  (Yes)
PLEASE ENTER A UNIQUE NAME: SLC EDUTERM
The original reminder term EDUTERM has been copied into SLC EDUTERM.
Do you want to edit it now? YES
NAME: SLC EDUTERM// <Enter>
.
```

If you choose to edit the copied term, the sequence of prompts is the same as those shown under Reminder Term Edit, shown on the previous pages.

Reminder Location List Management

Location Lists provide a way to give a name to a list of locations just as a Taxonomy provides a way to give a name to a list of codes.

When a Location List finding is evaluated, a search is made for a Visit (an entry in the Visit file #9000010) at one of the locations on the list in the specified date range (BEGINNING DATE/TIME, ENDING DATE/TIME).

A Location List is built from two types of entries: Hospital Location, file #44 and Clinic Stop, file #40.7. There is a multiple for Hospital Locations and a multiple for Clinic Stops in the Location List file, so when you build a list of locations, you can use Hospital Locations and/or Clinic Stops.

Clinic Stops are ultimately resolvable to a list of Hospital Locations, so when the search is done, it is all based on the Hospital Location recorded for the Visit. There is a CREDIT STOP (field #2503) associated with each Hospital Location. If there are certain Credit Stops that you want to exclude from the list of Hospital Locations associated with a Clinic Stop, then you put these in the CREDIT STOP TO EXCLUDE multiple for each Clinic Stop in the Location List.

Examples:
a) A Location List for primary care clinics can be created that searches for clinics with stop code 323 and excludes any 323 clinic associated with credit stop 710 (Flu shot only).

b) A Location List for Cardiology clinics can be created that searches for clinics with stop code 303 and excludes any 303 clinic associated with credit stop 450 (used for a clinic dedicated to compensation and pension examination).

National Location Lists

VA-ALL LOCATIONS
VA-HOMELESSNESS STOP CODES
VA-IHD QUERI CLINIC STOPS
VA-MH NO SHOW APPT CLINICS LL
VA-MH QUERI MH CLINIC STOPS
VA-MH QUERI PC CLINIC STOPS
VA-MH STOP CODES FOR PTSD EVALUATION
VA-MHTC APPT STOP CODES LL
VA-MHTC EXCLUSIONS STOPS
VA-NEXUS CLINICS WITH OEF/OIF EXCLUSIONS
VA-OEF/OIF EXCLUSION STOPS
VA-SUD CLINICS

Reminder Location List Menu

This menu provides options for creating and editing Reminder Location Lists.

Syn.	Name	Option Name	Description
LL	List Location Lists	PXRM LOCATION LIST LIST	This option is used to get a list of Location Lists.
LI	Location List Inquiry	PXRM LOCATION LIST INQUIRY	This option is used to inquire about a Location List's details.
LE	Add/Edit Location List	PXRM LOCATION LIST EDIT	This option allows creation and editing of Location Lists
LC	Copy Location List	PXRM LOCATION LIST COPY	This option allows the user to copy an existing location list into a new location list; file #810.9. The original location list to be copied is selected first. The new name must be unique. If the new name is not unique, the user must enter a unique name for the new location list entry. If no name is provided, the new entry will not be created. Once a new name is defined for the new location list entry, the new location list entry can be edited to reflect the local location list definition.

List Location Lists

This option is used to produce a list of Location Lists.

```
Select Reminder Location List Management Option: ll  List Location Lists
DEVICE: ;;999  ANYWHERE    Right Margin: 80//
REMINDER LOCATION LIST LIST                    JUL 16,2012  14:08    PAGE 1
                                  AMIS
                                  REPORTING
  CLINIC STOP                     STOP CODE
  HOSPITAL LOCATION
-------------------------------------------------------------------------------

Name: TEST LOCATION LIST
Class: LOCAL

Clinic Stops:
  POST-DEPLOY INTGRTD CARE         135

Hospital Locations:

Name: VA-*LOCATION LIST EMERGENCY
Class: NATIONAL

Clinic Stops:
  EMERGENCY UNIT                   101
  ADMITTING/SCREENING              102

Hospital Locations:

Name: VA-*LOCATION LIST NEXUS MENTAL HEALTH CLINICS
Class: NATIONAL

Clinic Stops:
  PSYCHIATRY - INDIVIDUAL          509
  PSYCHOLOGY-INDIVIDUAL            510
  MENTAL HEALTH CONSULTATION       512
  PSYCHIATRY - GROUP               557
  PSYCHOLOGY-GROUP                 558
  MENTAL HEALTH CLINIC - IND       502
  MENTAL HEALTH CLINIC-GROUP       550
  MH INTERVNTION BIOMED CARE IND   533
  MH INTERVENTION BIOMED GRP       565
  SUBSTANCE USE DISORDR GRP        560
  SUBSTANCE USE DISORDER IND       513
  OPIOID SUBSTITUTION              523
  PTSD CLINICAL TEAM PTS IND       540
  PCT-POST TRAUMATIC STRESS-GRP    561
  PSYCHOGERIATRIC - GROUP          577
  PSYCHOGERIATRIC - INDIVIDUAL     576
  PSYCHOSOCIAL REHAB - GROUP       559
  PSYCHOSOCIAL REHAB - IND         532
  PTSD - GROUP                     516
  PTSD - INDIVIDUAL                562
  SUBST USE DISORDER/PTSD TEAMS    519
  MH RESIDENTIAL CARE IND          503
  RESIDENTIAL CARE (NON-MH)        121
  MHICM - INDIVIDUAL               552
  NON-ACTIVE DUTY SEXUAL TRAUMA    589
  ACTIVE DUTY SEXUAL TRAUMA        524
  DAY TREATMENT-INDIVIDUAL         505
  DAY HOSPITAL-INDIVIDUAL          506
```

```
  INTNSE SUB USE DSRDER GRP        547
  DAY TREATMENT-GROUP              553
  DAY HOSPITAL-GROUP               554
  PSYCHOGERIATRIC DAY PROGRAM      578
  PTSD DAY HOSPITAL                580
  PTSD DAY TREATMENT               581

Hospital Locations:

Name: VA-*LOCATION LIST NEXUS PRIMARY CARE CLINICS
Class: NATIONAL

Clinic Stops:
  GENERAL INTERNAL MEDICINE        301
  PRIMARY CARE/MEDICINE            323
  PRIMARY CARE SHARED APPT         348
  CARDIOLOGY                       303
  ENDO./METAB (EXCEPT DIABETES)    305
  DIABETES                         306
  HYPERTENSION                     309
  INFECTIOUS DISEASE               310
  PULMONARY/CHEST                  312
  COMP WOMEN'S HLTH                322
  GERIATRIC PRIMARY CARE           350
  MH MED PRI CARE IND 2ND TO 323   531
  MH PRIMARY CARE - GROUP          563

Hospital Locations:

Name: VA-ALL LOCATIONS
Class: NATIONAL

Clinic Stops:

Hospital Locations:

Name: VA-IHD QUERI CLINIC STOPS
Class: NATIONAL

Clinic Stops:
  GENERAL INTERNAL MEDICINE        301
  CARDIOLOGY                       303
  ENDO./METAB (EXCEPT DIABETES)    305
  DIABETES                         306
  HYPERTENSION                     309
  PULMONARY/CHEST                  312
  PRIMARY CARE/MEDICINE            323
  GERIATRIC PRIMARY CARE           350
  MENTAL HEALTH CLINIC - IND       502
  COMP WOMEN'S HLTH                322

Hospital Locations:

Name: VA-MH NO SHOW APPT CLINICS LL
Class: NATIONAL
Clinic Stops:
  MENTAL HEALTH CLINIC - IND       502
  MH RESIDENTIAL CARE IND          503
  DAY TREATMENT-INDIVIDUAL         505
  DAY HOSPITAL-INDIVIDUAL          506
  PSYCHIATRY - INDIVIDUAL          509
  PSYCHOLOGY-INDIVIDUAL            510
  MENTAL HEALTH CONSULTATION       512
```

```
  SUBSTANCE USE DISORDER IND       513
  PTSD - GROUP                     516
  SUBST USE DISORDER/PTSD TEAMS    519
  ACTIVE DUTY SEXUAL TRAUMA        524
  WOMEN'S STRESS DISORDER TEAMS    525
  HCHV/HCMI INDIV                  529
  PSYCHOSOCIAL REHAB - IND         532
  MH INTGRTD CARE IND              534
  MH VOCATIONAL ASSISTANCE - IND   535
  PSYCHOLOGICAL TESTING            538
  MH INTGRTD CARE GRP              539
  PTSD CLINICAL TEAM PTS IND       540
  INTNSE SUB USE DSRDER GRP        547
  INTNSE SUB USE DSRDER IND        548
  MENTAL HEALTH CLINIC-GROUP       550
  MHICM - INDIVIDUAL               552
  DAY TREATMENT-GROUP              553
  DAY HOSPITAL-GROUP               554
  PSYCHIATRY - GROUP               557
  PSYCHOLOGY-GROUP                 558
  PSYCHOSOCIAL REHAB - GROUP       559
  SUBSTANCE USE DISORDR GRP        560
  PCT-POST TRAUMATIC STRESS-GRP    561
  PTSD - INDIVIDUAL                562
  MHICM - GROUP                    567
  MH CWT/SE FACE TO FACE           568
  SERV-MH INDIVIDUAL               571
  SERV-MH GROUP                    572
  MH INCENTIVE THERAPY F TO F      573
  MH CWT/TWE FACE TO FACE          574
  MH VOCATIONAL ASSISTANCE-GRP     575
  PSYCHOGERIATRIC - INDIVIDUAL     576
  PSYCHOGERIATRIC - GROUP          577
  PTSD DAY HOSPITAL                580
  PRRC INDIVIDUAL                  582
  PRRC GROUP                       583
  RRTP AFTERCARE IND               588
  RRTP AFTERCARE GRP               595
  RRTP ADMISSION SCREENING SRVCS   596
  RRTP PRE-ADMIT IND               598
  RRTP PRE-ADMIT GRP               599

Hospital Locations:

Name: VA-MH QUERI MH CLINIC STOPS
Class: NATIONAL

Clinic Stops:
  MENTAL HEALTH CLINIC - IND       502

Hospital Locations:

Name: VA-MH QUERI PC CLINIC STOPS
Class: NATIONAL

Clinic Stops:
  GENERAL INTERNAL MEDICINE        301
  CARDIOLOGY                       303
  COMP WOMEN'S HLTH                322
  ENDO./METAB (EXCEPT DIABETES)    305
  PRIMARY CARE/MEDICINE            323
  DIABETES                         306
  HYPERTENSION                     309
```

```
  PULMONARY/CHEST                  312
  MH MED PRI CARE IND 2ND TO 323   531

Hospital Locations:

Name: VA-MH STOP CODES FOR PTSD EVALUATION
Class: NATIONAL

Clinic Stops:
  PTSD - GROUP                     516
  PTSD - INDIVIDUAL                562
  PTSD CLINICAL TEAM PTS IND       540
  PTSD DAY TREATMENT               581
  PTSD POST-TRAUMATIC STRESS       541
  SUBST USE DISORDER/PTSD TEAMS    519
  MENTAL HEALTH CLINIC - IND       502
  MH RESIDENTIAL CARE IND          503
  DAY TREATMENT-INDIVIDUAL         505
  DAY HOSPITAL-INDIVIDUAL          506
  PSYCHIATRY - INDIVIDUAL          509
  PSYCHOLOGY-INDIVIDUAL            510
  MENTAL HEALTH CONSULTATION       512
  ACTIVE DUTY SEXUAL TRAUMA        524
  WOMEN'S STRESS DISORDER TEAMS    525
  MENTAL HEALTH TELEPHONE PRI      527
  TELEPHONE HCMI                   528
  HCHV/HCMI INDIV                  529
  TELEPHONE/HUD-VASH               530
  PSYCHOSOCIAL REHAB - IND         532
  TELEPHONE/PSYCHOSOCIAL REHAB     537
  TELEPHONE/PTSD                   542
  PHONE SUBSTNCE USE DSORDR        545
  TELEPHONE/MHICM                  546
  INTNSE SUB USE DSRDER GRP        547
  MENTAL HEALTH CLINIC-GROUP       550
  MHICM - INDIVIDUAL               552
  DAY TREATMENT-GROUP              553
  DAY HOSPITAL-GROUP               554
  PSYCHIATRY - GROUP               557
  PSYCHOLOGY-GROUP                 558
  PSYCHOSOCIAL REHAB - GROUP       559
  PCT-POST TRAUMATIC STRESS-GRP    561
  MH TEAM CASE MANAGEMENT          564
  MHICM - GROUP                    567
  SERV-MH INDIVIDUAL               571
  SERV-MH GROUP                    572
  PSYCHOGERIATRIC - INDIVIDUAL     576
  PSYCHOGERIATRIC - GROUP          577
  TELEPHONE/PSYCHOGERIATRICS       579
  PTSD DAY HOSPITAL                580
  PRRC INDIVIDUAL                  582
  PRRC GROUP                       583
  PRRC TELEPHONE                   584

Hospital Locations:

Name: VA-MHTC APPT STOP CODES LL
Class: NATIONAL

Clinic Stops:
  MENTAL HEALTH CLINIC - IND       502
  MH RESIDENTIAL CARE IND          503
  GRANT & PER DIEM GROUP           504
```

```
  DAY TREATMENT-INDIVIDUAL         505
  DAY HOSPITAL-INDIVIDUAL          506
  HUD/VASH GROUP                   507
  HCHV/HCMI GROUP                  508
  PSYCHIATRY - INDIVIDUAL          509
  PSYCHOLOGY-INDIVIDUAL            510
  GRANT & PER DIEM INDIV           511
  SUBSTANCE USE DISORDER IND       513
  SUB USE DISORDER HOME VST        514
  PTSD - GROUP                     516
  SUBST USE DISORDER/PTSD TEAMS    519
  HUD/VASH INDIV                   522
  OPIOID SUBSTITUTION              523
  ACTIVE DUTY SEXUAL TRAUMA        524
  WOMEN'S STRESS DISORDER TEAMS    525
  HCHV/HCMI INDIV                  529
  PSYCHOSOCIAL REHAB - IND         532
  MH VOCATIONAL ASSISTANCE - IND   535
  PTSD CLINICAL TEAM PTS IND       540
  INTNSE SUB USE DSRDER GRP        547
  INTNSE SUB USE DSRDER IND        548
  MENTAL HEALTH CLINIC-GROUP       550
  MHICM - INDIVIDUAL               552
  DAY TREATMENT-GROUP              553
  DAY HOSPITAL-GROUP               554
  PSYCHIATRY - GROUP               557
  PSYCHOLOGY-GROUP                 558
  PSYCHOSOCIAL REHAB - GROUP       559
  SUBSTANCE USE DISORDR GRP        560
  PCT-POST TRAUMATIC STRESS-GRP    561
  PTSD - INDIVIDUAL                562
  MHICM - GROUP                    567
  MH CWT/SE FACE TO FACE           568
  SERV-MH INDIVIDUAL               571
  SERV-MH GROUP                    572
  MH INCENTIVE THERAPY F TO F      573
  MH CWT/TWE FACE TO FACE          574
  MH VOCATIONAL ASSISTANCE-GRP     575
  PSYCHOGERIATRIC - INDIVIDUAL     576
  PSYCHOGERIATRIC - GROUP          577
  PTSD DAY HOSPITAL                580
  PRRC INDIVIDUAL                  582
  PRRC GROUP                       583
  RRTP AFTERCARE IND               588

Hospital Locations:

Name: VA-MHTC EXCLUSIONS STOPS
Class: NATIONAL

Clinic Stops:
  DES EXAM                         448
  COMP & PENS (C&P) EXAMS          450
  SMOKING CESSATION                707
  MOVE! PGM INDIV                  372
  MOVE! PGM GROUP                  373

Hospital Locations:

ETC.
```

Location List Inquiry

```
Select Reminder Location List Management Option: li  Location List Inquiry
Select LOCATION LIST: VA-MHTC APPT STOP CODES LL       NATIONAL
DEVICE: ;;999  HOME
REMINDER LOCATION LIST INQUIRY                  Jul 20, 2012 10:45:36 am  Page 1
-------------------------------------------------------------------------------

VA-MHTC APPT STOP CODES LL                                          No. 36
-------------------------------------------------------------------------------

Class:                  NATIONAL

Sponsor:                Office of Mental Health Services

Review Date:

Description:
  This is the Reminder Location List used for encounters to be included and
  excluded based on the stop code designations in designating Veterans who
  need a Mental Health Treatment Coordinator (MHTC).

Edit History:

    Edit Date: JUL  2,2012  12:14       Edit By: TROST,DEBBIE
    Edit Comments:

    Edit Date: JUL  2,2012  12:16       Edit By: TROST,DEBBIE
    Edit Comments:

Clinic Stops:
  MENTAL HEALTH CLINIC - IND      502
    Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
    Exclude locations with no credit stop: NO

  MH RESIDENTIAL CARE IND         503
    Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
    Exclude locations with no credit stop: NO

  GRANT & PER DIEM GROUP          504
    Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
    Exclude locations with no credit stop: NO

  DAY TREATMENT-INDIVIDUAL        505
    Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
    Exclude locations with no credit stop: NO

  DAY HOSPITAL-INDIVIDUAL         506
    Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
    Exclude locations with no credit stop: NO

  HUD/VASH GROUP                  507
    Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
    Exclude locations with no credit stop: NO

  HCHV/HCMI GROUP                 508
    Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
    Exclude locations with no credit stop: NO

  PSYCHIATRY - INDIVIDUAL         509
    Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
    Exclude locations with no credit stop: NO
```

```
PSYCHOLOGY-INDIVIDUAL           510
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

GRANT & PER DIEM INDIV          511
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

SUBSTANCE USE DISORDER IND      513
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

SUB USE DISORDER HOME VST       514
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

PTSD - GROUP                    516
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

SUBST USE DISORDER/PTSD TEAMS   519
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

HUD/VASH INDIV                  522
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

OPIOID SUBSTITUTION             523
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

ACTIVE DUTY SEXUAL TRAUMA       524
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

WOMEN'S STRESS DISORDER TEAMS   525
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

HCHV/HCMI INDIV                 529
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

PSYCHOSOCIAL REHAB - IND        532
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

MH VOCATIONAL ASSISTANCE - IND  535
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

PTSD CLINICAL TEAM PTS IND      540
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

INTNSE SUB USE DSRDER GRP       547
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

INTNSE SUB USE DSRDER IND       548
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
```

```
  Exclude locations with no credit stop: NO

MENTAL HEALTH CLINIC-GROUP      550
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

MHICM - INDIVIDUAL              552
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

DAY TREATMENT-GROUP             553
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

DAY HOSPITAL-GROUP              554
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

PSYCHIATRY - GROUP              557
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

PSYCHOLOGY-GROUP                558
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

PSYCHOSOCIAL REHAB - GROUP      559
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

SUBSTANCE USE DISORDR GRP       560
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

PCT-POST TRAUMATIC STRESS-GRP   561
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

PTSD - INDIVIDUAL               562
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

MHICM - GROUP                   567
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

MH CWT/SE FACE TO FACE          568
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

SERV-MH INDIVIDUAL              571
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

SERV-MH GROUP                   572
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

MH INCENTIVE THERAPY F TO F     573
  Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
  Exclude locations with no credit stop: NO

MH CWT/TWE FACE TO FACE         574
```

```
    Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
    Exclude locations with no credit stop: NO

  MH VOCATIONAL ASSISTANCE-GRP    575
    Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
    Exclude locations with no credit stop: NO

  PSYCHOGERIATRIC - INDIVIDUAL    576
    Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
    Exclude locations with no credit stop: NO

  PSYCHOGERIATRIC - GROUP         577
    Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
    Exclude locations with no credit stop: NO

  PTSD DAY HOSPITAL               580
    Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
    Exclude locations with no credit stop: NO

  PRRC INDIVIDUAL                 582
    Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
    Exclude locations with no credit stop: NO

  PRRC GROUP                      583
    Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
    Exclude locations with no credit stop: NO

  RRTP AFTERCARE IND              588
    Credit Stops to Exclude (LIST): VA-MHTC EXCLUSIONS STOPS
    Exclude locations with no credit stop: NO

Hospital Locations:

Select LOCATION LIST:
```

Add/Edit Location List

```
Select Reminder Location List Management Option: le  Add/Edit Location List

Select Location List: TEST LOCATION LIST       LOCAL
NAME: TEST LOCATION LIST// <Enter>
CLASS: LOCAL// <Enter>
DESCRIPTION:
  1>test list
EDIT? No//: <Enter>
Select CLINIC STOP: CARDIOLOGY// <Enter>
  Select CREDIT STOP TO EXCLUDE: ALCOHOL SCREENING
         //<Enter>
Select CLINIC STOP: <Enter>
Select HOSPITAL LOCATION: OR 1// <Enter>

Select Location List: <Enter>
```

Create a new Location List

Use Add/Edit Location List to create a new list. You can set up a list of reminders associated with a particular location.

```
Select Reminder Location List Management Option: le  Add/Edit Location List

Select Location List: jg-list
  Are you adding 'jg-list' as a new REMINDER LOCATION LIST (the 6TH)? No// y
  (Yes)
   REMINDER LOCATION LIST CLASS: l  LOCAL
NAME: jg-list// <Enter>
CLASS: LOCAL//<Enter>
DESCRIPTION:
  No existing text
  Edit? NO// <Enter>
Select CLINIC STOP: ?
        You may enter a new CLINIC STOP LIST, if you wish
        Enter a clinic stop code

 Answer with CLINIC STOP NAME, or AMIS REPORTING STOP CODE
 Do you want the entire 405-Entry CLINIC STOP List
                 ^
Select CLINIC STOP: alcohol scREENING       706
  Are you adding 'ALCOHOL SCREENING' as
    a new CLINIC STOP LIST (the 1ST for this REMINDER LOCATION LIST)? No// y
   (Yes)
  Select CREDIT STOP TO EXCLUDE: <Enter>
Select CLINIC STOP: alcohol tr
     1   ALCOHOL TREATMENT       81
     2   ALCOHOL TREATMENT-GROUP       556
     3   ALCOHOL TREATMENT-INDIVIDUAL       508
CHOOSE 1-3: 1  ALCOHOL TREATMENT     81
  Are you adding 'ALCOHOL TREATMENT' as
    a new CLINIC STOP LIST (the 2ND for this REMINDER LOCATION LIST)? No// y
  (Yes)
  Select CREDIT STOP TO EXCLUDE: <Enter>

Select CLINIC STOP: <Enter>
Select HOSPITAL LOCATION: ?
        You may enter a new HOSPITAL LOCATION LIST, if you wish
        Enter a hospital location

 Answer with HOSPITAL LOCATION NAME, or ABBREVIATION, or
     STOP CODE NUMBER, or CREDIT STOP CODE, or TEAM
 Do you want the entire 50-Entry HOSPITAL LOCATION List? NO

Select HOSPITAL LOCATION: 8w SUBSTANCE ABUSE
  Are you adding '8W SUBSTANCE ABUSE' as
    a new HOSPITAL LOCATION LIST (the 1ST for this REMINDER LOCATION LIST)? No//y
(Yes)
Select HOSPITAL LOCATION: <Enter>
```

Copy Location List

```
Select Reminder Location List Management Option: LC  Copy Location List

Select the reminder location list to copy: CR-LOCATION LIST NEXUS MENTAL HEALTH
CLINICS       LOCAL
PLEASE ENTER A UNIQUE NAME: NEXUS MENTAL HEALTH CLINICS

The original location list CR-LOCATION LIST NEXUS MENTAL HEALTH CLINICS has been
 copied into NEXUS MENTAL HEALTH CLINICS.
Do you want to edit it now? YES
NAME: NEXUS MENTAL HEALTH CLINICS  Replace


CLASS: LOCAL//
SPONSOR:


REVIEW DATE:
DESCRIPTION:
This location list are the NEXUS Mental Health Clinics.  This list does
not include the original 11 clinics (actually 13) used for EPRP.

  Edit? NO//
Select CLINIC STOP: PTSD DAY TREATMENT//
  CLINIC STOP: PTSD DAY TREATMENT//
  Select CREDIT STOP TO EXCLUDE:
Select CLINIC STOP:
Select HOSPITAL LOCATION:
```

Reminder Exchange

The Clinical Reminders Exchange Utility provides a mechanism for sharing reminder definitions and dialogs among sites throughout the VA or among sites within a VISN. Exchanging reminders helps to simplify reminder and dialog creation. It also helps to promote standardization of reminders based on local, VISN-wide, and national guidelines.

An effective way to use the Exchange Utility is through VISN web sites. You can put a set of "packed reminders" into a host file, and the host file can be posted on a web site for download.

NOTE: Some of the Reminder Exchange options require programmer access (@).

Reminder Exchange allows the exchange of clinical reminders and reminder dialogs from test account to production, between sites, and within VISNs.

Repack

This option allows a user to recreate a file entry without re-selecting all of the selection items again. Once a user selects an Exchange file entry to repack, Reminder Exchange will perform the same checks as creating an Exchange file by hand.

```
Clinical Reminder Exchange    Aug 29, 2018@06:11:10          Page:   41 of   44
Exchange File Entries.

+Item  Entry                           Source                   Date Packed
  314  VA-WH DISCUSS BREAST CA         VANCAMP@SALT LAKE CI     03/28/2013@07:30
       SCREEN WOMAN 40-49
  315  VA-WH DISCUSS BREAST CA WOMAN   VANCAMP@SALT LAKE CI     03/28/2013@07:31
       40-49 DIALOG
  316  VA-WH MAMMOGRAM REVIEW          VANCAMP@SALT LAKE CI     03/28/2013@07:40
       RESULTS DIALOG
  317  VA-WH MAMMOGRAM SCREENING       VANCAMP@SALT LAKE CI     03/28/2013@07:32
  318  VA-WH MAMMOGRAM SCREENING       VANCAMP@SALT LAKE CI     03/28/2013@07:33
       DIALOG
  319  VA-WH PAP SMEAR REVIEW RESULTS  VANCAMP@SALT LAKE CI     03/28/2013@07:34
+         + Next Screen   - Prev Screen   ?? More Actions                   >>>
CFE  Create Exchange File Entry         LHF  Load Host File
CHF  Create Host File                   LMM  Load MailMan Message
CMM  Create MailMan Message             LR   List Reminder Definitions
DFE  Delete Exchange File Entry         LWH  Load Web Host File
IFE  Install Exchange File Entry        RI   Reminder Definition Inquiry
IH   Installation History               RP   Repack
Select Action: Next Screen// rp   Repack
Enter a list or range of numbers (1-339): 314
Repacking entry: VA-WH DISCUSS BREAST CA SCREEN WOMAN 40-49

Checking reminder definition(s) for errors.

Checking reminder definition VA-WH DISCUSS BREAST CA SCREEN WOMAN 40-49
No fatal reminder definition errors were found.

No fatal reminder definition problems were found, packing will continue.

Checking reminder dialog(s) for errors..

No fatal dialog problems were found, packing will continue.
Enter the Exchange File entry name: VA-WH DISCUSS BREAST CA SCREEN WOMAN 40-49
  Replace
```

Changes made with PXRM*2.0*45

- Reminder Exchange will now write a string of dots, instead of the reminder component name when installing the component.
    - Reminder Exchange will only display a component if a user needs to take an action on the component.
- Reminder Exchange will remember the user selection for replacing a finding item not included in the Exchange file entry and automatically use the replacement selection again if the same finding item is used in other reminder components in the Exchange file entry.
- Repack options allows the Reminder Manager to repack an existing exchange file without having to re-select all the selection items again.
- Reminder Exchange re-order the Reminder Components Install Order to prevent the user having to re-install Reminder Dialog Definitions multiple times
- Reminder Exchange will auto-convert Reminder Dialogs that contain branching logic to the new structure if the dialog was packed up before PXRM*2.0*45

Changes made by patch 26

- Automatic packing of the source reminder for a dialog was removed.

- Finding lookup in Reminder Exchange was enhanced to handle mnemonic indexes. An example is the Laboratory Test file #60's Synonym field in the 'B' index. If two entries had the same Synonym and the .01 of one of the entries was identical to the Synonym, the lookup would fail and a duplicate warning message was issued. The code was changed to examine all the entries in the 'B' index and compare the .01 for each of them with the name Exchange is trying to find. If there is a single exact match of the name and a .01, the name is resolved and no duplicate warning will be given. If more than one .01 is identical to the name, the warning will still be given. Remedy ticket #783078.

- The selection range for the Reminder Exchange actions CHF, CMM, DFE, and IFE was changed so that it includes all Exchange file entries, not just those that are visible.

- For some entries in the Reminder Exchange file displaying installation history details for the first install was giving the following undefined error:
  <UNDEFINED>DDISP+31^PXRMEXIH ^PXD(811.8,29,130,1,1,"B",0)
  This happened for old entries for which the 'B' index on the Component List was never cleaned up. The unused indexes are removed.

- Reminder Exchange was updated to handle dialogs that were packed prior to patch 26. If the dialog contains codes, Reminder Exchange will create a new taxonomy when the dialog is installed. It will also replace the codes in the dialog with the new taxonomy. If the dialog contains a taxonomy, Reminder Exchange will update the new fields in the dialog file with the values from the installing site's Finding Parameters File. Because of these changes, the checksum of the installed dialog will always be different than the checksum of what is in the Exchange file.

- In the past, we have encountered problems, especially with Reminder Exchange, caused by using the tilde (~) character in the name of a reminder component. Reminder Exchange was modified to be able to handle the problem, but to prevent unforeseen problems from happening in the future, the input transform used for all the Clinical Reminders .01 fields was modified to not allow "~".

  NOTE: If you think that "~" may have been used in the.01 of a reminder component at your site, you can use FileMan to find any such entries. There are two possible approaches. One is to use

the verify fields function on the FileMan utilities menu and the other is to use the search function to search for any .01 fields that contain "~".

- The ability to load a Reminder Exchange prd file from a web site has been added. This can be used in conjunction with the Import from a Web site feature in Taxonomy Management. Note that the https protocol is not supported; only http works. Also, SharePoint sites cannot be accessed because that requires the user's Windows credentials and they are not available in VistA.

Terminology

Packing: When you create an Exchange File entry, you select one or more reminder component entries for packing. The packing process consists of going through the selected entries and building a list of everything they need to function. The entire list of items is included in the Exchange File entry. For example, if a reminder definition is being packed everything the definition needs to function is included. Some of the included components may not be transportable for various reasons such as being standardized, they will be included in the Exchange File entry so that we know they are used but they will not be installable.

Exchange File (#811.8): Stores entries of packed reminders and dialogs with their components
Packed reminders can be exchanged through VistA MailMan or as a Host file. The default host file extension is .PRD (Packed Reminder Definition).

VistA MailMan: Allows users to send the packed reminder via a VistA mail message. When sites are collaborating on development of new reminders and dialogs, messages containing reminders, dialogs, or other reminder components may be sent between sites for loading into the Clinical Reminders Exchange File (#811.8).

Host File: Often the domains for MailMan transmission for test accounts are closed. In this case, a host file is used to transport the packed reminders. When a host file is created, it is initially stored on the MUMPS server. (Host file is the terminology used in Kernel.) Typically, you would generate a host file for use on a web site. The Host File will have to be moved from the MUMPS server to the web server. Once it is on the web server, it can be downloaded the LWH action.

Technical Overview

In the Reminder Exchange utility, entries are packed into the Exchange File (#811.8) in XML format. Host file or MailMan messages can then be created from the Exchange File for distribution to other sites. Each host file or MailMan message may contain several packed entries. When the receiving site loads a host file or MailMan message into its Exchange File, all the packed entries in the host file or MailMan message are put into the Exchange File. Different versions of the same packed entry may be stored in the Exchange File. They are differentiated by the Date Packed.

All the components used in the item selected for packing are included. Whenever an installation is done, a history of the installation details is retained in the Exchange File.
Reminder dialogs are installed with the disabled field set to “DISABLED IN REMINDER EXCHANGE.” (When you edit the dialog, one of the fields is DISABLE. If this field contains any text, then the dialog is disabled. To enable it, delete the text.)

Steps to Use Reminder Exchange

Summary of Steps
Detailed steps are provided in the following pages.

Export Steps

Step	Action
1. Decide which items to pack	LR – List Reminder Descriptions and RI – Reminder Inquiry
2. Create the Exchange File entry	CFE – Create File Entry
3. Export the packed entries	CHF – Create Host File or CMM – Create MailMan Message

Import Steps

Step	Action
1. Import the packed items into your Exchange File	LHF – Load Host File or LMM – Load MailMan Message LWH – Load from a web site
2. Install the Exchange File entry	IFE – Install File Entry
3. Review what you have done	IH – Installation History
4. Remove entries from your Exchange File when they are no longer needed	DFE – Delete File Entry

Reminder Exchange Main Screen

When you select Reminder Exchange from the Reminder Managers Menu, the Clinical Reminder Exchange main screen opens, which contains a list of current Exchange File entries in your system (if any) and all the options (actions) to create and delete Exchange File entries, to load them into host files and MailMan messages for export, and to import packed reminders from incoming host files and MailMan messages.

List Reminder Definitions and Reminder Definition Inquiry are also included so that you can review reminders before loading them into the Exchange File.

```
Clinical Reminder Exchange          Sep 16, 2004@15:20:11         Page: 1 of    1
Exchange File Entries.

           Entry                        Source                 Date Packed
   1  CDUE                          CRUSER,ONE@SALT CITY      08/08/2003@10:59:52
   2  CHA UNVESTED PATIENTS         CRPROVIDER,TWO@VAMC ONE   09/26/2004@13:00:59
   6  EDUTEST                       CRUSER,ONE@SALT CITY      06/19/2004@11:59:52
   8  Hypertension Screen (VHACHS   CRPROVIDER,SIX@VAMC SIX   09/20/2004@10:59:22

          + Next Screen   - Prev Screen   ?? More Actions
CFE Create Exchange File Entry         LHF  Load Host File
CHF Create Host File                   LMM  Load MailMan Message
CMM Create MailMan Message             LWH  Load Web Host File
DFE Delete Exchange File Entry         LR   List Reminder Definitions
IFE Install Exchange File Entry        RI   Reminder Definition Inquiry
IH  Installation History               RP   Repack
```

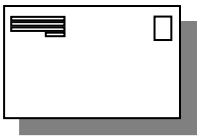
A: Steps to Export Reminders

Export Steps

1. Select item

2. Create an Exchange File Entry
   Enter description
   Enter key words

3. Create MailMan Message or Host File
   Enter subject
   Select recipient



Detailed Steps to Export Reminders

1. Select an item that you want to exchange.

2. Create Exchange File Entry

Use the action CFE – Create Exchange File Entry to create and load packed entries into the Exchange File (#811.8). This allows selection of a reminder component and entry of a description and keywords to be stored in the Exchange File. If a single item is selected the description will be initialized with the description from the item. You may edit it as necessary.

```
Clinical Reminder Exchange    Jan 02, 2009@11:21:47          Page:    1 of    1
Exchange File Entries.
           Entry                        Source                    Date Packed
   1  BLOOD PRESSURE CHECK          CRPROVIDER,ONE@VAMC1      03/28/2004@13:12:26
   2  SLC PNEUMOCOCCAL VACCINE      CRPROVIDER,TWO@VAMC2      03/29/2004@11:55:11
   3  VA-*CHOLESTEROL SCREEN (M)    CRPROVIDER,SIX@VAMC6      03/27/2004@14:59:42
   4  VA-ADVANCED DIRECTIVES EDUC   CRPROVIDER,TEN@VAMC10     3/27/2004@14:54:24
   5  VA-HEP C RISK ASSESSMENT      CRPROVIDER,ONE@VAMC1      03/27/2004@14:56:13

          + Next Screen   - Prev Screen   ?? More Actions
CFE Create Exchange File Entry         LHF  Load Host File
CHF Create Host File                   LMM  Load MailMan Message
CMM Create MailMan Message             LWH  Load Web Host File
DFE Delete Exchange File Entry         LR   List Reminder Definitions
IFE Install Exchange File Entry        RI   Reminder Definition Inquiry
IH  Installation History               RP   Repack
Select Action: Quit// CFE   Exchange File Entry Creation
```

```
Select from the following reminder files:
   1 REMINDER COMPUTED FINDINGS
   2 REMINDER COUNTING GROUP
   3 REMINDER DEFINITION
   4 REMINDER DIALOG
   5 REMINDER EXTRACT COUNTING RULE
   6 REMINDER EXTRACT DEFINITION
   7 REMINDER LIST RULE
   8 REMINDER LOCATION LIST
   9 REMINDER SPONSOR
  10 REMINDER TAXONOMY
  11 REMINDER TERM
12 REMINDER ORDER CHECK ITEMS GROUP
13 REMINDER ORDER CHECK RULES
Select a file:  (1-13):
```

3a. CHF-Create Host File

Use this action to create a host file containing selected entries from the Exchange File (#811.8).

A host file is any file that is stored in your site's local "host" directory or system. A complete host file consists of a path, file name, and extension. A path consists of a device and directory name. The default extension is PRD (Packed Reminder Definition). Your default path is determined by your system manager. If necessary, contact your IRM to learn how host files work at your site.

Example of a valid path:

USER$:[TEMP]

```
Clinical Reminder Exchange     Apr 02, 2004@11:21:47          Page:    1 of    1
Exchange File Entries.
            Entry                          Source                     Date Packed
   1  BLOOD PRESSURE CHECK          CRPROVIDER,ONE@VAMC1      03/28/2004@13:12:26
   2  SLC PNEUMOCOCCAL VACCINE      CRPROVIDER,TWO@VAMC2      03/29/2004@11:55:11
   3  VA-*CHOLESTEROL SCREEN (M)    CRPROVIDER,SIX@VAMC6      03/27/2004@14:59:42
   4  VA-ADVANCED DIRECTIVES EDUC   CRPROVIDER,TEN@VAMC10     3/27/2004@14:54:24
   5  VA-HEP C RISK ASSESSMENT      CRPROVIDER,ONE@VAMC1      03/27/2004@14:56:13

          + Next Screen   - Prev Screen   ?? More Actions
CFE Create Exchange File Entry          LHF  Load Host File
CHF Create Host File                    LMM  Load MailMan Message
CMM Create MailMan Message              LWH  Load Web Host File
DFE Delete Exchange File Entry          LR   List Reminder Definitions
IFE Install Exchange File Entry         RI   Reminder Definition Inquiry
IH  Installation History                RP   Repack
Select Action: Quit// CHF
Select Entry(s):  (1-5): 2
```

```
Enter a path: USER$:[TEMP]// ?

A host file is a file in your host system.
A complete host file consists of a path, file name, and extension
A path consists of a device and directory name.
The default extension is prd (Packed Reminder Definition).
The default path is USER$:[TEMP]

Enter a path: USER$:[TEMP]// <Enter>

Enter a file name: ?

A file name has the format NAME.EXTENSION, the default extension is PRD
Therefore if you type in FILE for the file name, the host file will be
  USER$:[TEMP]FILE.PRD

Enter a file name: DiabeticEye
Will save reminder to host file USER$:[TEMP]DiabeticEye.PRD?: Y//<Enter> ES
```

3b. CMM-Create MailMan Message

Use this action to create a MailMan Message containing selected entries from the Exchange File (#811.8).

```
Clinical Reminder Exchange     Apr 02, 2004@11:21:47          Page:    1 of    1
Exchange File Entries.

           Entry                          Source                    Date Packed
   1  BLOOD PRESSURE CHECK          CRPROVIDER,ONE@VAMC1      03/28/2004@13:12:26
   2  SLC PNEUMOCOCCAL VACCINE      CRPROVIDER,TWO@VAMC2      03/29/2004@11:55:11
   3  VA-*CHOLESTEROL SCREEN (M)    CRPROVIDER,SIX@VAMC6      03/27/2004@14:59:42
   4  VA-ADVANCED DIRECTIVES EDUC   CRPROVIDER,TEN@VAMC10     3/27/2004@14:54:24
   5  VA-HEP C RISK ASSESSMENT      CRPROVIDER,ONE@VAMC1      03/27/2004@14:56:13

          + Next Screen   - Prev Screen   ?? More Actions
CFE Create Exchange File Entry         LHF  Load Host File
CHF Create Host File                   LMM  Load MailMan Message
CMM Create MailMan Message             LWH  Load Web Host File
DFE Delete Exchange File Entry         LR   List Reminder Definitions
IFE Install Exchange File Entry        RI   Reminder Definition Inquiry
IH  Installation History               RP   Repack
Select Action: Quit// cmm   MailMan Message Creation
```

NOTE: The number of packed entries you can send via a MailMan message is limited by the MailMan parameters set locally for the number of lines in a message. Please check with your IRM for the number of lines allowed.

```
Select Entry(s):  (1-5): 2
Enter a subject: [Enter a description of the Mail Message.]
Forward mail to: ?

Enter the recipient(s) of this message in any of the following formats:

Lastname,first              for a user at this site
Lastname,first@REMOTE-SITE  for a user at another site
  (note: DUZ may be used, instead of Lastname,first for local or remote users)
G.<group-name>              for a mail group
D.<device-name>             for a device
*                           for a limited broadcast or broadcast to all users
                            (must be Postmaster or XMSTAR key holder)

Prefix any user address with 'I:' to send Information only.
                             'C:' to send Carbon Copy.
                             'L:' to send Later.
                             '-'  to delete it.

Enter:
G.?                         for a list of mail groups
D.?                         for a list of devices

Enter '??' for detailed help.

Forward mail to: [Enter a user or Mail Group.]
Select basket to send to: IN//
And Forward to:
```

```
Clinical Reminder Exchange     May 03, 2004@11:27:25          Page:    1 of    1
Successfully stored entries in message 43035.

           Entry                        Source                    Date Packed
   1  BLOOD PRESSURE CHECK          CRPROVIDER,ONE@VAMC1      03/28/2004@13:12:26
   2  SLC PNEUMOCOCCAL VACCINE      CRPROVIDER,TWO@VAMC2      03/29/2004@11:55:11
   3  VA-*CHOLESTEROL SCREEN (M)    CRPROVIDER,SIX@VAMC6      03/27/2004@14:59:42
   4  VA-ADVANCED DIRECTIVES EDUC   CRPROVIDER,TEN@VAMC1      03/27/2004@14:54:24
   5  VA-HEP C RISK ASSESSMENT      CRPROVIDER,ONE@VAMC1      03/27/2004@14:56:13

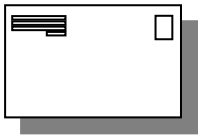
          + Next Screen   - Prev Screen   ?? More Actions
CFE Create Exchange File Entry          LHF  Load Host File
CHF Create Host File                    LMM  Load MailMan Message
CMM Create MailMan Message              LWH  Load Web Host File
DFE Delete Exchange File Entry          LR   List Reminder Definitions
IFE Install Exchange File Entry         RI   Reminder Definition Inquiry
IH  Installation History                RP   Repack
Select Action: Quit//
```

B. Steps to Import Reminders

NOTE: After the installation of PXRM*2*26, you will also be able to load .prd files from a web site, using LWH – Load Web Host File.

1. Request packed entry

2. Receive Mailman Message
   Usually in Production



3. Forward Mailman Message
   To test account (if necessary)

4. Load MailMan message
   Creates entry

1a. LMM – Load MailMan Message

This option lets you load a MailMan message containing packed entries into your site's Exchange File (811.8).

```
Clinical Reminder Exchange    Jul 23, 2005@11:40:01          Page:    1 of    2
           Entry                          Source                     Date Packed


          + Next Screen   - Prev Screen   ?? More Actions
CFE Create Exchange File Entry          LHF  Load Host File
CHF Create Host File                    LMM  Load MailMan Message
CMM Create MailMan Message              LWH  Load Web Host File
DFE Delete Exchange File Entry          LR   List Reminder Definitions
IFE Install Exchange File Entry         RI   Reminder Definition Inquiry
IH  Installation History                RP   Repack
Select Action: Next Screen// lmm   Load MailMan Message

     1   CREX: diabetic eye exam
         CRPROVIDER,ONE JUL 23, 2001@11:39:51

     2   CREX: pain screening
         CRPROVIDER,ONE JUL 23, 2001@11:37:59

CHOOSE 1-2: 1  CREX: diabetic eye exam
         CRPROVIDER,ONE JUL 23, 2001@11:39:51

Loading MailMan message number 44024
```

1b. LHF – Load Host File

This action lets you load a host file containing packed entries into your local Exchange File (#811.8).

NOTE: Programmer access may be required to upload local host files, depending on how local file protections are set.

```
Clinical Reminder Exchange    Apr 02, 2004@11:21:47          Page:    1 of    1
Exchange File Entries.

           Entry                          Source                     Date Packed
   1  BLOOD PRESSURE CHECK          CRPROVIDER,ONE@VAMC1      03/28/2004@13:12:26
   2  SLC PNEUMOCOCCAL VACCINE      CRPROVIDER,TWO@VAMC2      03/29/2004@11:55:11
   3  VA-*CHOLESTEROL SCREEN (M)    CRPROVIDER,SIX@VAMC6      03/27/2004@14:59:42
   4  VA-ADVANCED DIRECTIVES EDUC   CRPROVIDER,TEN@VAMC10     3/27/2004@14:54:24
   5  VA-HEP C RISK ASSESSMENT      CRPROVIDER,ONE@VAMC1      03/27/2004@14:56:13

          + Next Screen   - Prev Screen   ?? More Actions
CFE Create Exchange File Entry          LHF  Load Host File
CHF Create Host File                    LMM  Load MailMan Message
CMM Create MailMan Message              LWH  Load Web Host File
DFE Delete Exchange File Entry          LR   List Reminder Definitions
IFE Install Exchange File Entry         RI   Reminder Definition Inquiry
IH  Installation History                RP   Repack
Select Action: Quit// lhf   Load Host File

Enter a path: USER$:[TEMP]// <Enter>
The following PRD files were found in USER$:[TEMP]
  DIABETICEYE.PRD;1
Enter a file name: DIABETICEYE
Loading host file USER$:[TEMP]DIABETICEYE.PRD
```

```
Select Action: Quit// -   -

Clinical Reminder Exchange     Jul 23, 2005@11:17:42          Page:    1 of    2
Host file USER$:[SPOOL]DIABETICEYE.PRD successfully loaded.


          + Next Screen   - Prev Screen   ?? More Actions
CFE Create Exchange File Entry          LHF  Load Host File
CHF Create Host File                    LMM  Load MailMan Message
CMM Create MailMan Message              LWH  Load Web Host File
DFE Delete Exchange File Entry          LR   List Reminder Definitions
IFE Install Exchange File Entry         RI   Reminder Definition Inquiry
IH  Installation History                RP   Repack

Select Action: Next Screen//
```

1c. LHF – Load Web Host File

This action lets you load a file containing packed entries from a web site. When you select this action you are prompted to input the URL for the web site. Note that the https protocol is not supported; only http works. Also, SharePoint sites cannot be accessed because that requires the user's Windows credentials and they are not available in VistA.

```
File  Edit  Connection  Setup  Macro  Productivity  Help                Search..

Clinical Reminder Exchange     Aug 29, 2018@07:22:12          Page:    1 of    45
Exchange File Entries.

 Item  Entry                            Source                   Date Packed
    1  20170306 V21 3 LIPID            DOLDER@NORTHERN CAL      03/06/2017@11:26
       REMINDERS AND DIALOGS
    2  675 D NURS PRIMARY CARE NOTE    HORTON@ORLANDO VAMC      05/26/2017@09:14
    3  ACOVE REMINDERS FROM SAN        BRENNER@SAN DIEGO HC     06/15/2010@12:49
       DIEGO (664)
    4  ACOVE REPLACEMENT ELEMENTS      BRENNER@SAN DIEGO HC     06/15/2010@13:06
       (INSTALL 1ST)
    5  ADVANCE DIRECTIVE (TIU TITLE)   REDINGTON@SALT LAKE CI   12/16/2016@09:11
    6  AFIB & CHADS                    VOLPP@NORTHERN CAL       07/15/2013@14:04
    7  AGP 52 REPACK                   PULEO@SALT LAKE CI       04/16/2018@08:21
+          + Next Screen   - Prev Screen   ?? More Actions                  >>>
CFE  Create Exchange File Entry         LHF  Load Host File
CHF  Create Host File                   LMM  Load MailMan Message
CMM  Create MailMan Message             LR   List Reminder Definitions
DFE  Delete Exchange File Entry         LWH  Load Web Host File
IFE  Install Exchange File Entry        RI   Reminder Definition Inquiry
IH   Installation History               RP   Repack
Select Action: Next Screen// LWH   Load Web Host File
Input the URL for the .prd file: vista.med.va.gov/reminders/dws.prd
```

2a. Installing Reminders from the Exchange File

The action IFE allows a packed entry to be selected for installation from the Exchange File (#811.8). Details of the Exchange File entry are displayed. Individual components are displayed (grouped by type). All or individual components may be selected for installation.

CAUTION: Before starting an installation, you should examine the list of components in the packed entry and determine which ones already exist on your system. You should decide what you are going to do with each component and have a plan of action before proceeding with the installation.

```
REMINDER TERM entry TERMTEST6 already EXISTS, what do you want to do?

     Select one of the following:
          C         Create a new entry by copying to a new name
          I         Install or Overwrite the current entry
          Q         Quit the install
          S         Skip, do not install this entry
Enter response: S// C reate a new entry by copying to a new name
```

```
Exchange File Components      Aug 24, 2009@11:19:18        Page:    1 of    3


      Component                                              Category     Exists
Source:      CRMANAGER@VAMCXXXX
Date Packed: 08/12/2009@11:07:26
Package Version: 2.0P12

Description:
Patient reminder due on anyone with 2 entries of a diagnosis of HTN in
the past 3 years.  This reminder does not resolve.  Additional text is
displayed to the patient if the last 3 BPs were <= 130/80, if the last BP
was >140/90 or if any of the last 3 BPs was >=160/100.

If you use a different taxonomy for HTN or for renal diseases, you can
substitute you local taxonomies into the national reminder term.

Keywords:

Components:


GMRV VITAL TYPE
      BLOOD PRESSURE                                                    X

REMINDER SPONSOR
   1  VA National Center for Health Promotion and
      Disease Prevention (NCP)
   2  Office of Quality & Performance                                   X
   3  National Clinical Practice Guideline Council                      X

REMINDER TAXONOMY
   4  VA-DIABETES                                                       X
   5  VA-HYPERTENSION                                                   X

REMINDER TERM
   6  VA-BP >130/80 (ANY OF LAST 3)
   7  VA-BP >=160/100                                                   X
   8  VA-BP >=140/90                                                    X
   9  VA-MHV DIABETES OR KIDNEY DISEASE                                 X
  10  VA-MHV HYPERTENSION DX                                            X

REMINDER DEFINITION
  11  VA-MHV HYPERTENSION                                               X
```

The "Exists" column indicates the component's existence on the system based on identical names. When any component that already exists is selected for installation, a checksum will be computed for the already installed version and it will be compared to the checksum of the component in the Exchange file.

If the checksums are identical, then the components are identical and the component will be automatically skipped.

The "Category" column applies to health factors to indicate whether or not the health factor defines a category. If it does, it must be installed before any health factors that belong to that category.

NOTE: Some findings, such as lab tests, are not transportable. These findings will be in the component list, as they are used by the definition or dialog, but you will not be able to select them for installation. Non-selectable findings will not have a number. When you install a definition or a dialog that uses a non-transportable finding, you will be prompted to enter a replacement. If it is a lab test, enter the name of the equivalent lab test at your site. The replacement item must match the finding type. A lab test cannot be replaced with anything but a lab test.

If a component is selected for installation, it may be installed without change, or copied to a new name. When installing reminder definitions or dialogs, if a component contained within the definition or dialog is missing from your system, you will be prompted to supply a replacement.

NOTE: Because computed findings contain executable code, programmer access (@) is required to install them.

When installing a reminder term the option looks like this:

```
REMINDER TERM entry TEST TERM already EXISTS,
what do you want to do?

     Select one of the following:
          C         Create a new entry by copying to a new name
          M         Merge findings
          O         Overwrite the current entry
          Q         Quit the install
          S         Skip, do not install this entry

Enter response: S//
```

The merge option will preserve the existing mapping and will merge any additional findings that are in the packed entry.

2b. Installing a Reminder Dialog

If a reminder dialog is selected for installation, details of the dialog are displayed. The entire dialog or individual components of the dialog (e.g. dialog groups or sub-groups) may be installed.

```
Dialog Components              Jan 26, 2005@12:38:51          Page:    1 of    1
Packed reminder dialog: SMOKING CESSATION EDUCATION
Item  Seq. Dialog Summary                                        Type    Exists

  1    1    HF ACTIVATE PNEUMOCOCCAL VACCINE DONE ELSEWHERE      element   X

  2    2    MH AIMS                                              element   X

  3    3    VM BLOOD PRESSURE DONE                               element   X

  4         SMOKING CESSATION EDUCATION                          dialog    X
```

```
          + Next Screen   - Prev Screen   ?? More Actions
DD   Dialog Details       DT   Dialog Text          IS   Install Selected
DF   Dialog Findings      DU   Dialog Usage         QU   Quit
DS   Dialog Summary       IA   Install All
Select Action: Quit//
```

NOTE: Order dialogs (quick orders) will be treated like findings that are not transportable, such as lab tests. They will appear in the list, as they are used by the dialog; however, they will not be selectable for installation. When you install the dialog, you will be given the opportunity to replace the quick order with a local one or to delete it from the dialog.

Other views may be selected:

DD Dialog Details – displays dialog summary plus any PXRM type additional prompts.

DF Dialog Findings – displays the findings associated with each dialog component and if the finding already exists on the system.

DT Dialog Text – displays the dialog question text for each component. This gives a preview of how the dialog will display in CPRS.

DU Dialog Usage – displays any other existing reminder dialogs using these components.

The reminder dialog or dialog component may be installed from any view in the same manner as other reminder components. Dialog components may be installed or copied to a new name.

3. Quick Install of Reminder Dialogs

If the reminder dialog and all components are new (or exist already), you can use a quick install option. If only some of the components exist, you will be stepped through them individually. Note that if a dialog is installed without the reminder definition, the option is given to link the dialog to an existing reminder.

```
Dialog Components             Jan 26, 2005@12:52:05          Page:    1 of    1
Packed reminder dialog: DEMO REMINDER - SIMPLE

 Item  Seq. Dialog Summary                                     Type    Exists
  1         DEMO REMINDER - SIMPLE                             dialog

  2    5    IM HEP A DONE                                      element

  3    10   IM HEP A DONE ELSEWHERE                            element

  4    15   IM HEP A CONTRA                                    element

          + Next Screen   - Prev Screen   ?? More Actions
DD   Dialog Details       DT   Dialog Text          IS   Install Selected
DF   Dialog Findings      DU   Dialog Usage         QU   Quit
DS   Dialog Summary       IA   Install All
Select Action: Quit// IA   Install All

All dialog components for DEMO REMINDER - SIMPLE are new.
Install reminder dialog without making any changes: Y// ES
Reminder Dialog DEMO REMINDER - SIMPLE is not linked to a reminder.
Select Reminder to Link: LOCAL HEP A IMMUNIZATION
```

```
Dialog Components              Jan 26, 2005@12:52:05          Page:    1 of    1
Packed reminder dialog: DEMO REMINDER - SIMPLE
DEMO REMINDER - SIMPLE (reminder dialog) installed from exchange file.
 Item  Seq. Dialog Summary                                      Type     Exists
  1         DEMO REMINDER - SIMPLE                              dialog

  2    5    IM HEP A DONE                                       element

  3    10   IM HEP A DONE ELSEWHERE                             element

  4    15   IM HEP A CONTRA                                     element

          + Next Screen   - Prev Screen   ?? More Actions
DD   Dialog Details       DT   Dialog Text          IS   Install Selected
DF   Dialog Findings      DU   Dialog Usage         QU   Quit
DS   Dialog Summary       IA   Install All
Select Action: Quit//
```

4. IH – Installation History

Use this option to review the installation of an Exchange File entry.

```
Clinical Reminder Exchange     Jul 23, 2004@11:27:15          Page:    1 of    2
Exchange File Entries.

           Entry                          Source                     Date Packed
   1  A NEW REMINDER                CRPROVIDER,ONE@VAMC1
06/18/2004@11:50:40
   2  A**A SG PAIN SCREENING        CRPROVIDER,SIX@VAMC6
07/23/2004@10:55:23
          + Next Screen   - Prev Screen   ?? More Actions
CFE Create Exchange File Entry         LHF  Load Host File
CHF Create Host File                   LMM  Load MailMan Message
CMM Create MailMan Message             LWH  Load Web Host File
DFE Delete Exchange File Entry         LR   List Reminder Definitions
IFE Install Exchange File Entry        RI   Reminder Definition Inquiry
IH  Installation History

Select Action: Next Screen// IH   Installation History
Select Entry(s):  (1-4): 2
```

```
Installation History           Jul 23, 2004@11:27:27          Page:    1 of    1

       Entry                          Source                     Date Packed
      A**A SG PAIN SCREENING        CRPROVIDER,ONE@VAMC1
07/23/2001@10:55:23
     Installation Date       Installed By
     -----------------       ------------
   1 07/23/2004@10:58:48     CRPROVIDER,ONE

          Enter ?? for more actions
DH   Delete Install History             ID   Installation Details
Select Action: Quit// ID   Installation Details

A**A SG PAIN SCREENING                 07/23/2001@10:55:23  07/23/2001@10:58:48
     Component                         Action  New Name

EDUCATION TOPICS
   1 MANAGING PAIN                        S

HEALTH FACTORS
```

```
   2 REMINDER FACTORS                      S
   3 Pain New Category                     S
   4 PAIN PATIENT DECLINED TO REPORT PAIN S
   5 PATIENT UNABLE TO REPORT PAIN SCORE  S
   6 PAIN PATIENT REPORTS NEW PAIN        S
   7 PATIENT REPORTS NEW PAIN             S
   8 HF.SG PATIENT NEEDS PAIN ASSESSMENT  S

TIU TEMPLATE FIELD
   9 S's   OLD/NEW                        S

Installation Detail           Jul 23, 2004@11:27:39          Page:    2 of    2
+       Entry                              Date Packed         Date Installed

REMINDER DEFINITION
  10 A**A SG PAIN SCREENING               S

          Enter ?? for more actions
Select Action:Quit//
```

7. Delete Exchange File Entry

Use this option to delete selected entries from the Reminder Exchange file #811.8.

```
Select Reminder Managers Menu Option: RX  Reminder Exchange

Clinical Reminder Exchange    Jun 21, 2004@12:09:19          Page:    1 of    3
Exchange File Entries.

           Entry                        Source                    Date Packed
   1  BLOOD PRESSURE CHECK          CRPROVIDER,ONE@VAMC1      03/28/2004@13:12:26
   2  SLC PNEUMOCOCCAL VACCINE      CRPROVIDER,TWO@VAMC2      03/29/2004@11:55:11
   3  VA-*CHOLESTEROL SCREEN (M)    CRPROVIDER,SIX@VAMC6      03/27/2004@14:59:42
   4  VA-ADVANCED DIRECTIVES EDUC   CRPROVIDER,TEN@VAMC10     3/27/2004@14:54:24
   5  VA-HEP C RISK ASSESSMENT      CRPROVIDER,ONE@VAMC1      03/27/2004@14:56:13
          + Next Screen   - Prev Screen   ?? More Actions
CFE Create Exchange File Entry         LHF  Load Host File
CHF Create Host File                   LMM  Load MailMan Message
CMM Create MailMan Message             LWH  Load Web Host File
DFE Delete Exchange File Entry         LR   List Reminder Definitions
IFE Install Exchange File Entry        RI   Reminder Definition Inquiry
IH  Installation History               RP   Repack
Select Action: Next Screen// DFE   Delete Exchange File Entry
Select Entry(s):  (1-5): 1

Clinical Reminder Exchange    Jun 21, 2004@12:09:47          Page:    1 of    3
Deleted 1 Exchange File entry.

           Entry                        Source                    Date Packed
   1  SLC PNEUMOCOCCAL VACCINE      CRPROVIDER,TWO@VAMC2      03/29/2004@11:55:11
   2  VA-*CHOLESTEROL SCREEN (M)    CRPROVIDER,SIX@VAMC6      03/27/2004@14:59:42
   3  VA-ADVANCED DIRECTIVES EDUC   CRPROVIDER,TEN@VAMC10     3/27/2004@14:54:24
   4  VA-HEP C RISK ASSESSMENT      CRPROVIDER,ONE@VAMC1      03/27/2004@14:56:13
          + Next Screen   - Prev Screen   ?? More Actions
CFE  Create Exchange File Entry        IH   Installation History
CHF  Create Host File                  LHF  Load Host File
CMM  Create MailMan Message            LMM  Load MailMan Message
DFE  Delete Exchange File Entry        LR   List Reminder Definitions
IFE  Install Exchange File Entry       RI   Reminder Definition Inquiry
IH  Installation History               RP   Repack
Select Action: Next Screen//
```

NOTE: This does not delete the Host file or MailMan message from the VistA system. If the Host file or MailMan message are not needed any more, you must delete these separately.

Tips for exchanging reminders

- Try at least one simple one first – and check the dialog!
- A Category for a health factor must exist to install the health factor.
- To use your own finding in a reminder you are importing, use the SKIP option. Then when the reminder is installed, you will be prompted for the finding to use in the reminder.
- Review local findings carefully.
- Allow dedicated time.
- Review the findings (terms, taxonomies).
- Document in your reminders what your intent and logic were in making it.
- Remember: When you import a reminder, it is YOURS.
- Some sites have Web pages set up for review – use the web before requesting reminders.
- Test!

NOTE: **Reminder Exchange Tip**

If you try to exchange a location list from one system to another and there is an inconsistency or mismatch between systems in the AMIS stop code, you will get the following error message. (In this case the system has two selectable entries for stop code 560, which will need to be corrected.)

```
REMINDER LOCATION LIST entry NEXUS STOP CODES FY05 is NEW, what do you want to do?
     Select one of the following:

          C         Create a new entry by copying to a new name
          I         Install
          Q         Quit the install
          S         Skip, do not install this entry

Enter response: i  Install
Name associated with AMIS stop code does not match the one in the
packed reminder:
 AMIS=560
 Site Name=ZZSUBSTANCE ABUSE - GROUP
 Name in packed reminder=SUBSTANCE ABUSE - GROUP
The update failed, UPDATE^DIE returned the following error message:
MSG("DIERR")=1^1
MSG("DIERR",1)=701
MSG("DIERR",1,"PARAM",0)=3
MSG("DIERR",1,"PARAM",3)=GYNECOLOGY
MSG("DIERR",1,"PARAM","FIELD")=.01
MSG("DIERR",1,"PARAM","FILE")=810.90011
MSG("DIERR",1,"TEXT",1)=The value 'GYNECOLOGY' for field CREDIT STOP TO
EXCLUDE
in CREDIT STOPS TO EXCLUDE SUB-FIELD in CLINIC STOP LIST SUB-FIELD in
file REMIN
DER LOCATION LIST is not valid.
MSG("DIERR","E",701,1)=

REMINDER LOCATION LIST entry NEXUS STOP CODES FY05 did not get installed!
Examine the above error message for the reason.
```

Reminder Test

Before a new or modified reminder is put into production, it should be thoroughly tested. The Reminder Test option provides a convenient tool that can be used as an aid in setting up new reminders and tracking down problems with existing ones. It lets you run a reminder without going through CPRS or Health Summary.

The output from the Reminder Test option provides a view of the internal workings of the clinical reminders software and allows you to see what happened as the reminder was evaluated. Errors and warnings that are not always seen on the Clinical Reminder Maintenance output are displayed here. When setting up a reminder, it's a good idea to have test patients with known clinical data such as examinations, immunizations, ICDs, CPTs, etc., that are pertinent to the reminder being developed. Using this option to run the reminder for test patients allows you to see if the reminder operates as expected.

You should have patients who are in the cohort and who are not in the cohort. For patients who are in the cohort, you should have some who have the reminder resolved and some who do not.
It is very useful to have the output from the Reminder Inquiry option available when using the test option.

Here is the inquiry for a reminder called EDUTEST.

```
Select Reminder Definition Management Option: RI  Inquire about Reminder Definition
Select Reminder Definition:  EDUTEST                 Dec 24, 2008 11:00:10 am  Page 1
-------------------------------------------------------------------------------

EDUTEST                                                            No. 660020
-------------------------------------------------------------------------------


Print Name:             Education Test

Class:                  LOCAL

Sponsor:                NONE

Review Date:

Rescission Date:

Usage:                  CPRS

Related VA-* Reminder:

Reminder Dialog:        EXCHANGE 4

Priority:

Description:

Technical Description:


Baseline Frequency:

      Do In Advance Time Frame:  Wait until actually DUE
                  Sex Specific:
```

```
                 Ignore on N/A:
      Frequency for Age Range:  1 month for ages 25 to 60
                   Match Text:  This is the age match text for age range 25
                                to 60. Patient is in age range.  Line 2.
                 No Match Text:  Patient is not in age range.  Line 2
      Frequency for Age Range:  1 year for ages 61 to 70
                   Match Text:  This is match text for 61 to 70. The
                                patient's age is |AGE|.
                 No Match Text:  This is no match text for 61 to 70, the
                                patient's age is |AGE|.


Findings:

  ---- Begin: VA-SUBSTANCE ABUSE  (FI(1)=ED(1)) ----------------------------
                 Finding Type: EDUCATION TOPICS
            Occurrence Count: -4
  ---- End: VA-SUBSTANCE ABUSE ----------------------------------------------


  ---- Begin: VA-EXERCISE SCREENING  (FI(2)=ED(11)) ------------------------
                 Finding Type: EDUCATION TOPICS
      Use in Resolution Logic: OR
            Occurrence Count: 2
                  Found Text: VA-EXERCISE SCREENING FOUND TEXT.  Lets test
                               out some objects.  The patient was seen on
                               |VISIT DATE|.  His last blood pressure was
                               |BLOOD PRESSURE|.  His last weight was
                               |PATIENT WEIGHT|.
              Not Found Text: VA-EXERCISE SCREENING NOT FOUND TEXT.
  ---- End: VA-EXERCISE SCREENING ------------------------------------------


  ---- Begin: VA-EXERCISE  (FI(3)=ED(363)) ---------------------------------
                 Finding Type: EDUCATION TOPICS
            Occurrence Count: 2
  ---- End: VA-EXERCISE -----------------------------------------------------


  ---- Begin: VA-EXERCISE  (FI(4)=ED(363)) ---------------------------------
                 Finding Type: EDUCATION TOPICS
         Beginning Date/Time: T-5M
  ---- End: VA-EXERCISE -----------------------------------------------------


  ---- Begin: VA-DIABETES  (FI(5)=ED(360)) ---------------------------------
                 Finding Type: EDUCATION TOPICS
  ---- End: VA-DIABETES -----------------------------------------------------


  ---- Begin: EDUTEST  (FI(8)=RT(660006)) ----------------------------------
                 Finding Type: REMINDER TERM
            Occurrence Count: 3

                      Mapped Findings:
                   Mapped Finding Item: ED.VA-SUBSTANCE ABUSE

                   Mapped Finding Item: ED.VA-EXERCISE SCREENING

                   Mapped Finding Item: ED.VA-EXERCISE

                   Mapped Finding Item: ED.VA-ADVANCE DIRECTIVES
```

```
  ---- End: EDUTEST ----------------------------------------------------------


 Function Findings:

  ---- Begin: FF(1)-----------------------------------------------------------
               Function String: MRD(1,2)>MRD(5)
      Expanded Function String:
       MRD(VA-SUBSTANCE ABUSE,VA-EXERCISE SCREENING)>MRD(VA-DIABETES)
       Use in Resolution Logic: AND
  ---- End: FF(1) ------------------------------------------------------------


  ---- Begin: FF(2)-----------------------------------------------------------
               Function String: FI(1)&(FI(4)!FI(5))
      Expanded Function String:
       FI(VA-SUBSTANCE ABUSE)&(FI(VA-EXERCISE)!FI(VA-DIABETES))
  ---- End: FF(2) ------------------------------------------------------------


  ---- Begin: FF(3)-----------------------------------------------------------
               Function String: COUNT(2)>1
      Expanded Function String:
       COUNT(VA-EXERCISE SCREENING)>1
       Use in Resolution Logic: AND
  ---- End: FF(3) ------------------------------------------------------------


  ---- Begin: FF(4)-----------------------------------------------------------
               Function String: DIFF_DATE(1,2)>625
      Expanded Function String:
       DIFF_DATE(VA-SUBSTANCE ABUSE,VA-EXERCISE SCREENING)>625
  ---- End: FF(4) ------------------------------------------------------------


General Patient Cohort Found Text:
    This is the general cohort found text.

General Patient Cohort Not Found Text:
    This is general cohort not found text. Line two of not found. Line 3 of
    not found. Patient's age is |AGE|.

General Resolution Found Text:
    This is the general resolution found text. Second line of resolution
    found text.

General Resolution Not Found Text:
    This is the general resolution not found text. Second line of not found.
    Third line of not found.

Default PATIENT COHORT LOGIC to see if the Reminder applies to a patient:
 (SEX)&(AGE)

Expanded Patient Cohort Logic:
 (SEX)&(AGE)

Default RESOLUTION LOGIC defines findings that resolve the Reminder:
 FI(2)&FF(1)&FF(3)

Expanded Resolution Logic:
 FI(VA-EXERCISE SCREENING)&FF(1)&FF(3)
```

```
Web Sites:

 Web Site URL:   Influenza Directive
 Web Site Title:
 Description:
```

Test option output for this reminder

```
Select Reminder Managers Menu Option: RT  Reminder Test
Select Patient:  CRPATIENT,TWO        10-10-72    666554444     YES     ACTIVE DUTY
 Enrollment Priority: GROUP 1    Category: IN PROCESS    End Date:

Select Reminder: edutest       LOCAL

Enter date for reminder evaluation: Dec 24, 2008//   (DEC 24, 2008)

Display all term findings? N// y  YES

The elements of the FIEVAL array are:
FIEVAL(1)=1
FIEVAL(1,1)=1
FIEVAL(1,1,"COMMENTS")=
FIEVAL(1,1,"CSUB","COMMENTS")=
FIEVAL(1,1,"CSUB","DATE")=2980700
FIEVAL(1,1,"CSUB","LEVEL OF UNDERSTANDING")=
FIEVAL(1,1,"CSUB","VALUE")=
FIEVAL(1,1,"CSUB","VISIT")=3935
FIEVAL(1,1,"DAS")=200
FIEVAL(1,1,"DATE")=2980700
FIEVAL(1,1,"LEVEL OF UNDERSTANDING")=
FIEVAL(1,1,"VALUE")=
FIEVAL(1,1,"VISIT")=3935
FIEVAL(1,2)=1
FIEVAL(1,2,"COMMENTS")=
FIEVAL(1,2,"CSUB","COMMENTS")=
FIEVAL(1,2,"CSUB","DATE")=3000000
FIEVAL(1,2,"CSUB","LEVEL OF UNDERSTANDING")=
FIEVAL(1,2,"CSUB","VALUE")=
FIEVAL(1,2,"CSUB","VISIT")=3997
FIEVAL(1,2,"DAS")=212
FIEVAL(1,2,"DATE")=3000000
FIEVAL(1,2,"LEVEL OF UNDERSTANDING")=
FIEVAL(1,2,"VALUE")=
FIEVAL(1,2,"VISIT")=3997
FIEVAL(1,3)=1
FIEVAL(1,3,"COMMENTS")=
FIEVAL(1,3,"CSUB","COMMENTS")=
FIEVAL(1,3,"CSUB","DATE")=3000202.15
FIEVAL(1,3,"CSUB","LEVEL OF UNDERSTANDING")=3
FIEVAL(1,3,"CSUB","VALUE")=3
FIEVAL(1,3,"CSUB","VISIT")=3693
FIEVAL(1,3,"DAS")=159
FIEVAL(1,3,"DATE")=3000202.15
FIEVAL(1,3,"LEVEL OF UNDERSTANDING")=3
FIEVAL(1,3,"VALUE")=3
FIEVAL(1,3,"VISIT")=3693
FIEVAL(1,4)=1
FIEVAL(1,4,"COMMENTS")=
FIEVAL(1,4,"CSUB","COMMENTS")=
FIEVAL(1,4,"CSUB","DATE")=3000217.085926
```

```
FIEVAL(1,4,"CSUB","LEVEL OF UNDERSTANDING")=3
FIEVAL(1,4,"CSUB","VALUE")=3
FIEVAL(1,4,"CSUB","VISIT")=3720
FIEVAL(1,4,"DAS")=151
FIEVAL(1,4,"DATE")=3000217.085926
FIEVAL(1,4,"LEVEL OF UNDERSTANDING")=3
FIEVAL(1,4,"VALUE")=3
FIEVAL(1,4,"VISIT")=3720
FIEVAL(1,"COMMENTS")=
FIEVAL(1,"CSUB","COMMENTS")=
FIEVAL(1,"CSUB","DATE")=2980700
FIEVAL(1,"CSUB","LEVEL OF UNDERSTANDING")=
FIEVAL(1,"CSUB","VALUE")=
FIEVAL(1,"CSUB","VISIT")=3935
FIEVAL(1,"DAS")=200
FIEVAL(1,"DATE")=2980700
FIEVAL(1,"FILE NUMBER")=9000010.16
FIEVAL(1,"FINDING")=1;AUTTEDT(
FIEVAL(1,"LEVEL OF UNDERSTANDING")=
FIEVAL(1,"VALUE")=
FIEVAL(1,"VISIT")=3935
FIEVAL(2)=1
FIEVAL(2,1)=1
FIEVAL(2,1,"COMMENTS")=
FIEVAL(2,1,"CSUB","COMMENTS")=
FIEVAL(2,1,"CSUB","DATE")=3000317.08
FIEVAL(2,1,"CSUB","LEVEL OF UNDERSTANDING")=
FIEVAL(2,1,"CSUB","VALUE")=
FIEVAL(2,1,"CSUB","VISIT")=3787
FIEVAL(2,1,"DAS")=214
FIEVAL(2,1,"DATE")=3000317.08
FIEVAL(2,1,"LEVEL OF UNDERSTANDING")=
FIEVAL(2,1,"VALUE")=
FIEVAL(2,1,"VISIT")=3787
FIEVAL(2,2)=1
FIEVAL(2,2,"COMMENTS")=
FIEVAL(2,2,"CSUB","COMMENTS")=
FIEVAL(2,2,"CSUB","DATE")=3000106.131524
FIEVAL(2,2,"CSUB","LEVEL OF UNDERSTANDING")=3
FIEVAL(2,2,"CSUB","VALUE")=3
FIEVAL(2,2,"CSUB","VISIT")=3646
FIEVAL(2,2,"DAS")=119
FIEVAL(2,2,"DATE")=3000106.131524
FIEVAL(2,2,"LEVEL OF UNDERSTANDING")=3
FIEVAL(2,2,"VALUE")=3
FIEVAL(2,2,"VISIT")=3646
FIEVAL(2,"COMMENTS")=
FIEVAL(2,"CSUB","COMMENTS")=
FIEVAL(2,"CSUB","DATE")=3000317.08
FIEVAL(2,"CSUB","LEVEL OF UNDERSTANDING")=
FIEVAL(2,"CSUB","VALUE")=
FIEVAL(2,"CSUB","VISIT")=3787
FIEVAL(2,"DAS")=214
FIEVAL(2,"DATE")=3000317.08
FIEVAL(2,"FILE NUMBER")=9000010.16
FIEVAL(2,"FINDING")=11;AUTTEDT(
FIEVAL(2,"LEVEL OF UNDERSTANDING")=
FIEVAL(2,"VALUE")=
FIEVAL(2,"VISIT")=3787
FIEVAL(3)=1
FIEVAL(3,1)=1
FIEVAL(3,1,"COMMENTS")=
FIEVAL(3,1,"CSUB","COMMENTS")=
```

```
FIEVAL(3,1,"CSUB","DATE")=3000317.08
FIEVAL(3,1,"CSUB","LEVEL OF UNDERSTANDING")=
FIEVAL(3,1,"CSUB","VALUE")=
FIEVAL(3,1,"CSUB","VISIT")=3787
FIEVAL(3,1,"DAS")=215
FIEVAL(3,1,"DATE")=3000317.08
FIEVAL(3,1,"LEVEL OF UNDERSTANDING")=
FIEVAL(3,1,"VALUE")=
FIEVAL(3,1,"VISIT")=3787
FIEVAL(3,2)=1
FIEVAL(3,2,"COMMENTS")=
FIEVAL(3,2,"CSUB","COMMENTS")=
FIEVAL(3,2,"CSUB","DATE")=3000000
FIEVAL(3,2,"CSUB","LEVEL OF UNDERSTANDING")=
FIEVAL(3,2,"CSUB","VALUE")=
FIEVAL(3,2,"CSUB","VISIT")=3997
FIEVAL(3,2,"DAS")=210
FIEVAL(3,2,"DATE")=3000000
FIEVAL(3,2,"LEVEL OF UNDERSTANDING")=
FIEVAL(3,2,"VALUE")=
FIEVAL(3,2,"VISIT")=3997
FIEVAL(3,"COMMENTS")=
FIEVAL(3,"CSUB","COMMENTS")=
FIEVAL(3,"CSUB","DATE")=3000317.08
FIEVAL(3,"CSUB","LEVEL OF UNDERSTANDING")=
FIEVAL(3,"CSUB","VALUE")=
FIEVAL(3,"CSUB","VISIT")=3787
FIEVAL(3,"DAS")=215
FIEVAL(3,"DATE")=3000317.08
FIEVAL(3,"FILE NUMBER")=9000010.16
FIEVAL(3,"FINDING")=363;AUTTEDT(
FIEVAL(3,"LEVEL OF UNDERSTANDING")=
FIEVAL(3,"VALUE")=
FIEVAL(3,"VISIT")=3787
FIEVAL(4)=0
FIEVAL(4,"FINDING")=363;AUTTEDT(
FIEVAL(5)=1
FIEVAL(5,1)=1
FIEVAL(5,1,"COMMENTS")=
FIEVAL(5,1,"CSUB","COMMENTS")=
FIEVAL(5,1,"CSUB","DATE")=3000317.08
FIEVAL(5,1,"CSUB","LEVEL OF UNDERSTANDING")=
FIEVAL(5,1,"CSUB","VALUE")=
FIEVAL(5,1,"CSUB","VISIT")=3787
FIEVAL(5,1,"DAS")=203
FIEVAL(5,1,"DATE")=3000317.08
FIEVAL(5,1,"LEVEL OF UNDERSTANDING")=
FIEVAL(5,1,"VALUE")=
FIEVAL(5,1,"VISIT")=3787
FIEVAL(5,"COMMENTS")=
FIEVAL(5,"CSUB","COMMENTS")=
FIEVAL(5,"CSUB","DATE")=3000317.08
FIEVAL(5,"CSUB","LEVEL OF UNDERSTANDING")=
FIEVAL(5,"CSUB","VALUE")=
FIEVAL(5,"CSUB","VISIT")=3787
FIEVAL(5,"DAS")=203
FIEVAL(5,"DATE")=3000317.08
FIEVAL(5,"FILE NUMBER")=9000010.16
FIEVAL(5,"FINDING")=360;AUTTEDT(
FIEVAL(5,"LEVEL OF UNDERSTANDING")=
FIEVAL(5,"VALUE")=
FIEVAL(5,"VISIT")=3787
FIEVAL(8)=1
```

```
FIEVAL(8,1)=1
FIEVAL(8,1,"COMMENTS")=
FIEVAL(8,1,"CSUB","COMMENTS")=
FIEVAL(8,1,"CSUB","DATE")=3000317.08
FIEVAL(8,1,"CSUB","LEVEL OF UNDERSTANDING")=
FIEVAL(8,1,"CSUB","VALUE")=
FIEVAL(8,1,"CSUB","VISIT")=3787
FIEVAL(8,1,"DAS")=201
FIEVAL(8,1,"DATE")=3000317.08
FIEVAL(8,1,"FILE NUMBER")=9000010.16
FIEVAL(8,1,"FINDING")=1;AUTTEDT(
FIEVAL(8,1,"LEVEL OF UNDERSTANDING")=
FIEVAL(8,1,"VALUE")=
FIEVAL(8,1,"VISIT")=3787
FIEVAL(8,2)=1
FIEVAL(8,2,"COMMENTS")=
FIEVAL(8,2,"CSUB","COMMENTS")=
FIEVAL(8,2,"CSUB","DATE")=3000317.08
FIEVAL(8,2,"CSUB","LEVEL OF UNDERSTANDING")=
FIEVAL(8,2,"CSUB","VALUE")=
FIEVAL(8,2,"CSUB","VISIT")=3787
FIEVAL(8,2,"DAS")=214
FIEVAL(8,2,"DATE")=3000317.08
FIEVAL(8,2,"FILE NUMBER")=9000010.16
FIEVAL(8,2,"FINDING")=11;AUTTEDT(
FIEVAL(8,2,"LEVEL OF UNDERSTANDING")=
FIEVAL(8,2,"VALUE")=
FIEVAL(8,2,"VISIT")=3787
FIEVAL(8,3)=1
FIEVAL(8,3,"COMMENTS")=
FIEVAL(8,3,"CSUB","COMMENTS")=
FIEVAL(8,3,"CSUB","DATE")=3000317.08
FIEVAL(8,3,"CSUB","LEVEL OF UNDERSTANDING")=
FIEVAL(8,3,"CSUB","VALUE")=
FIEVAL(8,3,"CSUB","VISIT")=3787
FIEVAL(8,3,"DAS")=215
FIEVAL(8,3,"DATE")=3000317.08
FIEVAL(8,3,"FILE NUMBER")=9000010.16
FIEVAL(8,3,"FINDING")=363;AUTTEDT(
FIEVAL(8,3,"LEVEL OF UNDERSTANDING")=
FIEVAL(8,3,"VALUE")=
FIEVAL(8,3,"VISIT")=3787
FIEVAL(8,"COMMENTS")=
FIEVAL(8,"CSUB","COMMENTS")=
FIEVAL(8,"CSUB","DATE")=3000317.08
FIEVAL(8,"CSUB","LEVEL OF UNDERSTANDING")=
FIEVAL(8,"CSUB","VALUE")=
FIEVAL(8,"CSUB","VISIT")=3787
FIEVAL(8,"DAS")=201
FIEVAL(8,"DATE")=3000317.08
FIEVAL(8,"FILE NUMBER")=9000010.16
FIEVAL(8,"FINDING")=1;AUTTEDT(
FIEVAL(8,"LEVEL OF UNDERSTANDING")=
FIEVAL(8,"TERM")=EDUTEST^^^3001206
FIEVAL(8,"TERM IEN")=660006
FIEVAL(8,"VALUE")=
FIEVAL(8,"VISIT")=3787
FIEVAL("AGE")=1
FIEVAL("AGE",1)=1
FIEVAL("AGE",2)=0
FIEVAL("DFN")=54
FIEVAL("EVAL DATE/TIME")=3081224
FIEVAL("FF1")=0
```

```
FIEVAL("FF1","DETAIL")=0^MRD(1,2)>MRD(5)^3000317.08>3000317.08
FIEVAL("FF1","FINDING")=1;PXRMD(802.4,
FIEVAL("FF1","NUMBER")=1
FIEVAL("FF2")=1
FIEVAL("FF2","DETAIL")=1^FI(1)&(FI(4)!FI(5))^1&(0!1)
FIEVAL("FF2","FINDING")=5;PXRMD(802.4,
FIEVAL("FF2","NUMBER")=2
FIEVAL("FF3")=1
FIEVAL("FF3","DETAIL")=1^COUNT(2)>1^2>1
FIEVAL("FF3","FINDING")=2;PXRMD(802.4,
FIEVAL("FF3","NUMBER")=3
FIEVAL("FF4")=0
FIEVAL("FF4","DETAIL")=0^DIFF_DATE(1,2)>625^625>625
FIEVAL("FF4","FINDING")=7;PXRMD(802.4,
FIEVAL("FF4","NUMBER")=4
FIEVAL("PATIENT AGE")=56
FIEVAL("SEX")=1

Term findings:
Finding 8:
TFIEVAL(8,1)=1
TFIEVAL(8,1,1)=1
TFIEVAL(8,1,1,"COMMENTS")=
TFIEVAL(8,1,1,"CSUB","COMMENTS")=
TFIEVAL(8,1,1,"CSUB","DATE")=3000317.08
TFIEVAL(8,1,1,"CSUB","LEVEL OF UNDERSTANDING")=
TFIEVAL(8,1,1,"CSUB","VALUE")=
TFIEVAL(8,1,1,"CSUB","VISIT")=3787
TFIEVAL(8,1,1,"DAS")=201
TFIEVAL(8,1,1,"DATE")=3000317.08
TFIEVAL(8,1,1,"LEVEL OF UNDERSTANDING")=
TFIEVAL(8,1,1,"VALUE")=
TFIEVAL(8,1,1,"VISIT")=3787
TFIEVAL(8,1,2)=1
TFIEVAL(8,1,2,"COMMENTS")=
TFIEVAL(8,1,2,"CSUB","COMMENTS")=
TFIEVAL(8,1,2,"CSUB","DATE")=3000217.085926
TFIEVAL(8,1,2,"CSUB","LEVEL OF UNDERSTANDING")=3
TFIEVAL(8,1,2,"CSUB","VALUE")=3
TFIEVAL(8,1,2,"CSUB","VISIT")=3720
TFIEVAL(8,1,2,"DAS")=151
TFIEVAL(8,1,2,"DATE")=3000217.085926
TFIEVAL(8,1,2,"LEVEL OF UNDERSTANDING")=3
TFIEVAL(8,1,2,"VALUE")=3
TFIEVAL(8,1,2,"VISIT")=3720
TFIEVAL(8,1,3)=1
TFIEVAL(8,1,3,"COMMENTS")=
TFIEVAL(8,1,3,"CSUB","COMMENTS")=
TFIEVAL(8,1,3,"CSUB","DATE")=3000202.15
TFIEVAL(8,1,3,"CSUB","LEVEL OF UNDERSTANDING")=3
TFIEVAL(8,1,3,"CSUB","VALUE")=3
TFIEVAL(8,1,3,"CSUB","VISIT")=3693
TFIEVAL(8,1,3,"DAS")=159
TFIEVAL(8,1,3,"DATE")=3000202.15
TFIEVAL(8,1,3,"LEVEL OF UNDERSTANDING")=3
TFIEVAL(8,1,3,"VALUE")=3
TFIEVAL(8,1,3,"VISIT")=3693
TFIEVAL(8,1,"COMMENTS")=
TFIEVAL(8,1,"CSUB","COMMENTS")=
TFIEVAL(8,1,"CSUB","DATE")=3000317.08
TFIEVAL(8,1,"CSUB","LEVEL OF UNDERSTANDING")=
TFIEVAL(8,1,"CSUB","VALUE")=
TFIEVAL(8,1,"CSUB","VISIT")=3787
```

```
TFIEVAL(8,1,"DAS")=201
TFIEVAL(8,1,"DATE")=3000317.08
TFIEVAL(8,1,"FILE NUMBER")=9000010.16
TFIEVAL(8,1,"FINDING")=1;AUTTEDT(
TFIEVAL(8,1,"LEVEL OF UNDERSTANDING")=
TFIEVAL(8,1,"VALUE")=
TFIEVAL(8,1,"VISIT")=3787
TFIEVAL(8,2)=1
TFIEVAL(8,2,1)=1
TFIEVAL(8,2,1,"COMMENTS")=
TFIEVAL(8,2,1,"CSUB","COMMENTS")=
TFIEVAL(8,2,1,"CSUB","DATE")=3000317.08
TFIEVAL(8,2,1,"CSUB","LEVEL OF UNDERSTANDING")=
TFIEVAL(8,2,1,"CSUB","VALUE")=
TFIEVAL(8,2,1,"CSUB","VISIT")=3787
TFIEVAL(8,2,1,"DAS")=214
TFIEVAL(8,2,1,"DATE")=3000317.08
TFIEVAL(8,2,1,"LEVEL OF UNDERSTANDING")=
TFIEVAL(8,2,1,"VALUE")=
TFIEVAL(8,2,1,"VISIT")=3787
TFIEVAL(8,2,2)=1
TFIEVAL(8,2,2,"COMMENTS")=
TFIEVAL(8,2,2,"CSUB","COMMENTS")=
TFIEVAL(8,2,2,"CSUB","DATE")=3000106.131524
TFIEVAL(8,2,2,"CSUB","LEVEL OF UNDERSTANDING")=3
TFIEVAL(8,2,2,"CSUB","VALUE")=3
TFIEVAL(8,2,2,"CSUB","VISIT")=3646
TFIEVAL(8,2,2,"DAS")=119
TFIEVAL(8,2,2,"DATE")=3000106.131524
TFIEVAL(8,2,2,"LEVEL OF UNDERSTANDING")=3
TFIEVAL(8,2,2,"VALUE")=3
TFIEVAL(8,2,2,"VISIT")=3646
TFIEVAL(8,2,3)=1
TFIEVAL(8,2,3,"COMMENTS")=
TFIEVAL(8,2,3,"CSUB","COMMENTS")=
TFIEVAL(8,2,3,"CSUB","DATE")=3000000
TFIEVAL(8,2,3,"CSUB","LEVEL OF UNDERSTANDING")=
TFIEVAL(8,2,3,"CSUB","VALUE")=
TFIEVAL(8,2,3,"CSUB","VISIT")=3997
TFIEVAL(8,2,3,"DAS")=213
TFIEVAL(8,2,3,"DATE")=3000000
TFIEVAL(8,2,3,"LEVEL OF UNDERSTANDING")=
TFIEVAL(8,2,3,"VALUE")=
TFIEVAL(8,2,3,"VISIT")=3997
TFIEVAL(8,2,"COMMENTS")=
TFIEVAL(8,2,"CSUB","COMMENTS")=
TFIEVAL(8,2,"CSUB","DATE")=3000317.08
TFIEVAL(8,2,"CSUB","LEVEL OF UNDERSTANDING")=
TFIEVAL(8,2,"CSUB","VALUE")=
TFIEVAL(8,2,"CSUB","VISIT")=3787
TFIEVAL(8,2,"DAS")=214
TFIEVAL(8,2,"DATE")=3000317.08
TFIEVAL(8,2,"FILE NUMBER")=9000010.16
TFIEVAL(8,2,"FINDING")=11;AUTTEDT(
TFIEVAL(8,2,"LEVEL OF UNDERSTANDING")=
TFIEVAL(8,2,"VALUE")=
TFIEVAL(8,2,"VISIT")=3787
TFIEVAL(8,3)=1
TFIEVAL(8,3,1)=1
TFIEVAL(8,3,1,"COMMENTS")=
TFIEVAL(8,3,1,"CSUB","COMMENTS")=
TFIEVAL(8,3,1,"CSUB","DATE")=3000317.08
TFIEVAL(8,3,1,"CSUB","LEVEL OF UNDERSTANDING")=
```

```
TFIEVAL(8,3,1,"CSUB","VALUE")=
TFIEVAL(8,3,1,"CSUB","VISIT")=3787
TFIEVAL(8,3,1,"DAS")=215
TFIEVAL(8,3,1,"DATE")=3000317.08
TFIEVAL(8,3,1,"LEVEL OF UNDERSTANDING")=
TFIEVAL(8,3,1,"VALUE")=
TFIEVAL(8,3,1,"VISIT")=3787
TFIEVAL(8,3,2)=1
TFIEVAL(8,3,2,"COMMENTS")=
TFIEVAL(8,3,2,"CSUB","COMMENTS")=
TFIEVAL(8,3,2,"CSUB","DATE")=3000000
TFIEVAL(8,3,2,"CSUB","LEVEL OF UNDERSTANDING")=
TFIEVAL(8,3,2,"CSUB","VALUE")=
TFIEVAL(8,3,2,"CSUB","VISIT")=3997
TFIEVAL(8,3,2,"DAS")=210
TFIEVAL(8,3,2,"DATE")=3000000
TFIEVAL(8,3,2,"LEVEL OF UNDERSTANDING")=
TFIEVAL(8,3,2,"VALUE")=
TFIEVAL(8,3,2,"VISIT")=3997
TFIEVAL(8,3,3)=1
TFIEVAL(8,3,3,"COMMENTS")=
TFIEVAL(8,3,3,"CSUB","COMMENTS")=
TFIEVAL(8,3,3,"CSUB","DATE")=2990318.100853
TFIEVAL(8,3,3,"CSUB","LEVEL OF UNDERSTANDING")=
TFIEVAL(8,3,3,"CSUB","VALUE")=
TFIEVAL(8,3,3,"CSUB","VISIT")=2852
TFIEVAL(8,3,3,"DAS")=73
TFIEVAL(8,3,3,"DATE")=2990318.100853
TFIEVAL(8,3,3,"LEVEL OF UNDERSTANDING")=
TFIEVAL(8,3,3,"VALUE")=
TFIEVAL(8,3,3,"VISIT")=2852
TFIEVAL(8,3,"COMMENTS")=
TFIEVAL(8,3,"CSUB","COMMENTS")=
TFIEVAL(8,3,"CSUB","DATE")=3000317.08
TFIEVAL(8,3,"CSUB","LEVEL OF UNDERSTANDING")=
TFIEVAL(8,3,"CSUB","VALUE")=
TFIEVAL(8,3,"CSUB","VISIT")=3787
TFIEVAL(8,3,"DAS")=215
TFIEVAL(8,3,"DATE")=3000317.08
TFIEVAL(8,3,"FILE NUMBER")=9000010.16
TFIEVAL(8,3,"FINDING")=363;AUTTEDT(
TFIEVAL(8,3,"LEVEL OF UNDERSTANDING")=
TFIEVAL(8,3,"VALUE")=
TFIEVAL(8,3,"VISIT")=3787
TFIEVAL(8,4)=1
TFIEVAL(8,4,1)=1
TFIEVAL(8,4,1,"COMMENTS")=
TFIEVAL(8,4,1,"CSUB","COMMENTS")=
TFIEVAL(8,4,1,"CSUB","DATE")=3000211.153525
TFIEVAL(8,4,1,"CSUB","LEVEL OF UNDERSTANDING")=3
TFIEVAL(8,4,1,"CSUB","VALUE")=3
TFIEVAL(8,4,1,"CSUB","VISIT")=3716
TFIEVAL(8,4,1,"DAS")=147
TFIEVAL(8,4,1,"DATE")=3000211.153525
TFIEVAL(8,4,1,"LEVEL OF UNDERSTANDING")=3
TFIEVAL(8,4,1,"VALUE")=3
TFIEVAL(8,4,1,"VISIT")=3716
TFIEVAL(8,4,2)=1
TFIEVAL(8,4,2,"COMMENTS")=
TFIEVAL(8,4,2,"CSUB","COMMENTS")=
TFIEVAL(8,4,2,"CSUB","DATE")=3000113.160726
TFIEVAL(8,4,2,"CSUB","LEVEL OF UNDERSTANDING")=3
TFIEVAL(8,4,2,"CSUB","VALUE")=3
```

```
TFIEVAL(8,4,2,"CSUB","VISIT")=3662
TFIEVAL(8,4,2,"DAS")=132
TFIEVAL(8,4,2,"DATE")=3000113.160726
TFIEVAL(8,4,2,"LEVEL OF UNDERSTANDING")=3
TFIEVAL(8,4,2,"VALUE")=3
TFIEVAL(8,4,2,"VISIT")=3662
TFIEVAL(8,4,"COMMENTS")=
TFIEVAL(8,4,"CSUB","COMMENTS")=
TFIEVAL(8,4,"CSUB","DATE")=3000211.153525
TFIEVAL(8,4,"CSUB","LEVEL OF UNDERSTANDING")=3
TFIEVAL(8,4,"CSUB","VALUE")=3
TFIEVAL(8,4,"CSUB","VISIT")=3716
TFIEVAL(8,4,"DAS")=147
TFIEVAL(8,4,"DATE")=3000211.153525
TFIEVAL(8,4,"FILE NUMBER")=9000010.16
TFIEVAL(8,4,"FINDING")=338;AUTTEDT(
TFIEVAL(8,4,"LEVEL OF UNDERSTANDING")=3
TFIEVAL(8,4,"VALUE")=3
TFIEVAL(8,4,"VISIT")=3716

The elements of the ^TMP(PXRMID,$J) array are:
^TMP(PXRMID,$J,660020,"PATIENT COHORT LOGIC")=1^(SEX)&(AGE)^(1)&(1)
^TMP(PXRMID,$J,660020,"REMINDER NAME")=Education Test
^TMP(PXRMID,$J,660020,"RESOLUTION LOGIC")=0^(0)!FI(2)&FF(1)&FF(3)^(0)!1&0&1
^TMP(PXRMID,$J,660020,"zFREQARNG")=1M^25^60^Baseline

The elements of the ^TMP("PXRHM",$J) array are:
^TMP("PXRHM",$J,660020,"Education Test")=DUE NOW^DUE NOW^unknown
^TMP("PXRHM",$J,660020,"Education Test","TXT",1)=Frequency: Due every 1 month fo
r ages 25 to 60.
^TMP("PXRHM",$J,660020,"Education Test","TXT",2)=This is the age match text for
age range 25 to 60. Patient is in age
^TMP("PXRHM",$J,660020,"Education Test","TXT",3)=range. Line 2.
^TMP("PXRHM",$J,660020,"Education Test","TXT",4)=This is no match text for 61 to
 70, the patient's age is 56.
^TMP("PXRHM",$J,660020,"Education Test","TXT",5)=This is the general cohort foun
d text.
^TMP("PXRHM",$J,660020,"Education Test","TXT",6)=This is the general resolution
not found text. Second line of not
^TMP("PXRHM",$J,660020,"Education Test","TXT",7)=found. Third line of not found.

^TMP("PXRHM",$J,660020,"Education Test","TXT",8)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",9)=Resolution:
^TMP("PXRHM",$J,660020,"Education Test","TXT",10)= Education Topic: Exercise Scr
eening
^TMP("PXRHM",$J,660020,"Education Test","TXT",11)=  03/17/2000
^TMP("PXRHM",$J,660020,"Education Test","TXT",12)=  01/06/2000 level of understa
nding - GOOD
^TMP("PXRHM",$J,660020,"Education Test","TXT",13)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",14)=  VA-EXERCISE SCREENING FOUND
TEXT. Lets test out some objects. The
^TMP("PXRHM",$J,660020,"Education Test","TXT",15)=  patient was seen on 03/17/00
 08:00. His last blood pressure was
^TMP("PXRHM",$J,660020,"Education Test","TXT",16)=  Blood Pressure: 120/76 (01/1
1/2001 19:24). His last weight was 233
^TMP("PXRHM",$J,660020,"Education Test","TXT",17)=  lb [105.9 kg] (03/30/2000 14
:15).
^TMP("PXRHM",$J,660020,"Education Test","TXT",18)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",19)=Information:
^TMP("PXRHM",$J,660020,"Education Test","TXT",20)= Education Topic: Substance Ab
use
^TMP("PXRHM",$J,660020,"Education Test","TXT",21)=  07/00/1998
^TMP("PXRHM",$J,660020,"Education Test","TXT",22)=  00/00/2000
```

```
^TMP("PXRHM",$J,660020,"Education Test","TXT",23)=  02/02/2000 level of understa
nding - GOOD
^TMP("PXRHM",$J,660020,"Education Test","TXT",24)=  02/17/2000 level of understa
nding - GOOD
^TMP("PXRHM",$J,660020,"Education Test","TXT",25)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",26)= Education Topic: Exercise
^TMP("PXRHM",$J,660020,"Education Test","TXT",27)=  03/17/2000
^TMP("PXRHM",$J,660020,"Education Test","TXT",28)=  00/00/2000
^TMP("PXRHM",$J,660020,"Education Test","TXT",29)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",30)= Education Topic: Diabetes
^TMP("PXRHM",$J,660020,"Education Test","TXT",31)=  03/17/2000
^TMP("PXRHM",$J,660020,"Education Test","TXT",32)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",33)= Reminder Term: EDUTEST
^TMP("PXRHM",$J,660020,"Education Test","TXT",34)=  Education Topic: Substance A
buse
^TMP("PXRHM",$J,660020,"Education Test","TXT",35)=   03/17/2000
^TMP("PXRHM",$J,660020,"Education Test","TXT",36)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",37)=  Education Topic: Exercise Sc
reening
^TMP("PXRHM",$J,660020,"Education Test","TXT",38)=   03/17/2000
^TMP("PXRHM",$J,660020,"Education Test","TXT",39)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",40)=  Education Topic: Exercise
^TMP("PXRHM",$J,660020,"Education Test","TXT",41)=   03/17/2000
^TMP("PXRHM",$J,660020,"Education Test","TXT",42)=

Formatted Output:

                                    --STATUS-- --DUE DATE--  --LAST DONE--

Education Test                       DUE NOW     DUE NOW       unknown

Frequency: Due every 1 month for ages 25 to 60.
This is the age match text for age range 25 to 60. Patient is in age
range. Line 2.
This is no match text for 61 to 70, the patient's age is 56.
This is the general cohort found text.
This is the general resolution not found text. Second line of not
found. Third line of not found.

Resolution:
 Education Topic: Exercise Screening
  03/17/2000
  01/06/2000 level of understanding - GOOD

  VA-EXERCISE SCREENING FOUND TEXT. Lets test out some objects. The
  patient was seen on 03/17/00 08:00. His last blood pressure was
  Blood Pressure: 120/76 (01/11/2001 19:24). His last weight was 233
  lb [105.9 kg] (03/30/2000 14:15).

Information:
 Education Topic: Substance Abuse
  07/00/1998
  00/00/2000
  02/02/2000 level of understanding - GOOD
  02/17/2000 level of understanding - GOOD

 Education Topic: Exercise
  03/17/2000
  00/00/2000

 Education Topic: Diabetes
  03/17/2000
```

```
Reminder Term: EDUTEST
 Education Topic: Substance Abuse
  03/17/2000

 Education Topic: Exercise Screening
  03/17/2000

 Education Topic: Exercise
  03/17/2000
```

Reminder Test Explained

There are three sections in this output. We will go through them individually.

1. The first section is the FIEVAL (Finding EVALuation) array, which corresponds to the findings in the reminder definition. If we look back at our definition inquiry, we see there are 6 findings in this reminder.

- Five Education Topics
- One Reminder Term

The entries in FIEVAL(1) show us what was found for finding 1:

The elements of the FIEVAL array are:

```
FIEVAL(1)=1
FIEVAL(1,1)=1
FIEVAL(1,1,"COMMENTS")=
FIEVAL(1,1,"CSUB","COMMENTS")=
FIEVAL(1,1,"CSUB","DATE")=2980700
FIEVAL(1,1,"CSUB","LEVEL OF UNDERSTANDING")=
FIEVAL(1,1,"CSUB","VALUE")=
FIEVAL(1,1,"CSUB","VISIT")=3935
FIEVAL(1,1,"DAS")=200
FIEVAL(1,1,"DATE")=2980700
FIEVAL(1,1,"LEVEL OF UNDERSTANDING")=
FIEVAL(1,1,"VALUE")=
FIEVAL(1,1,"VISIT")=3935
FIEVAL(1,2)=1
FIEVAL(1,2,"COMMENTS")=
FIEVAL(1,2,"CSUB","COMMENTS")=
FIEVAL(1,2,"CSUB","DATE")=3000000
FIEVAL(1,2,"CSUB","LEVEL OF UNDERSTANDING")=
FIEVAL(1,2,"CSUB","VALUE")=
FIEVAL(1,2,"CSUB","VISIT")=3997
FIEVAL(1,2,"DAS")=212
FIEVAL(1,2,"DATE")=3000000
FIEVAL(1,2,"LEVEL OF UNDERSTANDING")=
FIEVAL(1,2,"VALUE")=
FIEVAL(1,2,"VISIT")=3997
FIEVAL(1,3)=1
FIEVAL(1,3,"COMMENTS")=
FIEVAL(1,3,"CSUB","COMMENTS")=
FIEVAL(1,3,"CSUB","DATE")=3000202.15
FIEVAL(1,3,"CSUB","LEVEL OF UNDERSTANDING")=3
FIEVAL(1,3,"CSUB","VALUE")=3
```

The 1 tells us the finding is true. A 0 would mean it is false.

This is the first occurrence of finding 1. There are four occurrences.

The date of the finding in FileMan format.

This is the second occurrence of finding 1.

This entry in the Visit File is 3997.

This section shows the final value for the three occurrences.

```
FIEVAL(1,3,"CSUB","VISIT")=3693
FIEVAL(1,3,"DAS")=159
FIEVAL(1,3,"DATE")=3000202.15
FIEVAL(1,3,"LEVEL OF UNDERSTANDING")=3
FIEVAL(1,3,"VALUE")=3
FIEVAL(1,3,"VISIT")=3693
FIEVAL(1,4)=1
FIEVAL(1,4,"COMMENTS")=
FIEVAL(1,4,"CSUB","COMMENTS")=
FIEVAL(1,4,"CSUB","DATE")=3000217.085926
FIEVAL(1,4,"CSUB","LEVEL OF UNDERSTANDING")=3
FIEVAL(1,4,"CSUB","VALUE")=3
FIEVAL(1,4,"CSUB","VISIT")=3720
FIEVAL(1,4,"DAS")=151
FIEVAL(1,4,"DATE")=3000217.085926
FIEVAL(1,4,"LEVEL OF UNDERSTANDING")=3
FIEVAL(1,4,"VALUE")=3
FIEVAL(1,4,"VISIT")=3720
FIEVAL(1,"COMMENTS")=
FIEVAL(1,"CSUB","COMMENTS")=
FIEVAL(1,"CSUB","DATE")=2980700
FIEVAL(1,"CSUB","LEVEL OF UNDERSTANDING")=
FIEVAL(1,"CSUB","VALUE")=
FIEVAL(1,"CSUB","VISIT")=3935
FIEVAL(1,"DAS")=200
FIEVAL(1,"DATE")=2980700
FIEVAL(1,"FILE NUMBER")=9000010.16
FIEVAL(1,"FINDING")=1;AUTTEDT(
FIEVAL(1,"LEVEL OF UNDERSTANDING")=
FIEVAL(1,"VALUE")=
FIEVAL(1,"VISIT")=3935
```

200 is the DA string in the Patient Education file/education topic (see the Clinical Reminders Index Technical Manual for info on the DA strings.)

NOTE: When a Reminder Test is run, some elements of the FIEVAL array have a "*CSUB*" subscript. Example for an orderable item finding:

```
FIEVAL(5,"CSUB","DURATION")=1774
FIEVAL(5,"CSUB","ORDER")=3366^CA ULTRA^546;99RAP
FIEVAL(5,"CSUB","RELEASE DATE")=3010917.1625
FIEVAL(5,"CSUB","START DATE")=3010917
FIEVAL(5,"CSUB","STATUS")=PENDING
FIEVAL(5,"CSUB","STOP DATE")=
FIEVAL(5,"CSUB","VALUE")=PENDING
```

Each of the subscripts following "CSUB" may be used in a Condition (hence the abbreviation Condition SUBscript). For example:

```
I V("DURATION")>90
```

The use of "CSUB" data has expanded beyond Condition statements.

Below is a snippet of how the evaluation appears if "Yes" is entered at the prompt "Display all term findings". Note that this is not the complete reminder test output. Only the vital parts of the reminder test output are displayed here, to save on space. In a live situation, you will have the entire reminder test output displayed, which can be lengthy.

```
Display all term findings? N// YES
```

```
The elements of the FIEVAL array are:
FIEVAL(1)=1
FIEVAL(1,1)=1
FIEVAL(1,1,"CLINICAL TERM")=
FIEVAL(1,1,"CODEP")=12989
FIEVAL(1,1,"COMMENTS")=
FIEVAL(1,1,"CONDITION")=1
FIEVAL(1,1,"CSUB","CLINICAL TERM")=
FIEVAL(1,1,"CSUB","COMMENTS")=
FIEVAL(1,1,"CSUB","DATE OF INJURY")=
FIEVAL(1,1,"CSUB","MODIFIER")=
FIEVAL(1,1,"CSUB","PRIMARY/SECONDARY")=S
FIEVAL(1,1,"CSUB","PROBLEM LIST ENTRY")=
FIEVAL(1,1,"CSUB","PROVIDER NARRATIVE")=3906
FIEVAL(1,1,"CSUB","VISIT")=5161991
FIEVAL(1,1,"DAS")=3238132
FIEVAL(1,1,"DATE")=3050615.103
FIEVAL(1,1,"DATE OF INJURY")=
FIEVAL(1,1,"FILE NUMBER")=9000010.07
FIEVAL(1,1,"FILE SPECIFIC")=S
FIEVAL(1,1,"FINDING")=52;PXD(811.2,
FIEVAL(1,1,"MODIFIER")=
FIEVAL(1,1,"PRIMARY/SECONDARY")=S
FIEVAL(1,1,"PROBLEM LIST ENTRY")=
FIEVAL(1,1,"PROVIDER NARRATIVE")=3906
FIEVAL(1,1,"VISIT")=5161991
FIEVAL(1,2)=1
FIEVAL(1,2,"CLINICAL TERM")=
FIEVAL(1,2,"CODEP")=2507
FIEVAL(1,2,"COMMENTS")=
FIEVAL(1,2,"CONDITION")=1
FIEVAL(1,2,"CSUB","CLINICAL TERM")=
FIEVAL(1,2,"CSUB","COMMENTS")=
FIEVAL(1,2,"CSUB","DATE OF INJURY")=
FIEVAL(1,2,"CSUB","MODIFIER")=
FIEVAL(1,2,"CSUB","PRIMARY/SECONDARY")=P
FIEVAL(1,2,"CSUB","PROBLEM LIST ENTRY")=
FIEVAL(1,2,"CSUB","PROVIDER NARRATIVE")=1082
FIEVAL(1,2,"CSUB","VISIT")=3970337
FIEVAL(1,2,"DAS")=1896973
FIEVAL(1,2,"DATE")=3020913.131038
FIEVAL(1,2,"DATE OF INJURY")=
FIEVAL(1,2,"FILE NUMBER")=9000010.07
FIEVAL(1,2,"FILE SPECIFIC")=P
FIEVAL(1,2,"FINDING")=52;PXD(811.2,
FIEVAL(1,2,"MODIFIER")=
FIEVAL(1,2,"PRIMARY/SECONDARY")=P
FIEVAL(1,2,"PROBLEM LIST ENTRY")=
FIEVAL(1,2,"PROVIDER NARRATIVE")=1082
FIEVAL(1,2,"VISIT")=3970337
FIEVAL(1,3)=1
FIEVAL(1,3,"CLINICAL TERM")=
FIEVAL(1,3,"CODEP")=2507
FIEVAL(1,3,"COMMENTS")=
FIEVAL(1,3,"CONDITION")=1
FIEVAL(1,3,"CSUB","CLINICAL TERM")=
FIEVAL(1,3,"CSUB","COMMENTS")=
FIEVAL(1,3,"CSUB","DATE OF INJURY")=
FIEVAL(1,3,"CSUB","MODIFIER")=
FIEVAL(1,3,"CSUB","PRIMARY/SECONDARY")=P
FIEVAL(1,3,"CSUB","PROBLEM LIST ENTRY")=
FIEVAL(1,3,"CSUB","PROVIDER NARRATIVE")=1082
FIEVAL(1,3,"CSUB","VISIT")=3967489
```

```
FIEVAL(1,3,"DAS")=1893712
FIEVAL(1,3,"DATE")=3020911.131046
FIEVAL(1,3,"DATE OF INJURY")=
FIEVAL(1,3,"FILE NUMBER")=9000010.07
FIEVAL(1,3,"FILE SPECIFIC")=P
FIEVAL(1,3,"FINDING")=52;PXD(811.2,
FIEVAL(1,3,"MODIFIER")=
FIEVAL(1,3,"PRIMARY/SECONDARY")=P
FIEVAL(1,3,"PROBLEM LIST ENTRY")=
FIEVAL(1,3,"PROVIDER NARRATIVE")=1082
FIEVAL(1,3,"VISIT")=3967489
FIEVAL(1,"CLINICAL TERM")=
FIEVAL(1,"CODEP")=12989
FIEVAL(1,"COMMENTS")=
FIEVAL(1,"CONDITION")=1
FIEVAL(1,"CSUB","CLINICAL TERM")=
FIEVAL(1,"CSUB","COMMENTS")=
FIEVAL(1,"CSUB","DATE OF INJURY")=
FIEVAL(1,"CSUB","MODIFIER")=
FIEVAL(1,"CSUB","PRIMARY/SECONDARY")=S
FIEVAL(1,"CSUB","PROBLEM LIST ENTRY")=
FIEVAL(1,"CSUB","PROVIDER NARRATIVE")=3906
FIEVAL(1,"CSUB","VISIT")=5161991
FIEVAL(1,"DAS")=3238132
FIEVAL(1,"DATE")=3050615.103
FIEVAL(1,"DATE OF INJURY")=
FIEVAL(1,"FILE NUMBER")=9000010.07
FIEVAL(1,"FILE SPECIFIC")=S
FIEVAL(1,"FINDING")=52;PXD(811.2,
FIEVAL(1,"MODIFIER")=
FIEVAL(1,"PRIMARY/SECONDARY")=S
FIEVAL(1,"PROBLEM LIST ENTRY")=
FIEVAL(1,"PROVIDER NARRATIVE")=3906
FIEVAL(1,"TERM")=VA-IHD DIAGNOSIS^^^3010723
FIEVAL(1,"TERM IEN")=26
FIEVAL(1,"VISIT")=5161991
FIEVAL(2)=0
FIEVAL(3)=0
FIEVAL(3,"TERM")=VA-OUTSIDE LDL <100^^^3011113
FIEVAL(3,"TERM IEN")=35
FIEVAL(4)=0
FIEVAL(4,"TERM")=VA-OUTSIDE LDL 100-119^^^3010910
FIEVAL(4,"TERM IEN")=34
FIEVAL(5)=0
FIEVAL(5,"TERM")=VA-OUTSIDE LDL 120-129^^^3010925
FIEVAL(5,"TERM IEN")=52
FIEVAL(6)=0
FIEVAL(6,"TERM")=VA-OUTSIDE LDL >129^^^3011113
FIEVAL(6,"TERM IEN")=36
FIEVAL(7)=0
FIEVAL(7,"TERM")=VA-ORDER LIPID PROFILE HEALTH FACTOR^^^3020131
FIEVAL(7,"TERM IEN")=61
FIEVAL(8)=0
FIEVAL(8,"TERM")=VA-REFUSED LIPID PROFILE^^^3011022
FIEVAL(8,"TERM IEN")=40
FIEVAL(9)=0
FIEVAL(9,"TERM")=VA-OTHER DEFER LIPID PROFILE^^^3011022
FIEVAL(9,"TERM IEN")=41
FIEVAL(10)=0
FIEVAL(10,"TERM")=VA-UNCONFIRMED IHD DIAGNOSIS^^^3011017
FIEVAL(10,"TERM IEN")=42
FIEVAL(12)=0
FIEVAL(12,"TERM")=VA-LIPID LOWERING MEDS^^^3011007
```

```
FIEVAL(12,"TERM IEN")=54
FIEVAL(14)=0
FIEVAL("AGE")=1
FIEVAL("AGE",1)=1
FIEVAL("DFN")=36167
FIEVAL("EVAL DATE/TIME")=3060125
FIEVAL("FF1")=1
FIEVAL("FF1","FINDING")=1;PXRMD(802.4,
FIEVAL("FF1","NAME")=
FIEVAL("FF1","VALUE")=1
FIEVAL("PATIENT AGE")=86
FIEVAL("SEX")=1

Term findings:
Finding 1:
TFIEVAL(1,1)=1
TFIEVAL(1,1,1)=1
TFIEVAL(1,1,1,"CLINICAL TERM")=
TFIEVAL(1,1,1,"CODEP")=12989
TFIEVAL(1,1,1,"COMMENTS")=
TFIEVAL(1,1,1,"CONDITION")=1
TFIEVAL(1,1,1,"CSUB","CLINICAL TERM")=
TFIEVAL(1,1,1,"CSUB","COMMENTS")=
TFIEVAL(1,1,1,"CSUB","DATE OF INJURY")=
TFIEVAL(1,1,1,"CSUB","MODIFIER")=
TFIEVAL(1,1,1,"CSUB","PRIMARY/SECONDARY")=S
TFIEVAL(1,1,1,"CSUB","PROBLEM LIST ENTRY")=
TFIEVAL(1,1,1,"CSUB","PROVIDER NARRATIVE")=3906
TFIEVAL(1,1,1,"CSUB","VISIT")=5161991
TFIEVAL(1,1,1,"DAS")=3238132
TFIEVAL(1,1,1,"DATE")=3050615.103
TFIEVAL(1,1,1,"DATE OF INJURY")=
TFIEVAL(1,1,1,"FILE NUMBER")=9000010.07
TFIEVAL(1,1,1,"FILE SPECIFIC")=S
TFIEVAL(1,1,1,"FINDING")=52;PXD(811.2,
TFIEVAL(1,1,1,"MODIFIER")=
TFIEVAL(1,1,1,"PRIMARY/SECONDARY")=S
TFIEVAL(1,1,1,"PROBLEM LIST ENTRY")=
TFIEVAL(1,1,1,"PROVIDER NARRATIVE")=3906
TFIEVAL(1,1,1,"VISIT")=5161991
TFIEVAL(1,1,2)=1
TFIEVAL(1,1,2,"CLINICAL TERM")=
TFIEVAL(1,1,2,"CODEP")=2507
TFIEVAL(1,1,2,"COMMENTS")=
TFIEVAL(1,1,2,"CONDITION")=1
TFIEVAL(1,1,2,"CSUB","CLINICAL TERM")=
TFIEVAL(1,1,2,"CSUB","COMMENTS")=
TFIEVAL(1,1,2,"CSUB","DATE OF INJURY")=
TFIEVAL(1,1,2,"CSUB","MODIFIER")=
TFIEVAL(1,1,2,"CSUB","PRIMARY/SECONDARY")=P
TFIEVAL(1,1,2,"CSUB","PROBLEM LIST ENTRY")=
TFIEVAL(1,1,2,"CSUB","PROVIDER NARRATIVE")=1082
TFIEVAL(1,1,2,"CSUB","VISIT")=3970337
TFIEVAL(1,1,2,"DAS")=1896973
TFIEVAL(1,1,2,"DATE")=3020913.131038
TFIEVAL(1,1,2,"DATE OF INJURY")=
TFIEVAL(1,1,2,"FILE NUMBER")=9000010.07
TFIEVAL(1,1,2,"FILE SPECIFIC")=P
TFIEVAL(1,1,2,"FINDING")=52;PXD(811.2,
TFIEVAL(1,1,2,"MODIFIER")=
TFIEVAL(1,1,2,"PRIMARY/SECONDARY")=P
TFIEVAL(1,1,2,"PROBLEM LIST ENTRY")=
TFIEVAL(1,1,2,"PROVIDER NARRATIVE")=1082
```

```
TFIEVAL(1,1,2,"VISIT")=3970337
TFIEVAL(1,1,3)=1
TFIEVAL(1,1,3,"CLINICAL TERM")=
TFIEVAL(1,1,3,"CODEP")=2507
TFIEVAL(1,1,3,"COMMENTS")=
TFIEVAL(1,1,3,"CONDITION")=1
TFIEVAL(1,1,3,"CSUB","CLINICAL TERM")=
TFIEVAL(1,1,3,"CSUB","COMMENTS")=
TFIEVAL(1,1,3,"CSUB","DATE OF INJURY")=
TFIEVAL(1,1,3,"CSUB","MODIFIER")=
TFIEVAL(1,1,3,"CSUB","PRIMARY/SECONDARY")=P
TFIEVAL(1,1,3,"CSUB","PROBLEM LIST ENTRY")=
TFIEVAL(1,1,3,"CSUB","PROVIDER NARRATIVE")=1082
TFIEVAL(1,1,3,"CSUB","VISIT")=3967489
TFIEVAL(1,1,3,"DAS")=1893712
TFIEVAL(1,1,3,"DATE")=3020911.131046
TFIEVAL(1,1,3,"DATE OF INJURY")=
TFIEVAL(1,1,3,"FILE NUMBER")=9000010.07
TFIEVAL(1,1,3,"FILE SPECIFIC")=P
TFIEVAL(1,1,3,"FINDING")=52;PXD(811.2,
TFIEVAL(1,1,3,"MODIFIER")=
TFIEVAL(1,1,3,"PRIMARY/SECONDARY")=P
TFIEVAL(1,1,3,"PROBLEM LIST ENTRY")=
TFIEVAL(1,1,3,"PROVIDER NARRATIVE")=1082
TFIEVAL(1,1,3,"VISIT")=3967489
TFIEVAL(1,1,"CLINICAL TERM")=
TFIEVAL(1,1,"CODEP")=12989
TFIEVAL(1,1,"COMMENTS")=
TFIEVAL(1,1,"CONDITION")=1
TFIEVAL(1,1,"CSUB","CLINICAL TERM")=
TFIEVAL(1,1,"CSUB","COMMENTS")=
TFIEVAL(1,1,"CSUB","DATE OF INJURY")=
TFIEVAL(1,1,"CSUB","MODIFIER")=
TFIEVAL(1,1,"CSUB","PRIMARY/SECONDARY")=S
TFIEVAL(1,1,"CSUB","PROBLEM LIST ENTRY")=
TFIEVAL(1,1,"CSUB","PROVIDER NARRATIVE")=3906
TFIEVAL(1,1,"CSUB","VISIT")=5161991
TFIEVAL(1,1,"DAS")=3238132
TFIEVAL(1,1,"DATE")=3050615.103
TFIEVAL(1,1,"DATE OF INJURY")=
TFIEVAL(1,1,"FILE NUMBER")=9000010.07
TFIEVAL(1,1,"FILE SPECIFIC")=S
TFIEVAL(1,1,"FINDING")=52;PXD(811.2,
TFIEVAL(1,1,"MODIFIER")=
TFIEVAL(1,1,"PRIMARY/SECONDARY")=S
TFIEVAL(1,1,"PROBLEM LIST ENTRY")=
TFIEVAL(1,1,"PROVIDER NARRATIVE")=3906
TFIEVAL(1,1,"VISIT")=5161991
Formatted Output:

                                    --STATUS-- --DUE DATE--  --LAST DONE--

IHD Lipid Profile                    DUE NOW     DUE NOW       unknown

Frequency: Due every 1 year

Cohort:
 Reminder Term: VA-IHD DIAGNOSIS
  Encounter Diagnosis:
   06/15/2005 414.00 COR ATHEROSCL UNSP TYP-VES rank: SECONDARY
   09/13/2002 414.9 CHR ISCHEMIC HRT DIS NOS rank: PRIMARY
   Prov. Narr. - CHRONIC ISCHEMIC HEART DISEASE, UNSPECIFIED
   09/11/2002 414.9 CHR ISCHEMIC HRT DIS NOS rank: PRIMARY
```

```
   Prov. Narr. - CHRONIC ISCHEMIC HEART DISEASE, UNSPECIFIED
```

Parts of the reminder test have been removed for brevity's sake. Under the Term Evaluation part of the reminder test, you will notice the TFIEVAL and subscripts. This looks very similar to the results of the FIEVAL, except that it is the results of each mapped finding within the term. There is a minimum of two subscripts for each mapped finding. The first subscript is the number of the actual finding (the term). The second subscript is the number of the mapped finding. In this instance, the evaluation of the mapped finding is "True."

TFIEVAL(1,1)=1

Sometimes there may be three subscripts. This third subscript is the occurrence of the mapped finding. In the above example (the complete reminder test output), you will notice there are three occurrences for mapped finding number 1. This is because the reminder term has an occurrence count of 3. This is also displayed in the clinical maintenance section of the reminder test output.

Note: The "CSUB" values of an occurrence of a mapped finding can be used in a Condition of a finding just as the "CSUB" values of a regular finding can be.

```
TFIEVAL(1,1,1)=1
TFIEVAL(1,1,1,"CLINICAL TERM")=
TFIEVAL(1,1,1,"CODEP")=12989
TFIEVAL(1,1,1,"COMMENTS")=
TFIEVAL(1,1,1,"CONDITION")=1
TFIEVAL(1,1,1,"CSUB","CLINICAL TERM")=
TFIEVAL(1,1,1,"CSUB","COMMENTS")=
TFIEVAL(1,1,1,"CSUB","DATE OF INJURY")=
TFIEVAL(1,1,1,"CSUB","MODIFIER")=
TFIEVAL(1,1,1,"CSUB","PRIMARY/SECONDARY")=S
TFIEVAL(1,1,1,"CSUB","PROBLEM LIST ENTRY")=
TFIEVAL(1,1,1,"CSUB","PROVIDER NARRATIVE")=3906
TFIEVAL(1,1,1,"CSUB","VISIT")=5161991
TFIEVAL(1,1,1,"DAS")=3238132
TFIEVAL(1,1,1,"DATE")=3050615.103
TFIEVAL(1,1,1,"DATE OF INJURY")=
TFIEVAL(1,1,1,"FILE NUMBER")=9000010.07
TFIEVAL(1,1,1,"FILE SPECIFIC")=S
TFIEVAL(1,1,1,"FINDING")=52;PXD(811.2,
TFIEVAL(1,1,1,"MODIFIER")=
TFIEVAL(1,1,1,"PRIMARY/SECONDARY")=S
TFIEVAL(1,1,1,"PROBLEM LIST ENTRY")=
TFIEVAL(1,1,1,"PROVIDER NARRATIVE")=3906
TFIEVAL(1,1,1,"VISIT")=5161991
```

2. This section shows the cohort logic, reminder name, resolution logic, and how the frequency was determined.

```
The elements of the ^TMP(PXRMID,$J) array are:
^TMP(PXRMID,$J,660020,"PATIENT COHORT LOGIC")=1^(SEX)&(AGE)^(1)&(1)
^TMP(PXRMID,$J,660020,"REMINDER NAME")=Education Test
^TMP(PXRMID,$J,660020,"RESOLUTION LOGIC")=0^(0)!FI(2)&FF(1)&FF(3)^(0)!1&0&1
^TMP(PXRMID,$J,660020,"zFREQARNG")=1Y^61^70^Baseline
```

The first piece of the logic display shows if the logic evaluates to true or false. In this example, the cohort logic is true and the resolution logic is false. The second piece shows the logic string just like it is displayed in the reminder inquiry. The third piece shows the true or false values of the findings in the logic string.

3. The next section shows how the data is returned in ^TMP("PXRHM",$J) to the calling application. This is mainly of interest to developers.

```
The elements of the ^TMP("PXRHM",$J) array are:
^TMP("PXRHM",$J,660020,"Education Test")=DUE NOW^DUE NOW^unknown
^TMP("PXRHM",$J,660020,"Education Test","TXT",1)=Frequency: Due every 1 year for
 ages 61 to 70.
^TMP("PXRHM",$J,660020,"Education Test","TXT",2)=Patient is not in age range. Li
ne 2
^TMP("PXRHM",$J,660020,"Education Test","TXT",3)=This is match text for 61 to 70
. The patient's age is 62.
^TMP("PXRHM",$J,660020,"Education Test","TXT",4)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",5)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",6)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",7)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",8)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",9)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",10)=This is the general cohort fou
nd text. The patient's age is 62.
^TMP("PXRHM",$J,660020,"Education Test","TXT",11)=The patient's active medicatio
ns are: Active Outpatient Medications (excluding
^TMP("PXRHM",$J,660020,"Education Test","TXT",12)=Supplies):
^TMP("PXRHM",$J,660020,"Education Test","TXT",13)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",14)=     Pending Outpatient Medica
tions                          Status
^TMP("PXRHM",$J,660020,"Education Test","TXT",15)==============================
============================================
^TMP("PXRHM",$J,660020,"Education Test","TXT",16)=1)   ACETAMINOPHEN ELIXIR 160M
G/5ML 16OZ TAKE 1 TABLET BY   PENDING
^TMP("PXRHM",$J,660020,"Education Test","TXT",17)=       MOUTH TWICE A DAY
^TMP("PXRHM",$J,660020,"Education Test","TXT",18)=2)   ERGOTAMINE & CAFFEINE SUP
P. INSERT Y SUPPOSITORY(IES)  PENDING
^TMP("PXRHM",$J,660020,"Education Test","TXT",19)=       IN RECTUM
^TMP("PXRHM",$J,660020,"Education Test","TXT",20)=3)   HYDROCHLOROTHIAZIDE 50MG
TAKE ONE TABLET BY MOUTH      PENDING
^TMP("PXRHM",$J,660020,"Education Test","TXT",21)=       EVERY DAY
^TMP("PXRHM",$J,660020,"Education Test","TXT",22)=4)   WARFARIN 2.5MG TAKE ONE T
ABLET BY MOUTH TWICE A DAY    PENDING
^TMP("PXRHM",$J,660020,"Education Test","TXT",23)=       FOR 6 DAYS, THEN TAKE O
NE TABLET EVERY DAY FOR 2
^TMP("PXRHM",$J,660020,"Education Test","TXT",24)=       DAYS
^TMP("PXRHM",$J,660020,"Education Test","TXT",25)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",26)=     Active Non-VA Medications
                               Status
^TMP("PXRHM",$J,660020,"Education Test","TXT",27)==============================
============================================
^TMP("PXRHM",$J,660020,"Education Test","TXT",28)=1)   Non-VA ACETAMINOPHEN 325M
G 650MG MOUTH EVERY 4 HOURS   ACTIVE
^TMP("PXRHM",$J,660020,"Education Test","TXT",29)=2)   Non-VA ACETAMINOPHEN ELIX
IR 160MG/5ML 16OZ 1 TABLET    ACTIVE
^TMP("PXRHM",$J,660020,"Education Test","TXT",30)=       MOUTH
^TMP("PXRHM",$J,660020,"Education Test","TXT",31)=3)   Non-VA ACETAMINOPHEN/CODE
INE TAB  MOUTH                ACTIVE
^TMP("PXRHM",$J,660020,"Education Test","TXT",32)=4)   Non-VA ACETAMINOPHEN/PROP
OXYPHENE TAB  MOUTH           ACTIVE
^TMP("PXRHM",$J,660020,"Education Test","TXT",33)=5)   Non-VA ACETAZOLAMIDE CAP,
SA  MOUTH                     ACTIVE
^TMP("PXRHM",$J,660020,"Education Test","TXT",34)=6)   Non-VA ACETIC ACID OTIC S
OLN 2%, 60ML 2 DROPS RIGHT    ACTIVE
^TMP("PXRHM",$J,660020,"Education Test","TXT",35)=       EAR
^TMP("PXRHM",$J,660020,"Education Test","TXT",36)=7)   Non-VA ACETOHEXAMIDE TAB
```

```
1JFKDJF MOUTH 6XD              ACTIVE
^TMP("PXRHM",$J,660020,"Education Test","TXT",37)=8)   Non-VA ACTICORT LOTION,TO
P  AFFECTED AREA               ACTIVE
^TMP("PXRHM",$J,660020,"Education Test","TXT",38)=9)   Non-VA ACYCLOVIR 5% OINT
15GM LEG AFFECTED AREA EVERY  ACTIVE
^TMP("PXRHM",$J,660020,"Education Test","TXT",39)=       4 HOURS
^TMP("PXRHM",$J,660020,"Education Test","TXT",40)=10)  Non-VA ACYCLOVIR CAP,ORAL
 3M ORAL DAILY                 ACTIVE
^TMP("PXRHM",$J,660020,"Education Test","TXT",41)=11)  Non-VA LINDANE SHAMPOO  A
FFECTED AREA                   ACTIVE
^TMP("PXRHM",$J,660020,"Education Test","TXT",42)=12)  Non-VA TRETINOIN CREAM,TO
P                              ACTIVE
^TMP("PXRHM",$J,660020,"Education Test","TXT",43)=13)  Non-VA ZZDOCUSATE CAP,ORA
L TES MOUTH                    ACTIVE
^TMP("PXRHM",$J,660020,"Education Test","TXT",44)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",45)=17 Total Medications
^TMP("PXRHM",$J,660020,"Education Test","TXT",46)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",47)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",48)=This is the general resolution
 not found text. Second line of not found. Third
^TMP("PXRHM",$J,660020,"Education Test","TXT",49)=line of not found.
^TMP("PXRHM",$J,660020,"Education Test","TXT",50)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",51)=Resolution:
^TMP("PXRHM",$J,660020,"Education Test","TXT",52)= Education Topic: Exercise Scr
eening
^TMP("PXRHM",$J,660020,"Education Test","TXT",53)=  03/17/2000@08:00
^TMP("PXRHM",$J,660020,"Education Test","TXT",54)=  01/06/2000@13:15:24 level of
 understanding - GOOD
^TMP("PXRHM",$J,660020,"Education Test","TXT",55)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",56)=  VA-EXERCISE SCREENING FOUND
TEXT. Lets test out some objects. The patient was
^TMP("PXRHM",$J,660020,"Education Test","TXT",57)=  seen on 03/17/00 08:00. His
last blood pressure was Blood Pressure: 120/76
^TMP("PXRHM",$J,660020,"Education Test","TXT",58)=  (01/11/2001 19:24). Test an
extra pipe The OBJECT . His last height and
^TMP("PXRHM",$J,660020,"Education Test","TXT",59)=  weight was  was NOT found...
Contact IRM.PATIENT HEIGHTThe OBJECT  and  was
^TMP("PXRHM",$J,660020,"Education Test","TXT",60)=  NOT found...Contact IRM.PATI
ENT WEIGHTThe OBJECT . was NOT found...Contact
^TMP("PXRHM",$J,660020,"Education Test","TXT",61)=  IRM.
^TMP("PXRHM",$J,660020,"Education Test","TXT",62)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",63)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",64)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",65)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",66)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",67)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",68)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",69)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",70)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",71)=  FF(1)=0
^TMP("PXRHM",$J,660020,"Education Test","TXT",72)=  Function finding 1 not found
 text, patient's age is 62.
^TMP("PXRHM",$J,660020,"Education Test","TXT",73)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",74)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",75)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",76)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",77)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",78)=  FF(3)=1
^TMP("PXRHM",$J,660020,"Education Test","TXT",79)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",80)=Information:
^TMP("PXRHM",$J,660020,"Education Test","TXT",81)= Education Topic: Substance Ab
use
^TMP("PXRHM",$J,660020,"Education Test","TXT",82)=  07/00/1998
```

```
^TMP("PXRHM",$J,660020,"Education Test","TXT",83)=  00/00/2000
^TMP("PXRHM",$J,660020,"Education Test","TXT",84)=  02/02/2000@15:00 level of un
derstanding - GOOD
^TMP("PXRHM",$J,660020,"Education Test","TXT",85)=  02/17/2000@08:59:26 level of
 understanding - GOOD
^TMP("PXRHM",$J,660020,"Education Test","TXT",86)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",87)= Education Topic: Exercise
^TMP("PXRHM",$J,660020,"Education Test","TXT",88)=  03/17/2000@08:00
^TMP("PXRHM",$J,660020,"Education Test","TXT",89)=  00/00/2000
^TMP("PXRHM",$J,660020,"Education Test","TXT",90)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",91)= Education Topic: Diabetes
^TMP("PXRHM",$J,660020,"Education Test","TXT",92)=  03/17/2000@08:00
^TMP("PXRHM",$J,660020,"Education Test","TXT",93)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",94)= Reminder Term: EDUTEST
^TMP("PXRHM",$J,660020,"Education Test","TXT",95)=  Education Topic: Substance A
buse
^TMP("PXRHM",$J,660020,"Education Test","TXT",96)=   03/17/2000@08:00
^TMP("PXRHM",$J,660020,"Education Test","TXT",97)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",98)=  Education Topic: Exercise Sc
reening
^TMP("PXRHM",$J,660020,"Education Test","TXT",99)=   03/17/2000@08:00
^TMP("PXRHM",$J,660020,"Education Test","TXT",100)=
^TMP("PXRHM",$J,660020,"Education Test","TXT",101)=  Education Topic: Exercise
^TMP("PXRHM",$J,660020,"Education Test","TXT",102)=   03/17/2000@08:00
^TMP("PXRHM",$J,660020,"Education Test","TXT",103)=
```

4. The final section shows the formatted Clinical Maintenance output. This is what you would see in CPRS or Health Summary.

```
Maintenance Output:

                                    --STATUS-- --DUE DATE--  --LAST DONE--
Education Test                       DUE NOW     DUE NOW       unknown
Frequency: Due every 1 year for ages 61 to 70.
Patient is not in age range. Line 2
This is match text for 61 to 70. The patient's age is 62.

This is the general cohort found text. The patient's age is 62.
The patient's active medications are: Active Outpatient Medications (excluding
Supplies):

     Pending Outpatient Medications                          Status
=========================================================================
1)   ACETAMINOPHEN ELIXIR 160MG/5ML 16OZ TAKE 1 TABLET BY   PENDING
       MOUTH TWICE A DAY
2)   ERGOTAMINE & CAFFEINE SUPP. INSERT Y SUPPOSITORY(IES)  PENDING
       IN RECTUM
3)   HYDROCHLOROTHIAZIDE 50MG TAKE ONE TABLET BY MOUTH      PENDING
       EVERY DAY
4)   WARFARIN 2.5MG TAKE ONE TABLET BY MOUTH TWICE A DAY    PENDING
       FOR 6 DAYS, THEN TAKE ONE TABLET EVERY DAY FOR 2
       DAYS

     Active Non-VA Medications                               Status
=========================================================================
1)   Non-VA ACETAMINOPHEN 325MG 650MG MOUTH EVERY 4 HOURS   ACTIVE
2)   Non-VA ACETAMINOPHEN ELIXIR 160MG/5ML 16OZ 1 TABLET    ACTIVE
       MOUTH
3)   Non-VA ACETAMINOPHEN/CODEINE TAB  MOUTH                ACTIVE
4)   Non-VA ACETAMINOPHEN/PROPOXYPHENE TAB  MOUTH           ACTIVE
5)   Non-VA ACETAZOLAMIDE CAP,SA  MOUTH                     ACTIVE
6)   Non-VA ACETIC ACID OTIC SOLN 2%, 60ML 2 DROPS RIGHT    ACTIVE
       EAR
7)   Non-VA ACETOHEXAMIDE TAB 1JFKDJF MOUTH 6XD             ACTIVE
```

```
8)   Non-VA ACTICORT LOTION,TOP  AFFECTED AREA              ACTIVE
9)   Non-VA ACYCLOVIR 5% OINT 15GM LEG AFFECTED AREA EVERY  ACTIVE
       4 HOURS
10)  Non-VA ACYCLOVIR CAP,ORAL 3M ORAL DAILY                ACTIVE
11)  Non-VA LINDANE SHAMPOO  AFFECTED AREA                  ACTIVE
12)  Non-VA TRETINOIN CREAM,TOP                             ACTIVE
13)  Non-VA ZZDOCUSATE CAP,ORAL TES MOUTH                   ACTIVE

17 Total Medications

This is the general resolution not found text. Second line of not found. Third
line of not found.

Resolution:
 Education Topic: Exercise Screening
  03/17/2000@08:00
  01/06/2000@13:15:24 level of understanding - GOOD

  VA-EXERCISE SCREENING FOUND TEXT. Lets test out some objects. The patient was
  seen on 03/17/00 08:00. His last blood pressure was Blood Pressure: 120/76
  (01/11/2001 19:24). Test an extra pipe The OBJECT . His last height and
  weight was  was NOT found...Contact IRM.PATIENT HEIGHTThe OBJECT  and  was
  NOT found...Contact IRM.PATIENT WEIGHTThe OBJECT . was NOT found...Contact
  IRM.

  FF(1)=0
  Function finding 1 not found text, patient's age is 62.

  FF(3)=1

Information:
 Education Topic: Substance Abuse
  07/00/1998
  00/00/2000
  02/02/2000@15:00 level of understanding - GOOD
  02/17/2000@08:59:26 level of understanding - GOOD
 Education Topic: Exercise
  03/17/2000@08:00
  00/00/2000

 Education Topic: Diabetes
  03/17/2000@08:00

 Reminder Term: EDUTEST
  Education Topic: Substance Abuse
   03/17/2000@08:00

  Education Topic: Exercise Screening
   03/17/2000@08:00

  Education Topic: Exercise
   03/17/2000@08:00
```

Reminder Evaluation in CPRS

Clinical Reminders Managers or clinicians can use the Reminder evaluation utility that's available in the CPRS GUI to test reminders and dialogs as they are created.

HINT: Keeping one or more terminal emulator (e.g., KEA) screens open with the List Manager Reminder Management menu, along with an open CPRS window, is an effective way to work as you are creating working reminders and dialogs, to ensure that your definitions are appropriate. You can use both the Evaluate Reminder and Refresh options on the Action (or right-click) menu to see the effects of your changes.

There are two forms of the Reminder Evaluation option, for use before and after processing reminders.

Evaluate Reminder

Before you process a reminder, you can select this option to see if specific reminders in the Other Category folder should be Applicable or should be Due for the selected patient.

For example, in a diabetic clinic, you might see a patient around flu season and evaluate the flu shot reminder in the other category to see if a flu shot is needed.

To evaluate reminders, right-click in a tree view (from the Reminders Button or Drawer) and select Evaluate Reminder.

Evaluate Processed Reminders

After you have processed a reminder, you can use this option to see if your actions during the encounter satisfied the reminder.

Satisfying a reminder may require more than you originally think. You may want to evaluate the reminders after you have processed them to make sure you have satisfied the reminder.

NOTE: PCE data may take a few minutes to be correctly recorded. Please wait a few minutes after processing a reminder before evaluating it again to ensure that it was satisfied.
To evaluate processed reminders, choose Action in the Available Reminders window, and then click on Evaluate Processed Reminders.

General Testing of Clinical Reminders
(Thanks to Kathryn C. Corrigan, MD, ACOS Ambulatory Care,Tampa VAMC, from 2007 VeHU presentation)

The accuracy of clinical display of reminders as well as the accuracy of reports is dependent upon creation and implementation of accurate reminders. One critical role of the reminders champion" is assisting the clinical informatics specialist in testing the reminder.

In this portion of the presentation, I would like to introduce some general concepts of "testing.". This is not meant to be a detailed instruction manual on testing. I would refer you to the clinical reminders coordinator at your site for more details.

In general, when testing a clinical reminder, you want to test the reminder on patients who fit the cohort definition as well as on patients who do NOT fit the cohort definition. Is the reminder applicable when it

should be? You also want to test the reminder for patients who are in cohort and have the reminder resolved as well as for patients who are in cohort and do NOT have the reminder resolved. In the first round, this is usually best done using test patients set up by clinical informatics. This is usually done in a test account which is a mirror image of the production account at your site.

Testing can be done by using the reminder test on an individual patient. The reminder test is a clinical reminders menu option available in Vista which gives detailed information on findings, file locations where the data has been found, logic and other highly technical information. It is generally not understandable by a non-techie.

Most clinicians will find using CPRS to determine if the reminder is due most helpful. The information in the Reminder Maintenance can be analyzed during testing as well as troubleshooting to determine why a specific reminder is due for a specific patient and what resolves the reminder.

An important step is testing the reminder Dialog. The clinician should test all groups and elements in a dialog to ensure that the dialog text is clear, concise, and accurate and that the dialog works as expected. Next, the dialog should be carefully tested to ensure that the progress note text which is inserted is clear, concise, and accurate. Checking the spelling is tedious but important.

The dialog should also be tested to analyze if anything is missing. Think like a clinician: When I see patients in the clinic, which patients obviously can't have this procedure either because it is impossible or it is not indicated. A clear example is the diabetic foot exam. On first pass, most clinicians would say it's due for ALL patient with diabetes. However, it is technically not possible to perform a monofilament exam on a patient with bilateral amputees. It is also not clinically useful to perform this exam on a diabetic with a spinal cord injury which has resulted in loss of sensation to the lower extremities. Assuming the reminder passes the testing in the first phase, it is reasonable to move on to a second phase in the test account using reminders reports

Run detailed reports for short interval in a clinic where you would expect to have the reminder due. For example;

- Diabetes clinic for A1C>9 (Many uncontrolled diabetics would expect to be referred to diabetes clinic)
- Comp and Pension Clinic (high likelihood of patients who are not enrolled in primary care and may not have had reminders addressed)

Run a report listing all patients in the clinic. Check CPRS for accuracy for patients who have the reminder due and who do not have the reminder due.

Run summary and/or detailed reports in a clinic where you expect a specific reminder to be resolved. Example:

- There is a high likelihood that close to 100% of all patients seen in Retinal clinic have had a retinal examination done.

Another good clinic to check is a primary care provider whom you know to be diligent in processing clinical reminders who also has stable patient panel and is not seeing a lot of new patients.

Clinically review records as needed.

Other Supporting Menus

This menu and its options are included on the Clinical Reminders Manager Menu to provide easier access to related tools from other **V***IST***A** packages for setting up and maintaining clinical reminders.

Syno-nym	Option	Option Name	Description
TM	PCE Table Maintenance	PXTT TABLE MAINTENANCE	The options on this menu are used to add or edit the clinical terminology used to represent types of data to be collected by PCE such as Health Factors, Patient Education, Immunizations, Skin Tests, etc.
PC	PCE Coordinator Menu	PX PCE COORDINATOR MENU	This menu for PCE ADPACS includes all of the user interface options as well as the options for file maintenance.
HS	Health Summary Coordinator's Menu	GMTS COORDINATOR	This menu includes options for creating Health Summaries, Health Summary Types, and the option to set parameters for nightly batch printing of Health Summaries by Location. NOTE: When making Clinical Reminder option assignments, consider the assignment of the GMTS COORDINATOR menu option as a separate issue, leaving it or removing it from the Clinical Reminder menu as desired.
EF	Print Blank Encounter Form	IBDF PRINT BLNK ENCOUNTER FORM	This option allows the user to select a clinic, and if an encounter form is defined for use with an embossed patient card, the form will be printed.
QO	Enter/edit quick orders	ORCM QUICK ORDERS	This option lets you create or change quick orders.

Reminder Information Only Menu

This menu contains options for users who need information about reminders, but do not need the ability to make changes. Most of the options are described previously in this manual.

Syno-nym	Option	Option Name	Description
RL	List Reminder Definitions	PXRM DEFINITION LIST	This option provides a brief summary of selected Clinical Reminder definitions.
RI	Inquire about Reminder Definition	PXRM DEFINITION INQUIRY	Allows a user to display a clinical reminder definition in an easy to read format.
TXL	List Taxonomy Definitions	PXRM TAXONOMY LIST	This option lists the current definitions of all the taxonomies defined in the REMINDER TAXONOMY file.
TXI	Inquire about Taxonomy Item	PXRM TAXONOMY INQUIRY	This option provides a detailed report of a Taxonomy item's definition.
TRI	List Reminder Terms	PXRM TERM LIST	This option is used to give a brief listing of reminder terms.
TR	Inquire about Reminder Term	PXRM TERM INQUIRY	This option allows a user to display the contents of a reminder term in an easy to read format.
SL	List Reminder Sponsors	PXRM SPONSOR LIST	This option is used to get a list of Reminder Sponsors.

Reminder Dialog Management

Reminder Dialogs are used in CPRS to allow clinicians to select actions that satisfy or resolve reminders for a patient. Information entered through reminder dialogs update progress notes, place orders, and update other data in the patient's medical record.

A reminder dialog is created by the assembly of elements in groups into an orderly display, which is seen by the user in the CPRS GUI.

Changes to Reminder Dialogs in Patch 26

Dialogs Will Now Use Taxonomies Exclusively

- Individual codes will no longer be used as findings or additional findings
- Taxonomies for dialogs will be automatically generated
- Name example:
    - ICD9 250.53
- Description:
    - This taxonomy was automatically generated from Reminder Dialog IEN: 5343

- ***In the past***, users created Reminder Dialogs containing ICD-9-CM and/or CPT-4 codes. When using codes as Finding Items or Additional Finding Items in CPRS, the end user didn't select codes; codes were automatically filed to VistA when the element/group was selected in the Reminder Dialog.
- A Taxonomy could only be used as a Finding Item; it created a pick list of codes for the user to pick from in CPRS. The display in CPRS was controlled by the set-up in the Reminder Finding Parameter File (#801.45) and the Reminder Taxonomy File (#811.2). These controls determined if the Taxonomy should assign codes to the current encounter or an historical encounter. The controls also determined what prompts were assigned to the Reminder Dialog in CPRS.
- ***New approach: Users will no longer be able to add ICD-9-CM and/or CPT-4 codes to a Reminder Dialog. Users will need*** to create a Taxonomy, assign codes, and then add the Taxonomy to the Reminder Dialog. To maintain similar end user functionality in CPRS, a new prompt called Taxonomy Pick List Display has been added to the dialog editor. This controls how Taxonomies should display in CPRS.

- When accessing a reminder dialog that contains an inactive taxonomy or a taxonomy that does not match the dialog structure, the taxonomy will not show in CPRS and a MailMan message will be sent to the Clinical Reminders mail group listing the problems with the dialog and the taxonomy.

- New checking functionality has been added. The checker is run automatically when the taxonomy is saved during an editing session, from the dialog checker report, and when packing up a dialog in Reminder Exchange. It will determine if there is a mismatch between a dialog and the taxonomy that is a finding item.

- Reminder dialogs will now allow taxonomies to be used in a group as a finding item. In a group the Taxonomy Pick List Display field can only be set to None, Procedure Only, or Diagnosis Only.

- The patch init conversion routine has been updated to give more detail when updating the dialog file. The conversion routine will also send pre and post-conversion messages listing the details of the dialogs that are being updated.

- Patch PXRM*2*26 will release updates to national dialogs that contain ICD and CPT codes. This also requires new taxonomies for the dialogs. These items will be installed using Reminder Exchange. The name of the Exchange file entry is File "PXRM PATCH 26 DIALOGS UPDATES".

- When the VA-AAA SCREENING reminder dialog was released in patch PXRM*2*17, it included a new local forced value named ADD TO PROBLEM LIST. Patch PXRM*2*26 changes the forced value to national and renames it to PXRM FV ADD TO PROBLEM LIST.

Changes to Reminder Dialogs in Patch 45

- Branching Logic functionality has been enhanced to support additional actions, and to allow for multiple evaluations. A conversion routine will update the existing branching logic to the new structure
- Reminder Dialog Tester and Checker options have been added to the Reminder Dialog List Manager
- Performance improvements to Reminder Dialog processing
- Reminder Dialog Error Checking in the Editor

Steps to create a dialog

1. First, you create elements, which may include additional prompts, template fields, objects, or orders.

2. Next, organize the elements into groups.

3. Then add the groups or single elements to the dialog.

4. Once a dialog is created, you can link it to a reminder.

It's possible to autogenerate a dialog, which would automatically incorporate all the defining elements, but would not add informational elements, orderable items, or templates. By manually creating your dialog, you can customize your dialog. Most sites prefer to create dialogs manually.

Reminder dialogs and all their related components are stored in the Reminder Dialog File #801.41. This file is used to define all of the components that work together to define a reminder dialog.

This file contains a combination of nationally distributed entries, local auto-generated entries, site, and VISN exchanged entries, and local manually created entries. Nationally distributed entries have their name prefixed with PXRM or "VA-". Entries in this file may be auto-generated via the Dialog Management Menu option. Manually created dialog entries should use local namespacing conventions.

This file is similar to the option file where there are different types of entries (reminder dialog, dialog elements (sentences), prompts, and groups of elements, result elements and groups of result elements).

Where an option has menu items, the dialog file has components that are entered with the sequence field as the .01 field.

Dialog Component Definitions

Dialog Elements

A dialog element is defined primarily to represent sentences to display in the CPRS window with a check box. When the user checks the sentence off, the FINDING ITEM in the dialog element and the ADDITIONAL FINDINGS will be added to the list of PCE updates, orders, vitals, mental health tests, and Women's Health Notifications. The updates won't occur on the CPRS GUI until the user clicks on the FINISH button. Dialog elements may have components added to them. Auto-generated components will be based on the additional prompts defined in the Finding Type Parameters. Once a dialog element is auto-generated, sites can modify them.

Dialog elements may also be instructional text or a header. The FINDING ITEM and components would not be defined in dialog elements.

Dialog Groups

A dialog group is similar to a menu option. It groups dialog elements and dialog groups within its component multiple. The dialog group can be defined with a finding item and check-box. The components in the group can be hidden from the CPRS GUI window until the dialog group is checked off.

Result Elements

The result element is only used with mental health test finding items. A result element contains special logic that uses information entered during the resolution process to create a sentence to add to the progress note. The special logic contains a CONDITION that, when true, will use the ALTERNATE PROGRESS NOTE TEXT field to update the progress note. A separate result element is used for each separate sentence needed. Default result elements are distributed for common mental health tests, prefixed with PXRM and the mental health test name. Sites may copy them and modify their local versions as needed.

Result Groups

A result group contains all of the result elements that need to be checked to create sentences for one mental health test finding and one MH Scale. The dialog element for the test will have its RESULT GROUP field defined with the result group. Default result groups for mental health tests are distributed with the Clinical Reminders package. Sites may copy them and modify their local versions as needed.

Prompts

A prompt is used to have the user enter certain data for the patient. The data that is entered into the prompt will update the progress and the update other files (e.g., PXRM DATE would update the VistA file by creating a new encounter entries for an historical update). Some prompts can be restricted to certain finding items. PXRM WH NOTE TYPE will only work if the finding item or additional finding item is a WH Notification entry.

Forced Value

A forced value is way for forcing a certain type of update. A common use for a forced value is to automatically set a diagnosis as the primary diagnosis.

Reminder Dialog Management Menu

Syn.	Name	Option Name	Description
DP	Dialog Parameters	PXRM DIALOG PARAMETERS	This menu allows maintenance of parameters used in dialog generation: RS - Resolution Statuses FP - Finding Type Parameters FI - Finding Item Parameters HR - Health Factor Resolutions
DI	Reminder Dialogs	PXRM DIALOG/ COMPONENT EDIT	A reminder dialog contains questions (dialog elements) and/or groups of questions (dialog groups) that are related to the reminder findings. Dialog file entries may be created or amended with this option.
DR	Dialog Reports	PXRM DIALOG TOOLS MENU	This sub-menu contains three options that can be used as dialog maintenance tools: Reminder Dialog Elements Orphan Report, Empty Reminder Dialog Report, and Check Reminder Dialog for invalid items

Dialog Parameters

Before you can create dialogs, the entries in the Dialog Parameters must be appropriate for the dialog you are creating. Although the autogeneration process inserts pre-defined elements from entries in the dialog parameters files, these may not all be appropriate for a specific dialog. Therefore, you should review these dialog parameters and edit them, as necessary.

Syn.	Name	Option Name	Description
RS	Reminder Resolution Statuses	PXRM RESOLUTION EDIT/INQ	This option lists the hierarchy of resolution status values used by CPRS.
HR	Health Factor Resolutions	PXRM HEALTH FACTOR RESOLUTIONS	For each health factor, one or more resolution statuses may be selected. When generating a reminder dialog for a reminder with a health factor finding, dialog items will only be generated for the resolution statuses selected.
FP	General Finding Type Parameters	PXRM PARAMETER EDIT	This option lists the finding parameters used by Create Dialog from Reminder Definition.
FI	Finding Item Parameters	PXRM FINDING ITEM	If a reminder finding item will always be resolved by the same sentence (dialog element) or set of sentences (dialog group), an entry should be made in the finding item parameter file linking the reminder finding item to the dialog element or group. When a reminder dialog is generated, it will include the sentences defined in this file instead of generating a dialog using the FINDING TYPE PARAMETERS file.

Reminder Resolution Statuses

Reminder resolution statuses are maintained using this option. A national set of resolution statuses is released with the reminder package. Local resolution statuses may be defined, but must be linked to a national status.

The first screen in this option displays the existing resolution statuses:

```
Selection List                        May 05, 2000 15:15:26     Page:    1 of    1
Reminder Resolution Status

Item Reminder Resolution Status        National/Local
   1  CONTRAINDICATED                   NATIONAL
   2  DONE AT ENCOUNTER                 NATIONAL
   3  DONE ELSEWHERE (HISTORICAL)       NATIONAL
   4  INACTIVATE                        NATIONAL
   5  INFORMATIONAL                     NATIONAL
   6  LOCAL                             LOCAL
   7  ORDERED                           NATIONAL
   8  OTHER                             NATIONAL
   9  OTHER - DUE TO CLINICIAN DECISION LOCAL
  10  OTHER - DUE TO COHORT AGE         LOCAL
  11  PATIENT REFUSED                   NATIONAL
          + Next Screen   - Prev Screen   ?? More Actions
AD   Add                  PT   List/Print All            QU   Quit
Select Item: Quit//
```

AD - Add a new local resolution status

```
Selection List              May 05, 2000 12:11:25          Page:    1 of    1
Reminder Resolution Status

 Item Reminder Resolution Status        National/Local
   1  CONTRAINDICATED                   NATIONAL
   2  DONE AT ENCOUNTER                 NATIONAL
   3  DONE ELSEWHERE (HISTORICAL)       NATIONAL
   4  ORDERED                           NATIONAL
   5  OTHER                             NATIONAL
   6  PATIENT REFUSED                   NATIONAL

          + Next Screen   - Prev Screen   ?? More Actions
AD   Add                  PT   List/Print All       QU   Quit
Select Item: Quit// AD   Add
```

```
Select new RESOLUTION STATUS name: ?
 Answer with REMINDER RESOLUTION STATUS NAME
Choose from:
   CONTRAINDICATED
   DONE AT ENCOUNTER
   DONE ELSEWHERE (HISTORICAL)
   ORDERED
   OTHER
   PATIENT REFUSED

     You may enter a new REMINDER RESOLUTION STATUS, if you wish
     Answer must be 3-40 characters in length.

Select new RESOLUTION STATUS name: OTHER-DUE TO LIFE EXPECTANCY
  Are you adding 'OTHER-DUE TO LIFE EXPECTANCY' as
    a new REMINDER RESOLUTION STATUS (the 7TH)? No// Y  (Yes)
```

```
NAME: OTHER-DUE TO LIFE EXPECTANCY  Replace <Enter>
DESCRIPTION:
  1>Other due to life expectancy
  2><Enter>
EDIT Option: <Enter>
ABBREVIATED NAME: OTHER - LIFE EXPECT
REPORT COLUMN HEADING: OTHER - LIFE EXPECT
INACTIVE FLAG: <Enter>

This resolution status must be linked to a national status

SELECT NATIONAL RESOLUTION STATUS: OTHER
         ...OK? Yes// <Enter>  (Yes)

Selection List                  May 05, 2000 12:15:50          Page:    1 of    1
Reminder Resolution Status
 Item Reminder Resolution Status        National/Local
   1  CONTRAINDICATED                   NATIONAL
   2  DONE AT ENCOUNTER                 NATIONAL
   3  DONE ELSEWHERE (HISTORICAL)       NATIONAL
   4  ORDERED                           NATIONAL
   5  OTHER                             NATIONAL
   6  OTHER-DUE TO LIFE EXPECTANCY      LOCAL
   7  PATIENT REFUSED                   NATIONAL


          + Next Screen   - Prev Screen   ?? More Actions
AD   Add                  PT   List/Print All       QU   Quit
Select Item: Quit// <Enter>
```

ED - Edit resolution status

When you select a specific resolution status (for example, #6 in the list above), details of that status are displayed. You can then perform any of the actions listed below on that status. National statuses may not be added or deleted. Column headings are used in Reminder Activity Reports. Local statuses must be mapped to a national status.

```
Edit List           May 05, 2000 12:18:05                    Page:    1 of    1
Reminder Resolution Status Name:  OTHER - DUE TO LIFE EXPECTANCY
_____________________________________________________________________________
Resolution Status: OTHER - DUE TO LIFE EXPECTANCY

Resolution Status Description
     Other due to life expectancy.

   Related National Status:  OTHER
          Abbreviated name:  OTHER - LIFE EXPECT
    Report Column Headings:  OTHER - LIFE EXPECT
             Inactive Flag:
          + Next Screen   - Prev Screen   ?? More Actions
ED   Edit                 INQ  Inquiry/Print        QU   Quit
Select Action: Quit// ED
```

```
Edit List                  May 05, 2000 12:18:05            Page:    1 of    1
REMINDER RESOLUTION STATUS NAME: OTHER-DUE TO LIFE EXPECTANCY

Resolution Status: OTHER-DUE TO LIFE EXPECTANCY

Resolution Status Description
     Other due to life expectancy
```

```
   Related National Status:  OTHER
          Abbreviated name:  OTHER - LIFE EXPECT
    Report Column Headings:  OTHER - LIFE EXPECT
             Inactive Flag:
          + Next Screen   - Prev Screen   ?? More Actions
ED   Edit                 INQ  Inquiry/Print        QU   Quit
Select Action: Quit// ED   Edit
NAME: OTHER-DUE TO LIFE EXPECTANCY  Replace <Enter>
DESCRIPTION:
  1>Other due to life expectancy
EDIT Option: <Enter>
ABBREVIATED NAME: OTHER - LIFE EXPECT// <Enter>
REPORT COLUMN HEADING: OTHER - LIFE EXPECT// OTHER - LIFE EXPECT with OTHER -
LIFE EXP. <Enter>
INACTIVE FLAG: <Enter>
```

```
Edit List                  May 05, 2000 12:20:02            Page:    1 of    1
REMINDER RESOLUTION STATUS NAME: OTHER-DUE TO LIFE EXPECTANCY


Resolution Status: OTHER-DUE TO LIFE EXPECTANCY

Resolution Status Description
     Other due to life expectancy


   Related National Status:  OTHER
          Abbreviated name:  OTHER - LIFE EXPECT
    Report Column Headings:  OTHER - LIFE EXP.
             Inactive Flag:





          + Next Screen   - Prev Screen   ?? More Actions
ED   Edit                 INQ  Inquiry/Print        QU   Quit
Select Action: Quit// ED   Edit
NAME: OTHER-DUE TO LIFE EXPECTANCY  Replace @
  SURE YOU WANT TO DELETE THE ENTIRE 'OTHER-DUE TO LIFE EXPECTANCY' REMINDER R  Y
(Yes)
```

Health Factor Resolutions

This option this is used when creating a reminder dialog from a reminder definition.
For reporting purposes, all health factors included in CPRS reminder dialogs must be mapped to a resolution status. This option is used to maintain these mappings. If a health factor is not mapped to a resolution status, it will be ignored by dialog generation (except where an entry exists in the FINDING ITEM PARAMETER file #801.43).

The first screen in this option displays the current mappings:

```
Selection List                May 05, 2000 15:39:50       Page:    1 of    1
Health Factor Resolutions

Item Health Factors                      Resolution Status
   1  ALCOHOL USE                         OTHER
   2  BINGE DRINKING                      OTHER
   3  CURRENT SMOKER                      PATIENT REFUSED
   4  DRINKING ALONE                      OTHER
   5  FAMILY HX OF ALCOHOL ABUSE          OTHER
   6  NUTRITION                           OTHER
   7  PAIN MGMT                           OTHER
   8  TOBACCO                             DONE AT ENCOUNTER/DONE ELSEWHERE




          + Next Screen   - Prev Screen   ?? More Actions
AD   Add                  PT   List/Print All            QU   Quit
Select Item: Quit//
```

When you select a health factor resolution by number, an edit screen appears that displays the related resolution statuses and lets you edit or delete them. A health factor may be associated with more than one resolution status.

```
Edit List                     May 05, 2000 15:50:41       Page:    1 of    1
Health Factor Resolution Name:  PAIN MGMT HF(660003)

Resolution Statuses
 OTHER









          + Next Screen   - Prev Screen   ?? More Actions
ED   Edit                 INQ  Inquiry/Print        QU   Quit
Select Action: Quit//
```

Allocating Resolution Statuses for all Health Factors on a reminder

The option HR Health Factor Resolutions allows selection of reminders:

```
Selection List                  May 05, 2000 10:14:51          Page:    1 of    2
Health Factor Resolutions
Item Health Factors                        Resolution Status
   1  ACTIVATE TOBACCO USE SCREEN          OTHER
   2  ALCOHOL USE                          OTHER
   3  BINGE DRINKING                       OTHER
   4  CURRENT NON-SMOKER                   OTHER
   5  CURRENT SMOKER                       OTHER
   6  CURRENTLY PREGNANT                   OTHER
   7  DRINKING ALONE                       OTHER
   8  FAMILY HX OF ALCOHOL ABUSE           OTHER
   9  INACTIVATE BREAST CANCER SCREEN      OTHER
  10  INACTIVATE EXERCISE SCREEN           OTHER
  11  INACTIVATE FOBT CANCER SCREEN        OTHER
  12  INACTIVATE PNEUMOCOCCAL VACCINE      OTHER
  13  LIFETIME NON-SMOKER                  OTHER
  14  LIFETIME NON-TOBACCO USER            OTHER
  15  NO RISK FACTORS FOR HEP C            DONE AT ENCOUNTER
  16  NUTRITION                            OTHER
          + Next Screen   - Prev Screen   ?? More Actions
AD   Add                   PT   List/Print All       QU   Quit
Select Item: Next Screen// AD   Add
```

```
     Select one of the following:

          I         Individual Health Factor
          A         All Health Factors for a Selected Reminder

SELECTION OPTION: I// All Health Factors for a Selected Reminder

SELECT REMINDER: TOBACCO USE SCREEN

HEALTH FACTORS: <Enter>

ACTIVATE TOBACCO USE SCREEN (Resolution defined)
INACTIVATE TOBACCO USE SCREEN

MODIFY resolution status for ACTIVATE TOBACCO USE SCREEN: N//<Enter> O
ADD resolution status for INACTIVATE TOBACCO USE SCREEN: N// YES
NAME: INACTIVATE TOBACCO USE SCREEN// <Enter>
Select RESOLUTION STATUS: OTHER
         ...OK? Yes// <Enter>  (Yes)

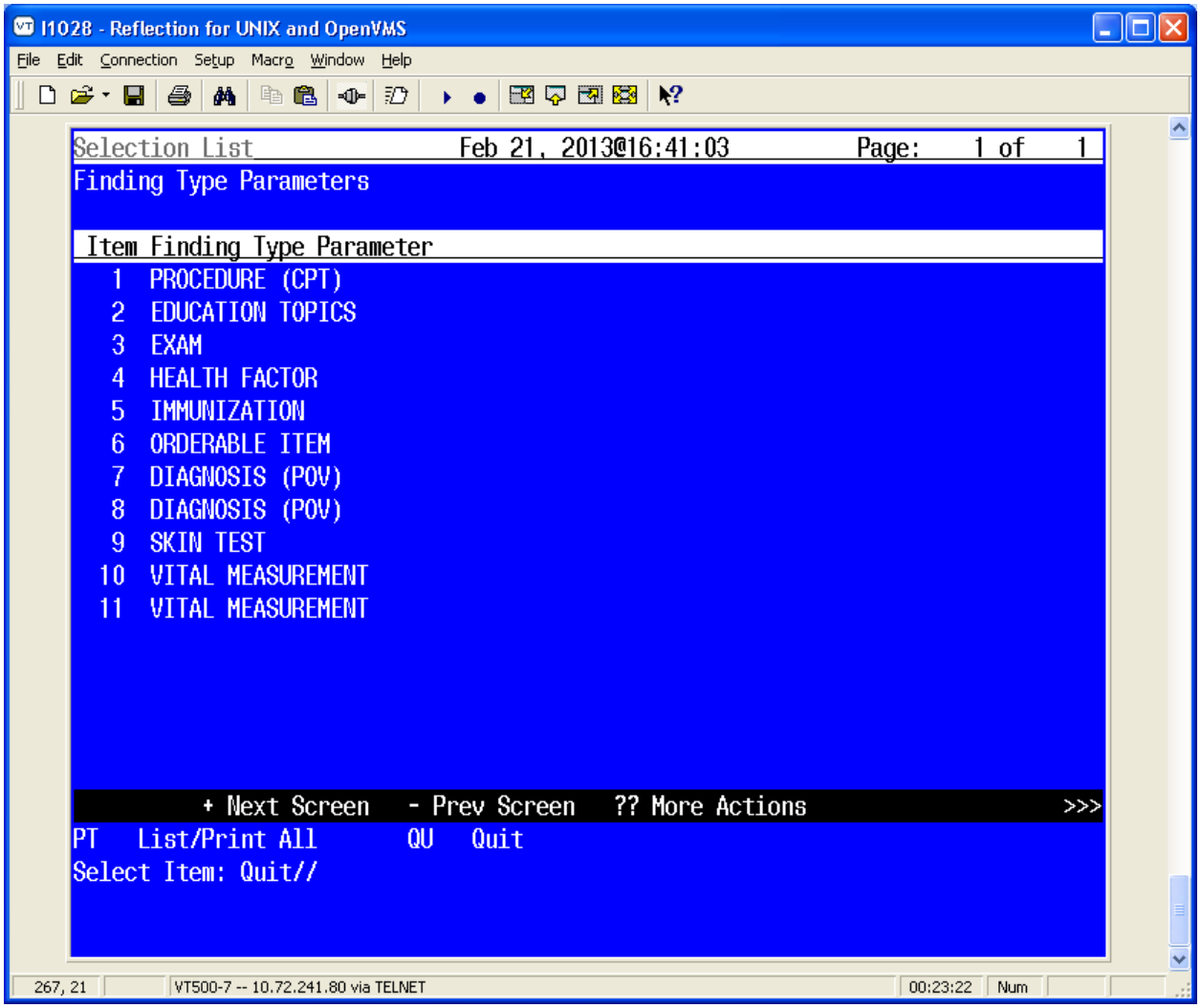
Select RESOLUTION STATUS: <Enter>
```

General Finding Type Parameters (FP)

This option allows display of the REMINDER FINDING TYPE PARAMETER file #801.45 used in generating reminder dialogs. There is limited edit on this file to allow customization of prefix and suffix text. Parameters may also be disabled if not required at your site.
The file is structured by finding type and within that resolution status. A generated reminder dialog will include a sentence (dialog element) for each resolution type enabled in the finding type parameter file.

The sentence text is constructed as: prefix_finding item name_suffix. Health factors are treated slightly differently. Health factors are linked to resolution statuses by the Health Factor Resolutions option. For reminders with health factors, sentences are only generated if there is a resolution mapping AND an enabled finding type parameter.

The first screen in this option displays the finding types held in this file:




```
Selection List                May 05, 2000 16:06:40          Page:    1 of    1
Finding Type Parameters

 Item Finding Type Parameter
   1  PROCEDURE (CPT)
```

```
   2  EDUCATION TOPICS
   3  EXAM
   4  HEALTH FACTOR
   5  IMMUNIZATION
   6  ORDERABLE ITEM
   7  DIAGNOSIS (POV)
   8  SKIN TEST
   9  VITAL MEASUREMENT
          + Next Screen   - Prev Screen   ?? More Actions
PT   List/Print All             QU   Quit
Select Item: Quit//
```

When you select an item from this screen, all of the finding type parameters for the finding type selected are displayed. The reminder dialog generation process uses this file to create dialog as follows:

For each finding item on the reminder, the REMINDER FINDING TYPE PARAMETER file is checked to see if there are any "enabled" resolution statuses for the finding type. If an enabled resolution status exists, then a dialog element (sentence) is added to the reminder dialog with sentence text generated from the finding name concatenated with prefix and suffix text
Example: Patient had ALCOHOL USE education at this encounter

Clicking on the checkbox displayed with this sentence in CPRS causes the finding item (from the original reminder definition) to be posted to this patient's record.
Additional prompts are also added to the dialog element as specified in the finding type parameter file.

Note: Dialog elements created by reminder dialog generation are given a standard name based on the finding type, finding name, and resolution status (from the REMINDER FINDING TYPE PARAMETER file)

Example: ED ALCOHOL USE DONE ELSEWHERE

The dialog elements created are shared by reminder dialogs for reminders with the same finding item.

The example below is the finding type parameter for education findings:

```
Finding Type Parameter List        May 05, 2000 16:11:10     Page:    1 of    1
Finding Type Parameter Name: ED - EDUCATION TOPIC

  Resolution Status          Prefix//Suffix & Prompts/Values/Actions   Status
1 DONE AT ENCOUNTER           Patient had/                             Enabled
                              /at this encounter
                              1] PXRM COMMENT
                              2] PXRM LOU (EDUCATION)

2 DONE ELSEWHERE (HISTORICAL) Patient indicated/                      Disabled
                              /was received outside the VA
                              1] PXRM COMMENT
                              2] PXRM VISIT DATE
                              3] PXRM OUTSIDE LOCATION

3 PATIENT REFUSED             Patient declined/                       Disabled
                              /at this encounter
                              1] PXRM REFUSED (forced value)
                              2] PXRM COMMENT
          + Next Screen   - Prev Screen   ?? More Actions
INQ  Inquiry/Print        QU   Quit
Select number of Resolution Status to Edit: Quit//
```

If a number is entered to select a resolution status, the following fields can be edited:

```
ED - EDIT FINDING TYPE PARAMETER

Finding Type Parameter Name: ED - EDUCATION TOPIC
RESOLUTION STATUS : DONE AT ENCOUNTER
DISABLE RESOLUTION STATUS: DISABLED// <Enter>
PREFIX TEXT: Patient had// <Enter>
SUFFIX TEXT: at this encounter// <Enter>
Select ADDITIONAL PROMPTS: PXRM LOU (EDUCATION)// <Enter>
  DISABLE ADDITIONAL PROMPT: <Enter>
  OVERRIDE PROMPT CAPTION: <Enter>
  START NEW LINE: <Enter>
  EXCLUDE FROM PN TEXT: <Enter>
  REQUIRED: <Enter>
```

Finding Item Parameters (FI)

This file allows reminder finding items to be linked to a specific dialog element (i.e. sentence and prompts) or a group of dialog elements. The reminder dialog generated for a reminder with a finding item entry in this file will include the dialog element or dialog group specified in this file instead of creating a dialog using the REMINDER FINDING TYPE PARAMETER file.

The first screen in this option displays the finding items held in this file:

```
 Selection List                May 05, 2000 10:35:36          Page:    1 of    1
Finding Item Parameters

 Item Finding Item Type & Name           Dialog Group/Element            Status
   1  HF-ED SUBSTANCE ABUSE (OVERRIDE)  ED SUBSTANCE ABUSE REFUSED      Enabled
   2  HF-ALCOHOL                        ALCOHOL DIALOG GROUP            Disabled



          + Next Screen   - Prev Screen   ?? More Actions
AD   Add                  PT   List/Print All             QU   Quit
Select Item: Quit//
```

When you select a specific finding item parameter, details of the selected finding item parameter are displayed. You can then edit:

```
Edit List                     May 05, 2000 10:48:25       Page:    1 of    1
Finding Item Parameter Name:  ALCOHOL  (ENABLED)

 Finding Type: HF(6)          Finding Item: ALCOHOL

Dialog Group: ALCOHOL DIALOG GROUP  (ENABLED)

 1) Dialog Element: HF BINGE DRINKING OTHER  (ENABLED)
    Dialog Text: Binge drinking
    Additional Prompts: PXRM COMMENT

 2) Dialog Element: HF DRINKING ALONE OTHER  (ENABLED)
    Dialog Text: Drinking alone
    Additional Prompts: PXRM COMMENT

          + Next Screen   - Prev Screen   ?? More Actions
ED   Edit                 INQ  Inquiry/Print        QU   Quit
Select Action: Quit//
```

In the example above, the dialog elements have been previously generated automatically as part of another reminder dialog. A dialog group (ALCOHOL DIALOG GROUP) has then been created in Dialog Edit using these existing dialog elements. Finally an entry has been created in the finding item parameter to link HF(6) to the dialog group.

Reminder Dialogs

Use this option to create and edit Dialog file entries. When you first select the option, all of the available reminders at your facility are listed, with linked dialogs, if they exist, and dialog statuses. You can select a reminder by name or number and then autogenerate a dialog for the reminder or link the reminder to an existing dialog. Alternatively, you can select the action CV Change View, which will allow you to select from any of the following:

Dialog types

- D - Reminder Dialogs
- E - Dialog Elements
- F - Forced Values
- G - Dialog Groups
- P - Additional Prompts
- R - Reminders
- RG - Result Group (Mental Health)
- RE - Result Element (Mental Health)

Reminder dialogs are linked to reminders by a field (REMINDER DIALOG) on the reminder definition. The reminder dialog may be executed by CPRS if the reminder is due or applicable.

A reminder dialog contains questions (dialog elements) and/or groups of questions (dialog groups) that are related to the reminder findings.

Dialog groups can contain one or more questions (dialog elements).
Each question (dialog element) may have a number of additional prompts (e.g. date, location) or forced values.

New reminder dialogs can be created using the action, AD - Add Dialog, in the Dialog view.
The reminder dialog may be created manually or autogenerated from the reminder definition using the General Finding Type Parameters.

Dialog Edit screen

When you select an existing reminder dialog, the following actions are available:

Abbrev	Action Name	Description
#	Select Item	To copy, edit or delete a component in this dialog.
ADD	Add Element/Group	Allows a dialog element or dialog group to be added to the reminder dialog.
CO	Copy Dialog	Copies this reminder dialog to a new name.
DD	Detailed Display	Displays dialog element names and resolution detail for this reminder dialog.
DP	Progress Note Text	Displays text that will be entered in the progress note.
DS	Dialog Summary (default)	Displays dialog element names.
DO	Dialog Overview	Displays the top-level dialog groups/elements. This option will not display any nested dialog elements or group
DT	Dialog Text	Displays the dialog text as it should appear in CPRS.
ED	Edit/Delete Dialog	Edit or delete this reminder dialog. Allows addition and deletion of existing dialog elements from this reminder

		dialog. Allows the sequence numbers to be changed. Also enable/disable dialog.
INQ	Inquiry/Print (for Reminder Dialogs only)	Print details of this reminder dialog.

Dialog Edit Options

The edit options allow changes to the selected reminder dialog. When making changes to dialog elements and prompts, it should be remembered that dialog elements and prompts might be used in more than one reminder dialog. Changing one reminder dialog may affect others. When editing any of the sub items, a list is presented that displays any other dialogs, groups, or elements that are using the item that is being edited. Additional prompts, forced values, dialog elements, and dialog groups may be edited or printed.

```
Dialog Edit List              Dec 15, 2004@14:04:59                Page:    1 of    4
REMINDER DIALOG NAME: VA-DEPRESSION ASSESSMENT [NATIONAL] *LIMITED EDIT*
 Item  Seq.    Dialog Summary
  1    5   Element: VA-TEXT DEPRESSION EVAL INSTRUCTIONS

  2    7   Element: VA-TEXT BLANK LINE WITH TEMPLATE FIELD

  3    10  Group: VA-GP DEP MDD CRITERIA DISPLAY

  4    10.5   Element: VA-TEXT MDD DSM-IV CRITERIA DISPLAY

  5    12  Group: VA-GP PHQ 9

  6    12.5   Element: VA-TEXT PHQ 9

  7    15  Element: VAA-TEXT BLANK LINE

  8    20  Group: VA-GP DEP ASSESSMENT RESULTS
          + Next Screen   - Prev Screen   ?? More Actions
ADD  Add Element/Group    DS   Dialog Summary       CHCK Dialog Checker
CO   Copy Dialog          DO   Dialog Overview      ED   Edit/Delete Dialog
DD   Detailed Display     DT   Dialog Text
DP   Progress Note Text   TEST Dialog Test          QU   Quit
Select Item: Next Screen//
```

Dialog Overview

The action Dialog Overview (DO) allows you to see just the top level of the dialog elements, without the nested items, if the dialog has groups containing elements.

```
Dialog Edit List              Dec 15, 2004@14:04:59                Page:    1 of    4
REMINDER DIALOG NAME: VA-DEPRESSION ASSESSMENT [NATIONAL] *LIMITED EDIT*
 Item  Seq.    Dialog Overview
  1     5   Element: VA-TEXT DEPRESSION EVAL INSTRUCTIONS

  2     7   Element: VA-TEXT BLANK LINE WITH TEMPLATE FIELD

  3     10  Group: VA-GP DEP MDD CRITERIA DISPLAY

  4     12  Group: VA-GP PHQ 9

  5     15  Element: VAA-TEXT BLANK LINE

  6     20  Group: VA-GP DEP ASSESSMENT RESULTS

  7     24  Element: VAA-TEXT BLANK LINE

  8     30  Element: VA-HF PT FOLLOWED FOR DEPRESSION

          + Next Screen   - Prev Screen   ?? More Actions

ADD  Add Element/Group    DS   Dialog Summary        CHCK Dialog Checker
CO   Copy Dialog          DO   Dialog Overview       ED   Edit/Delete Dialog
DD   Detailed Display     DT   Dialog Text           INQ  Inquiry/Print
DP   Progress Note Text   TEST Dialog Test           QU QUIT
Select Item: Next Screen//
```

Result Dialogs

Result dialogs contain progress note text that is added to a progress note, based on the results of dialog processing. NOTE: Only Mental Health Instrument results can be used.

Some reminder definitions have Finding Items for MH Instruments. When dialog entries are generated for these reminders, a dialog element will be created for each MH Instrument finding. If a site doesn't want to see mental health instrument questions and answers added into the progress note, they can control whether to include the questions and answers by answering Yes to the EXCLUDE MH TEST FROM PN TEXT field in the dialog element. If a site wants the mental health instrument questions and answers added to the progress note text, the reminder manager must answer No at the EXCLUDE MH TEST FROM THE PN TEXT field.

```
        EXCLUDE MH TEST FROM PN TEXT 0;14 SET
                             '1' FOR YES;
                             '0' FOR NO;
           HELP-PROMPT:    Enter Y to stop test questions and answers from being
                           added to the note text.
           DESCRIPTION:    This flag is used to control whether or not
                           mental health test questions and answers will be excluded
                           from the progress note text when the test is taken.
```

When the user enters answers to a mental health instrument, the answers are automatically passed to the Mental Health package to calculate a result, which may be referenced as SCORE. For example, CAGE test has a SCORE from 1-4 and GAF has a SCORE from 1-99.

For most Mental Health tests, progress note text can be automatically generated that summarizes or includes the results (SCORE). Default text is distributed in the REMINDER DIALOG file #801.41 for sites to use for each Mental Health instrument processed in the reminder resolution process. This text may be copied and modified to reflect the site's preferences for text. The default text is defined in Mental Health Result Dialog Elements. The reminder manager must add the Result Dialog Group to the MH Instruments Dialog Element RESULT GROUP SEQUENCE field. This result dialog may define further processing to conditionally generate progress note text based on the SCORE.

The Result Dialog Elements provide a number of fields for flexible use of progress note text.

```
RESULT CONDITION:   Enter M code which, when evaluated to 1, would generate the
progress note text and create finding entries defined in the RESULT DIALOG ELEMENT.
Currently, The logic can only use the value stored in an M local variable called
SCORE.

PROGRESS NOTE TEXT:  Enter the word processing text to add to the progress note.  Use
a blank space in the first character of a line when you want the line to be printed as
it appears in the text.  The "|" (vertical bar) may be used around the M variable
SCORE to include the score within the text (MH Tests only).  Response values may be
included in the text for the AIMS test only, and limited to the variables specified in
the default AIMS text.
```

Example of one of the CAGE Result Dialog Elements distributed with the package:

```
NAME: CAGE RESULT ELEMENT 1  Replace <Enter>
RESULT CONDITION: I SCORE<2// <Enter>
PROGRESS NOTE TEXT: <Enter>
An alcohol screening test (CAGE) was negative (score=|SCORE|).
```

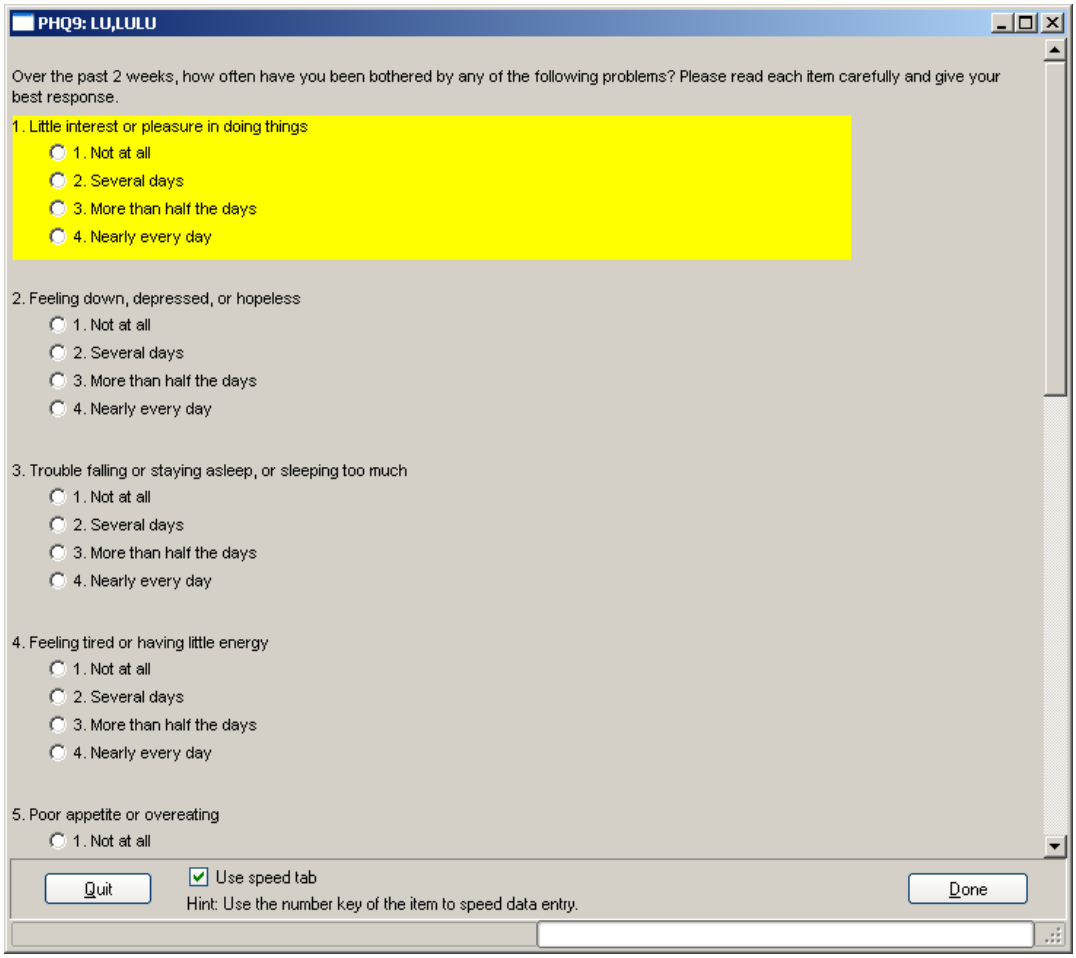
Mental Health Result Dialogs

Dialogs for mental health tests can be set up in Clinical Reminders. A reminder definition can include any mental health instrument.

Changes to be made by CPRS 29
CPRS will use the MH dlls exclusively to evaluate reminders and not rely on the older mental health reminder dialogs when the MH dlls are not installed on the client machine. This change will be part of CPRS v29.

This change will affect the warning message presented to the user along with one parameter and one RPC. The parameter and RPC will no longer be used and therefore will be removed from the system upon install of v29. The parameter is OR USE MH DLL. The RPC is ORQQPXRM MHDLLDMS.

With CPRS 27 and MH DLL:



IMPORTANT NOTE:
Mental Health patches YS*5.01*103 and YS*5.01*105 included a number of new instruments. Of these new instruments, the following utilize complex scoring algorithms.

24 MHA tests with complex scoring or reporting with the release of patches: YS*5.01*103 and YS*5.01*105			
AUDC	BAI	BAM	BAM-C
BAM-R	BASIS-24	BDI2	BHS
BSI	CDR	FAST	ISMI
MINICOG	MMPI-2-RF	NEO-PI-3	PC PTSD
PHQ-2	POQ	QOLI	SBR
STMS	VR-12	WHODAS 2	WHYMPI

Eighteen of these do not score accurately in Clinical Reminders and Health Summary.

18 MHA tests not scoring accurately in Clinical Reminders and Health Summary packages
(BAI) Beck Anxiety Inventory
(BAM-C) Brief Addiction Monitor Consumption
(BAM-R) Brief Addiction Monitor Revised
(BASIS-24) Behavior And Symptom Identification Scale-24
(BHS) Beck Hopelessness Scale
(BSI) Beck Scale for Suicide Ideation
(CDR) Clinical Dementia Rating
(FAST) Functional Assessment Stage Test
(ISMI) Internalized Stigma of Mental Illness
MINICOG
(MMPI-2-RF) Minnesota Multiphasic Personality Inventory – Restructured Form
(NEO-PI-3) NEO-Personality Inventory
(POQ) Pain Outcomes Questionnaire
(QOLI) Quality of Life Index
(STMS) Short Test of Mental Status
(VR-12) Veterans Rand 12 Item Mental Health Survey
(WHODAS 2) World Health Organization Disability Assessment Schedule
(WHYMPI) West Haven-Yale Multidimensional Pain Inventory

PROBLEMS WITH REMINDER DIALOGS

If you administer any of these 18 instruments within a Reminder Dialog template, the score that is displayed in the Progress Note will be incorrect. However, the correct score is displayed when reviewing the results in MHA3.

PROBLEMS WITH MH SCORE HEALTH SUMMARY COMPONENT

The scores of these instruments will not display correctly using the MH SCORE Health Summary component, regardless of the tool used to administer the instrument (Reminder Dialog template OR

MHA3 GUI). If you review the scores under the Reports Tab, via an ADHOC Health Summary using the MH SCORE item, the scores displayed are incorrect. Any Health Summary Patient Data objects that have been created, using the MH SCORE health summary element with these instruments will display incorrect scores as well in note templates using the Patient Data object.

PROBLEMS WITH REMINDER DEFINITIONS

Any reminder definitions for Coversheet reminders or reports using the above instruments as finding items would display incorrect scores in the Clinical Maintenance output. Any Conditions using the scores of these instruments would evaluate incorrectly.

It is strongly suggested that sites NOT use the above instruments within a Reminder Dialog template for administration and NOT use them in any Health Summary. They should NOT be used in a Reminder Definition for any purpose other than verifying that the instrument was administered. In other words, there should be no use of the score.

Reminder Dialog Branching Logic
This functionality allows the Clinical Reminder Manager to setup Reminder Dialogs to change the layout in CPRS based on patient data that is stored in VistA. With PXRM*2.0*45, the Clinical Reminder Manager can setup multiple branching logic statements with a sequence number. The branching logic statements are evaluated in order by sequence number and the first true branching logic statement action will be applied to the Reminder Dialog layout in CPRS. With the new Branching Logic Functionality, if the statement is replacing the existing element/groups and if the new element/group contains branching logic, those branching logic statements will now be evaluated, before PXRM*2.0*45, this did not happen.

Examples of Branching Logic statements:

```
Replaced by VA-WH SMART BR MALE PROCEDURE DOCUMENT if Reminder Term VA-PATIENT IS MALE
evaluates as True

Replaced by VA-WH GP BR REVIEW ALERT OVERALL if Reminder  Definition VA-WH BL BR ALERT
WITH NO OPEN PROCEDURE evaluates as Due

Hide if Reminder Term VA-WH BL BREAST CASCADE EXIST evaluates as False
```

Branching Logic Sequence: This field accepts a number and is used to determine the order to evaluate the patient data. The first patient data that evaluates true for the Branching Logic statement will take effect in CPRS. This Sequence is very important when adding multiple Branching Logic statements to a Reminder Dialog Element/Group.

Evaluation Item: This is either a Reminder Term or a Reminder Definition to use in the Branching Logic Statement to evaluate the patient data on the system.

Evaluation Status: This field is used in the Branching Logic statement to determine if the statement is true based on the results of the Reminder Term/Definition defined in the Evaluation Item Field. The possible values are different depending on the type of item selected in the Evaluation Item field.

Evaluation Item is a Reminder Term
- True
- False

Evaluation Item is a Reminder Definition
- Due
- Applicable
- N/A

Action: Is the type of action that should happen in CPRS if the Branching Logic statement is true.
Reminder Dialog Element/Groups support the following actions:
- Hide
- Replace
- Check Checkbox
- Suppress Checkbox and Show

The following Actions are only selectable when the item containing the branching logic is a group. These actions will change the Multiple Selection value of the group if the Branching Logic statement is true.
- No Selection Required
- One Selection Only
- One or More Selections

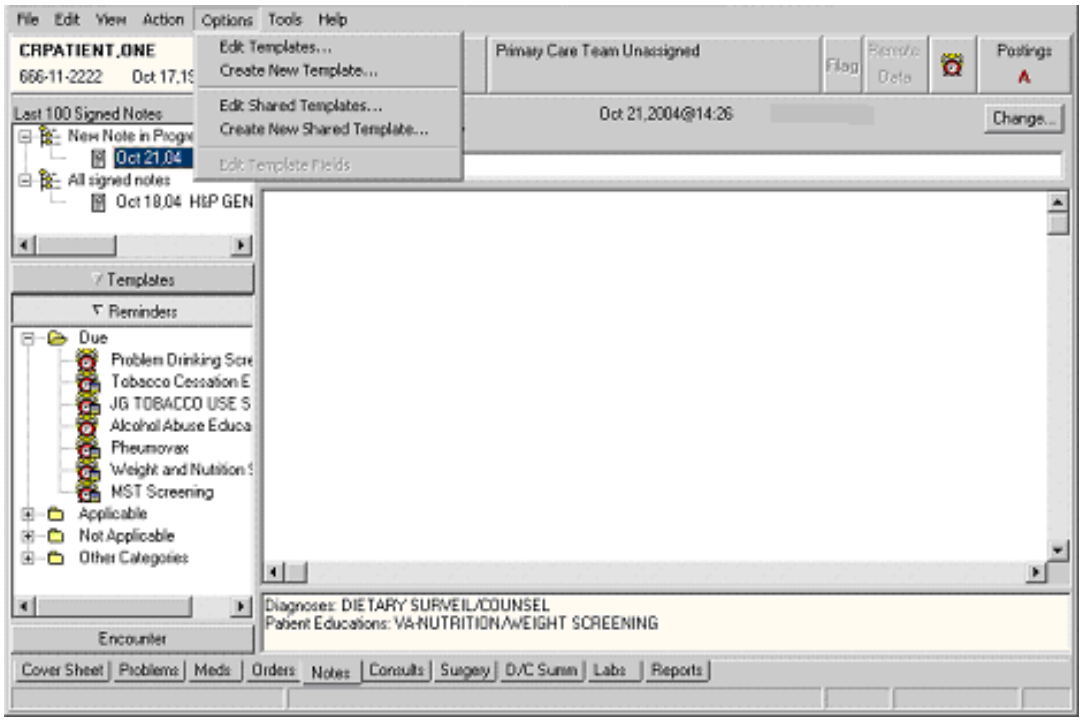
- None or One Selection
- All Selections are Required

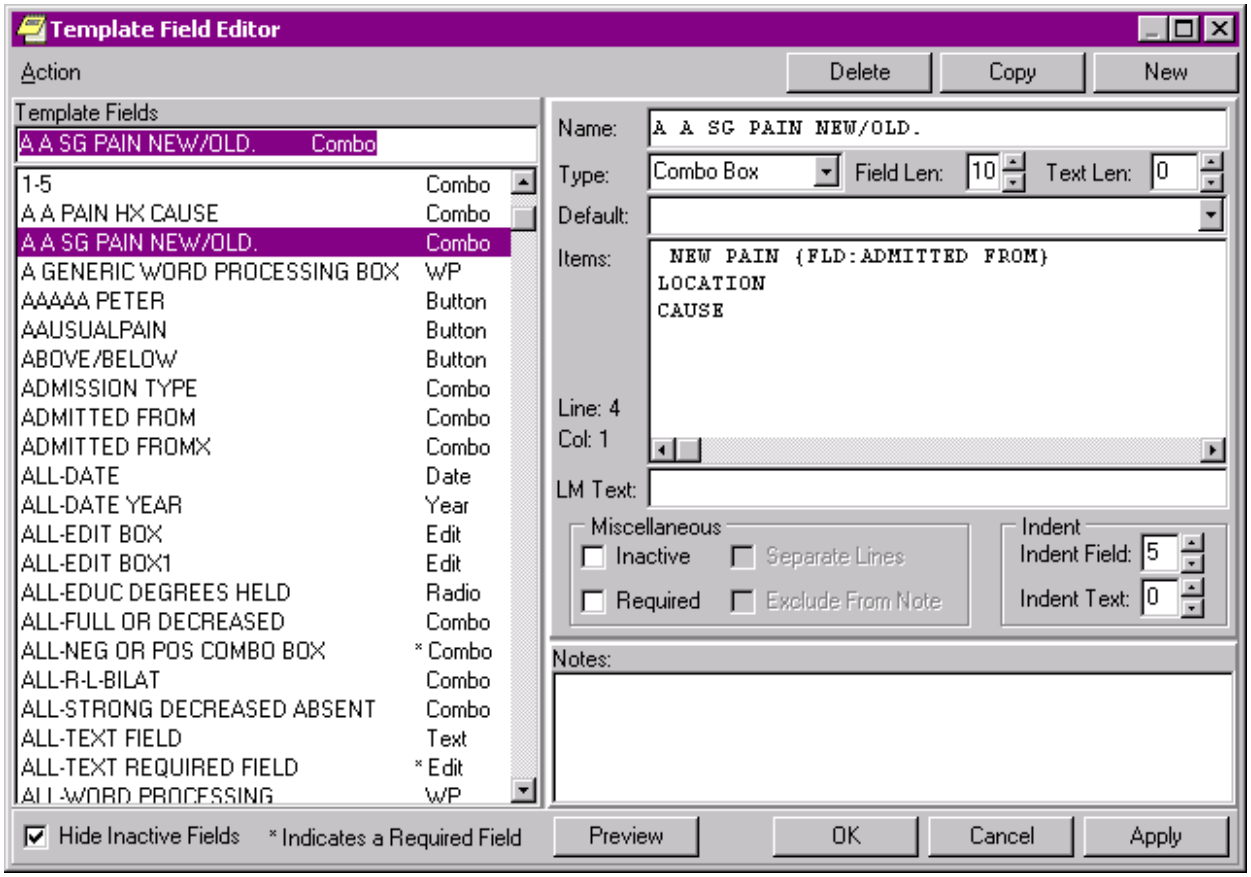
NOTE: When using a Reminder Definition as an Evaluation Item, the Evaluation Status of DUE is a subset of the Applicable status. If performing multiple Branching Logic statements against a Reminder, the evaluation is looking for both a Due Status or Applicable. Make sure the DUE status branching statement Branching Logic Sequence value is before the Applicable status Branching Logic Sequence value.

Editing Template Fields used in Reminder Dialogs

How to set the TIU parameter that allows a user access to the Options/Edit Template Fields from the CPRS GUI Notes tab:

The Edit Template Fields option can be used to create sets of checkboxes, radio buttons, etc., which can be used in reminder dialogs.





In order to use the Edit Template Fields option to edit template fields used in Reminder Dialogs, the following are required:

1. New option: TIU Template Reminder Dialog Parameter, on the CPRS Parameter menu on the Reminder Manager Menu
2. TIU parameter TIU FIELD EDITOR CLASSES
3. User Class of Clinical Coordinator

TIU parameter TIU FIELD EDITOR CLASSES

```
Select OPTION NAME: xpar edit
     1   XPAR EDIT BY TEMPLATE       Edit Parameter Values with Template   action
     2   XPAR EDIT KEYWORD       Edit Parameter Definition Keyword     edit
     3   XPAR EDIT PARAMETER       Edit Parameter Values     action
CHOOSE 1-3: 3  XPAR EDIT PARAMETER     Edit Parameter Values     action
Edit Parameter Values
                        --- Edit Parameter Values ---

Select PARAMETER DEFINITION NAME: tiu field EDITOR CLASSES     Template Field Ed
itor User Classes

TIU FIELD EDITOR CLASSES may be set for the following:

     1   User          USR    [choose from NEW PERSON]
     3   Service       SRV    [choose from SERVICE/SECTION]
```

```
     4   Division      DIV    [choose from INSTITUTION]
     5   System        SYS    [DVF.FO-SLC.MED.VA.GOV]
     6   Package       PKG    [TEXT INTEGRATION UTILITIES]

Enter selection: u  User   NEW PERSON
Select NEW PERSON NAME: CRUSER  CRUSER,ONE   OC  SYSTEMS ANALYST/PROGRAMMER

---------- Setting TIU FIELD EDITOR CLASSES  for User: CRUSER,ONE ---------
Select Sequence Number: 1
Are you adding 1 as a new Sequence Number? Yes// y  YES

Sequence Number: 1//    1
User Class: Clin
     1   Clinical And Laboratory Immuno  CLINICAL AND LABORATORY IMMUNOLOGIST
     2   Clinical Biochemical Geneticis  CLINICAL BIOCHEMICAL GENETICIST
     3   Clinical Biochemical Molecular  CLINICAL BIOCHEMICAL MOLECULAR
GENETICIST
     4   Clinical Clerk  CLINICAL CLERK
     5   Clinical Coordinator  CLINICAL COORDINATOR
Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5: 5  CLINICAL COORDINATOR
Select Sequence Number: ?

     Sequence Number                      Value
     ---------------                      -----
     1                                    CLINICAL COORDINATOR

Select Sequence Number:
```

User Class of Clinical Coordinator

```
Select OPTION NAME: TIU Maintenance Menu TIU IRM MAINTENANCE MENU
TIU Maintenance Menu

   1      TIU Parameters Menu ...
   2      Document Definitions (Manager) ...
   3      User Class Management ...
   4      TIU Template Mgmt Functions ...
   5      TIU Alert Tools

Select TIU Maintenance Menu Option: 3  User Class Management

                      --- User Class Management Menu ---


   1      User Class Definition
   2      List Membership by User
   3      List Membership by Class
   5      Manage Business Rules

Select User Class Management Option: 2  List Membership by User
Select USER: CRPROVIDER,ONE     CHIEF, MEDICAL SERVICE

Current User Classes          Jan 23, 2003@14:55:15                Page:    1 of    1
                                CRPROVIDER,ONE                      2 Classes
     User Class                                          Effective  Expires
1    Clinical Coordinator                                04/28/00
2    Physician                                           11/16/98   04/11/15

          + Next Screen   - Prev Screen   ?? More Actions
     Add                      Remove                    Quit
     Edit                     Change View
```

Add a New Class to an Existing User

```
Current User Classes          Jan 23, 2003@14:55:15        Page:    1 of    1
                                  CRPROVIDER,ONE                      2 Classes
     User Class                                            Effective  Expires
1    CRPROVIDER's Consult Class
2    Business Rule Manager                                    09/22/00
3    Medical Administration Special                           09/11/01
4    Social Worker Supervisor

          + Next Screen  - Prev Screen  ?? More Actions                _______
     Add                       Remove                     Quit
     Edit                      Change View
Select Action: Quit// add   Add

Select USER CLASS: Clin
     1   Clinical And Laboratory Immuno  CLINICAL AND LABORATORY IMMUNOLOGIST
     2   Clinical Biochemical Geneticis  CLINICAL BIOCHEMICAL GENETICIST
     3   Clinical Biochemical Molecular  CLINICAL BIOCHEMICAL MOLECULAR
GENETICIST
     4   Clinical Clerk  CLINICAL CLERK
     5   Clinical Coordinator  CLINICAL COORDINATOR
Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5: 5  CLINICAL COORDINATOR
EFFECTIVE DATE: t  (JAN 23, 2003)
EXPIRATION DATE: t+1  (JAN 24, 2003)

Select Another USER CLASS:
Rebuilding membership list.

Current User Classes          Jan 23, 2003@14:55:15        Page:    1 of    1
                                  CRUSER,TWO                          2 Classes
     User Class                                            Effective  Expires
1    A Consult Class
2    Business Rule Manager                                 09/22/00
3    Clinical Coordinator                                  01/23/03   01/28/03
4    Medical Administration Special                        09/11/01
5    Social Worker Supervisor
          + Next Screen   - Prev Screen   ?? More Actions
     Add                       Remove                     Quit
     Edit                      Change View
```

Dialog Reports

Option Name		Synonym	Description
Reminder Dialog Elements Orphan Report	PXRM DIALOG ORPHAN REP ORT	OR	This option is used to run the Reminder Dialog Elements Orphan Report.
Reminder Dialog Search Report	PXRM DIALOG SEARCH REPORT	SEA	This option enables the user to search for Reminder Dialogs containing search criteria define by the user.
Empty Reminder Dialog Report	PXRM DIALOG EMPTY REPORT	ER	This Option will run the Empty Reminder Dialog report.
Check Reminder Dialog for invalid items	PXRM DIALOG CHECKER	CH	This option runs a routine that checks a selected reminder dialog for invalid sub-dialog items, invalid finding items, invalid TIU Objects, and/or invalid Template Fields.
Check All Active Reminder Dialog for invalid items	PXRM DIALOG CHECKER ALL	ALL	This option screens all active reminder dialogs for invalid items.
Reminder Dialog CPRS 32 pre conversion report	PXRM DIALOG VIMM PRE REPORT	32	This option provide a report of Reminder Dialog Elements/Group that need to be reviewed before CPRS 32 is install.

Reminder Dialog Elements Orphan Report

```
Select Reminder Managers Menu Option: DM  Reminder Dialog Management

   DP     Dialog Parameters ...
   DI     Reminder Dialogs
   DR     Dialog Reports ...
   IA     Inactive Codes Mail Message

Select Reminder Dialog Management Option: DR  Dialog Reports

   OR     Reminder Dialog Elements Orphan Report
   ER     Empty Reminder Dialog Report
   CH     Check Reminder Dialog for invalid items
   ALL    Check All Reminder Dialogs for invalid items

Select Dialog Reports Option: OR  Reminder Dialog Elements Orphan Report
DEVICE: HOME// ;;999999999  ANYWHERE    Right Margin: 80//
```

```
Reminder Dialog Elements Orphan Report                                Page: 1
===============================================================================

Dialog Elements
===============
    A NEW DIALOG ELEMENT FOR IMMUNIZATION
    A NEW HEP A ELEMENT
    EC HISTORICAL (3)
    EC TAXON
    ED ADVANCED DIRECTIVE SCREENING DONE (10)
```

```
    ED ADVANCED DIRECTIVE SCREENING DONE (2)
    ED ADVANCED DIRECTIVE SCREENING DONE (3)
.
.
    ZZVA-WV PAP SMEAR CLINICAL REVIEW
    ZZVA-WV TEST FORCED VALUE
    a a new test field
    blank

Dialog Groups
=============
    DG LEVEL 2 GROUP
    EXCLUDE FROM P/N GROUP
    GP DEMO GROUP
    GP HEP C RISKS
    GP IMM PNEUMO
    GP SPECIAL
    GP TEST TAXONOMY GROUP
    GP TOBACCO
    GP VITALS
    GPZ UNVESTED PXZ MSK VESTING C/O
    GPZ VIAGRA INITIATION DOSES
    IHD LIPID DONE ELSEWHERE GROUP
    IHD LIPID LOWER MANAGE GROUP
    PJH TEST GROUP
    SP EXERCISE COUNSELING (1)
    TEST OF WH GROUP
    TEST P/N TEXT
    VA-DG GEC ADDL INFO
    ZZVA-WH GP PAP FOLLOW-UP TX/HIDE
    ZZVA-WH GP PAP SCREENING REPEAT - ABNORMAL PAP
    ZZVA-WV GP CERVICAL CARE
    ZZVA-WV GP MAM FOLLOW-UP TX
    ZZVA-WV GP MAM REVIEW - NOTIFY & F/U XXXXX
    ZZVA-WV GP PAP REVIEW F/U W/O NOTIFY

Result Groups
=============
    PXRM AIMS RESULT GROUP
    PXRM AUDC RESULT GROUP
    PXRM AUDIT RESULT GROUP
    PXRM BDI RESULT GROUP
    PXRM CAGE RESULT GROUP
    PXRM DOM80 RESULT GROUP
    PXRM DOMG RESULT GROUP
    PXRM MISS RESULT GROUP
    PXRM ZUNG RESULT GROUP
    SLC ZUNG RESULT GROUP
    SLC ZUNG2

Additional Prompts
==================
    A A PAIN BLANK TEXT PROMPT
    A A PAIN ENTER ALL APPLY
    A A PAIN FREQ HX
    A A PAIN ONSET PROMPT
    A A PAIN TXT 3CHR
    A A SG PAIN HISTORY LOCATION PROMPT
    NEW PROMPT FOR COMMENT
    PJH PXRM COMMENT
    PR SG PAIN SCREENING NOT DONE
    PXRM FORCE VALUE TEST
    PXRM WH REVIEW RESULT COMMENT
```

```
    PXRM*1.5*5 PERSON TYPE

Force Values
============
    A A *PAIN TRIGGERS PROMPT
    A A ENTER ALL THAT APPLY
    A A PAIN ACCEPTABLE PROMPT
    A A PAIN NEW HX PROMPT
    A ASUSAN'S TEST
    PXRM FORCE DATE TEST
    PXRM WH NOTIFICATION TYPE
    PYRM SERIES FORCED
    WH NOTIFICATION FORCE VALUE
    a new forced value

Enter RETURN to continue or '^' to exit:

   OR     Reminder Dialog Elements Orphan Report
   ER     Empty Reminder Dialog Report
   CH     Check Reminder Dialog for invalid items
```

Reminder Dialog Search Report

```
Select Dialog Reports <TEST ACCOUNT> Option: sea  Reminder Dialog Search Report

Search for coding system? N// O

Search for Finding Item(s) used in dialog component(s)? N// YES

Select from the following reminder findings (* signifies standardized):
    1 - EDUCATION TOPICS
    2 - EXAM
    3 - HEALTH FACTOR
    4 - IMMUNIZATION
    5 - MENTAL HEALTH
    6 - ORDER DIALOG
    7 - REMINDER TAXONOMY
    8 - SKIN TEST
    9 - VITAL TYPE
   10 - WH NOTIFICATION PURPOSE
Enter your list for the report:  (1-10): 5
Search for all or selected MENTAL HEALTHS?

     Select one of the following:

          1         ALL
          2         SELECTED

Enter response: SELECTED//
Select MENTAL HEALTH: AUDC
     1   AUDC
     2   AUDCR
CHOOSE 1-2: 1  AUDC
Select MENTAL HEALTH:

Search for specific Reminder Dialog component(s)? N// O

Search for Reminder Dialog by CPRS parameter(s)? N// YES
    1 - Division
    2 - Location
    3 - Service
```

```
    4 - System
    5 - User
    6 - User Class
Enter your list for the report:  (1-6): 5

Select User: CPRS,USER            UC          COMPUTER SPECIALIST
Select User:

Display match criteria on the report? N// YES
Browse or Print? B// Print
DEVICE: HOME// ;;999999  TELNET PORT

Clinical Reminders Dialogs search report.

CPRS Cover Sheet Reminder Dialogs for User (CPRS,USER):

    Dialog: UC ICD10 TAX
     Match Criteria:
      Dialog Result Group: PXRM AUDC RESULT GROUP
        Finding: MH.AUDC
      Dialog Element: AGP AUDC 1
        Finding: MH.AUDC

    Dialog: UC TEMPL DLG
     Match Criteria:
      Dialog Result Group: PXRM AUDC RESULT GROUP
        Finding: MH.AUDC
      Dialog Element: AGP MH
        Finding: MH.AUDC

    Dialog: VA-ALCOHOL USE SCREENING (AUDIT-C)
     Match Criteria:
      Dialog Result Group: PXRM AUDC RESULT GROUP
        Finding: MH.AUDC
      Dialog Element: VA-MH AUDC
        Finding: MH.AUDC

    Dialog: VA-IRAQ & AFGHANISTAN POST DEPLOYMENT SCREEN
     Match Criteria:
      Dialog Result Group: PXRM AUDC RESULT GROUP
        Finding: MH.AUDC
      Dialog Element: VA-MH AUDC
        Finding: MH.AUDC


CPRS Template Dialogs:
    Dialog: UC NEW DIALOG TEST
     Match Criteria:
      Dialog Result Group: PXRM AUDC RESULT GROUP
        Finding: MH.AUDC
      Dialog Element: UC AUDC 1
        Finding: MH.AUDC
    Dialog: MH TEST
     Match Criteria:
      Dialog Element: MH AUDC
        Finding: MH.AUDC
      Dialog Result Group: PXRM AUDC RESULT GROUP
        Finding: MH.AUDC
    Dialog: VA-IRAQ & AFGHANISTAN POST DEPLOYMENT SCREEN
     Match Criteria:
      Dialog Result Group: PXRM AUDC RESULT GROUP
        Finding: MH.AUDC
      Dialog Element: VA-MH AUDC
```

```
        Finding: MH.AUDC
Press ENTER to continue:
```

Empty Reminder Dialog Report

```
Select Dialog Reports Option: ER  Empty Reminder Dialog Report
DEVICE: HOME// ;;99999999999  ANYWHERE    Right Margin: 80//

Empty Reminder Dialogs Report                                        Page: 1
==============================================================================
  A COPY OF AGETEST
  AGP EMPTY DIALOG TEST
  ANOTHER NEW REMINDER
  TEST EDIT (1)
  TEST EDIT COPY


Enter RETURN to continue or '^' to exit:

   OR     Reminder Dialog Elements Orphan Report
   ER     Empty Reminder Dialog Report
   CH     Check Reminder Dialog for invalid items


Select Dialog Reports Option:
```

Check Reminder Dialog for Invalid Items

This option scans the selected dialog items for invalid sub-items, findings, TIU Objects, and/or TIU Templates. If any invalid items are found in the dialog, the results will be displayed to the user. This option allows for any dialog items to be selected, except for Additional Prompts and Forced Values.

The dialog checker report will check for the following items.

1. Disabled dialog items in the selected dialog
2. Incomplete sequences in the selected dialog
3. All sub-items in the selected dialog are pointing to valid entry on the system
4. All finding items, additional finding items, and orderable items are pointing to a valid entry on the system
5. Result groups are pointing to a valid MH Test and an MH scale has been defined for the result group
6. An odd number of "|" characters in a dialog text field. If this is the case, it would not be possible to determine which part is a TIU Object
7. Progress Note Text and the Alternate Progress Note text fields have valid TIU Objects and TIU Template Field
8. Dialogs that have recursion errors
9. Incomplete Branching Logic Statements
10. Review the Reminder Definition and Reminder Terms used in Branching Logic for errors

Example of output

```
Select Reminder Dialog Management <TEST ACCOUNT> Option: DR  Dialog Reports

   OR     Reminder Dialog Elements Orphan Report
```

```
   ER     Empty Reminder Dialog Report
   ALL    Check all active reminder dialog for invalid items
   CH     Check Reminder Dialog for invalid items

Select Dialog Reports Option: CH  Check Reminder Dialog for invalid items
Select Dialog Definition:    EXCHANGE DIALOG     reminder dialog     LOCAL
         ...OK? Yes//   (Yes)

EXCHANGE DIALOG contains the following errors.
The dialog element INACTIVE OBJECT contains a reference to a TIU
Object NP TIUHS OBJECT TEST in the Dialog Text field. This TIU Object is
inactive.
```

Check All Reminder Dialogs for Invalid Items

```
Select Dialog Reports Option: ALL  Check all active reminder dialog for invalid items

COPY OF AGE TEST contains the following errors.
The dialog group HF BINGE DRINKING OTHER is disabled.

AGP INDENT TEST contains the following errors.
The dialog element 123456789 123456789 123456789 123456789 123456789
123456789 123 contains a pointer to an additional finding item that does
not exist on the system.

ZZPJH REMINDER contains the following errors.
The dialog element WH PAP, ANNUAL DUE. contains an a pointer to the
finding item that does not exist on the system.

PHARMACY DISCHARGE MEDICATIONS contains the following errors.
The dialog element PHARMACY DISCHARGE MEDS QUESTIONS contains a reference
to a TIU Object OUTPATIENT MEDS in the Dialog Text field. This TIU Object
does not exist on the system.

The dialog group GRP MOVE! SCREENING 5/2007 contains a reference to a TIU
Object BMI (BODY MASS INDEX %) in the Dialog Text field. This TIU Object
does not exist on the system.

Pap Smear (local) contains the following errors.
The dialog element EX PAP DONE  contains a reference to a TIU Object PAP
SMEAR in the Dialog Text field. This TIU Object does not exist on the
system.

ETC.

**DONE**
```

Dialog Taxonomy Changes

Before PXRM*2*26, users created Reminder Dialogs by adding individual ICD-9-CM and/or CPT-4 codes. When using codes as Finding Items or Additional Finding Items in CPRS, the end user didn't select codes; codes were automatically filed to VistA when the element/group was selected in the Reminder Dialog. If the Reminder Dialog was set up to use a Taxonomy, it could only be used as a Finding Item; it created a pick list of codes for the user to pick from in CPRS.

The display in CPRS was controlled by the set-up in the Reminder Finding Parameter File (#801.45) and the Reminder Taxonomy File (#811.2). These controls determined if the Taxonomy should assign codes to the current encounter or an historical encounter and what prompts should be assigned to the Reminder Dialog in CPRS.

After PXRM*2*26, users will no longer be able to add ICD-9-CM and/or CPT-4 codes to a Reminder Dialog. Users will need to create a Taxonomy, assign codes, and then add the Taxonomy to the Reminder Dialog. To maintain similar end user functionality in CPRS, a new field called Taxonomy Pick List Display has been added to the dialog editor. This controls how Taxonomies should display in CPRS.

Dialog Taxonomy Editor

A simple taxonomy editor that is accessed from the Dialog Management menu (either the element or group view) is available. Codes added in this editor are automatically marked as Use In Dialog (UID). If the code already exists in the Selected Codes multiple, all instances of it are marked as UID. If the code does not already exist, it is added to the Selected Codes multiple with TERM/CODE set to the code and the code is marked as UID. If a code is deleted in this editor, UID is removed from all instances of the code but it is not deleted from the Selected Codes multiple. You must use the regular taxonomy editor to actually delete the code.

```
Dialog List                    Aug 08, 2013@12:07:04          Page:    1 of   15
REMINDER VIEW (ALL REMINDERS BY NAME)

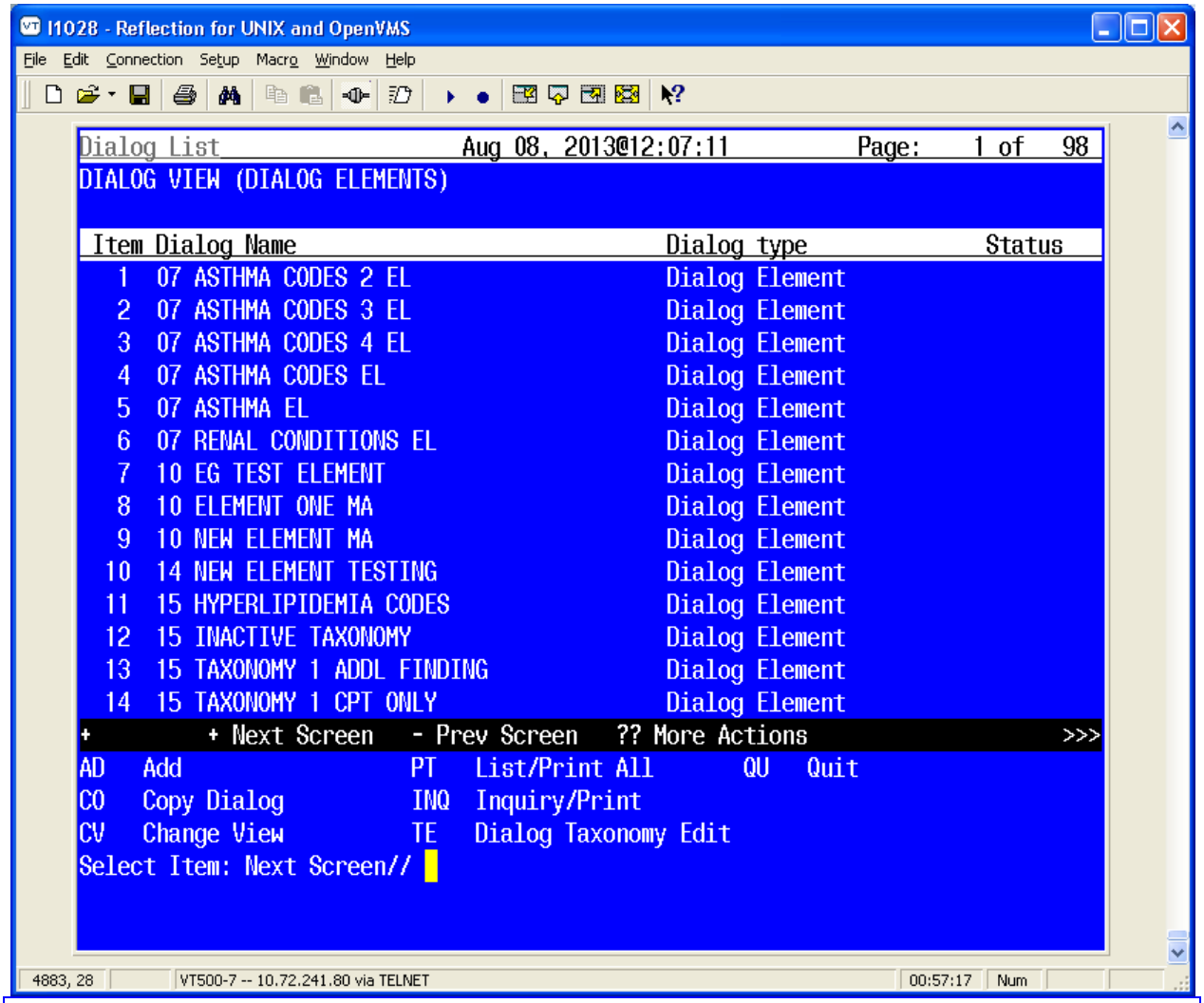
 Item Reminder Name                        Linked Dialog Name & Dialog Status
   1  14HTN (TESTING)
   2  15 REMINDER DIALOG TESTS             15 TESTING DIALOG
   3  15V-DIABETES TX TEST
   4  AJM TAXONOMY                         AJM TAXONOMY
   5  ARD 00 ANTICOAGULATION AFIB


+         Enter ?? for more actions                                        >>>
AR   All reminders        LR   Linked Reminders     QU   Quit
CV   Change View          RN   Name/Print Name
Select Item: Next Screen// cv   Change View

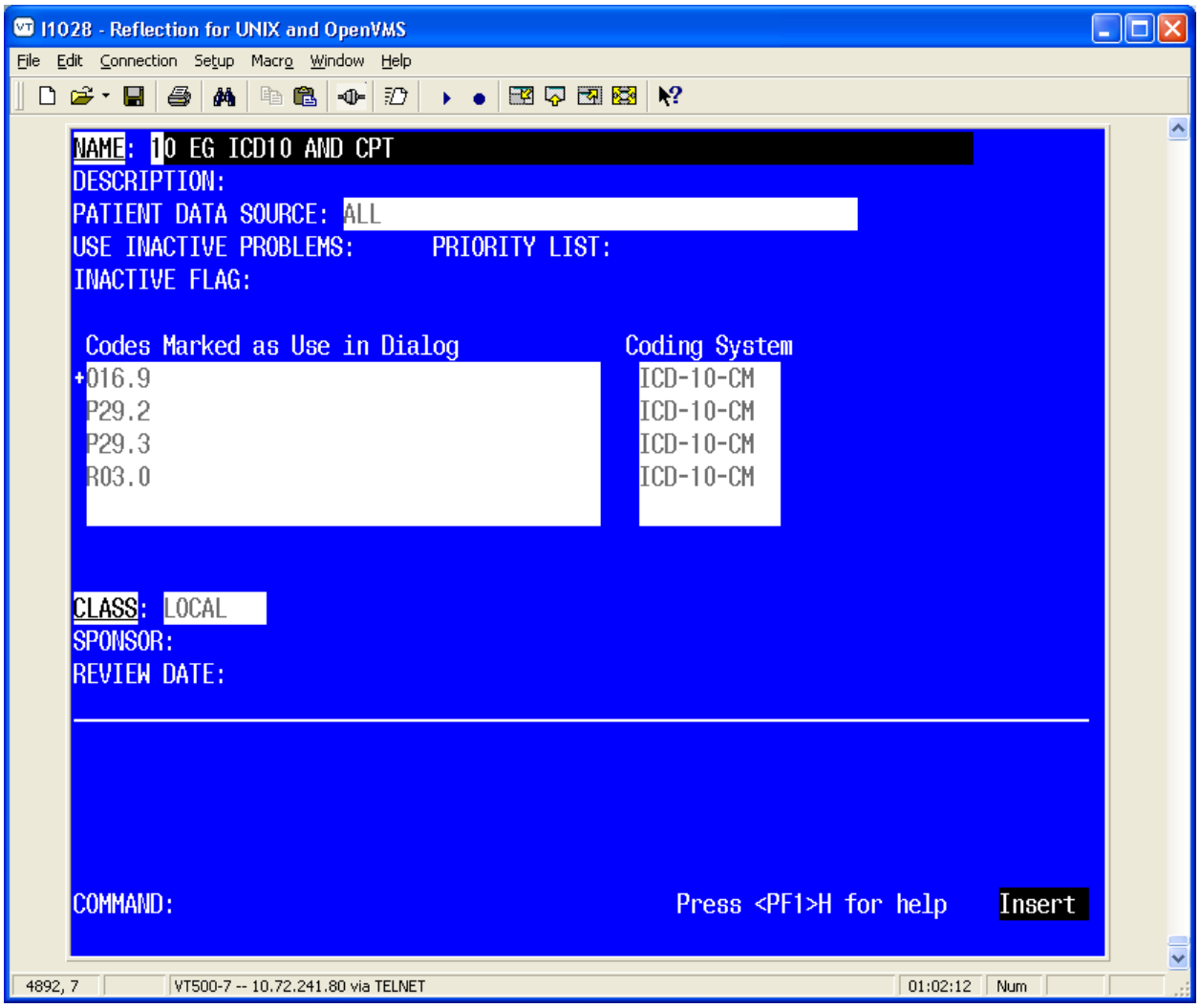
     Select one of the following:

          D         Reminder Dialogs
          E         Dialog Elements
          F         Forced Values
          G         Dialog Groups
          P         Additional Prompts
          R         Reminders
          RG        Result Group (Mental Health)
          RE        Result Element (Mental Health)
```

```
TYPE OF VIEW: R// e  Dialog Elements
```




```
Select Item: Next Screen// te   Dialog Taxonomy Edit
Select REMINDER TAXONOMY NAME: 1
     1   10 EG CPT ONLY       LOCAL
     2   10 EG ICD10 AND CPT       LOCAL
     3   10 EG ICD10 ONLY       LOCAL
     4   10 EG ICD9 AND CPT       LOCAL
     5   10 EG ICD9 ONLY       LOCAL
Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5: 2  10 EG ICD10 AND CPT     LOCAL
```



New Fields

Taxonomy Pick List Display - This field controls if and what pick lists should appear in CPRS. The possible values for the option are based on the setup of the Taxonomy in the Finding Item Field. If a pick list is set to not display, then the active codes marked to be used in a dialog will automatically be filed to PCE for the encounter date for that element when the finish button is clicked. Possible values for this field:

- `All = A pick list will display for each code type (ICD/10D and CPT) in taxonomy.`
- `Diagnosis Only = A pick list will display only for ICD/10D codes`
- `Procedure Only = A pick list will display only for CPT codes`
- `None = Will not display a pick list`

Diagnosis Header - This field displays text that will be used for the Taxonomy Checkbox. The prompt is only available if the Taxonomy Selection Value is set to All. The default value is from the Reminder Finding Type Parameter.

Procedure Header - This field displays text that will be used for the Taxonomy Checkbox. The prompt is only available if the Taxonomy Selection Value is set to All. The default value is from the Reminder Finding Type Parameter.

Also, after PXRM*2.0*26 is installed, users will no longer be able to set one Taxonomy Element to prompt for both Current and Historical Encounter Data. Users will need to create an element for each encounter type, Current and Historical. If the element Resolution Type is set to Done Elsewhere, then the editor will prompt the user to accept the default prompts for the taxonomy which includes prompts for historical data. prompt for historical data. Any other resolution type or no resolution type will prompt data for the current encounter date.

For the ICD-10 implementation, Reminder Dialogs will display ICD-9-CM or ICD-10-CM in a pick list based on the code set versioning rules. Reminder Dialogs determine what codes to display using the following rules:

- Current encounters= active codes for that encounter date; Addendums will use the parent note Encounter date.
- Historical encounters= active codes for system date

Examples:

An example Taxonomy that is a copy of VA-ADB AORTIC; this example has additional codes set to be used in a dialog.

```
-------------------------------------------------------------------------------
AAA TAX DEMO                                                            No. 115
-------------------------------------------------------------------------------

Class: LOCAL
Sponsor:
Review Date:

Description:
ICD codes and CPT codes indicating AAA
Inactive Flag:
Patient Data Source:
Use Inactive Problems:

Selected Codes:
```

Lexicon Search Term/Code: Abdominal aortic aneurysm

```
Coding System: ICD-10-CM
Code       Activation Inactivation  UID  Description
---------  ---------- ------------  ---  -----------
I71.3      01/01/2012                X   Abdominal Aortic Aneurysm, Ruptured
I71.4      01/01/2012                X   Abdominal Aortic Aneurysm, without
                                         Rupture
```

Lexicon Search Term/Code: Copy from CPT range 34800 to 34805

```
Coding System: CPT-4
Code       Activation Inactivation  UID  Description
---------  ---------- ------------  ---  -----------
34800      01/01/2001                X   Endovascular Repair of Infrarenal
```

```
                                        Abdominal Aortic Aneurysm or
                                        Dissection; using Aorto-Aortic
                                        Tube Prosthesis
34802      01/01/2001                X  Endovascular Repair of Infrarenal
                                        Abdominal Aortic Aneurysm or
                                        Dissection; using Modular
                                        Bifurcated Prosthesis (one Docking
                                        Limb)
34803      01/01/2005                X  Endovascular Repair of Infrarenal
                                        Abdominal Aortic Aneurysm or
                                        Dissection; using Modular
                                        Bifurcated Prosthesis (two Docking
                                        Limbs)
34804      01/01/2001                X  Endovascular Repair of Infrarenal
                                        Abdominal Aortic Aneurysm or
                                        Dissection; using Unibody
                                        Bifurcated Prosthesis
34805      01/01/2004                X  Endovascular Repair of Infrarenal
                                        Abdominal Aortic Aneurysm or
                                        Dissection; using Aorto-Uniiliac
                                        or Aorto-Unifemoral Prosthesis
```

Lexicon Search Term/Code: Copy from CPT range 34825 to 34832

```
Coding System: CPT-4
Code       Activation Inactivation  UID  Description
---------  ---------- ------------  ---  -----------
34825      01/01/1989  01/01/1990        Placement of Proximal or Distal
                                        Extension Prosthesis for
                                        Endovascular Repair of Infrarenal
                                        Abdominal Aortic Aneurysm; Initial
                                        Vessel
           01/01/2001                   Placement of Proximal or Distal
                                        Extension Prosthesis for
                                        Endovascular Repair of Infrarenal
                                        Abdominal Aortic or Iliac
                                        Aneurysm, False Aneurysm, or
                                        Dissection; Initial Vessel
34826      01/01/1989  01/01/1990        Placement of Proximal or Distal
                                        Extension Prosthesis for
                                        Endovascular Repair of Infrarenal
                                        Abdominal Aortic Aneurysm; each
                                        additional Vessel
           01/01/2001                   Placement of Proximal or Distal
                                        Extension Prosthesis for
                                        Endovascular Repair of Infrarenal
                                        Abdominal Aortic or Iliac
                                        Aneurysm, False Aneurysm, or
                                        Dissection; each additional Vessel
                                        (List Separately in addition to
                                        Code for Primary Procedure)
34830      01/01/2001                   Open Repair of Infrarenal Aortic
                                        Aneurysm or Dissection, plus
                                        Repair of Associated Arterial
                                        Trauma, Following Unsuccessful
                                        Endovascular Repair; Tube
                                        Prosthesis
34831      01/01/2001                   Open Repair of Infrarenal Aortic
                                        Aneurysm or Dissection, plus
                                        Repair of Associated Arterial
                                        Trauma, Following Unsuccessful
                                        Endovascular Repair;
```

```
                                                Aorto-Bi-Iliac Prosthesis
34832       01/01/2001                          Open Repair of Infrarenal Aortic
                                                Aneurysm or Dissection, plus
                                                Repair of Associated Arterial
                                                Trauma, Following Unsuccessful
                                                Endovascular Repair;
                                                Aorto-Bifemoral Prosthesis
```

Lexicon Search Term/Code: Copy from CPT range 35081 to 35103

```
Coding System: CPT-4
Code        Activation Inactivation  UID  Description
---------   ---------- ------------  ---  -----------
35081       06/01/1994                    Direct Repair of Aneurysm,
                                          Pseudoaneurysm, or Excision
                                          (Partial or Total) and Graft
                                          Insertion, with or without Patch
                                          Graft; for Aneurysm and Associated
                                          Occlusive Disease,Abdominal Aorta
35082       06/01/1994                    Direct Repair for Ruptured
                                          Aneurysm involving the Abdominal
                                          Aorta
35091       06/01/1994                    Direct Repair of Aneurysm,
                                          Pseudoaneurysm, or Excision
                                          (Partial or Total) and Graft
                                          Insertion, with/without Patch
                                          Graft; for Aneurysm and Associated
                                          Occlusive Disease, Abdominal Aorta
                                          involving Visceral Vessels
                                          (Mesenteric, Celiac, Renal)
35092       06/01/1994                    Direct Repair for Ruptured
                                          Aneurysm involving the Mesenteric,
                                          Celiac or Renal Arterial Branch of
                                          the Abdominal Aorta
35102       06/01/1994                    Direct Repair of Aneurysm,
                                          Pseudoaneurysm, or Excision
                                          (Partial or Total) and Graft
                                          Insertion, with/without Patch
                                          Graft; for Aneurysm and Associated
                                          Occlusive Disease, Abdominal Aorta
                                          involving Iliac Vessels (Common,
                                          Hypogastric, External)
35103       06/01/1994                    Direct Repair for Ruptured
                                          Aneurysm involving the Iliac
                                          Vessels (Common, Hypogastric,
                                          External) of the Abdominal Aorta
```

Lexicon Search Term/Code: Copy from CPT range 75952 to 75953

```
Coding System: CPT-4
Code        Activation Inactivation  UID  Description
---------   ---------- ------------  ---  -----------
75952       01/01/2001                    Endovascular Repair of Infrarenal
                                          Abdominal Aortic Aneurysm or
                                          Dissection, Radiological
                                          Supervision and Interpretation
```

```
75953      01/01/1989  01/01/1990        Placement of Proximal or Distal
                                         Extension Prosthesis for
                                         Endovascular Repair of Infrarenal
                                         Abdominal Aortic Aneurysm,
                                         Radiological Supervision and
                                         Interpretation
           01/01/2001                    Placement of Proximal or Distal
                                         Extension Prosthesis for
                                         Endovascular Repair of Infrarenal
                                         Aortic or Iliac Artery Aneurysm,
                                         Pseudoaneurysm, or Dissection,
                                         Radiological Supervision and
                                         Interpretation
```

Lexicon Search Term/Code: Copy from ICD range 441.3 to 441.4

```
Coding System: ICD-9-CM
Code       Activation Inactivation  UID  Description
---------  ---------- ------------  ---  -----------
441.3      10/01/1978  01/01/2012    X   Abdominal aneurysm, ruptured
441.4      10/01/1978  01/01/2012    X   Abdominal aneurysm without mention
                                         of rupture


This taxonomy includes the following numbers of codes:
ICD-10-CM: 2
CPT-4: 18
ICD-9-CM: 2
Total number of codes: 22
```

Below are screen shots of how CPRS will display the taxonomy using different values.

Example 1
Setting a Taxonomy as a finding item to display pick lists for both ICD-9, ICD-10, and CPT codes, for current encounters only.

```
NAME: AAA DEMO ELEMENT//
DISABLE:
CLASS: L  LOCAL
SPONSOR:
REVIEW DATE:
RESOLUTION TYPE:
ORDERABLE ITEM:
FINDING ITEM: TX.AAA  AAA TAX DEMO     LOCAL
         ...OK? Yes//   (Yes)


Additional findings: none
Select ADDITIONAL FINDING:

     Select one of the following:

          A         All
          D         ICD Diagnoses Only
          P         CPT Procedures Only
          N         None

Taxonomy Pick List Display: A// ll

     Select one of the following:
```

```
          C         CURRENT ENCOUNTER
          H         HISTORICAL ENCOUNTER
          B         BOTH CURRENT AND HISTORICAL ENCOUNTERS

Diagnosis Header: Diagnosis recorded at encounter.  Replace
Procedure Header: done.//

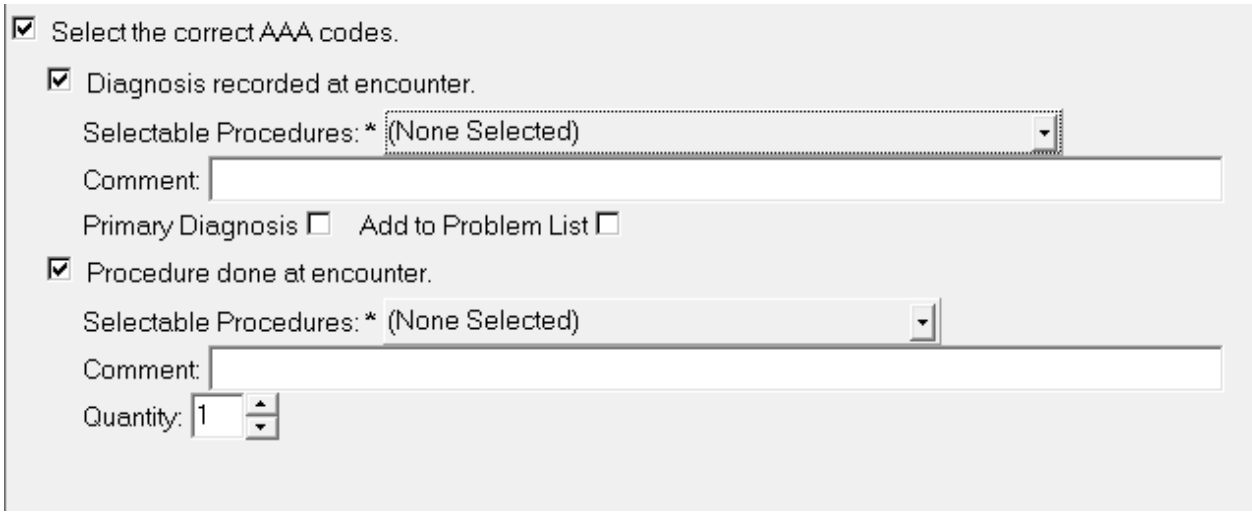
Default prompts for the taxonomy:
Prompt: PXRM COMMENT
Prompt: PXRM VISIT DATE
   Required: Yes
Prompt: PXRM OUTSIDE LOCATION
Prompt: PXRM PRIMARY DIAGNOSIS
Prompt: PXRM QUANTITY
Prompt: PXRM ADD TO PROBLEM LIST

     Select one of the following:

          Y         Yes
          N         No

Add Prompts to the dialog: Yes//
DIALOG/PROGRESS NOTE TEXT:
  No existing text
  Edit? NO// Select the correct AAA codes.
```

With these settings, the user is able to pick from a pick list of diagnoses and procedure codes to add to the current encounter.



Example 2
Setting a Taxonomy as a finding item to display pick lists for both ICD-10 and CPT codes for historical encounters only.

```
NAME: AAA DEMO ELEMENT//
DISABLE:
CLASS: LOCAL//
SPONSOR:
REVIEW DATE:
RESOLUTION TYPE: DONE ELSEWHERE (HISTORICAL)
ORDERABLE ITEM:
```

```
Finding item: TX AAA TAX DEMO
FINDING ITEM: AAA TAX DEMO//

Additional findings: none
Select ADDITIONAL FINDING:

     Select one of the following:

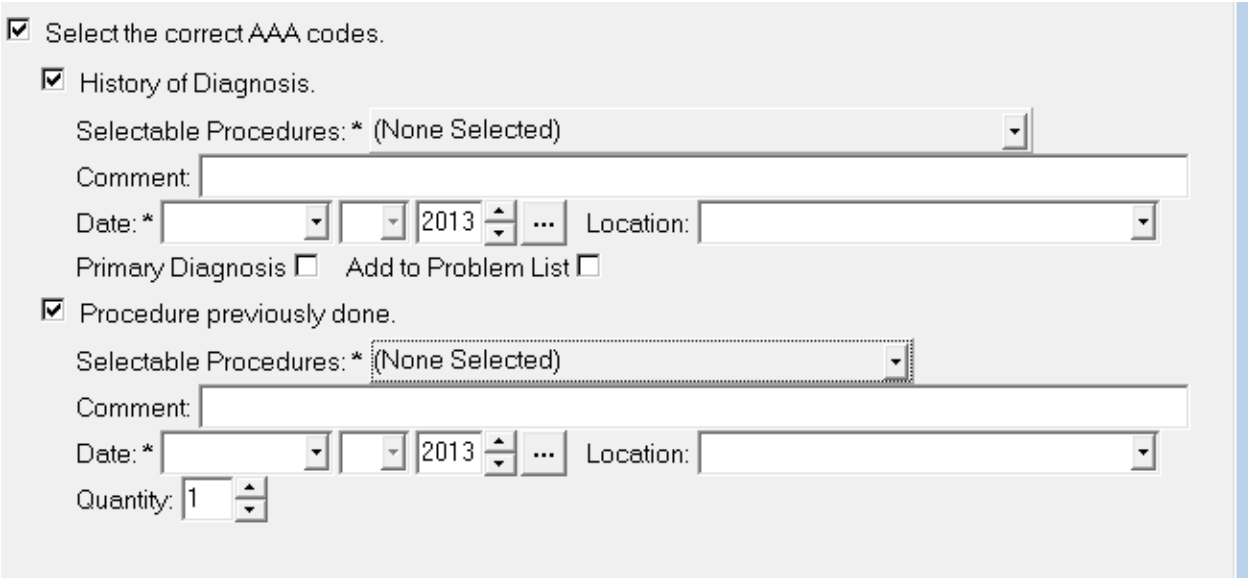
          A         All
          D         ICD Diagnoses Only
          P         CPT Procedures Only
          N         None

Taxonomy Pick List Display: A// ll

Diagnosis Header: History of Diagnosis.  Replace
Procedure Header: previously done.//DIALOG/PROGRESS NOTE TEXT:
Select the correct AAA codes.

  Edit? NO//
ALTERNATE PROGRESS NOTE TEXT:
  No existing text
  Edit? NO//
EXCLUDE FROM PROGRESS NOTE:
SUPPRESS CHECKBOX:
Select SEQUENCE: 6//
  SEQUENCE: 6//
  ADDITIONAL PROMPT/FORCED VALUE: PXRM ADD TO PROBLEM LIST
         //
  OVERRIDE PROMPT CAPTION:
  START NEW LINE:
  EXCLUDE FROM PN TEXT:
  REQUIRED:
Select SEQUENCE:
REMINDER TERM:
Input your edit comments.
Edit? NO//
```

With these settings, the user is able to assign diagnosis and/or procedure codes to a historical encounter. The historical date will be created based on the Date prompt for both the diagnosis and the procedure checkboxes.



Example 3
Setting a Taxonomy as a finding item to display pick lists for only ICD-10 codes for the current encounters.

```
NAME: AAA DEMO ELEMENT//
DISABLE:
CLASS: LOCAL//
SPONSOR:
REVIEW DATE:
RESOLUTION TYPE:
ORDERABLE ITEM:
Finding item: TX AAA TAX DEMO
FINDING ITEM: AAA TAX DEMO//

Additional findings: none
Select ADDITIONAL FINDING:

     Select one of the following:

          A         All
          D         ICD Diagnoses Only
          P         CPT Procedures Only
          N         None

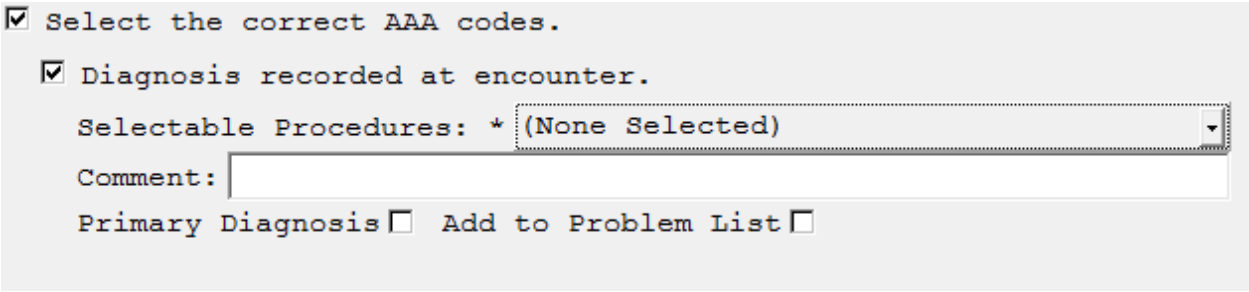
Taxonomy Pick List Display: A// d  ICD Diagnoses Only

Diagnosis Header: Diagnosis recorded at encounter.
  Replace
DIALOG/PROGRESS NOTE TEXT:
Select the correct AAA codes.

  Edit? NO//
ALTERNATE PROGRESS NOTE TEXT:
  No existing text
  Edit? NO//
EXCLUDE FROM PROGRESS NOTE:
SUPPRESS CHECKBOX:
Select SEQUENCE: 6//
  SEQUENCE: 6//
```

```
  ADDITIONAL PROMPT/FORCED VALUE: PXRM ADD TO PROBLEM LIST
         //
  OVERRIDE PROMPT CAPTION:
  START NEW LINE:
  EXCLUDE FROM PN TEXT:
  REQUIRED:
Select SEQUENCE:
REMINDER TERM:
Input your edit comments.
Edit? NO//
```

With these settings, the user will be able to pick diagnosis codes to add to the current encounter. The active procedure codes that were marked to be used in a dialog will automatically be filed to the current encounter. No historical data will be stored for this element.



Example 4
Setting a Taxonomy as a finding item to display pick lists for CPT codes only for the current encounters.

```
NAME: AAA DEMO ELEMENT//
DISABLE:
CLASS: LOCAL//
SPONSOR:
REVIEW DATE:
RESOLUTION TYPE:
ORDERABLE ITEM:
Finding item: TX AAA TAX DEMO
FINDING ITEM: AAA TAX DEMO//

Additional findings: none
Select ADDITIONAL FINDING:

     Select one of the following:

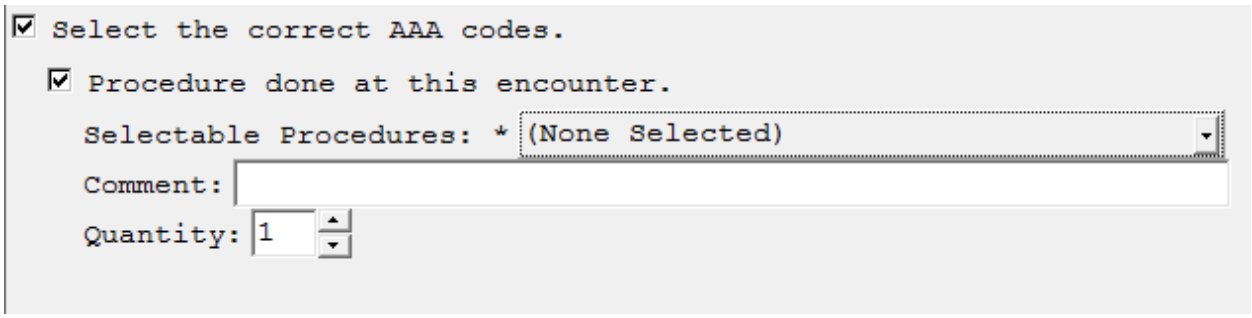
          A         All
          D         ICD Diagnoses Only
          P         CPT Procedures Only
          N         None

Taxonomy Pick List Display: D// p  CPT Procedures Only


Procedure Header: done.// Procedure done at this encounter.
DIALOG/PROGRESS NOTE TEXT:
Select the correct AAA codes.

  Edit? NO//
ALTERNATE PROGRESS NOTE TEXT:
  No existing text
  Edit? NO//
EXCLUDE FROM PROGRESS NOTE:
SUPPRESS CHECKBOX:
Select SEQUENCE: 6//
  SEQUENCE: 6//
  ADDITIONAL PROMPT/FORCED VALUE: PXRM ADD TO PROBLEM LIST
         //
  OVERRIDE PROMPT CAPTION:
  START NEW LINE:
  EXCLUDE FROM PN TEXT:
  REQUIRED:
Select SEQUENCE:
REMINDER TERM:
Input your edit comments.
Edit? NO//
```

With these settings, the user will be able to pick the Procedure codes to assign to the current encounter. The active diagnosis codes marked to be used in the dialog will automatically be assigned to the encounter. No historical data will be stored for this element.



Example 5
Setting a Taxonomy as a finding item to display no pick list set to display.

```
NAME: AAA DEMO ELEMENT//
DISABLE:
CLASS: LOCAL//
SPONSOR:
REVIEW DATE:
RESOLUTION TYPE:
ORDERABLE ITEM:
Finding item: TX AAA TAX DEMO
FINDING ITEM: AAA TAX DEMO//

Additional findings: none
Select ADDITIONAL FINDING:

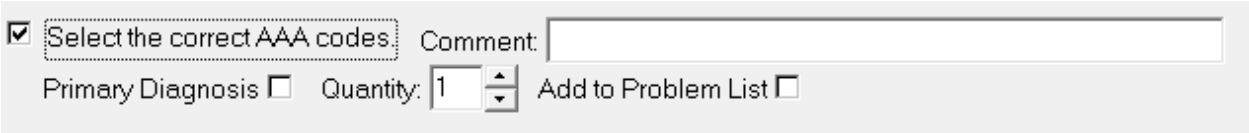
     Select one of the following:

          A         All
          D         ICD Diagnoses Only
          P         CPT Procedures Only
          N         None

Taxonomy Pick List Display: P// n  None
DIALOG/PROGRESS NOTE TEXT:
Select the correct AAA codes.

  Edit? NO//
ALTERNATE PROGRESS NOTE TEXT:
  No existing text
  Edit? NO//
EXCLUDE FROM PROGRESS NOTE:
SUPPRESS CHECKBOX:
Select SEQUENCE: 6//
  SEQUENCE: 6//
  ADDITIONAL PROMPT/FORCED VALUE: PXRM ADD TO PROBLEM LIST
         //
  OVERRIDE PROMPT CAPTION:
  START NEW LINE:
  EXCLUDE FROM PN TEXT:
  REQUIRED:
Select SEQUENCE:
REMINDER TERM:
Input your edit comments.
Edit? NO//
```

With this setting, all active diagnosis/procedure codes marked to be used in a dialog will automatically be filed to the current encounter.



Note: In the first example the software added the following prompts to the dialog element.

```
Prompt: PXRM COMMENT
Prompt: PXRM VISIT DATE
Prompt: PXRM OUTSIDE LOCATION
Prompt: PXRM PRIMARY DIAGNOSIS
Prompt: PXRM QUANTITY
Prompt: PXRM ADD TO PROBLEM LIST
```

In examples 2-5, the prompts were not changed. CPRS will determine which prompts to show, based on the prompts assigned to the element, the codes in the taxonomy, and the Resolution Status Field. However, it is good practice to remove prompts that are not being used by the dialog.

Taxonomy Editor

A simple taxonomy editor that is accessed from dialog management (either the element or group view) is also available. Codes added in this editor are automatically marked as Use In Dialog. If a code is deleted in this editor, the Use In Dialog designation is removed from the code.

```
Dialog List                    Aug 08, 2013@12:07:04          Page:    1 of   15
REMINDER VIEW (ALL REMINDERS BY NAME)

 Item Reminder Name                        Linked Dialog Name & Dialog Status
   1  14HTN (TESTING)
   2  15 REMINDER DIALOG TESTS             15 TESTING DIALOG
   3  15V-DIABETES TX TEST
   4  AJM TAXONOMY                         AJM TAXONOMY
   5  ARD 00 ANTICOAGULATION AFIB


+         Enter ?? for more actions                                          >>>
AR   All reminders        LR   Linked Reminders     QU   Quit
CV   Change View          RN   Name/Print Name
Select Item: Next Screen// cv   Change View

     Select one of the following:

          D         Reminder Dialogs
          E         Dialog Elements
          F         Forced Values
          G         Dialog Groups
          P         Additional Prompts
          R         Reminders
          RG        Result Group (Mental Health)
          RE        Result Element (Mental Health)

TYPE OF VIEW: R// e  Dialog Elements
```

```
Dialog List                    Aug 08, 2013@12:07:11          Page:    1 of   98
DIALOG VIEW (DIALOG ELEMENTS)

 Item Dialog Name                                Dialog type              Status
    1  07 ASTHMA CODES 2 EL                       Dialog Element
    2  07 ASTHMA CODES 3 EL                       Dialog Element
    3  07 ASTHMA CODES 4 EL                       Dialog Element
    4  07 ASTHMA CODES EL                         Dialog Element
    5  07 ASTHMA EL                               Dialog Element
    6  07 RENAL CONDITIONS EL                     Dialog Element
    7  10 EG TEST ELEMENT                         Dialog Element
    8  10 ELEMENT ONE MA                          Dialog Element
    9  10 NEW ELEMENT MA                          Dialog Element
   10  14 NEW ELEMENT TESTING                     Dialog Element
   11  15 HYPERLIPIDEMIA CODES                    Dialog Element
   12  15 INACTIVE TAXONOMY                       Dialog Element
   13  15 TAXONOMY 1 ADDL FINDING                 Dialog Element
   14  15 TAXONOMY 1 CPT ONLY                     Dialog Element
+          + Next Screen   - Prev Screen   ?? More Actions                  >>>
AD   Add                  PT   List/Print All       QU   Quit
CO   Copy Dialog          INQ  Inquiry/Print
CV   Change View          TE   Dialog Taxonomy Edit
Select Item: Next Screen//
```

```
Select Item: Next Screen// te   Dialog Taxonomy Edit
Select REMINDER TAXONOMY NAME: 1
     1   10 EG CPT ONLY        LOCAL
     2   10 EG ICD10 AND CPT        LOCAL
     3   10 EG ICD10 ONLY        LOCAL
     4   10 EG ICD9 AND CPT        LOCAL
     5   10 EG ICD9 ONLY        LOCAL
Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5: 2  10 EG ICD10 AND CPT     LOCAL
```

CPRS Reminder Configuration Menu

This menu contains options to maintain reminder categories and to set up reminder dialogs within CPRS.

Syn	Option	Option Name	Description
CA	Add/Edit Reminder Categories	PXRM CATEGORY EDIT/INQUIRE	A reminder category may contain a list of reminders and/or other sub-categories. Use this option to edit the list.
CL	CPRS Lookup Categories	PXRM CPRS LOOKUP CATEGORIES	Reminder Categories to be displayed in the Other Categories folder of the note tab are entered here.
CS	CPRS Cover Sheet Reminder List	PXRM CPRS COVER SHEET LIST	Use this option to enter reminders that will be displayed on the CPRS cover sheet if the New Reminders Parameter is NOT set to Yes.
MH	Mental Health Dialogs Active	PXRM MENTAL HEALTH ACTIVE	This option allows a user to modify the "Mental Health Dialogs Active" CPRS parameter. You can activate Mental Health reminder resolution processing at a user, service, division, or system level. When activated for one of these levels, mental health tests can be performed in a reminder dialog.
PN	Progress Note Headers	PXRM PN HEADER	The header inserted into the progress note when processing a reminder may be modified for user, location, or service. The default header is Clinical Reminders Activity.
RA	Reminder GUI Resolution Active	PXRM GUI REMINDERS ACTIVE	This option allows a user to modify the "Reminders Active" CPRS parameter. You can activate GUI reminder resolution processing at a user, service, division, or system level. When activated for one of these levels, a reminders drawer is available on the notes tab for selecting and processing reminders.
DL	Default Outside Location	PXRM DEFAULT LOCATION	Allows the default outside location for reminder dialogs to be specified at user, service, division, or system level.
PT	Position Reminder Text at Cursor	PXRM TEXT AT CURSOR	Allows the position reminder note text at cursor feature to be enabled at user, service, division, or system level.
WH	WH Print Now Active	PXRM WH PRINT NOW	This option allows sites to include the Print Now button on Women's Health dialogs for notification letters.
GEC	GEC Status Check Active	PXRM GEC STATUS CHECK	A GEC Status Indicator may be added to the CPRS GUI Tools drop-down menu, to be viewed at any time and used to close the referral if needed. It may be set at the User or Team level through this option.
TIU	TIU Template Reminder Dialog Parameter	PXRM TIU DIALOG TEMPLATE	This option lets users edit the TIU TEMPLATE REMINDER DIALOG parameter.
DEVL	Evaluate Coversheet List on Dialog Finish	PXRM EVALUATE COVERSHEET	This option let the users edit the PXRM DIALOG EVAL DEFINITION parameter, This parameter is used to determine if the CPRS coversheet reminder list should

			automatically be re-evaluated after the completing a Reminder Dialog
NP	New Reminder Parameters	PXRM NEW REMINDER PARAMETERS	This option allows a user to modify the ORQQPX NEW REMINDER PARAMS parameter, which controls usage and management of cover sheet reminder list.
LINK	Link Reminder Dialog to Template	PXRM DIALOG LINK TO TEMPLATE	This option is used to link a Reminder Dialog to a TIU Template and the ability to link the TIU Template to a TIU Note Title
TEST	CPRS Coversheet Time Test	PXRM CPRS TESTER	This option is used to run the Reminder Coversheet list and report the time of the reminder evaluation

Add/Edit Reminder Categories

Reminder categories are maintained with this option. A category defines a group of reminders and may include other sub-categories.

To activate categories so that they appear in the reminders window in CPRS (under Other Categories), use the option CPRS Lookup Categories on page 311.

The first screen in this option displays the existing reminder categories:

```
Selection List                Aug 18, 1999 15:04:41         Page:  1 of    1
Reminder Categories

 Item Reminder Category
   1  DIABETES CLINIC REMINDERS
   2  WEIGHT AND NUTRITION









          + Next Screen   - Prev Screen   ?? More Actions
AD   Add                  PT   List/Print All             QU   Quit
Select Item: Quit//
```

Actions

- **AD** - Add a new reminder category.
- **PT** - List or print all reminder categories
- **QU** - Return to menu
- **#** - Enter the item number to be edited.

If you select a reminder category, a description and related reminders are displayed. You can then edit the category.

```
Edit List                  Apr 18, 2000 15:04:41           Page:    1 of  1
Reminder Category Name: SLC DEMO CATEGORY
```

```
Category Description:
    This is the text for that summarizes what this category represents. A
    category may contain reminders and/or a number of sub-categories.

Sequence:  1   Reminder: SLC CANCER SCREEN
Sequence:  2   Reminder: SLC DIABETIC EYE EXAM
Sequence:  3   Reminder: SLC LIFE STYLE EDUCATION
Sequence:  4   Reminder: SLC PNEUMOCOCCAL VACCINE
Sequence: 90   Reminder: SLC DIABETIC FOOT CARE ED
Sequence: 99   Reminder: MHTEST

Sub-category: SUBSTANCE ABUSE                     Sequence: 3
     Sequence:  1   Reminder: TOBACCO EDUCATION
     Sequence:  2   Reminder: TOBACCO USE SCREEN
     Sequence:  3   Reminder: VA-*PROBLEM DRINKING SCREEN
          + Next Screen   - Prev Screen   ?? More Actions
ED   Edit                     INQ   Inquiry/Print                QU   Quit
Select Action: Quit//ED
```

Actions

- **ED** - Edit/Delete this reminder category
- **INQ** - List or print this reminder category
- **QU** - Return to previous screen.

CPRS Lookup Categories

Enter the Reminder Categories that you wish to be displayed on the reminder tree section of the note tab. These will appear in the "Other Categories" folder.

```
Select CPRS Reminder Configuration Menus Option: CL  CPRS Lookup Categories

Reminder Categories for Lookup may be set for the following:

     1   User          USR    [choose from NEW PERSON]
     2   Location      LOC    [choose from HOSPITAL LOCATION]
     3   Service       SRV    [choose from SERVICE/SECTION]
     4   Division      DIV    [ISC SALT LAKE]
     5   System        SYS    [DEVCUR.ISC-SLC.VA.GOV]

Enter selection: 1  User   NEW PERSON
Select NEW PERSON NAME:  CRPROVIDER,ONE     jg

------- Setting Reminder Categories for Lookup  for User: CRPROVIDER,ONE -------
Select Display Sequence: ?

     Display Sequence                    Value
     ----------------                    -----
     1                                   SUBSTANCE ABUSE
     5                                   HEPATITIS C
     10                                  WEIGHT AND NUTRITION
     15                                  SLC REMINDER CATEGORY
     20                                  Usability Test Reminders

Select Display Sequence: 25
Are you adding 25 as a new Display Sequence? Yes//<Enter>   YES

Display Sequence: 25//  <Enter>  25
Reminder Category: ??
```

```
Choose from:
   Acute Pain
   Cancer Pain
   Chronic Pain
   HEPATITIS C
   Pain Management
   SLC REMINDER CATEGORY
   SUBSTANCE ABUSE
   USH POLICY
   Usability Test Reminders
   WEIGHT AND NUTRITION

Reminder Category:CRPROVIDER'S REMINDER CATEGORY
         ...OK? Yes// <Enter>  (Yes)

Select Display Sequence: <Enter>
```

CPRS Cover Sheet Reminder List

Use this option to enter reminders that will be displayed on the CPRS cover sheet if the New Reminder Parameter option is set to No. If the New Reminders Parameter is set to Yes (ORQQPX NEW REMINDER PARAMS; see the description on the next page), you won't use this option; instead you will manage the cover sheet list through the CPRS GUI.

```
Select CPRS Reminder Configuration Menus Option: CS  CPRS Cover Sheet Reminder List

Clinical Reminders for Search may be set for the following:

     1   User          USR    [choose from NEW PERSON]
     2   Location      LOC    [choose from HOSPITAL LOCATION]
     3   Service       SRV    [choose from SERVICE/SECTION]
     4   Division      DIV    [ISC SALT LAKE]
     5   System        SYS    [DEVCUR.ISC-SLC.VA.GOV]

Enter selection: 1  User   NEW PERSON
Select NEW PERSON NAME: CRPROVIDER,ONE       jg

-------- Setting Clinical Reminders for Search  for User: CRPROVIDER,ONE --------
Select Display Sequence: ?

     Display Sequence                     Value
     ----------------                     -----
     1                                    VA-DIABETIC FOOT CARE ED.
     2                                    VA-TOBACCO EDUCATION
     5                                    VA-*PNEUMOCOCCAL VACCINE
     10                                   VA-INFLUENZA VACCINE
     15                                   VA-*BREAST CANCER SCREEN
     25                                   TOBACCO USE SCREEN
     30                                   VA-*CHOLESTEROL SCREEN (M)
     35                                   VA-*COLORECTAL CANCER SCREEN (FOBT)
     40                                   VA-*HYPERTENSION SCREEN

Select Display Sequence: 20
Display Sequence: 20// <Enter>   20
Clinical Reminder:  MENTAL HEALTH TESTS
Select Display Sequence: <Enter>
```

New Reminder Parameters - Edit Cover Sheet Reminder List

This option lets you set the parameter ORQQPX NEW REMINDER PARAMS for editing cover sheet reminders. **If this option is set to YES, you won't use the option CPRS Cover Sheet Reminder List.**

New Reminder Parameters Example

```
Select CPRS Reminder Configuration Option: NP  New Reminder Parameters

Use New Reminder Parameters may be set for the following:
     1   User          USR    [choose from NEW PERSON]
     2   Service       SRV    [choose from SERVICE/SECTION]
     3   Division      DIV    [choose from INSTITUTION]
     4   System        SYS    [DEVCUR.ISC-SLC.VA.GOV]
     5   Package       PKG    [ORDER ENTRY/RESULTS REPORTING]

Enter selection: 1  User   NEW PERSON
Select NEW PERSON NAME: CRPROVIDER,ONE    OC

--------- Setting Use New Reminder Parameters  for User: CRPROVIDER,ONE ---------

USE NEW REMINDER PARAMS: YES
```

There are two possible cover sheet lists for a user, one when ORQQPX NEW REMINDER PARAMS is "NO" and one when it is "YES." Determining the value of ORQQPX NEW REMINDER PARAMS for a user is not always a straightforward exercise. For a basic understanding of how parameters work in CPRS, see the CPRS Technical Manual or Kernel Toolkit documentation.

The precedence for ORQQPX NEW REMINDER PARAMS is shown in the above example.

- If it is defined at the User level, then that takes precedence.
- If is not defined at the User level, then a check is made at the Service level.
- If it is not defined at the Service level, then a check is made at the Division level, and so on until a value is determined.
- If the checking proceeds all the way to the Package level and nothing is defined at that level, then it defaults to "NO."

There are two kinds of users with respect to the management of cover sheet lists.

- Regular users
- Reminder managers

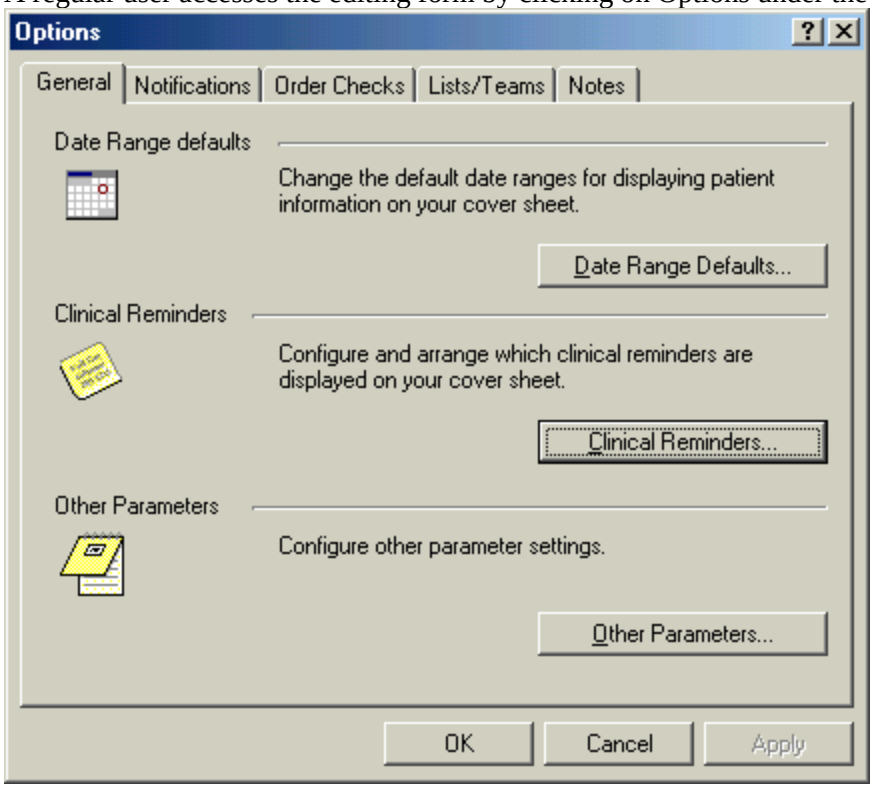
A reminder manager is anyone who has PXRM MANAGERS MENU as a primary or secondary menu option. A regular user can only edit their own cover sheet list, while a reminder manager can edit and manage cover sheet lists at all levels.

We recommend that ORQQPX NEW REMINDER PARAMS be set to "YES" for all users, because of the enhanced functionality that it makes available.
It is possible that a site may choose to use the old cover sheet list functionality, so we will start with a discussion of how things work when ORQQPX NEW REMINDER PARAMS is "NO."

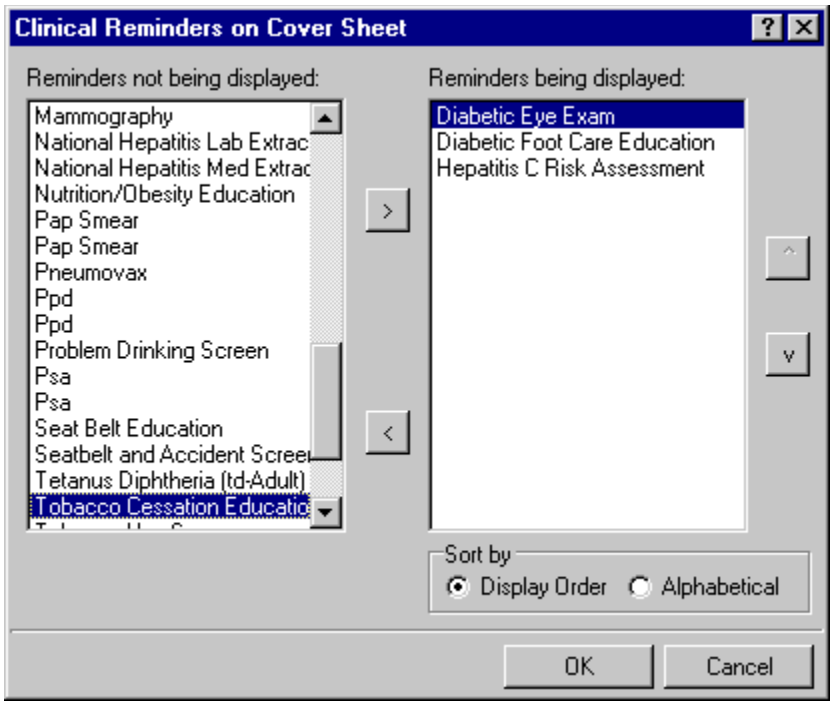
If your site is using the new cover sheet list functionality, then you can skip the following section.

ORQQPX NEW REMINDER PARAM set to "NO"

A regular user accesses the editing form by clicking on Options under the tools menu



Then click on Clinical Reminders to get to the editing form.



Highlight an item in the **Reminders not being displayed** field and then click the Add arrow ">" to add it to the **Reminders being displayed** field. You may hold down the Control key and select more than one reminder at a time. When you have all of the desired reminders in the **Reminders being displayed** field, you may highlight a reminder and use the up and down buttons on the right side of the dialog to change the order in which the reminders will be displayed on the Cover Sheet.

Sort by
Select Display Order to display the reminders in the order that you choose. Click Alphabetical to have the reminders displayed in alphabetic order.

This list is the list defined at the user level and takes precedence over any lists defined at higher levels, i.e. Location, Service, Division, System, or Package. A regular user cannot edit the list at any of these higher levels. A reminder manager can edit the list at these higher levels through the CPRS Cover Sheet Reminder List (CS) option described above (page 312).

ORQQPX NEW REMINDER PARAM set to "YES"

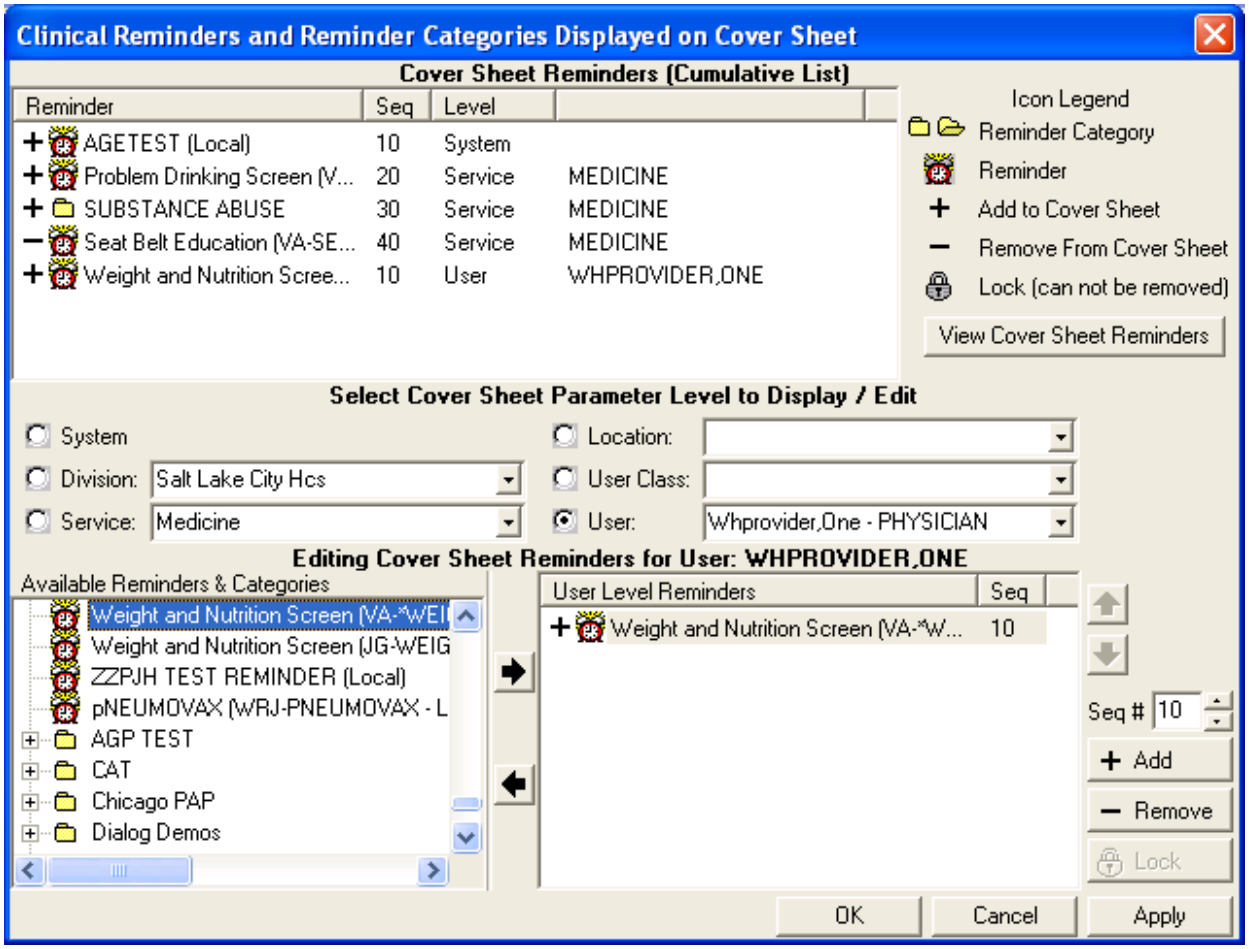
The new type of cover sheet list provides a great deal of flexibility, allowing the reminder manager to build lists at the User, User Class, Location, Service, Division, and System levels. Note that these levels are not exactly the same as with the old type of list, where they were User, Location, Service, Division, and Package.

An important distinction between the new type of list and the old type is the new list is cumulative and removable. For example, if a list is defined at the system level, reminders can be added to or removed from the list at the User level. There may be certain reminders that should be on all users' coversheet lists and these can be locked by the reminder manager.

The reminder manager accesses this functionality by clicking on the reminder button next to the CWAD button in the upper right hand corner of the CPRS GUI.

Click on Action then click on Edit Cover Sheet Reminder List.

Edit Cover Sheet Reminder List



This reminder manager form provides very extensive cover sheet list management capabilities. It consists mainly of three large list areas.

- Cover Sheet Reminders (Cumulative List) displays selected information on the Reminders that will be displayed on the Cover Sheet.
- Available Reminders & Categories lists all available Reminders and serves as a selection list.
- User Level Reminders displays the Reminders that have been added to or removed from the cumulative list.

You may sort the Reminders in *Cover Sheet Reminders (Cumulative List)* by clicking on any of the column headers. Click on the Seq (Sequence) column header to view the Reminders in the order in which they will be displayed on your cover sheet.

Icon Legend

An icon legend is displayed to the right of *Cover Sheet Reminders (Cumulative List)*.

- Folder icon represents a group of reminders
- Red alarm clock represents an individual reminder.
- Plus sign in the first column means a reminder has been added to the list
- Minus sign in the first column means a reminder has been removed from the list

- Padlock icon means you can't remove reminder (mandatory)

Cover Sheet Reminders (Cumulative List)

The Level column of the Cover Sheet Reminders (Cumulative List) field displays the originating authority of the Reminder, which can include System, Division, Location, User Class, and User. Reminders on this list that display a small gray padlock icon at the beginning of the line cannot be removed. These Reminders are mandatory. The Seq (Sequence) column defines the order in which the Reminders will be displayed on the Cover Sheet. If there are two or more Reminders with the same sequence number, the Reminders are listed by level (System, Division, Service, Location, User class, User).

Available Reminders & Categories

This area displays all of the Reminders and Categories available to the user. Categories are groups of related reminders that can be added as a group. Individual reminders within a category can be removed from the User Level Reminders field. Highlight a Reminder or Category from the field and click the right arrow to add them to the User Level Reminders field.

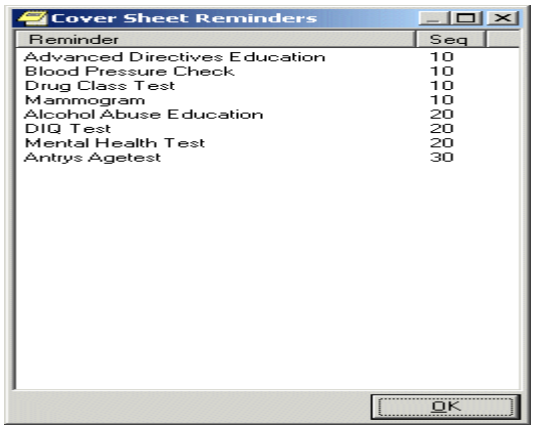
Select Cover Sheet Parameter Level to Display / Edit

This section has radio buttons for System, Division, Service, Location, User Class, and User. When one of the radio buttons is clicked, the list of reminders included at that parameter level appears in the box on the lower right-hand side of the form. You can then perform any of the following editing actions:

- To add a reminder, highlight the desired reminder in the Available Reminders & Categories field and click the right arrow button.
- To delete a reminder, highlight the reminder and click the left arrow.
- To make a reminder mandatory, select a reminder and then click on the Lock button.
- To make a mandatory reminder no longer mandatory, click on either the Add or Remove buttons, depending on if you want it to remain on the list or be removed.
- To determine the order in which the reminders will be displayed on the Cover Sheet, change the reminder's Sequence number. To do this click on the reminder and then change its sequence number in the sequence number box.

View Cover Sheet Reminders

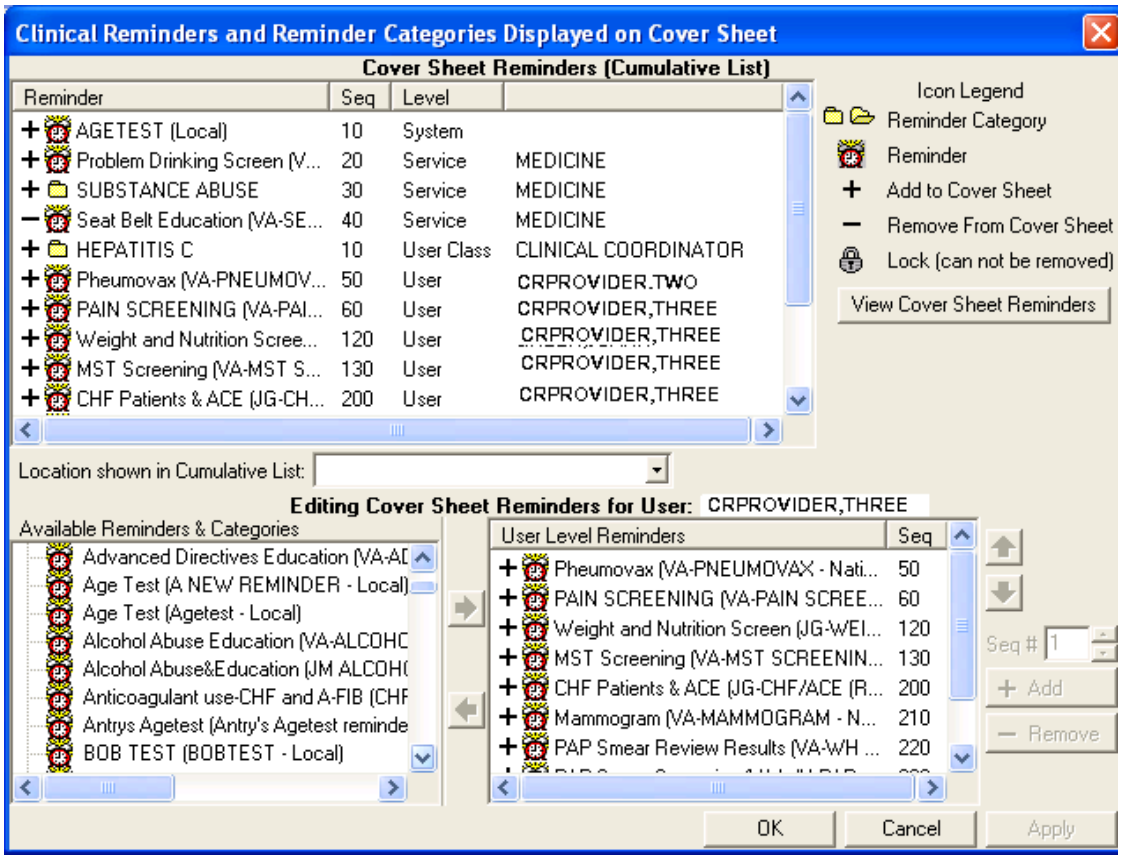
Since the cover sheet list is cumulative and removable, it is not always easy to determine exactly which reminders will be on a user's cover sheet list. Clicking on the **View Cover Sheet Reminders** button will display the final list for the user that has been selected at the User parameter level.



User level Cover Sheet Reminder Screen

A user level editing form is also available by clicking on the Tools menu, then options, then Clinical Reminders. This is the same sequence as shown in the previous section for getting to the user editing form.

This form lets the user add or remove reminders (with the exception of locked reminders) to their cover sheet list. The functionality is basically the same as that described above.



Setting User and System Levels

The following Forum dialog might clarify some issues about setting levels:

Subj: CPRS COVERSHEET REMINDERS SETUP THRU GUI

We are having some problems with appropriate clinical reminders showing on coversheet when set up at SYSTEM or SERVICE level in GUI. Reminders set for SYSTEM are also showing for a user in a service that is also set up (EX: Medical). In other words, all of the reminders set for Medical Service show on coversheet as well as those set under SYSTEM. When I completely remove the GUI setup for SYSTEM, users no longer have those clinical reminders show on coversheet. I need the SYSTEM setting for those not set up in a service.
Per NOIS CAH-1003-31162, site had a similar problem and resolution stated there was a specific hierarchy (that seems to be different from others). I thought that if there was something set at USER level, that would take precedence over SERVICE or SYSTEM, but that doesn't seem to be true in this case.

MY QUESTION IS THIS: Can someone explain what the hierarchy is when setting clinical reminders in GUI vs VISTA. Should we only have setup in one or the other? I cannot find anything on this in documentation.

1. The hierarchy for reminders displaying on the GUI cover sheet is cumulative, so there is really no hierarchy, only the ability to add to the list at different levels. System displays to all users, division adds to system for users in that division, service adds to division and/or system for users in that service, etc.
   There used to be a hierarchy but that changed some time ago.
2. Check out HUN-0701-20018 RESTRICTED REMINDERS
   You can have it both ways - Cumulative and Restricted.
3. You just have to remember you have two different set-ups if you add or subtract reminders.
4. You have to have the parameter for using the new reminder parameters set to yes to take advantage of this:

```
Select CPRS Reminder Configuration Option: NP  New Reminder Parameters

Use New Reminder Parameters may be set for the following:

     1   User          USR     [choose from NEW PERSON]
     2   Service       SRV    [choose from SERVICE/SECTION]
     3   Division      DIV    [choose from INSTITUTION]
     4   System        SYS    [MARTINEZ.MED.VA.GOV]

Enter selection: 4  System   MARTINEZ.MED.VA.GOV

-- Setting Use New Reminder Parameters  for System: XXXVAMC.MED.VA.GOV ----
USE NEW REMINDER PARAMS: YES//
HUN-0701-20018     RESTRICTED REMINDERS
Description:
```

Q Our mental health providers should only see certain reminders due on a patient. I have them set under service to see:

```
Setting ORQQPX COVER SHEET REMINDERS  for Service: MENTAL HEALTH ------
Select Display Sequence: ?

     Display Sequence                      Value
```

```
     ----------------                    -----
     10                                  LR1006
     20                                  LR581016
     30                                  LR581011
     40                                  LR581002
     50                                  LR581007
```

They are seeing all reminders set at SYSTEM level + the additional reminders. Is something set up wrong or is this now cumulative? Is there a way so that they will only see the reminders relative to their service?

```
(12) Jul 05, 2001@09:43:26        CRSUPPORT,ONE
Well, we took a look at the parameters and the following...
Select  CPRS Reminder Configuration Option: np  New Reminder Parameters

Use New Reminder Parameters may be set for the following:

     1   User          USR    [choose from NEW PERSON]
     2   Service       SRV    [choose from SERVICE/SECTION]
     3   Division      DIV    [VAMC ALBANY PIA]
     4   System        SYS    [CPR.ISC-ALBANY.VA.GOV]
     5   Package       PKG    [ORDER ENTRY/RESULTS REPORTING]

Enter selection: 4  System   CPR.ISC-ALBANY.VA.GOV

-- Setting Use New Reminder Parameters  for System: CPR.ISC-ALBANY.VA.GOV ---
USE NEW REMINDER PARAMS: NO//
```

These can be set to YES or NO at any of the levels. I suggested they set the Mental Health and Optometry service to NO. Hopefully, now they will only see their DUE reminders and not everyone else's.
The other alternative is to set the ORQQPX REMINDER FOLDERS to Other Categories for these services. Then within the Other Categories, set up specific category names for the service's specific reminders. This would group the reminders together.

Mental Health Dialogs Active

This option lets you modify the "Mental Health Active" CPRS parameter. You can activate mental health dialogs for reminder resolution processing at a user, service, division, or system level. When activated, mental health tests in a reminder dialog can be performed.

```
Select CPRS Reminder Configuration Option: MH  Mental Health Dialogs Active
Mental Health Active may be set for the following:

     1   User          USR    [choose from NEW PERSON]
     2   Service       SRV    [choose from SERVICE/SECTION]
     3   Division      DIV    [choose from INSTITUTION]
     4   System        SYS    [DEVCUR.ISC-SLC.VA.GOV]

Enter selection: 1  User   NEW PERSON
Select NEW PERSON NAME: CRPROVIDER,SIX     sc

---------- Setting Mental Health Active  for User: CRPROVIDER,SIX -------
MENTAL HEALTH ACTIVE: YES// <Enter>

   CA     Add/Edit Reminder Categories
   CL     CPRS Lookup Categories
   CS     CPRS Cover Sheet Reminder List
   MH     Mental Health Dialogs Active
   PN     Progress Note Headers
   RA     Reminder GUI Resolution Active
   DL     Default Outside Location
   PT     Position Reminder Text at Cursor
   NP     New Reminder Parameters

Select CPRS Reminder Configuration Option: <Enter>
```

Progress Note Headers

This option lets you modify the header inserted into the progress note when processing a reminder. It can be modified for user, location, or service. The default header is Clinical Reminders Activity.

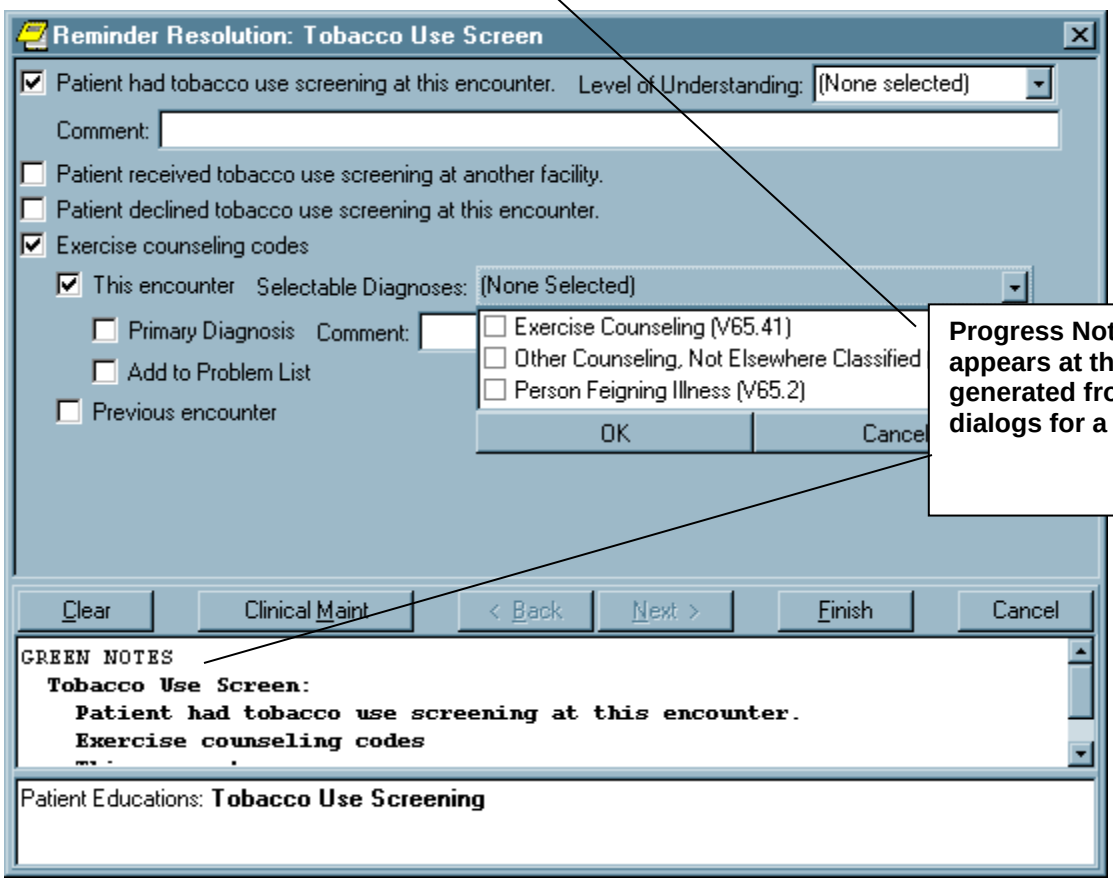
```
Select CPRS Reminder Configuration Menus Option: PN  Progress Note Headers
Progress Note Header may be set for the following:
     1   User          USR    [choose from NEW PERSON]
     2   Location      LOC    [choose from HOSPITAL LOCATION]
     3   Service       SRV    [choose from SERVICE/SECTION]
     4   Division      DIV    [REGION 5]
     5   System        SYS    [DEVCUR.ISC-SLC.VA.GOV]
     6   Package       PKG    [CLINICAL REMINDERS]

Enter selection: 1  User   NEW PERSON
Select NEW PERSON NAME: CRPROVIDER,ONE     jg

------------ Setting Progress Note Header  for User: CRPROVIDER,ONE -------
PROGRESS NOTE HEADER: ?

This response can be free text.

PROGRESS NOTE HEADER: GREEN NOTES
```



Progress Note Header text appears at the top of all text generated from reminder dialogs for a given note.

Reminder GUI Resolution Active

This option lets you activate GUI reminder resolution processing at a user, service, division, or system level. When activated, a reminders drawer is available on the notes tab for selecting and processing reminders.

```
Select CPRS Reminder Configuration Menus Option: RA  Reminder GUI Resolution Active

Reminders Active may be set for the following:

     1   User          USR    [choose from NEW PERSON]
     2   Service       SRV    [choose from SERVICE/SECTION]
     3   Division      DIV    [choose from INSTITUTION]
     4   System        SYS    [DEVCUR.ISC-SLC.VA.GOV]

Enter selection: 1  User   NEW PERSON
Select NEW PERSON NAME:  CRPROVIDER,ONE     jg

-------------- Setting Reminders Active  for User: CRPROVIDER,ONE --------------
REMINDERS ACTIVE: YES// <Enter>
```

Default Outside Location

Within portions of a reminder dialog where historical encounter information is entered, a new parameter, ORQQPX DEFAULT LOCATIONS, can be set up to define default outside locations for the PXRM OUTSIDE LOCATION prompt. Each free-text entry in this multi-valued parameter will appear at the top of the list of locations in the drop-down list in CPRS. If a number is entered as the free-text value, CPRS will attempt to locate an entry in the Institution file (#4) with the same internal entry number.

Example

```
Select CPRS Reminder Configuration Option: dl  Default Outside Location
Default Outside Locations may be set for the following:
     1   User          USR    [choose from NEW PERSON]
     3   Service       SRV    [choose from SERVICE/SECTION]
     4   Division      DIV    [choose from INSTITUTION]
     5   System        SYS    [DEVCUR.ISC-SLC.VA.GOV]
     6   Package       PKG    [ORDER ENTRY/RESULTS REPORTING]
Enter selection: 1   User   NEW PERSON
Select NEW PERSON NAME: CRPROVIDER,TWO     TC
---------- Setting Default Outside Locations  for User: CRPROVIDER,ONE ----------
Select Display Sequence: 1

Display Sequence: 1//    1
Outside Location (Text or Pointer): 663
Select Display Sequence: 2
Are you adding 2 as a new Display Sequence? Yes// <Enter>  YES

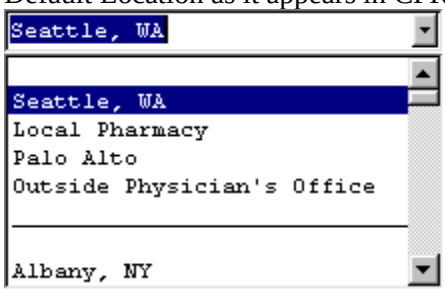
Display Sequence: 2// <Enter>
Outside Location (Text or Pointer): Local Pharmacy

Select Display Sequence: 3
Are you adding 3 as a new Display Sequence? Yes// <Enter>  YES
Display Sequence: 3// <Enter>    3
Outside Location (Text or Pointer): 640

Select Display Sequence: 4
```

```
Are you adding 4 as a new Display Sequence? Yes// <Enter>  YES
Display Sequence: 4// <Enter>   4
Outside Location (Text or Pointer): Outside Physician's Office
Select Display Sequence: ???
     Display Sequence                    Value
     ----------------                    -----
     1                                   663
     2                                   Local Pharmacy
     3                                   640
     4                                   Outside Physician's Office
```

Default Location as it appears in CPRS:



Note that Seattle, WA and Palo Alto are entries in the institution file with internal entry numbers of 663 and 640, respectively.

Position Reminder Text at Cursor

The default behavior of reminder dialogs is to insert any text generated by the reminder dialog at the bottom of the current note. When the ORQQPX REMINDER TEXT AT CURSOR parameter is set, text will be inserted at the current cursor location.

```
Select CPRS Reminder Configuration Option: PT  Position Reminder Text at Cursor

Position Reminder Text at Cursor may be set for the following:

     1   User          USR    [choose from NEW PERSON]
     3   Service       SRV    [choose from SERVICE/SECTION]
     4   Division      DIV    [choose from INSTITUTION]
     5   System        SYS    [DEVCUR.ISC-SLC.VA.GOV]

Enter selection: 1  User   NEW PERSON
Select NEW PERSON NAME: <Enter>    CRPROVIDER,ONE    OC

------ Setting Position Reminder Text at Cursor  for User: CRPROVIDER,ONE ------
REMINDER TEXT AT CURSOR: ?

Insert Reminder Dialog Generated Text at Cursor Location.

     Select one of the following:

          0         NO
          1         YES


REMINDER TEXT AT CURSOR: YES
```

TIU Template Reminder Dialog Parameter

This option lets users edit the TIU TEMPLATE REMINDER DIALOG parameter.

```
Select CPRS Reminder Configuration Option: tiu  TIU Template Reminder Dialog Parameter

Reminder Dialogs allowed as Templates may be set for the following:

     1   User          USR    [choose from NEW PERSON]
     3   Service       SRV    [choose from SERVICE/SECTION]
     4   Division      DIV    [choose from INSTITUTION]
     5   System        SYS    [DVF.FO-SLC.MED.VA.GOV]

Enter selection: 1  User   NEW PERSON
Select NEW PERSON NAME:    CRPROVIDER,TWO     tc

---- Setting Reminder Dialogs allowed as Templates  for User: CRCOORDINATOR,ONE ----
Select Display Sequence: ??

Contains Reminder Dialogs that are allowed to be used as TIU Templates.
This parameter is different than most others in that each level is
cumulative, so all Reminder Dialogs at the System, Division, Service
and User levels can be used in Templates.


Select Display Sequence: 1
Are you adding 1 as a new Display Sequence? Yes//   YES

Display Sequence: 1//    1
Clinical Reminder Dialog:  JG DIABETIC EYE EXAM     reminder dialog     LOCAL
Select Display Sequence:
```

GEC Status Check Active

A GEC Status Indicator may be added to the CPRS GUI Tools drop-down menu, to be viewed at any time and used to close the referral if needed. It may be set at the User or Team level through this option. See Appendix C for more information about GEC Referral and GEC Reports.

```
Select CPRS Reminder Configuration Option: GEC  GEC Status Check Active

Gec Status Check may be set for the following:

     1   User          USR    [choose from NEW PERSON]
     2   Team          TEA    [choose from TEAM]

Enter selection: 1  User   NEW PERSON
Select NEW PERSON NAME:   CRPROVIDER,ONE     OC

-------------- Setting Gec Status Check  for User: CRPROVIDER,ONE -------------
GEC Status Check: YES// <Enter>
```

WH Print Now Active

The "Print Now" button on the Women's Health review reminders is optional. A parameter can be set (at the system level) to allow the "Print Now" button to be added to the dialog. By default, "Print Now" is turned off: the CPRS Reminder Configuration Option called WH Print Now Active is released with a Value of NO. If the value is changed to YES, the "Print Now" button will appear on the dialog. Whether the "Print Now" button is added to the dialog or not, the default will always be that the letter is queued to the WH package.

The text in the progress note will be one of the following:

Print Now Active/**Yes**: Letter queued to print at Device Name on finish Date/Time
Print Now Active/**No**: Letter queued to WH package Date/Time

```
Select CPRS Reminder Configuration Option: WH  WH Print Now Active

WH Print Now Option Active may be set for the following:

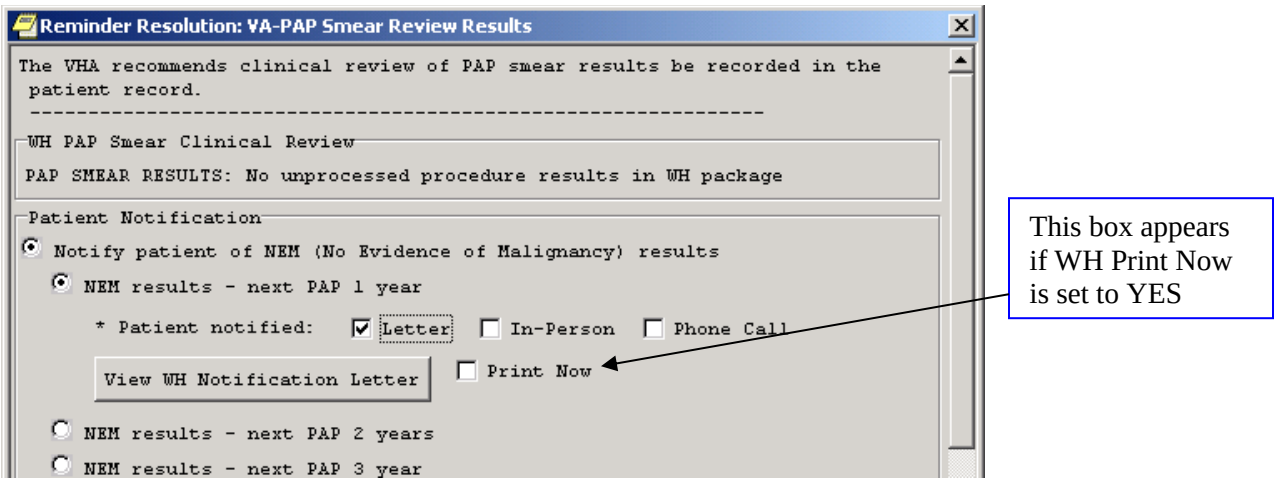
     1   System        SYS    [DVF.FO-SLC.MED.VA.GOV]
     2   Division      DIV    [choose from INSTITUTION]
     3   Location      LOC    [choose from HOSPITAL LOCATION]
     4   Service       SRV    [choose from SERVICE/SECTION]
     5   Team (OE/RR)  OTL    [choose from OE/RR LIST]
     6   User          USR    [choose from NEW PERSON]

Enter selection: 6  User   NEW PERSON
Select NEW PERSON NAME:  CRPROVIDER,ONE     OC

--------- Setting WH Print Now Option Active  for User: CRPROVIDER,ONE --------
Value: ?

Enter either 'Y' or 'N'.

Value: YES
```



Link Reminder Dialog to Template
Select Dialog Definition: VA-DEPRESSION SCREEN
Enter template name: Depression Screen Template
Link template to Document Title? YES ← **Select No to not attach to a note title and link to a new entry in shared templates**
Select Document Definition: C&P MENTAL DISORDERS TITLE
Template Depression Screen Template created
Template Depression Screen Template added to Shared Folder.
Template Depression Screen Template link to note title C&P MENTAL DISORDERS

CPRS Coversheet Time Test

Select User: CPRSPROVIDER,THREE TR TEST PHYSICIAN

Select Location 20 MINUTE

Browse or Print? B// Print

DEVICE: HOME// ;;99999 PSUEDO-TERMINAL

Total time to build reminder list: 0 seconds

Reminder: DIABETES CREATININE (IEN=33)

Reminder CPU evaluation time: 1 milliseconds

Reminder wall clock evaluation time: 0 seconds

Total number of reminders evaluated: 20

Elapsed wall clock time: 0 seconds

Total CPU coversheet evaluation time: 30 milliseconds

Longest CPU evaluation time

Reminder: VA-IRAQ & AFGHAN POST-DEPLOY SCREEN (IEN=568022)

Reminder CPU evaluation time: 7 milliseconds

Longest wall clock evaluation time

Reminder: DIABETES CREATININE (IEN=33)

Reminder wall clock evaluation time: 0 seconds

Reminder Reports

The Reports menu contains Clinical Reminder reports that Clinical Reminders Managers and/or clinicians can use for summary and detailed level information about patients' due and satisfied reminders. This menu also contains reports that clinical coordinators can use to review extracted data, based on reminder definitions.

The EPI extract finding list and total options are specific to the Hepatitis C Extract project. The extracted data is based on the following reminders: VA-HEP C RISK ASSESSMENT, VA-NATIONAL EPI LAB EXTRACT, and VA-NATIONAL EPI RX EXTRACT.

The Extract QUERI totals option reports reminder and finding totals from extract summaries created by automatic QUERI extract runs.

The GEC Referral Report option is used to generate GEC Reports. Clinical Reminders V.2.0 includes a nationally standardized computer instrument called VA Geriatric Extended Care (GEC), which replaces paper forms for evaluating Veterans for extended care needs.

Changes made by PXRM*2*26
Finding Usage Report
The finding multiple in file #801.41 had the pointer to file #811.2 defined as Taxonomy instead of Reminder Taxonomy. The caused the finding usage report to have selections for Reminder Taxonomy and Taxonomy. It was renamed to Reminder Taxonomy and the problem was eliminated.

The Finding Usage Report did not have the ability to search for reminder definitions and reminder terms that are used in a Reminder List Rule. That ability was added. There was a bug in the Order Check term search that was corrected. Also, the ability to search Order Check rules for definitions was added. Previously, when the report was run, the user had the option to have it delivered as a MailMan message or have it written to the screen. That was changed, so that the user has the option to browse or print it, and then has the option to have it delivered as a MailMan message.

Reminder Reports menu

Syn.	Display Name	Option Name	Description
D	Reminders Due Report	PXRM REMINDERS DUE	For a selected patient and reminder(s), the report lists any reminders that are currently due.
DRU	Reminders Due Report (User)	PXRM REMINDERS DUE (USER)	Reminders Due Reports may be run from any report template allocated to a specific user.
DRT	User Report Templates	PXRM REPORT TEMPLATE (USER)	This option allows you to modify the PXRM REPORT TEMPLATE (USER) parameter. This parameter defines which reminder report templates are available to a restricted user.
EPT	Extract EPI Totals	PXRM EXTRACT EPI TOTALS	This option is used to summarize total counts for each type of finding item that was extracted for the target date range of the LREPI extract option run.
EPF	Extract EPI List by Finding and SSN	PXRM EXTRACT EPI FINDING LIST	This option allows you to print extract results. Extracted data is listed by finding item and social security number.

EQT	Extract Queri Totals	PXRM EXTRACT QUERI TOTALS	This option prints reminder and finding totals for extract summaries created by automatic extracts.
REV	Review Date Report	PXRM REVIEW DATES	The Review Date Report may be run for the following files: Computed Findings, Reminder Definition, Reminder Dialogs, and Reminder Taxonomies. A cutoff date may be entered and all review dates prior or equal to that date in the file selected are reported.
FUR	Finding Usage Report	PXRM FINDING USAGE REPORT	This provides a report of where selected Clinical Reminder findings are used in reminder definitions, reminder terms, and reminder dialogs.
GEC	GEC Referral Report	PXRM GEC REFERRAL REPORT	This is the option that is used to generate GEC Reports. GEC (Geriatrics Extended Care) are used for referral of geriatric patients to receive further care.

Multiple Uses for Reminder Reports

Reminder reports can be used for a variety of purposes:

Patient care:
- Future Appointments
- Which patients need an intervention?

Past Visits
- Which patients missed an intervention?
- Action Lists

Inpatients
- Which patients need an intervention prior to discharge?

Identify patients for case management

- Diabetic patients with poor control
- Identify patients with incomplete problem lists
- Patients with (+) Hep C test but no PL entry
- Identify high risk patients; e.g., on warfarin, amiodarone, etc.
- Track annual PPD due (Employee Health)

Quality Improvement

- Provide feedback (team/provider)
- Identify *(and share)* best practices
- Identify under-performers *(develop action plan)*
- Track performance
- Implementation of new reminders or new processes
- Identify process issues early (mismatch of workload growth versus staffing)
- Provide data for external review (JCAHO)

Management Tool

- Aggregate reports
- Facility / Service
- Team (primary care team)
- Clinic / Ward
- Provider-specific reports
- Primary Care Provider
- Encounter location
- If one provider per clinic location

Employee Performance & Evaluation

- Re-credentialing data for providers
- Annual Proficiency - Nursing
- Support for Special Advancement
- Support for Bonuses
- Employee Rewards & Recognition

How date range searching works

- Any of the FileMan date formats are acceptable
  - May 14, 2003, T-1Y, T-2M, T-3D
  - Beginning date default is beginning of data
  - Ending date default is today

As noted above, you can use dates like T-3M for the beginning date/time and T for the ending date/time. Since T stands for today, this tells Clinical Reminders to search between today and 3 months ago for results. When you run a reminder report, one of the prompts is for EFFECTIVE DUE DATE, and when a reminder report is run, “today” becomes whatever date is input in response to the EFFECTIVE DUE DATE prompt.

For example, if the beginning date/time was T-3M and the ending date/time was T and the effective due date was April 1, 2004, Clinical Reminders would search for results between January 1, 2004 and April 1, 2004. If you use an actual, as opposed to a symbolic, date/time, then it is never affected by what is input for EFFECTIVE DUE DATE. Each finding in the definition can have different values for beginning date/time and ending date/time, so you can search in different date ranges, as appropriate.

The key thing to remember is that “T” in a symbolic date is set to the value input for EFFECTIVE DUE DATE.

Reminders Due Report option

For a selected reminder, the report lists any reminders that are currently due.

Available report options are:

- Individual Patient
- Reminder Patient List
- Hospital Location (all patients with encounters)
- OE/RR Team (all patients in team)
- PCMM Provider (all practitioner patients)
- PCMM Team (all patients in team)

A SUMMARY report displays totals of how many patients of those selected have reminders due.

Alternatively, a DETAILED report displays patients with reminders due in alphabetical order. The report displays for each patient the date the reminder is due, the date the reminder was last done, and next appointment date. The detailed report can also list all future appointments.

A DETAILED report may be saved as a local patient list.

Example

```
Select Reminder Managers Menu Option: rp  Reminder Reports

   RD     Reminders Due Report
   RDU    Reminders Due Report (User)
   RDT    User Report Templates
   EPT    Extract EPI Totals
   EPF    Extract EPI List by Finding and SSN
   EQT    Extract QUERI Totals
   GEC    GEC Referral Report
   REV    Review Date Report
   FUR    Finding Usage Report

Select Reminder Reports Option: Rd  Reminders Due Report

Select an existing REPORT TEMPLATE or return to continue:

     Select one of the following:

          I         Individual Patient
          R         Reminder Patient List
          L         Location
          O         OE/RR Team
          P         PCMM Provider
          T         PCMM Team

PATIENT SAMPLE: L// Select Reminder Reports Option: d  Reminders Due Report

Select an existing REPORT TEMPLATE or return to continue:

     Select one of the following:

          I         Individual Patient
          R         Reminder Patient List
          L         Location
          O         OE/RR Team
```

```
          P         PCMM Provider
          T         PCMM Team

PATIENT SAMPLE: L// o  OE/RR Team

Select TEAM: CRPROVIDER1         teamqa
Select another TEAM:

Enter EFFECTIVE DUE DATE: Aug 25, 2009//   (AUG 25, 2009)

     Select one of the following:

          D         Detailed
          S         Summary

TYPE OF REPORT: S// ummary

     Select one of the following:

          I         Individual Teams only
          R         Individual Teams plus Totals by Facility
          T         Totals by Facility only

REPORT TOTALS: I// r  Individual Teams plus Totals by Facility

Print locations with no patients? YES//

Print percentages with the report output? NO// y  YES

Select a REMINDER CATEGORY: CRWH REPORTS
         ...OK? Yes//   (Yes)

Select another REMINDER CATEGORY: CR TEST
         ...OK? Yes//   (Yes)

Select another REMINDER CATEGORY:

Select individual REMINDER:
VA-WH PAP SMEAR SCREENING     NATIONAL
Select another REMINDER:

Create a new report template: N// y  YES

STORE REPORT LOGIC IN TEMPLATE NAME: CR-wh
  Are you adding 'jg-wh' as a new REMINDER REPORT TEMPLATE (the 109TH)? No// y
  (Yes)
   REMINDER REPORT TEMPLATE REPORT TITLE: CR-wh
Changes to template 'CR-wh' have been saved

Print delimited output only: N// O

Include deceased patients on the list? N// O

Include test patients on the list? N// y  YES

Save due patients to a patient list: N// O

DEVICE: HOME//   HOME


Collecting patients from OE/RR List -

Evaluating Reminders /
```

```
Evaluating reminders /
Elapsed time for reminder evaluation: 4 secs

                                                  Aug 25, 2009 9:42:34 am  Page 1

                 Clinical Reminders Due Report - Summary Report
          Report Title:         cr1-wh
          Patient Sample:       OE/RR Team
          OE/RR Team:           teamqa


          Reminder Category:    CRWH REPORTS
          Individual Reminder:  WH SCREEN
                      VA-MAMMOGRAM
                      VA-WH PAP SMEAR SCREENING
          Effective Due Date:   8/25/2009
          Date run:             8/25/2009 9:38:35 am
          Template Name:        CR-wh
          Summary report:       Individual Teams plus Totals by Facility
_____________________________________________________________________________


Enter RETURN to continue or '^' to exit:



                                                  Aug 25, 2009 9:42:37 am  Page 2

                 Clinical Reminders Due Report - Summary Report
Reminders due for TEAM_1A+2B for 8/25/2009
                    # Patients with Reminders
                    Applicable     Due       %Appl   %Due   %Done
                    ----------     ---       -----   ----   -----
1    MST Screening
                            37      31          87     84      16
2    Breast Cancer Screen
                             9       9          21    100       0
3    Breast Cancer Screen
                             9       9          21    100       0
4    Mammogram
                             9       9          21    100       0
5    ITC 2001 Mammogram Example
                             9       9          21    100       0
6    CR MAM
                             0       0           0      0       0
7    NONVA test DFN=37
                            43      43         100    100       0
8    Pap Smear-Screening
                            13      13          31    100       0
9    Pap Smear-Review of Results
                             6       2          14     34      66
10   Pap Smear-F/U of Abnormal Results
                             0       0           0      0       0
11   WH SCREEN
                            41      41          96    100       0
12   PAP Smear Screening
                            13      13          31    100       0

Report run on 43 patients.

End of the report. Press ENTER/RETURN to continue...
```

Reminders Due Report – Patient List Template

```
Select Reminder Reports Option: d  Reminders Due Report

Select an existing REPORT TEMPLATE or return to continue: jgtest       HEP C
         ...OK? Yes//   (Yes)


          Report Title:         HEP C
          Report Type:          Summary Report
          Patient Sample:       Location
          Facility:             SALT LAKE CITY HCS
          Location:             All Outpatient Locations (Prior Encounters)
          Print Locations without Patients:YES
          Print percentages with the output:NO
          Reminder:             1  LABTEST
                                2  VA-NATIONAL EPI LAB EXTRACT
                                3  VA-NATIONAL EPI RX EXTRACT
          Template Name:        jgtest
          Date last run:        AUG 04, 2001@18:39:04
          Service categories:   A,I
             A - AMBULATORY
             I - IN HOSPITAL

Enter ENCOUNTER BEGINNING DATE:  t-2Y

This must be a past date. For detailed help type ??.

Enter ENCOUNTER BEGINNING DATE:  T-3Y  (AUG 25, 2006)
Enter ENCOUNTER ENDING DATE: T  (AUG 25, 2009)

Enter EFFECTIVE DUE DATE: Aug 25, 2009//   (AUG 25, 2009)

     Select one of the following:

          I         Individual Locations only
          R         Individual Locations plus Totals by Facility
          T         Totals by Facility only

REPORT TOTALS: I// R  Individual Locations plus Totals by Facility

Print delimited output only: N// O

Include deceased patients on the list? N// O

Include test patients on the list? N// YES

Save due patients to a patient list: N// O

DEVICE: HOME//   HOME


Building hospital locations list -
Elapsed time for building hospital locations list: 0 secs

Building patient list /
Elapsed time for building patient list: 0 secs

Removing invalid encounter(s) /
Elapsed time for removing invalid encounter(s): 0 secs

Evaluating Reminders |
```

```
Evaluating reminders /
Elapsed time for reminder evaluation: 0 secs

                                                  Aug 25, 2009 12:36:04 pm  Page 1

                 Clinical Reminders Due Report - Summary Report
          Report Title:         HEP C
          Patient Sample:       Location
          Location:             All Outpatient Locations (Prior Encounters)
          Date Range:           8/25/2006 to 8/25/2009
          Effective Due Date:   8/25/2009
          Date run:             8/25/2009 12:34:40 pm
          Template Name:        jgtest
          Summary report:       Individual Locations plus Totals by Facility
          Service categories:   A,I
             A - AMBULATORY
             I - IN HOSPITAL
_____________________________________________________________________________


Enter RETURN to continue or '^' to exit:



                                                  Aug 25, 2009 12:36:08 pm  Page 2

                 Clinical Reminders Due Report - Summary Report
Facility: SALT LAKE CITY HCS  660
Reminders due 8/25/2009 - CARDIOLOGY for 8/25/2006 to 8/25/2009
                                                    # Patients with Reminders
                                                    Applicable         Due
                                                    ----------         ---
1    LABTEST                                                 3           3
2    National Hepatitis Lab Extract                          3           3
3    National Hepatitis Med Extract                          3           3

Report run on 3 patients.

Enter RETURN to continue or '^' to exit:



                                                  Aug 25, 2009 12:36:16 pm  Page 3

                 Clinical Reminders Due Report - Summary Report
Facility: SALT LAKE CITY HCS  660
Reminders due 8/25/2009 - TOTAL REPORT for 8/25/2006 to 8/25/2009
                                                    # Patients with Reminders
                                                    Applicable         Due
                                                    ----------         ---
1    LABTEST                                                 3           3
2    National Hepatitis Lab Extract                          3           3
3    National Hepatitis Med Extract                          3           3

Report run on 3 patients.

Report timing data:
 Elapsed time for building hospital locations list: 0 secs
 Elapsed time for building patient list: 0 secs
 Elapsed time for reminder evaluation: 0 secs
 Elapsed time for removing invalid encounter(s): 0 secs
```

```
End of the report. Press ENTER/RETURN to continue...
...
```

Reminders Due Report – Patient List

```
Select Reminder Managers Menu Option: RP  Reminder Reports

   RD     Reminders Due Report
   RDU    Reminders Due Report (User)
   RDT    User Report Templates
   EPT    Extract EPI Totals
   EPF    Extract EPI List by Finding and SSN
   EQT    Extract QUERI Totals
   GEC    GEC Referral Report
   REV    Review Date Report
   FUR    Finding Usage Report


Select Reminder Reports Option:  Reminders Due Report

Select an existing REPORT TEMPLATE or return to continue:

     Select one of the following:

          I         Individual Patient
          R         Reminder Patient List
          L         Location
          O         OE/RR Team
          P         PCMM Provider
          T         PCMM Team

PATIENT SAMPLE: L// r  Reminder Patient List

Select REMINDER PATIENT LIST:
  CRPROVIDER,ONE
Select another PATIENT LIST:

Enter EFFECTIVE DUE DATE: Aug 25, 2009//   (AUG 25, 2009)

     Select one of the following:

          D         Detailed
          S         Summary

TYPE OF REPORT: S// ummary

Print locations with no patients? YES//

Print percentages with the report output? NO//

Select a REMINDER CATEGORY:    AGP TEST
         ...OK? Yes//   (Yes)

Select another REMINDER CATEGORY: ??

: slc REMINDER CATEGORY
         ...OK? Yes//   (Yes)

Select another REMINDER CATEGORY: iRAQ_AFGHAN
         ...OK? Yes//   (Yes)
```

```
Select another REMINDER CATEGORY:

Select individual REMINDER:    VA-WH PAP SMEAR SCREENING     NATIONAL
Select another REMINDER: va-depRESSION SCREENING       NATIONAL
Select another REMINDER: VA-WH MAMMOGRAM SCREENING     NATIONAL
Select another REMINDER:

Create a new report template: N// O

Print delimited output only: N// O

Include deceased patients on the list? N// O

Include test patients on the list? N// y  YES

Save due patients to a patient list: N// O

DEVICE: HOME//   HOME


Collecting patients from Reminder Patient List /

Evaluating reminders /
Elapsed time for reminder evaluation: 6 secs

                                                 Aug 25, 2009 12:43:46 pm  Page 1

                 Clinical Reminders Due Report - Summary Report
          Patient Sample:       Patient List
          Patient List:         CRPROVIDER,ONE
          Reminder Category:    AGP TEST
          Individual Reminder:  VA-WH PAP SMEAR SCREENING
                      VA-DEPRESSION SCREENING
                      VA-WH MAMMOGRAM SCREENING
          Effective Due Date:   8/25/2009
          Date run:             8/25/2009 12:41:18 pm
_____________________________________________________________________________

Enter RETURN to continue or '^' to exit:

                                                 Aug 25, 2009 12:43:57 pm  Page 3

                 Clinical Reminders Due Report - Summary Report
Patient List: CRPROVIDER,ONE for 8/25/2009
                                                   # Patients with Reminders
                                                   Applicable         Due
                                                   ----------         ---
1    AGP ERROR                                              0           0
2    NONVA test DFN=37                                     14          14
3    Pap Smear-Screening                                    3           3
4    Pap Smear-Review of Results                            2           0
5    Pap Smear-F/U of Abnormal Results                      0           0
6    PAIN SCREENING                                         0           0
7    ITC Pneumovax                                         13          13
8    SLC Life style Education                               6           6
9    new reminder                                           0           0
10   Hepatitis C Risk Assessment                           14          12
11   Influenza Vaccine                                     12          12
12   Smoking Cessation Education                            4           4
13   Pheumovax                                             13          10
14   ITC 2001 diabetes example                              1           1
15   ITC 2001 Mammogram Example                             3           3
16   SLC Diabetic Foot Care Education                      14          14
```

```
17   Diabetic Eye Exam                                    14          14
18   SLC Cancer Screen                                     5           5
19   Ischemic HD/Post MI Follow Up                         0           0
20   Breast Exam                                           4           4
21   Advanced Directives Education                        14          13
22   LTC Oversight Visit                                  14          14
23   Weight and Nutrition Screen                          13          13
24   IHD Lipid Profile                                     2           2
25   EXCHANGE CHANGES                                      0           0
26   Tobacco Cessation Education                          11          11
27   JG TOBACCO USE SCREEN                                14          14
28   Problem Drinking Screen                              14          14
29   Weight and Nutrition Screen                          13          13
30   Alcohol Abuse Education                              14          14
31   Weight                                               14          14
32   Exercise Education                                   14          14
33   JG-Weight                                            14          14
34   Taxonomy Test                                        14          14
35   Patch5 VA-Pain Screening                             14          14
36   PAP Smear Review Results                              2           2
37   Iraq&Afghan Post-Deployment Screen                    1           1
38   PAP Smear Screening                                   3           3
39   Depression Screening                                 14          14
40   Mammogram Screening                                   2           2

Report run on 14 patients.

Report timing data:
 Elapsed time for reminder evaluation: 6 secs

End of the report. Press ENTER/RETURN to continue...
```

Extract EPI Totals

Extract EPI Total reports are generated each month by a Lab package LREPI run that processes the following national reminders related to Hepatitis C:

VA-NATIONAL EPI DB UPDATE
VA-NATIONAL EPI LAB EXTRACT
VA-NATIONAL EPI RX EXTRACT.

```
Select Reminder Reports Option:  Extract EPI Totals
START WITH NAME: FIRST// ??

        The NAME is the combination of a unique abbreviation for the type of
        extract. The file contains different extract types:

        1) EPI - Hep C Extract

        Extracts of this type are prefixed LREPI. The following is an example
        of EPI lookup information:

        160          LREPI 00/05 061500     Jun 15,2000@14:52:36
        161          LREPI 00/06 073100     Jul 15,2000@14:55:40
        162          LREPI 00/07 081500     Aug 15,2000@15:42:24

        The YY/MM represents the ending year and month of the extract date
        range, and the run date in the format YYMMDD. The date and time of the
        run is an identifier.
```

```
        2) QUERI (IHD and MH)

        Extracts of this type are prefixed VA-IHD or VA-MH. The following is an
        example of IHD lookup information:

        1   VA-IHD QUERI 2000 M2     Nov 27,2002@13:20:26
        2   VA-IHD QUERI 2000 M3     Nov 27,2002@13:24:08
        3   VA-IHD QUERI 2000 M4     Nov 27,2002@13:25:13

        The year and month of the extract are included in the extract name. The
        date and time of the run is an identifier.

START WITH NAME: FIRST// LREPI 05/02
GO TO NAME: LAST//
DEVICE: ;;999  TCP    Right Margin: 80//
REMINDER EXTRACT TOTALS                        JAN  6,2006  16:30    PAGE 1
-------------------------------------------------------------------------------

LREPI 05/02 031505              Date Range: FEB  1,2005-FEB 28,2005
                              Extract Date: MAR 15,2005  22:16
    Total Patients Evaluated:        766
    Total Patients with Findings:    718

    Totals by Finding Item               Finding  Unique Patient
                                           Count       Count
         INTERFERON ALFA-2B                    1           1
         HEPATITIS C ANTIBODY                207         207
         TOT. BILIRUBIN                      190         190
         RIBAVIRIN                            35          35
         AST                                 192         192
         ALT                                 198         198
         VA-HEPATITIS C INFECTION            127         127
         INTERFERON BETA-1B                    4           4
         INTERFERON BETA-1A                   18          18
         INTERFERON ALFACON-1                  5           5
         RISK FACTOR FOR HEPATITIS C         110         110
         NO RISK FACTORS FOR HEP C           319         319
         DECLINED HEP C RISK ASSESSMENT        8           8

LREPI 05/03 041505              Date Range: MAR  1,2005-MAR 31,2005
                              Extract Date: APR 15,2005  22:12
    Total Patients Evaluated:        841
    Total Patients with Findings:    802

    Totals by Finding Item               Finding  Unique Patient
                                           Count       Count
         INTERFERON ALFA-2B                    2           2
         HBSAG                                 1           1
         HEPATITIS C ANTIBODY                446         223
         RIBAVIRIN                            47          47
         VA-HEPATITIS C INFECTION            119         119
         INTERFERON BETA-1B                    9           9
         INTERFERON BETA-1A                   16          16
         INTERFERON ALFACON-1                  8           8
         HBSAB                                33          33
         RISK FACTOR FOR HEPATITIS C         132         132
         NO RISK FACTORS FOR HEP C           372         372
         DECLINED HEP C RISK ASSESSMENT        3           3
Press RETURN to continue...
```

Extract QUERI Totals

```
   D     Reminders Due Report
   DRU    Reminders Due Report (User)
   DRT    User Report Templates
   EPT    Extract EPI Totals
   EPF    Extract EPI List by Finding and SSN
   EQT    Extract QUERI Totals
   GEC    GEC Referral Report
   REV    Review Date Report
   FUR    Finding Usage Report
Select Reminder Reports Option: EQT  Extract QUERI Totals

START WITH NAME: FIRST// ??

     The NAME is the combination of a unique abbreviation for the type of
     extract (e.g., LREPI), the YY/MM representing the ending year and
     month of the extract date range, and the run date in the format
     YYMMDD. The date and time of the run is an identifier.  The following
        is an example of lookup information.
         160          LREPI 00/05 061500     Jun 15,2000@14:52:36
         161          LREPI 00/06 073100     Jul 15,2000@14:55:40
         162          LREPI 00/07 081500     Aug 15,2000@15:42:24
         163          LREPI 00/05 082200     Aug 22,2000@02:44:54
         164          LREPI 00/08 082500     Aug 25,2000@14:24:59

START WITH NAME: FIRST// <Enter>
START WITH NAME: FIRST// 164
GO TO NAME: LAST// <Enter>
DEVICE:   ANYWHERE    Right Margin: 80// <Enter>
REMINDER EXTRACT SUMMARY LIST                 JAN 10,2003  09:14    PAGE 1
-------------------------------------------------------------------------

VA MH QUERI 2000 M2              Date Range: FEB  1,2000-FEB 28,2000
                              Extract Date: JAN  3,2003

 Extract Sequence: 001
 Reminder:         VA-DEPRESSION SCREENING
 Station:          CRSITE ONE
 Patient List:     VA-MH QUERI 2000 M2 QUALIFYING VISIT

  Reminder Totals:     Total      Applicable       N/A       Due   Not Due
                        1000            899       101       200       699

  Finding Totals:

    Sequence:      001
    Finding Group: VA-DEPRESSION SCREEN NON APPLICABLE
    Term:          DEPRESSION DIAGNOSIS
    Group Type:    MOST RECENT FINDING PATIENT COUNT
    Group Status:  TOTAL PATIENTS
    Finding Count by Reminder Status:
                  Total      Applicable       N/A       Due     Not Due
                     20             20         0        20         0

    Sequence:      002
    Finding Group: VA-DEPRESSION SCREEN NON APPLICABLE
    Term:          PSYCHOTHERAPY
    Group Type:    MOST RECENT FINDING PATIENT COUNT
    Group Status:  TOTAL PATIENTS
    Finding Count by Reminder Status:
```

```
                 Total      Applicable       N/A       Due     Not Due

   Sequence:      003
   Finding Group: VA-DEPRESSION SCREEN NON APPLICABLE
   Term:          ANTIDEPRESSANT MEDICATION
   Group Type:    MOST RECENT FINDING PATIENT COUNT
   Group Status:  TOTAL PATIENTS
   Finding Count by Reminder Status:

                 Total      Applicable       N/A       Due     Not Due

   Sequence:      004
   Finding Group: VA-DEPRESSION SCREEN RESULT
   Term:          DEPRESSION SCREEN NEGATIVE
   Group Type:    MOST RECENT FINDING PATIENT COUNT
   Group Status:  APPLICABLE PATIENTS
   Finding Count by Reminder Status:

                 Total      Applicable       N/A       Due     Not Due

   Sequence:      005
   Finding Group: VA-DEPRESSION SCREEN RESULT
   Term:          DEPRESSION SCREEN POSITIVE
   Group Type:    MOST RECENT FINDING PATIENT COUNT
   Group Status:  APPLICABLE PATIENTS
   Finding Count by Reminder Status:

                 Total      Applicable       N/A       Due     Not Due

   Sequence:      006
   Finding Group: VA-REFUSED DEPRESSION SCREEN
   Term:          REFUSED DEPRESSION SCREENING
   Group Type:    MOST RECENT FINDING COUNT
   Group Status:  TOTAL PATIENTS
   Finding Count by Reminder Status:

                 Total      Applicable       N/A       Due     Not Due

Extract Sequence: 002
Reminder:         VA-POS DEPRESSION SCREEN FOLLOW UP
Station:          CRSITE HCS
Patient List:     VA-MH QUERI 2000 M2 QUALIFYING VISIT

 Reminder Totals:     Total      Applicable       N/A       Due   Not Due

                       1000            300       700        10       690

 Finding Totals:

   Sequence:      001
   Finding Group: VA-POS DEPRESSION SCREEN FOLLOW UP
   Term:          DEPRESSION SCREEN NEGATIVE
   Group Type:    MOST RECENT FINDING PATIENT COUNT
   Group Status:  TOTAL PATIENTS


   Finding Count by Reminder Status:

                 Total      Applicable       N/A       Due     Not Due


   Sequence:      002
   Finding Group: VA-POS DEPRESSION SCREEN FOLLOW UP
```

```
   Term:          DEPRESSION ASSESS INCONCLUSIVE (?MDD)
   Group Type:    MOST RECENT FINDING PATIENT COUNT
   Group Status:  TOTAL PATIENTS
   Finding Count by Reminder Status:

                  Total      Applicable       N/A       Due     Not Due


   Sequence:      003
   Finding Group: VA-POS DEPRESSION SCREEN FOLLOW UP
   Term:          REFERRAL TO MENTAL HEALTH
   Group Type:    MOST RECENT FINDING PATIENT COUNT
   Group Status:  TOTAL PATIENTS
   Finding Count by Reminder Status:

                  Total      Applicable       N/A       Due     Not Due

   Sequence:      004
   Finding Group: VA-POS DEPRESSION SCREEN FOLLOW UP
   Term:          DEPRESSION TO BE MANAGED IN PC
   Group Type:    MOST RECENT FINDING PATIENT COUNT
   Group Status:  TOTAL PATIENTS
   Finding Count by Reminder Status:

                  Total      Applicable       N/A       Due     Not Due

Extract Sequence: 003
Reminder:         VA-ANTIPSYCHOTIC MED SIDE EFF EVAL
Station:          CRSITE HCS
Patient List:     VA-MH QUERI 2000 M2 QUALIFYING VISIT

 Reminder Totals:     Total      Applicable       N/A       Due   Not Due
                       1000              3       997         1         2

 Finding Totals:

   Sequence:      001
   Finding Group: VA-ANTIPSYCHOTIC DRUGS
   Term:          AIM EVALUATION NEGATIVE
   Group Type:    MOST RECENT FINDING PATIENT COUNT
   Group Status:  TOTAL PATIENTS
   Finding Count by Reminder Status:

                  Total      Applicable       N/A       Due     Not Due

   Sequence:      002
   Finding Group: VA-ANTIPSYCHOTIC DRUGS
   Term:          AIM EVALUATION POSITIVE
   Group Type:    MOST RECENT FINDING PATIENT COUNT
   Group Status:  TOTAL PATIENTS
   Finding Count by Reminder Status:

                  Total      Applicable       N/A       Due     Not Due

   Sequence:      003
   Finding Group: VA-ANTIPSYCHOTIC DRUGS
   Term:          REFUSED ANTIPSYCHOTICS
   Group Type:    MOST RECENT FINDING PATIENT COUNT
   Group Status:  TOTAL PATIENTS
   Finding Count by Reminder Status:
```

Future Appointments

A new prompt has been added that will only display if Show All future appointment is selected. The prompt is Display Appointment Location. If you answer Y, the clinic name will appear with the future appointment date/time. If you enter N, only the date/time will display.

If the patient is an outpatient, it will sort by next appointment date. If the patient is a currently an inpatient and has an outpatient appointment schedule, it will sort by the Room-Bed location.

When displaying the next appointment, if the patient is an inpatient, the Room-Bed will be displayed followed by (Inp.). Then the next appointment will display under this data. If you select Display All future appointments, the appointment will display under the patient name.

GEC Referral Report

GEC Referral Reports display the percentage of patients referred to select GEC programs who meet the eligibility criteria as outlined in the Under Secretary for Health's Information Letter IL 10-2003-005 and VHA Handbook 1140.2.

VA GEC Reports provide quarterly statistical reports on the following VA-funded programs.

- Homemaker/Home Health Aide, when Funding Source=VA
- Adult Day Health Care, when Funding Source=VA
- VA In-Home Respite, when Funding Source=VA
- Care Coordination, when Funding Source=VA

When sites submit their quarterly reports, the national office will be able to generate a report for the General Accounting Office/Office of Inspector General that demonstrates compliance with the standards for assessing patients prior to placement in VA-funded programs.

These same reports can be used at the local level to evaluate how well a site is performing in meeting compliance standards for placement of patients in VA funded GEC programs.

Changes in Patch 4

- An undefined error, <UNDEFINED>CALCMON+12<>PXRMG2M1, occurred when the scheduled event fired off at the beginning of each month. That has now been repaired.

- Several of the GEC Reports were not showing a complete list of patients or providers. This has now been corrected. The division and age of the patient has been added to some reports to help in identifying the patient.

- There is a new choice in the GEC reports menu that will give the sites the option to open a closed referral, merge two referrals, or close an open referral.

- The GEC Care Recommendation Dialog has been modified to allow more than one selection when a person wants to refer a patient to more than one location.

- A problem with the user being able to take some editing actions on GEC dialogs have been corrected, so the user is not able to copy or delete dialog groups from the GEC dialogs.

- Geriatric Extended Care Reports were not collecting the correct data. This was corrected.

- The email addresses of the remote members of mail group GEC NATIONAL ROLLUP are updated.

- As requested by the primary GEC stakeholder, several reminder dialog entries were moved from the Nursing Assessment GEC dialog to the Care Recommendation GEC dialog. A post-install routine changes several Health Factors from one GEC dialog to another.

Example

```
Select Reminder Reports Option: GEC  GEC Referral Report

All Reports will print on 80 Columns
     Select one of the following:
          1         Category
          2         Patient
          3         Provider by Patient
          4         Referral Date
          5         Location
          6         Referral Count Totals
          7         Category-Referred Service
          8         Summary (Score)
          9         'Home Help' Eligibility
          10        Restore or Merge Referrals
Select Option or ^ to Exit: 8// <Enter> Summary (Score)

Select a Beginning Historical Date.
BEGINNING date or ^ to exit:  (1/1/1988 - 6/30/2004): T-60//<Enter>(MAY 01, 2004)

Select Ending Date.
ENDING date or ^ to exit:  (5/1/2004 - 6/30/2004): T//<Enter>   (JUN 30, 2004)
     Select one of the following:
          A         All Patients
          M         Multiple Patients

Select Patients or ^ to exit: A//<Enter> ll Patients
     Select one of the following:
          F         Formatted
          D         Delimited

Select Report Format or ^ to exit: F//<Enter> ormatted
DEVICE: HOME//<Enter>   ANYWHERE    Right Margin: 80// <Enter>

==============================================================================
GEC Patient-Summary (Score)
Data on Complete Referrals Only
From: 05/01/2004 To: 06/30/2004

                                 Finished        Basic Skilled Patient   TOTAL
Name                   SSN       Date       IADL ADL   Care    Behaviors ACROSS
==============================================================================
CRPATIENT,ONE        (666809999) 06/15/2004   0    0     2       4         6
CRPATIENT,ONE        (666809999) 06/15/2004   0    7     9       5        21
CRPATIENT,TWO        (666809990) 05/04/2004   0    0     0       0         0
CRPATIENT,SIX        (666009999) 05/11/2004   0    0     0       0         0
CRPATIENT,SIX        (666009999) 05/11/2004   0    0     0       0         0
CRPATIENT,SIX        (666009999) 05/11/2004   0    0     0       0         0
                                              ____________________________
                                 Totals > >   0    7    11       9        27
                                  Means > > 0.0  1.2   1.8     1.5       4.5
                     Standard Deviations > > 0.0  3.1   4.1     2.9       9.8

Enter RETURN to continue or '^' to exit: <Enter>
```

Finding Usage Report

This report provides a listing of the reminder definitions, reminder terms, and reminder dialogs in which selected Clinical Reminder findings are used. This can help you troubleshoot when new reminders and dialogs are distributed to replace existing ones.

The report can be sent as a mail message to designated recipients.

Changes made by PXRM*2*26:

- The finding multiple in file #801.41 had the pointer to file #811.2 defined as Taxonomy instead of Reminder Taxonomy. The caused the finding usage report to have selections for Reminder Taxonomy and Taxonomy. It was renamed to Reminder Taxonomy and the problem was eliminated.
- The Finding Usage Report did not have the ability to search for reminder definitions and reminder terms that are used in a Reminder List Rule. That ability was added.
- There was a bug in the Order Check term search that was corrected.
- The ability to search Order Check rules for definitions was added.
- Previously, when the report was run, the user had the option to have it delivered as a MailMan message or have it written to the screen. That was changed, so that the user has the option to browse or print it, and then has the option to have it delivered as a MailMan message.

```
Select Reminder Reports Option:  Finding Usage Report
Clinical Reminders Finding Usage Report

Select from the following reminder findings (* signifies standardized):
   1 - DRUG
    2 - EDUCATION TOPICS
    3 - EXAM
    4 - HEALTH FACTOR
    5 - ICD9 DIAGNOSIS
    6 - IMMUNIZATION *
    7 - LABORATORY TEST
    8 - MENTAL HEALTH
    9 - MH TESTS AND SURVEYS
   10 - ORDER DIALOG
   11 - ORDERABLE ITEM
   12 - PROCEDURE
   13 - RADIOLOGY PROCEDURE
   14 - REMINDER COMPUTED FINDING
   15 - REMINDER DEFINITION
   16 - REMINDER LOCATION LIST
   17 - REMINDER TAXONOMY
   18 - REMINDER TERM
   19 - SKIN TEST *
   20 - TAXONOMY
   21 - VA DRUG CLASS *
   22 - VA GENERIC *
   23 - VITAL MEASUREMENT *
   24 - VITAL TYPE *
   25 - WH NOTIFICATION PURPOSE
Enter your list for the report.:  (1-21): 5
Search for all or selected ICD9 DIAGNOSIS
```

```
     Select one of the following:

          1         ALL
          2         SELECTED

Enter response: ALL// 1
SORT DONE
Browse or Print? B// Print
DEVICE: HOME//   HOME

Clinical Reminders finding usage report.

The following ICD DIAGNOSIS(s) are used as follows:

=========================================================
ICD DIAGNOSIS - 100.9 (IEN=3)

    Is used in the following Reminder Dialog(s):

     Dialog element POV DIAG 1 (IEN=660113), used in the
       Finding Item field

=========================================================
ICD DIAGNOSIS - 103.3 (IEN=15)

----------------------------------
    Is used in the following Reminder Dialog(s):

     Dialog element CODE SET ICD9 FIND (IEN=336), used in the
       Finding Item field

=========================================================
ICD DIAGNOSIS - 174.1 (IEN=335)

----------------------------------
    Is used in the following Reminder Dialog(s):

     Dialog element POV 174.1 DONE (IEN=441), used in the
       Finding Item field

     Dialog element POV 174.1 DONE ELSEWHERE (IEN=581), used in the
       Finding Item field
.
.
.
Etc.

Press ENTER to continue:

Deliver the report as a MailMan message? Y// y
```

MailMan Report

```
Subj: Clinical Reminders Finding Usage Report  [#49717] 05/08/09@16:02  70 lines
From: POSTMASTER (Sender: CRUSER,THIRTEEN)  In 'IN' basket.   Page 1  *New*
-------------------------------------------------------------------------------
Clinical Reminder finding usage report.

The following IMMUNIZATIONs are used as Clinical Reminder findings:

=========================================================
IMMUNIZATION - INFLUENZA (IEN=12)

   INFLUENZA is used in the following Definitions:
----------------------------
     VA-*INFLUENZA IMMUNIZATION (IEN=8)
       Finding number 1
----------------------------
     VA-INFLUENZA VACCINE (IEN=26)
       Finding number 1
----------------------------
     IMMTEST1 (IEN=71)
       Finding number 14
----------------------------
     MHV INFLUENZA VACCINE (IEN=208)
       Finding number 1
----------------------------
     jg FLU VACCINE (IEN=209)
       Finding number 1
----------------------------
     MHV INFLUENZA VACCINE2 (IEN=246)
       Finding number 1
----------------------------
     INFLUENZA GOOD (IEN=264)
       Finding number 1
----------------------------
     INFLUENZA BAD (IEN=265)
       Finding number 1
----------------------------
     ERROR (IEN=275)
       Finding number 14
----------------------------
     AGP IMMUNIZATION (IEN=361)
       Finding number 1
----------------------------
     IMMTEST (IEN=660008)
       Finding number 14

   INFLUENZA is used in the following Terms:
----------------------------
     INFLUENZA IMMUNIZATION (IEN=491)
       Finding number 3
----------------------------
     PKR LONG IMM TEST (IEN=766)
       Finding number 3

   INFLUENZA is used in the following Dialogs:
```

```
----------------------------
     Dialog element ZZPJH TIME DONE (IEN=496), used in the
       Finding Item field
----------------------------
     Dialog element AGP INSTALL ELEMENT (IEN=1060), used in the
       Finding Item field
----------------------------
     Dialog element IM INFLUENZA DONE ELSEWHERE (IEN=660065), used in
     the
       Finding Item field
----------------------------
     Dialog element IM INFLUENZA CONTRA (IEN=660066), used in the
       Finding Item field
----------------------------
     Dialog element CONTRAINDICATION TEST (IEN=660000137), used in the
       Finding Item field
----------------------------
     Dialog element TEST PLAN IMMUNIZATION (IEN=660000139), used in the
       Finding Item field
----------------------------
     Dialog element DEMO ELEMENT 1 (IEN=660000173), used in the
       Finding Item field

Enter message action (in IN basket): Ignore//
```

MST Synchronization Management Project

The Millennium Healthcare and Benefit Act, Public Law 106-117, Section 115, Counseling and Treatment for Veterans Who Have Experienced Sexual Trauma, includes provisions for development of a formal mechanism for reporting on outreach activities and require the Veterans Administration (VA) to provide counseling and appropriate care and services for treatment of Military Sexual Trauma (MST). As a result, the Women Veterans Health Program (WVHP) requested Veterans Health Information System and Technology Architecture (VistA) enhancements to support the screening of all Veterans (men and women) for MST, identification of non-VA workload associated with MST, and enhanced national reporting of MST data. Veterans Health Administration (VHA) Directive 2000-008 and VHA Directive 99-039 provided guidance in the screening, tracking, and documentation of MST in all enrolled Veterans who utilize VHA. Additionally, a "Best Practice" manual provided field guidance on creating local Implementation Support Teams (IST), developing MST screening processes, and documenting screening results using the VistA Military Sexual Trauma database within the Patient Registration Package.

In FY1999, VistA enhancements provided the ability to record or edit Veterans' MST status in VistA and also created an MST "outpatient classification code" similar to Agent Orange. Once a Veteran has reported MST, the classification code triggers the staff via VistA prompts when they are checking out an encounter to be prompted for whether the encounter is related to MST. VistA began including the MST status and classification code in Patient Care Encounter (PCE) transmissions in May 2000. The Patient Treatment File (PTF) patch was released to sites on March 6, 2001.

MST Scope of Changes

The effort for implementing the MST section of the Millennium Healthcare and Benefits Act (Mill Bill) impacted Fee Basis, Women Health (WH), Health Eligibility Center (HEC/Enrollment), Clinician Desktop, Patient Information Management Systems (PIMS), the Corporate Databases, and VistA software packages.

The enhancements provided a means for identifying non-VA MST workload in the Fee Basis application, clinical reminders to clinicians, and specifications for the VA and non-VA workload reports to be generated at the Austin Automation Center (AAC). Also, PIMS and HEC will manage the MST status sharing between sites to minimize the instances in which a veteran is repeatedly asked about MST status. HEC will act as the authoritative database source.

The data for MST will be entered locally in the VistA system and will be shared with the HEC as part of the current HL7 messaging capabilities. The information entered in the VistA system is sent to the HEC so that it can be transmitted to other VA health care facilities of record. Locally, MST-related, non-VA care will be entered into the Fee Basis system. This information will be sent to Central Fee, where Outpatient non-VA data will be used for national reporting. Inpatient non-VA care is sent to PTF. The system requirements, identified in this document, include additions and modifications to existing field entries on the VistA, HEC, Fee Basis, and Central Fee. There will be no changes to the NPCD or PTF database. NPCD will continue to accept and store MST data.

MST System Features

There are multiple objectives with Mill Bill MST. To determine the amount of care being provided to Veterans who have experienced MST, the Fee Basis system will locally keep track of MST related non-VA care. This information will be sent to Central Fee so that reports reflecting the national experience can be generated. In order to improve data quality, redundant fields in the WVH application and PIMS will be synchronized. Legislation mandates that all Veterans be screened for MST. To reduce the number of times a Veteran would be screened for MST, VAMCs, via PIMS, will provide the HEC with MST status as it is derived. The HEC will be the authoritative database source for MST status and be able to provide other VAMCs with a Veteran's MST status upon request. **Clinical reminders provides a mechanism to screen Veterans who do not have a MST status for MST and assists with the entry of that information**. VHA wants to have reports from the National Databases (NPCD and Central Fee) that will look at the population and trending of MST across VHA.

CLINICAL REMINDERS MST FUNCTIONALITY (Patch PXRM*1.5*7)

This patch, released in January 2002, provided new functionality for Clinical Reminders to help sites meet the mandate to collect Military Sexual Trauma (MST) data.
The patch included:

- A new reminder definition, VA-MST SCREENING, and the findings used by the definition. The findings include:
- Three reminder terms: VA-MST DECLINES REPORT, VA-MST NEGATIVE REPORT, and VA-MST POSITIVE REPORT
- A computed finding: VA-MST STATUS
- Four health factors: MST CATEGORY, MST DECLINES TO ANSWER, MST NO DOES NOT REPORT, and MST YES REPORTS
- A reminder dialog: VA-MST SCREENING.

The reminder dialog has three elements that update PCE with health factor findings (MST NO DOES NOT REPORT, MST YES REPORTS and MST DECLINES TO ANSWER). You will be able to capture data directly to the MST HISTORY file, #29.11, using this reminder dialog.

If your site is already capturing MST data via health factors, education topics, or exams, there is functionality in this patch that will help you synchronize this data with the data in the MST HISTORY file, #29.11. Before the synchronization can be done, you must map your local findings to the appropriate VA-MST reminder term. If you have been using health factors that are similar to those listed above, you may consider renaming your health factors to match the names listed above. The renaming must be done BEFORE the patch is installed or it will not work. If you choose not to do this, or your site has been using education topics or exams, you will need to map your findings to these terms before the initial synchronization can be done.

If your site is already capturing MST data via local health factors, education topics, and exams, the national dialog and component elements and groups may be copied to local dialogs, which may then be modified to use local findings. ***The national dialog and component elements and groups may not be edited.*** Alternatively, if you already have reminder dialogs for MST, you may continue to use these if the findings in these dialogs are mapped to the new VA-MST terms.

Reminders MST Synchronization Management Menu

This patch also included a new option on the Reminder Managers Menu called Reminders MST Synchronization Management. There are two options on this menu: one for doing the synchronization (Reminders MST Synchronization), and one for checking on the synchronization (Reminders MST Synchronization Report). The first option will allow you to schedule a background job that does the synchronization. The report option will give you data on the initial synchronization and the last daily synchronization.

Syn.	Name	Option Name	Description
SYN	Reminders MST Synchronization	PXRM MST SYNCHRONIZATION	This option is used to run the Clinical Reminders MST synchronization. The synchronization should not be run until the site has finished mapping the MST reminder terms.
REP	Reminders MST Synchronization Report	PXRM MST REPORT	This option runs the Clinical Reminders MST synchronization report.

Reminders MST Synchronization Example

```
Select Reminder Managers Menu Option: MST  Reminders MST Synchronization Management

   SYN    Reminders MST Synchronization
   REP    Reminders MST Synchronization Report

Select Reminders MST Synchronization Management Option: SYN  Reminders MST
Synchronization
Queue the Clinical Reminders MST synchronization.
Enter the date and time you want the job to start.
It must be after 09/11/2001@09:01:33 T@1
Do you want to run the MST synchronization at the same time every day? Y// NO
Task number 594549 queued.
```

Reminders MST Synchronization Report

The report option gives you data on the initial synchronization and the last daily synchronization.

Example

```
Select Reminders MST Synchronization Management Option: rep
  Reminders MST Synchronization Report

Clinical Reminders MST Synchronization Report
---------------------------------------------
Initial synchronization date: Aug 28, 2001@15:12:15
Number of updates made: 4
Elapsed time: 4:00:34

Last daily synchronization date: Sep 05, 2001@08:45:48
Number of updates made: 0
Elapsed time:  3:57:34
```

Reminder Parameters Menu

This menu contains three options: Edit Site Disclaimer, Edit Web Sites, and Edit Number of MH Questions.

Edit Web Sites was created in response to the NOIS, MAC-1000-60473 - Web site shows in all reminders. Sites were unable to get websites to show for an individual reminder – a default URL and website text overrides individual entries. In Version 1.5, the only way to edit or delete the default website was through VA FileMan. It was recommended that developers create an easier way for a user edit the default URL Web addresses.

Syn.	Name	Option Name	Description
ESD	Edit Site Disclaimer	PXRM EDIT SITE DISCLAIMER	This option allows the site disclaimer used in Health Summary components to be modified.
EWS	Edit Web Sites	PXRM EDIT WEB SITES	This option allows the reminder web sites used in CPRS GUI to be modified.
MH	Edit Number of MH Questions	PXRM MH QUESTIONS	This option allows the site to select the maximum number of MH questions to be used as Reminder Dialog Finding Items.

Edit Site Disclaimer Example

```
Select Reminder Parameters Option: esd  Edit Site Disclaimer
SITE REMINDER DISCLAIMER:
  No existing text
  Edit? NO// y  YES

==[ WRAP ]==[ REPLACE ]=====< SITE REMINDER DISCLAIMER >=====[ <PF1>H=Help ]====
The following disease screening, immunization and patient education
 recommendations are offered as guidelines to assist in your practice.
 These are only recommendations, not practice standards.  The
 appropriate utilization of these for your individual patient must be
 based on clinical judgment and the patient's current status.

<=======T=======T=======T=======T=======T=======T=======T=======T=======T>======

Press RETURN to continue...
```

Edit Web Sites Example

```
Select Reminder Parameters Option: ews  Edit Web Sites

Choose from:
        http://vista.med.va.gov/reminders
        http://vaww.archive.oqp.med.va.gov/CPGintra/cpg/cpg.htm

Select URL: ?
    Answer with WEB SITES URL
   Choose from:
   http://vista.med.va.gov/reminders

        You may enter a new WEB SITES, if you wish
        Enter the URL for the web site.

   Select URL: http://vista.med.va.gov/reminders
```

Edit Number of MH Tests Example

This option allows the site to select the Maximum number of MH questions to be used as a Reminder Dialog Finding Items. If the number of question in the selected MH test exceed the number in this parameter than the MH test cannot be used in the reminder dialog.

```
Select Reminder Managers Menu Option: PAR  Reminder Parameters


   ESD    Edit Site Disclaimer
   EWS    Edit Web Sites
   MH     Edit Number of MH Questions

Select Reminder Parameters Option: MH  Edit Number of MH Questions
MAXIMUM NUMBER OF MH QUESTIONS: 100//


   ESD    Edit Site Disclaimer
   EWS    Edit Web Sites
   MH     Edit Number of MH Questions

Select Reminder Parameters Option:
```

Reminder Patient List Management

New tools for creating and managing reminder patient lists were introduced with Clinical Reminders V2.0. The patient list functionality provides a way to identify patients with specific findings or combinations of findings, without having to search one-by-one through every patient registered on the system.

Patient List summary (from Patty Hoey, Puget Sound HCS)

Clinical Reminder patient lists and extracts represent a watershed advance in VA's clinical information armamentarium. Before their creation, front-line clinicians wishing to search for clinical data (for evidence-based medicine, process improvements, or clinical research) were limited to VA FileMan. While powerful, FileMan is too esoteric and resource-intensive for many clinicians. Alternatively, several VISNs have data warehouses and allow clinicians to write SQL scripts to search them; but again, the learning curve is steep and the data can be historical and, therefore, not useful for time-sensitive searches.

Because FileMan and SQL are difficult to learn, clinicians are often reliant on technical intermediaries and are subject to their availability. In contrast, the clinical reminder patient list functionality is relatively accessible and comprehensible (with minimal training) to front-line clinicians, allowing any clinician to become an informaticist, avoiding the risk of clinical questions being diluted or lost in translation. With the number of VA clinicians nationwide finally able to access the rich VA database, the potential for advances in patient safety, patient therapy, and processes that realize time and budget savings is boundless. Reminder indexes make the queries fast and consume relatively few computer resources. The searchable database is up-to-date, making patient lists useful for daily patient safety surveillance reporting. Lists can be auto-tasked to run monthly, quarterly, and annually and rolled up into a message for possible transmission to regional patient registries or county health departments.

The patient list functionality was originally created to support reminder extract reports. Reminder extract reports rely on the patient list tools to build patient lists that meet specific finding criteria. The numbers of patients on the patient lists created and used for extract reports are often referred to as patient denominators. The lists of patients are used to evaluate specific reminders to calculate compliance totals and finding totals.

Patient lists can also be created and used independently of extract reporting.

This patient list-building tool uses the Clinical Reminders Index global; consequently, it can build patient lists very quickly. The Clinical Reminders Index provides indexes that support finding all patients with a particular finding (also known as "across-patient look-ups"). The Index global also supports rapidly accessing finding data for a specific patient.

> **Example**: At one site, the Index global was used to build a list of all patients with a diabetic diagnosis in the last five years at a medium-sized site in about two minutes. There were approximately 10,000 patients on the list.

Once a patient list has been created by the reminder patient list tools, it can be stored and used for a number of purposes: reminder extract reports, input to reminder reports, input to health summaries, and creation of mailing lists and personalized form letters.

The reminder patient lists are stored in the Reminder Patient List file (#810.5). The Reminder Patient List Menu (PXRM PATIENT LIST MENU) provides access to the patient list management and list rule management functionality.

List Rules

List rules are the basic building blocks for constructing patient lists. A list rule may be defined using a reminder term, the patient cohort from a reminder definition, or an existing reminder patient list. Before a list rule can be created, the corresponding reminder term, reminder definition, or reminder patient list must already exist. Each list rule is defined independently. Once a list rule is defined, it can be combined with other list rules to build Rule Sets.

There are four types of list rules.

Type of List Rule	Abbreviation
• Finding Rule	FR
• Reminder Rule	RR
• Patient List Rule	PL
• Rule Set	RS

TIP: These four types of list rules are all stored in the same file, REMINDER LIST RULE (#810.4). A naming convention can be useful for ease of identifying list rule entries by type of list rule. One suggested convention is to use the abbreviations above as a prefix or suffix in the list rule name identifying the type of list rule. We will use this suggested naming convention for the examples of list rules in the List Rule Management Section.

1. Finding rules are used to build lists of patients based on reminder terms. Reminder patient list tools will find patients with the finding(s) defined in the reminder term.

Most of the types of findings that can be defined in the reminder term have a Global Index for across-patient look-ups. However, the Global Index is not used for computed findings linked to a reminder term, unless the computed finding has hard-coded logic to access the Global Index. The typical computed finding assumes the patient is already selected and does not support across-patient look-up. However, with V2.0, a computed finding can be specifically created for list-building purposes by defining the Type field in the computed finding definition as “List.” The List type computed finding can be used as the first rule, or any subsequent rule in a rule set where the ADD PATIENT Operation is used. When a computed finding is used to SELECT or REMOVE patients from an existing patient list, a “single” or “multiple” type computed finding may be used.

2. Reminder rules are used to build lists of patients based on a reminder definition and its patient cohort logic. Before a reminder definition is used to build a patient list, the cohort logic is checked to make sure it meets certain criteria. If it doesn’t, a warning message will be issued. This is done to make sure that building the list is computationally feasible. The criteria for using a reminder definition are:

- The cohort logic cannot start with a logical not
- The cohort logic cannot contain a logical or not
- If AGE is used in the cohort logic, then a baseline age range must be defined
- If SEX is used in the cohort logic the reminder must be sex-specific
- SEX cannot be the first element in the cohort logic unless it is followed by AGE
- If a finding sets the frequency to 0Y, which effectively removes the patient from the cohort, it can’t have an associated age range

- The USAGE field must be specified as “L” for Patient List

3. Patient List rules are used to build a new reminder patient list based on the patients in an existing reminder patient list. An existing patient list can be used to create a new list, add patients to a list, remove patients from a list if they are defined in the specified list, and remove patients from a list if they are not defined in the specified list.

4. List Rule Sets
A rule set combines list rules and logical operations into a series of steps which are processed to build a patient list. The steps are processed in a numerical order that is based on the value of the SEQUENCE field, which is a three-digit number, i.e., 1 to 999. The first step initializes the list and subsequent steps can add patients (ADD PATIENT) to the list or remove (REMOVE or SELECT) them from it. Since the first step initializes the list, its operation must be ADD PATIENT. Subsequent steps may also use the ADD PATIENT operation to merge patients.

Logical operators (i.e., AND, AND NOT, OR), similar to those used in a reminder definition, are represented by the Rule Set Operations:

ADD PATIENT – this works like a Boolean OR; any patient for which the finding is true will be added to the list. This should always be the operation for the first sequence in a rule set. Patient lists may be merged using the ADD PATIENT operation.

REMOVE – this works like a Boolean AND NOT; any patient for which the finding is true will be removed from the list.

SELECT – this works like a Boolean AND; any patient for whom the finding is true will remain on the list and those for which the finding is false will be removed from the list.

One additional operation is available that is not related to Boolean logic:

INSERT FINDING – this is a special operation that lets you store patient data in the patient list. If the finding rule is based on the term VA-IHD STATION code or VA-PCMM INSTITUTION the patient’s PCMM institution will be stored with the list and when the patient list is displayed there will be a column that lists the PCMM Institution. The patient’s PCMM institution is determined by finding the patient’s PCMM team and then the Institution for the team. When the finding rule is based on any other terms, the “CSUB” data for the term will be stored with the list and can be used in the Patient Demographic Report.

Rule Set Definition

- Each rule set has a unique Name. National rule sets will have a name prefixed with “VA-“ or “VA-*“, and cannot be edited.
- Each rule set has a Class. Rule sets defined by a local site must be defined with the LOCAL or VISN Class. Nationally distributed rules sets will be have a NATIONAL class.
- Sequence: This three-digit number defines the order in which the list rules in the rule set will be evaluated.
- The ADD PATIENT operation is always used in the first sequential step, typically 001, to build the initial list of patients which can then be modified by subsequent rules. The ADD PATIENT

operation can also be used on subsequent steps to add patients with a particular finding to an existing list of patients.

- Each sequential step uses the patient list from the prior step as the starting list to be added to or deleted from.
- It is good practice to initialize the list with the list rule that produce the smallest number of patients. For example if you need a list of patients with a certain diagnosis seen at specific locations you should initialize the list with the smaller of the two. If a finding list rule is defined with a reminder term that is defined with a computed finding, some special considerations need to be taken. If the computed finding is being used to select from or remove a patient from an existing list, than the typical computed finding can be used. If the computed finding will be used with the ADD PATIENT operation, then the computed finding must be defined with a "List" type.
- Each sequence may include Beginning Date/Time and Ending Date/Time.
- Beginning and Ending date/times are optional fields that can be defined in the List Rule which further restrict the criteria for building the patient list. Alternatively, the reminder term can contain the beginning and ending dates.
- The Patient List field is used for patient list rules. It defines the name of a patient list to be used as the patient source. If this field is defined, it overrides the Extract Patient List Name field.
- Extract Patient List Name field provides a mechanism to automatically generate patient list names for patient lists that are built on a recurring basis by extract runs. The name specified should contain "yyyy" for year and "Qnn" for quarter or "Mnn" for month. The string "yyyy" is automatically replaced by the four digit year and the "nn" is replaced by the number of the quarter or the number of the month. For example, one of the national IHD QUERI rule sets contains the extract patient list VA-*IHD QUERI yyyy Mnn PTS WITH QUALIFY AND ANCHOR VISIT; if an extract was run for November 2005 the resulting patient list would have the name VA-*IHD QUERI 2005 M11 PTS WITH QUALIFY AND ANCHOR VISIT.

In current national rule sets, the Beginning Date and Ending Date/time information is not defined at the Sequence level. It is defined in the Finding Rule, instead of the reminder term. The finding rule (FR) name reflects the dates or the period of time represented by the beginning and ending dates. The national extract patient list name is sent to Austin with related total counts. The patient list names reflect enough information for Austin users to understand which patients the counts are related to. The number of patients on the patient list typically represent one of the patient denominators used for extract reports.

Simple Rule Set definition with one List Rule

This rule set only has one step and it is used to build a list of all patients who had a diabetic diagnosis in the last five years.

```
          Name:  RS-DIABETIC PATIENTS
        Number:  20
         Class:  LOCAL

   Description:

     Rule Type:  RULE SET

    Component Rules
    ---------------

            Sequence: 001
  Seq Beginning Date: BDT-5Y
     Seq Ending Date: BDT
           Operation: ADD PATIENT
           List Rule: FR-DIABETIC DIAGNOSIS
         Description: This is a taxonomy for diabetic diagnosis.
           Rule Type: FINDING RULE
         Reminder Term: DIABETIC DIAGNOSIS
```

Expanded Rule Set with two List Rules

An example of a more complex rule set builds a list of all diabetic patients who have not had a diabetic eye exam.

```
Display/Edit Rule             Jun 08, 2006@12:29:21          Page:    2 of    3
+
         Name:  RS-DIAB PTS W/O DIAB EYE EXAM
        Number:  27
         Class:  LOCAL

   Description:

     Rule Type:  RULE SET

    Component Rules
    ---------------

            Sequence: 001
           Operation: ADD PATIENT
           List Rule: FR-DIABETIC DIAGNOSIS
         Description: This is a taxonomy for diabetic diagnosis.
           Rule Type: FINDING RULE
         Reminder Term: DIABETIC DIAGNOSIS

            Sequence: 002
           Operation: REMOVE
           List Rule: FR-DIABETIC EYE EXAM
         Description:
           Rule Type: FINDING RULE
         Reminder Term: DIABETIC EYE EXAM
```

Step 001 initializes the list with all patients who have a diabetic diagnosis and step 002 removes any patients who have had a diabetic eye exam. The result is a list containing all diabetic patients who have **not** had a diabetic eye exam.

Note: The name of the Rule Set is summarized text representing the combination of the List Rules.

National Rule Set Example

Below is an example of one of the nationally released rule sets for the IHD QUERI extract. The rule set contains four finding rules.

```
Display/Edit Rule             Jun 01, 2006@10:21:39          Page:    1 of    4

          Name:  VA-*IHD QUERI PTS WITH QUALIFY VISIT
        Number:  7
         Class:  NATIONAL

   Description:  IHD patients with a qualifying visit.

     Rule Type:  RULE SET

    Component Rules
    ---------------

            Sequence: 001
           Operation: ADD PATIENT
           List Rule: VA-*IHD QUERI DIAGNOSIS
         Description: Patients with IHD diagnosis in past 5 years.
           Rule Type: FINDING RULE
         Reminder Term: VA-IHD DIAGNOSIS
     LR Beginning Date: BDT-5Y

            Sequence: 002
           Operation: SELECT
           List Rule: VA-*IHD QUERI QUALIFYING VISIT
         Description: Patients with visit to EPRP locations in report period.
           Rule Type: FINDING RULE
         Reminder Term: VA-IHD QUERI QUALIFYING ENCOUNTER
     LR Beginning Date: BDT
        LR Ending Date: T

            Sequence: 003
           Operation: REMOVE
           List Rule: VA-*IHD QUERI AMI DIAGNOSIS WITHIN 60 DAYS
         Description: Patients with Inpatient AMI Diagnosis within 60 days.
           Rule Type: FINDING RULE
         Reminder Term: VA-IHD AMI DIAGNOSIS WITHIN 60 DAYS

            Sequence: 004
           Operation: INSERT FINDING
           List Rule: VA-*IHD QUERI ASSOCIATE PRIMARY CARE STATION
         Description: Associate primary facility.
           Rule Type: FINDING RULE
         Reminder Term: VA-IHD STATION CODE
```

This rule set gets all patients with an IHD Diagnosis documented within 5 years prior to the report start date. This list of patients is modified in sequence 002 to remove all patients that have not had a visit documented for an EPRP clinic location during the reporting month, where T in the Beginning Date

represents the report start date and T in the Ending Date represents the report ending date. This list is further modified in sequence 003 to remove patients that have an AMI diagnosis documented within the past 60 days. The patient list after sequence 003 is further modified by associating each patient's primary care station and storing the station with each patient in the patient list.
National list rules cannot be modified.

Steps to Create a Patient List

This is the sequence of steps to create a patient list:

1. Create list rules (FR, RR, or PLR)
2. Create rule sets
3. Create patient list

You must create list rules first. Once list rules are defined, they can be referenced in a rule set. Once the rule set is defined, the patient list tools can use the rule set to create a patient list.

NOTE: The Reminder Definition that is used in a Reminder Rule must have "L" (Reminder Patient List) in the Usage field or it will not be able to be used in the Reminder Rule

Prior to creating list rules and rule sets, it is a good idea to write down the criteria clearly enough so that anyone else will know exactly how the patient list should be built.

- What patient finding(s) should be used to build the list of patients?
- What finding should be used to create the first list of patients?
- Should this list be modified to remove patients with a particular finding?
- Should this list be modified to remove patients that do not have a particular finding?
- For each finding, what are the appropriate beginning and ending dates?
- What sequence will have the least impact on computer system resources?
- Who should be able to see the patient list?

The criteria for building a reminder patient list can be documented in the description field of the rule set. The criteria should take into consideration the most efficient sequence in which patient extracts should occur, to limit unnecessary impacts on system operations.

Patient List Menu

The Patient List Menu option on the PXRM MANAGERS MENU provides the following options for creating and managing list rules and patient lists.

Syn.	Name	Option Name	Description
LRM	List Rule Management	PXRM LIST RULE MANAGEMENT	This option allows creation of list rules, which build patient lists and test rule set criteria. Nationally released list rules are used by nationally released extract definitions for national extract runs. There are four types of list rules: Finding Rule, Reminder Rule, Patient List Rule, and Rule Set.
PLM	Patient List Management	PXRM EXTRACT PATIENT LIST	This option manages reminder patient lists. Local patient lists may be created from list rules, copied to OE/RR teams, copied to other patient lists, or deleted. Local patient lists and national patient lists (from the extract process) are listed. Individual lists may be displayed or printed or used to run health summaries.

List Rule Management Option

The List Rule Management option presents a list of existing reminder rule file entries. The possible actions available for each type of entry are presented in the bottom portion of the screen.

List Rule Management screen example:

```
List Rule Management          Jun 01, 2006@08:44:21          Page:    1 of    1

 Item  Rule Set Name                                                  Class
    1  VA-*IHD QUERI 412 PTS WITH QUALIFY AND ANCHOR VISIT             NATIONAL
    2  VA-*IHD QUERI 412 PTS WITH QUALIFY AND ANCHOR VISIT ON LLA M    NATIONAL
    3  VA-*IHD QUERI PTS WITH QUALIFY AND ANCHOR VISIT                 NATIONAL
    4  VA-*IHD QUERI PTS WITH QUALIFY AND ANCHOR VISIT ON LLA MEDS     NATIONAL
    5  VA-*IHD QUERI PTS WITH QUALIFY VISIT                            NATIONAL
    6  VA-*MH QUERI QUALIFYING PC VISIT                                NATIONAL
    7  VA-*MH QUERY QUALIFYING MH VISIT                                NATIONAL
          + Next Screen   - Prev Screen   ?? More Action
CV   Change View                        TEST Test Rule Set
CR   Create Rule                        QU   Quit
DR   Display/Edit Rule
Select Item: Quit//
```

The default view is Rule Set; this screen is used to create, edit, and test rule sets. The Test Rule Set action applies only to rule sets. It can be used to test a rule set before it is used to build a patient list. When you use this action you enter list build beginning and ending dates, and then the rule set processes list rules in the sequential order defined in the rule set. For each sequence/step in the rule set, it shows you the list rule, and if the list rule uses a term or a definition, it shows all the findings and the final dates used for each finding.

Test Rule Set example

```
Rule Set Test          Oct 17, 2005@10:05:06          Page:    1 of    2
Rule Set Test

List Build Beginning Date: 10/17/2000
List Build Ending Date: 10/17/2005

SEQUENCE 1 FR-DIABETIC DIAGNOSIS
 TERM DIABETIC DIAGNOSIS
  FINDING 1-TX.VA-DIABETES
   Beginning Date/Time: 06/01/2003
   Ending Date/Time:    07/25/2004@23:59:59
  FINDING 2-HF.OUTSIDE DIABETIC DIAGNOSIS
   Beginning Date/Time: 02/28/1999
   Ending Date/Time:    08/29/2001@23:59:59

SEQUENCE 2 VA-*IHD QUERI ASSOCIATE PRIMARY CARE STATION
 TERM VA-IHD STATION CODE

SEQUENCE 3 FR-BMI
TERM BMI
  FINDING 1-CF.VA-BMI
   Beginning Date/Time: 10/17/2000
   Ending Date/Time:    10/17/2005@23:59:59

SEQUENCE 004 FR-FINGERSTICK
 TERM FINGERSTICK, GLUCOSE
  FINDING 1-OI.FINGERSTICK,GLUCOSE(WARD)
   Beginning Date/Time: 10/17/2000
   Ending Date/Time:    10/17/2005@23:59:59
          + Next Screen   - Prev Screen   ?? More Action
Select Action:Next Screen//
```

Note that a local rule set can use national list rules, mixed with local list rules. Sequence 002 specifies a List Rule that identifies the facility that should receive the counts for the patient in a list.

The Change View (CV) action is used to select the screens for other types of list rules.

```
Select Item: Quit// CV   Change View

     Select one of the following:

          F         Finding Rule
          P         Patient List Rule
          R         Reminder Rule
          S         Rule Set

TYPE OF VIEW: F//F
```

If we select the finding rule view, then the display changes to show the newly selected view.

```
List Rule Management          Jun 01, 2006@08:55:48          Page:    1 of    1

 Item  Finding Rule Name                                                Class
    1  FR-BMI                                                          LOCAL
    2  FR-DIABETIC DIAGNOSIS                                           LOCAL
    3  VA-*IHD QUERI 412 DIAGNOSIS                                     NATIONAL
    4  VA-*IHD QUERI AMI DIAGNOSIS WITHIN 60 DAYS                      NATIONAL
    5  VA-*IHD QUERI ANCHOR VISIT                                      NATIONAL
    6  VA-*IHD QUERI ASSOCIATE PRIMARY CARE STATION                    NATIONAL
    7  VA-*IHD QUERI DIAGNOSIS                                         NATIONAL
    8  VA-*IHD QUERI LIPID LOWERING MEDS                               NATIONAL
    9  VA-*IHD QUERI QUALIFYING VISIT                                  NATIONAL
   10 VA-*MH QUERI QUALIFY MH VISIT                                    NATIONAL
   11 VA-*MH QUERI QUALIFY PC VISIT                                    NATIONAL
          + Next Screen   - Prev Screen   ?? More Action
CV   Change View                        TEST Test Rule Set
CR   Create Rule                        QU   Quit
DR   Display/Edit Rule
Select Item: Quit//
```

When you are in the desired view, the CR (Create Rule) action is used to create a new list rule and the DR (Display/Edit Rule) action is used to display/edit an existing rule. Note that typing the item number is the same as selecting the DR action.

Patient List Management Option

The Patient List Management option presents a list of available reminder patient lists. The patient lists displayed will include local and national patient lists that you have access to.

Note on national patient lists: The example below includes several national patient lists created by the monthly VA-IHD QUERI extract runs. Each month the VA-IHD QUERI extract was run, there were five different national patient lists created. Each patient list has a unique name with abbreviated text in the patient title to reflect the criteria used to create the list. Each of the five patient lists was used by extract reporting tools to evaluate reminders and create compliance and finding totals. See the section called National Reminder Extract Reporting for more information on Reminder Extract Report processing.

Patient List Management screen example

```
Reminder User Patient List    Jun 01, 2006@12:08:18          Page:    1 of    7
Available Patient Lists.
 Item  Reminder Patient List Name                      Created          Patients
    1  VA-*IHD QUERI 2000 M4 412 PTS WITH QUALIFY AN  4/27/04@11:55:43        0
    2  VA-*IHD QUERI 2000 M4 412 PTS WITH QUALIFY AN  4/27/04@11:55:43        0
    3  VA-*IHD QUERI 2000 M4 PTS WITH QUALIFY AND AN  4/27/04@11:55:43        0
    4  VA-*IHD QUERI 2000 M4 PTS WITH QUALIFY AND AN  4/27/04@11:55:43        0
    5  VA-*IHD QUERI 2000 M4 PTS WITH QUALIFY VISIT   4/27/04@11:55:43        0
    6  VA-*IHD QUERI 2001 M10 412 PTS WITH QUALIFY A  7/20/04@08:28:08        2
    7  VA-*IHD QUERI 2001 M10 412 PTS WITH QUALIFY A  7/20/04@08:28:09        0
    8  VA-*IHD QUERI 2001 M10 PTS WITH QUALIFY AND A  7/20/04@08:28:08        4
    9  VA-*IHD QUERI 2001 M10 PTS WITH QUALIFY AND A  7/20/04@08:28:08        0
   10  VA-*IHD QUERI 2001 M10 PTS WITH QUALIFY VISIT  7/20/04@08:28:07        5
   11  VA-*IHD QUERI 2001 M11 412 PTS WITH QUALIFY A  7/20/04@08:31:23        0
   12  VA-*IHD QUERI 2001 M11 412 PTS WITH QUALIFY A  7/20/04@08:31:23        0
   13  VA-*IHD QUERI 2001 M11 PTS WITH QUALIFY AND A  7/20/04@08:31:23        0
   14  VA-*IHD QUERI 2001 M11 PTS WITH QUALIFY AND A  7/20/04@08:31:23        0
   15  VA-*IHD QUERI 2001 M11 PTS WITH QUALIFY VISIT  7/20/04@08:31:23        0
   16  VA-*IHD QUERI 2001 M12 412 PTS WITH QUALIFY A  7/20/04@08:35:47        0
          + Next Screen   - Prev Screen   ?? More Action
CO   Copy Patient List    DE   Delete Patient List  CV   Change View
COE  Copy to OE/RR Team   DCD  Display Creation Doc LRM  List Rule Management
CR   Create Patient List  DSP  Display Patient List QU   Quit
Select Item: Next Screen//
```

The actions on this screen are:

- CO (Copy Patient List) – copy an existing patient list to a new patient list
- COE (Copy to OE/RR Team) – copy a patient list to an OE/RR Team list
- CR (Create Patient List) – create a new patient list
- DE (Delete Patient List) – delete selected patient list(s)
- DCD (Display Creation Doc) – display the documentation on how a patient list was created
- DSP (Display Patient List) – display the contents of a patient list
- CV(Change View) – toggles the display order of the list between one sorted by list name and one sorted by list type
- LRM (List Rule Management) – this action takes you to the List Rule Management screen

When creating a local patient list, you are given the option to secure the list or to make it public for all to use. The type of security on the list is available by scrolling the list to the right.
When viewing the list of patient lists, there are two symbols: "<<<"and ">>>" on the action line. These are standard List Manager symbols that mean you can scroll the view to the left using the left arrow key

and to the right using the right arrow key. If the view is scrolled to the right, you can see the "Type" of list, public (PUB) or private (PVT), and your "Access" to the list full (F) or view (V).

If the list has a Type of PUB, then the list can be used by all users with access to the Patient List Management option. The level of Access may be restricted to View (Read Only), or Full access (Delete, and Update actions).

For any secure list, the creator of the patient list can add additional users to the list and assign one of two permissions to the user; view only or full access.

This is an example of a screen that has been scrolled to the right. Note that the sequence number and patient list name are still displayed on the left side of the column with the Type and Access columns.

```
Reminder User Patient List    Sep 27, 2005@09:36:05          Page:    1 of    8
Available Patient Lists.
+Item  Reminder Patient List Name                        Type  Access
    5  AGP IHD EXTRACT WITH QUALIFY VISIT                 PVT    F
    6  AGP IHD QUERI PTS WITH QUALIFY AND ANCHOR VIS      PVT    F
    7  AGP OE/RR TEAM 1                                   PUB    F
    8  AGP OERR TEAM LIST                                 PUB    F
    9  CRPATIENT                                          PUB    F
   10  CRPATIENT2                                         PUB    F
   11  DIAB PTS W/O DIAB EYE EXAM                         PUB    F
   12  PJH EXTRACT 2004 M10 BP                            PVT    V
          + Next Screen   - Prev Screen   ?? More Action
CO   Copy Patient List    DE   Delete Patient List  CV   Change View
COE  Copy to OE/RR Team   DCD  Display Creation Doc LRM  List Rule Management
CR   Create Patient List  DSP  Display Patient List QU   Quit
Select Item: Next Screen//
```

Patient List Creation Action

When you select the CR (Create Patient List) action, there are a number of prompts that must be answered before the patient list can be created. The following is a detailed explanation of each of these prompts.

Secure List?
If the answer to this prompt is "YES," the list becomes a private list, which means that the only people who can view the list are the creator, anyone who the creator has given view access, and anyone who holds the PXRM MANAGER KEY.

Purge Patient List after 5 years?
The response to this prompt sets the value of the Patient List file field AUTOMATICALLY PURGE. Whenever an automatic extract is run, if a patient list is more than 5 years old, AUTOMATICALLY PURGE is checked, and if its value is "YES," the patient list is deleted.

Select LIST RULE SET
This is the rule set that is used to construct the list.

Enter Patient List BEGINNING DATE
This prompt is used to enter the values for the list build beginning date. The value entered can be:
standard Clinical Reminders symbolic dates like T-5Y,
an actual date like 09/30/2005; any of the standard FileMan date formats are acceptable.

Enter Patient List ENDING DATE
This prompt is used to enter the values for the list build beginning date. The value entered can be: standard Clinical Reminders symbolic dates like T-5Y,
an actual date like 09/30/2005; any of the standard FileMan date formats are acceptable.

Include deceased patients on the list? N//The default is to not include deceased patients in patient lists. If the answer to this prompt is "YES," then deceased patients will be included.

Include test patients on the list? N//The default is to not included test patients in patient lists. If the answer to this prompt is "YES," then test patients will be included.

Dates in Patient Lists

When you build a patient list, you are prompted to enter a Beginning Date and an Ending Date; for the purposes of this discussion we will call these the Patient List Beginning Date (PL BDT) and the Patient List Ending Date (PL EDT). There can also be a beginning date and ending date specified for each sequence in a rule set, for a finding rule, and for each finding in a term or definition.

These dates specify the period of time in which to search for patient data so it is important to understand the relationships between the BDT and EDT values at each level. For discussion purposes, the Beginning Date at the sequence, finding rule, and reminder term level is referred to as BDT, and Ending Date is referred to as EDT. For each level, the BDT and EDT values represent the date range that will be used to search for the findings.

The following is the hierarchy of date ranges and options for values that can be defined in the BDT and EDT fields at each level.

1) Patient List BDT and EDT (required)

- Patient List BDT and EDT values are entered by the person creating the patient list.
- The Patient List BDT is represented symbolically by "BDT" and may be used in any of the list rule dates.
- The Patient List EDT is represented symbolically by "T" and may be used in any of the list rule dates. If "T" is used in the term or definition date fields it will take the value of the patient list EDT.

2) Sequence BDT and EDT for each rule in the rule set (optional)

- Dates defined at the sequence level override those defined at the patient list level.
- Actual dates are used directly.
- Symbolic values can be used for both the BDT and EDT. The symbol "BDT" is equal to the PL BDT so a date such as "BDT-6M" is PL BDT minus 6 months. The symbol "T" is equal to the PL EDT.
- When 0 is entered for BDT it means start at the beginning of patient data and 0 for EDT means ignore PL EDT and use the end of today for the end of the search range.

3) Finding Rule BDT and EDT (optional)

- Dates defined in the finding rule override those defined at the sequence.
- Actual dates are used directly.
- Symbolic values can be used for both BDT and EDT. The symbol "BDT" is equal to the PL BDT so a date such as "BDT-6M" PL BDT minus 6 months. The symbol "T" is equal to the PL EDT.
- When 0 is entered for BDT it means start at the beginning of patient data and 0 for EDT means ignore PL EDT and use the end of today for the end of the search range.

4) Reminder Term and Definition BDT and EDT (optional)

- Each finding can optionally be defined with BDT and EDT values and these will override those defined at the finding rule and/or sequence level.
- Actual dates are used directly.
- Symbolic dates can only use "T" which is equal to PL BDT.

Summary of date range overrides when searching for a particular finding

- The patient list BDT and EDT define the default date range to use to search for a particular finding unless the BDT or EDT is defined for the Rule Set Sequence, Finding Rule, or Reminder Term or Definition Finding.

- For each sequence in the rule set, you can override the Patient List's BDT or EDT by adding a BDT and EDT for each sequence in the Rule Set.

- For each Finding rule defined in a rule set sequence, you can override the Rule Set Sequence BDT and EDT value and the Patient List's BDT or EDT value by adding a BDT and EDT for the Finding Rule.

- For each Finding defined in a Reminder Term, you can override the BDT and EDT values at the Finding Rule, Rule Set Sequence and Patient List levels by adding a BDT and EDT for each finding in the Reminder Term or Definition.

- The following table summarizes the possible interactions between the various dates based on a Patient List Beginning Date of Sep 01, 2005 and Ending Date of Sep 30, 2005. This example is creating a patient list for the month of September 2005.

The table columns are as follows:

- Date Range # represents the various examples of how to define the Beginning Date Time (abbreviated in the Date Fields column as BDT) and Ending Date Time (abbreviated in the Date Fields column as EDT) in the four columns (List Build Date Range, Rule Set Sequence, Finding Rule, and Reminder Term Findings
- The Date Fields column shows BDT or EDT to represent the beginning date/time or ending date/time for each level that beginning and ending dates can be defined (List Build, Rule Set Sequence, Finding Rule, and Reminder Term Finding.
- The List Build column represents the dates you are prompted for when building a patient list. If run from an extract, this column is the extract's reporting period.

- The Rule Set Sequence column represents date values defined at the sequence level in a rule set.
- The Finding Rule column represents date field values defined in the list Finding Rule.
- The Reminder Term Finding column represents date field values defined at the finding level for a reminder term.
- The Search Date Range for Finding column shows the dates that will be used for each scenario when the list is actually built.

Times can optionally be specified, but if they are not, the beginning date/time defaults to the start of the day and the ending date/time defaults to the end of the day.

Whenever T is used in the Rule Set Sequence, Finding Rule, or Reminder Term Finding columns, T will always be equal to the List Build Ending Date/time.

Whenever BDT is used in the Rule Set Sequence, Finding Rule, or Reminder Term Finding columns, BDT will always be equal to the List Build Beginning Date/time.

Date Range #	Date Fields	List Build	Rule Set Sequence	Finding Rule	Reminder Term Finding	Search Date Range for Finding
1	BDT	Sep 01, 2005	Blank			Sep 01, 2005
	EDT	Sep 30, 2005	Blank			Sep 30, 2005
2	BDT	Sep 01, 2005	T-2Y			Sep 30, 2003
	EDT	Sep 30, 2005	Blank, same as T or EDT			Sep 30, 2005
3	BDT	Sep 01, 2005	BDT-2Y			Sep 01, 2003
	EDT	Sep 30, 2005	T-1Y			Sep 30, 2004
4	BDT	Sep 01, 2005	BDT-6M			Mar 01, 2005
	EDT	Sep 30, 2005	BDT			Sep 01, 2005
5	BDT	Sep 01, 2005	0 (zero)			No beginning date
	EDT	Sep 30, 2005	Mar 28, 2003			Mar 28, 2003
6	BDT	Sep 01, 2005	Apr 09, 2001			Apr 09, 2001
	EDT	Sep 30, 2005	Mar 28, 2003			Mar 28, 2003
7	BDT	Sep 01, 2005	Apr 09, 2001			Apr 09, 2001
	EDT	Sep 30, 2005	0 (zero)			End of day on date the list is built.
8	BDT	Sep 01, 2005		T-2Y		Sep 30, 2003
	EDT	Sep 30, 2005		T-1Y		Sep 30, 2004
9	BDT	Sep 01, 2005		BDT-2Y		Sep 01, 2003
	EDT	Sep 30, 2005		Blank or T		Sep 30, 2005

10	BDT	Sep 01, 2005		BDT-6M		Mar 01, 2005
	EDT	Sep 30, 2005		BDT		Sep 01, 2005
11	BDT	Sep 01, 2005		0 (zero)		No beginning date
	EDT	Sep 30, 2005		Mar 28, 2003		Mar 28, 2003
12	BDT	Sep 01, 2005		Apr 09, 2001		Apr 09, 2001
	EDT	Sep 30, 2005		Mar 28, 2003		Mar 28, 2003
13	BDT	Sep 01, 2005		Apr 09, 2001		Apr 09, 2001
	EDT	Sep 30, 2005		0 (zero)		End of day on date the list is built.
14	BDT	Sep 01, 2005			T-2Y	Sep 30, 2003
	EDT	Sep 30, 2005			T-1Y	Sep 30, 2004
15	BDT	Sep 01, 2005			0 (zero)	No beginning date
	EDT	Sep 30, 2005			BDT	Sep 30, 2005
16	BDT	Sep 01, 2005			Apr 09, 2001	Apr 09, 2001
	EDT	Sep 30, 2005			Mar 28, 2003	Mar 28, 2003
17	BDT	Sep 01, 2005	T-2Y	T-1Y		Sep 30, 2004
	EDT	Sep 30, 2005	T-1Y	T-6M		Mar 28, 2005
18	BDT	Sep 01, 2005	Jun 01, 2003	BDT		Sep 1, 2005 (BDT > EDT; no finding match will be found)
	EDT	Sep 30, 2005	Jul 25, 2004	T-6M		March 30, 2005
19	BDT	Sep 01, 2005	T-1Y	BDT-6M	T-1Y	Sep 30, 2004
	EDT	Sep 30, 2005	T	BDT	T-6M	Mar 31, 2005
20	BDT	Sep 01, 2005	Apr 09, 2001		T-2Y	Sep 30, 2003
	EDT	Sep 30, 2005	Feb 28, 2002		Blank or T	Sep 30,2005
21	BDT	Sep 01, 2005	T-2Y		T-1Y	Sep 30, 2004
	EDT	Sep 30, 2005	0 (zero)		T-6M	Mar 31, 2005
22	BDT	Sep 01, 2005		Apr 09, 2001	Jun 01, 2003	Jun 01, 2003
	EDT	Sep 30, 2005		Feb 28, 2002	Jul 25, 2004	Jul 25, 2004

Date Range #1 shows that if no dates are defined at the sequence, finding rule, or reminder term finding level, the List Build dates are used to search for the finding defined in the reminder term.

Date Range #2-7 are examples of the Rule Set Sequence BDT and EDT overriding the List Build BDT and EDT. The Rule Set Sequence BDT and EDT dates are used to determine the date range to use for the finding in the reminder term.

Date Range #2 shows symbolic dates defined at the sequence level using "T". T is the List Build ending date/time.

Date Range #3 shows symbolic dates defined at the sequence level using "BDT" (the List Build Beginning Date/time) and "T" (the List Build Ending Date Time).

Date Range #4 shows symbolic dates defined at the sequence level using "BDT" (the List Build Beginning date/time) in both the Rule Set Sequence BDT and EDT fields.

Date range #5 shows 0 (zero) entered as the sequence level beginning date with an actual date specified as the sequence level ending date. The 0 will cause the search for the finding to not limit how far back in history a reminder finding will be looked for, which is similar to the way a finding works in a reminder definition when the finding has a blank beginning date. The actual date entered as the ending date will be used directly, overriding the List Build end date.

Date range #6 shows that when actual dates are defined at the sequence level, they take precedence and are used directly.

Date range #7 shows an actual date specified as the sequence level beginning date, and "0" (zero) entered as the sequence level ending date. The actual date entered as the beginning date will be used directly, overriding the List Build beginning date. The "0" in the Sequence ending date will cause the search for the Reminder Term finding to use the end of the day on the day the patient list is created, overriding the List Build ending date. The actual date specified will be the beginning date, and TODAY@11:59pm will be used as the ending date.

Date Range #8-13 are examples of the Finding Rule BDT and EDT overriding the List Build BDT and EDT. The Finding Rule BDT and EDT dates are used to search for the findings defined in the finding rule's reminder term.

Date Range #8 shows symbolic dates defined at the finding rule level using "T" (the List Build ending date/time).

Date Range #9 shows symbolic dates defined at the finding rule level using "BDT" (List Build Beginning date/time) and "T"(List Build Ending date/time. If there is no EDT value defined in the Finding Rule EDT, then the List Build Ending date/time is used.

Date Range #10 shows symbolic dates defined at the finding rule level using "BDT" (the Patient List Beginning date/time).

Date range #11 shows "0" (zero) entered as the finding rule level beginning date and an actual date specified as the finding rule level ending date. The "0" will cause the search for the finding to not limit how far back in history the finding will be looked for, which is similar to the way a finding works in a reminder definition when the finding has a blank beginning date. The actual date entered as the ending date will be used directly, overriding the List Build ending date.

Date range #12 shows that when actual dates are defined in the BDT and EDT fields at the finding rule level, they override the List Build BDT and EDT.

Date range #13 shows an actual date specified as the finding rule level beginning date, and “0” (zero) entered as the finding rule level ending date. The actual date entered as the beginning date will be used directly, overriding the Patient List beginning date. The “0” (zero) in the finding rule ending date will use the end of the day on the day the patient list is created, overriding the List Build ending date. The date range used to search for the reminder term findings becomes the actual beginning date through the end of the day on the date the list is built(TODAY@11:59pm).

Date Range #14-17 are examples of the Reminder Term Finding BDT and EDT overriding the List Build BDT and EDT. The BDT and EDT dates are used to search for the findings defined in the finding rule’s reminder term.

Date Range #14 shows symbolic dates defined at the finding rule level using “T” (the List Build ending date/time).

Date range #15 shows “0” (zero) entered as the finding rule level beginning date and uses the symbolic BDT (List Build Beginning date/time) as the ending date. actual date specified as the finding rule level ending date. The “0” will cause the search for the finding to not limit how far back in history the finding will be looked for, which is similar to the way a finding works in a reminder definition when the finding has a blank beginning date. .

Date range #16 shows that when actual dates are defined in the BDT and EDT fields at the finding rule level, they override the List Build BDT and EDT.

Date range #17 and 18 are examples of what happens when Beginning and Ending date/time values are defined at the List Rule Sequence level and Finding Rule level. The Finding Rule level’s beginning and ending date values will override the List Rule Sequence level’s beginning and ending date values. BDT values are replaced with the List Build beginning date/time and T values are replaced with the Lit Build Ending date/time.

Date range #19 is an example of beginning and ending date values defined at every level, and where the Reminder Term Finding Beginning date/time and Ending date/time override all other levels.

Date range #20-22 is an example of the Reminder Term Findings beginning and ending date/times overriding miscellaneous other levels of beginning and ending date/time definitions.

Creating a Simple Patient List

As an example, let's build a list of all our diabetic patients.

1. Create a Reminder rule using a reminder term

The first thing we must do is find or create a reminder term that identifies diabetes patients. If you are not familiar with how to do this, see the Reminder Term Management section of this manual. The examples below assume the following Reminder Term defines the criteria to identify diabetes patients.

Diabetic Diagnosis term:

```
DIABETIC DIAGNOSIS                                              No.606
---------------------------------------------------------------------------
Class:                  LOCAL
Sponsor:
Date Created:
Review Date:

Description:

Edit History:

    Edit Date: JUN  3,2005  09:54       Edit By:
    Edit Comments:

Findings:

                   Finding Item:  VA-DIABETES  (FI(1)=TX(28))
                   Finding Type:  REMINDER TAXONOMY
```

The Reminder Term called DIABETIC DIAGNOSIS is defined to use the Finding Item VA-DIABETES to identify whether a patient has a diabetic diagnosis.

Use the Reminder Term to build a List Rule

1a. Select the List Rule Management option.

```
List Rule Management                Jun 03, 2005@10:41:29 Page: 1 of 1

 Item  Rule Set Name                                                Class
    1  VA-*IHD QUERI 412 PTS WITH QUALIFY AND ANCHOR VISIT          NATIONAL
    2  VA-*IHD QUERI 412 PTS WITH QUALIFY AND ANCHOR VISIT ON LLA M NATIONAL
    3  VA-*IHD QUERI PTS WITH QUALIFY AND ANCHOR VISIT              NATIONAL
    4  VA-*IHD QUERI PTS WITH QUALIFY AND ANCHOR VISIT ON LLA MEDS  NATIONAL
    5  VA-*IHD QUERI PTS WITH QUALIFY VISIT                         NATIONAL
    6  VA-*MH QUERI QUALIFYING PC VISIT                             NATIONAL
    7  VA-*MH QUERY QUALIFYING MH VISIT                             NATIONAL
          + Next Screen   - Prev Screen   ?? More Actions              >>>CV
Change View                        TEST Test Rule Set
CR   Create Rule                        QU   Quit
DR   Display/Edit Rule
Select Item: Quit// CV   Change View
```

1b. Select CV to change the view

```
     Select one of the following:

          F         Finding Rule
          P         Patient List Rule
          R         Reminder Rule
          S         Rule Set

TYPE OF VIEW: F// Finding Rule
```

1c. Press Enter to accept the default of Finding Rule

1d. Select CR to create the rule.

```
List Rule Management          Jun 03, 2005@10:41:33          Page:    1 of    1
 Item  Finding Rule Name                                            Class

    1  VA-*IHD QUERI 412 DIAGNOSIS                                  NATIONAL
    2  VA-*IHD QUERI AMI DIAGNOSIS WITHIN 60 DAYS                   NATIONAL
    3  VA-*IHD QUERI ANCHOR VISIT                                   NATIONAL
    4  VA-*IHD QUERI ASSOCIATE PRIMARY CARE STATION                 NATIONAL
    5  VA-*IHD QUERI DIAGNOSIS                                      NATIONAL
    6  VA-*IHD QUERI LIPID LOWERING MEDS                            NATIONAL
    7  VA-*IHD QUERI QUALIFYING VISIT                               NATIONAL
    8  VA-*MH QUERI QUALIFY MH VISIT                                NATIONAL
    9  VA-*MH QUERI QUALIFY PC VISIT                                NATIONAL
          + Next Screen   - Prev Screen   ?? More Actions              >>>CV
Change View                        TEST (Test Rule Set)
CR   Create Rule                        QU   Quit
DR   Display/Edit Rule
Select Item: Quit// CR   Create Rule
```

1e. Respond to the prompts as indicated below to define the local rule.

```
Select FINDING RULE to add: FR-DIABETIC DIAGNOSIS
  Are you adding 'FR-DIABETIC DIAGNOSIS' as
    a new REMINDER LIST RULE (the 19TH)? No// Y  (Yes)

NAME: FR-DIABETIC DIAGNOSIS  Replace
SHORT DESCRIPTION:
CLASS: L  LOCAL
REMINDER TERM:    DIABETIC DIAGNOSIS     LOCAL
         ...OK? Yes// Y  (Yes)

LIST RULE BEGINNING DATE/TIME:
LIST RULE ENDING DATE/TIME:
Input your edit comments.
Edit? NO//
```

1f. The new finding rule is now displayed in the list of Finding Rules.

```
List Rule Management  Jun 03, 2005@10:42:11          Page:    1 of    1
 Item  Finding Rule Name                                          Class

    1  FR-DIABETIC DIAGNOSIS                                      LOCAL
    2  VA-*IHD QUERI 412 DIAGNOSIS                                NATIONAL
    3  VA-*IHD QUERI AMI DIAGNOSIS WITHIN 60 DAYS                 NATIONAL
    4  VA-*IHD QUERI ANCHOR VISIT                                 NATIONAL
    5  VA-*IHD QUERI ASSOCIATE PRIMARY CARE STATION               NATIONAL
    6  VA-*IHD QUERI DIAGNOSIS                                    NATIONAL
    7  VA-*IHD QUERI LIPID LOWERING MEDS                          NATIONAL
    8  VA-*IHD QUERI QUALIFYING VISIT                             NATIONAL
    9  VA-*MH QUERI QUALIFY MH VISIT                              NATIONAL
   10  VA-*MH QUERI QUALIFY PC VISIT                              NATIONAL
         + Next Screen   - Prev Screen   ?? More Actions              >>>CV
Change View                        TEST (Test Rule Set)
CR   Create Rule                        QU   Quit
DR   Display/Edit Rule
Select Item: Quit//
```

2. Create the rule set.

Now that the finding rule has been created, we need to create the rule set.

2a. Select the List Rule Management option.

2b. Select CV to change the view to Rule Set.

```
List Rule Management          Jun 03, 2005@11:08:58          Page:    1 of    1
 Item  Finding Rule Name                                                Class

    1  FR-DIABETIC DIAGNOSIS                                             LOCAL
    2  VA-*IHD QUERI 412 DIAGNOSIS                                       NATIONAL
    3  VA-*IHD QUERI AMI DIAGNOSIS WITHIN 60 DAYS                        NATIONAL
    4  VA-*IHD QUERI ANCHOR VISIT                                        NATIONAL
    5  VA-*IHD QUERI ASSOCIATE PRIMARY CARE STATION                      NATIONAL
    6  VA-*IHD QUERI DIAGNOSIS                                           NATIONAL
    7  VA-*IHD QUERI LIPID LOWERING MEDS                                 NATIONAL
    8  VA-*IHD QUERI QUALIFYING VISIT                                    NATIONAL
    9  VA-*MH QUERI QUALIFY MH VISIT                                     NATIONAL
          + Next Screen   - Prev Screen   ?? More Actions                >>>CV
Change View                        TEST (Test Rule Set)
CR   Create Rule                        QU   Quit
DR   Display/Edit RuleSelect Item: Quit// CV   Change View
```

2c. Select S for Rule Set.

```
     Select one of the following:

          F         Finding Rule
          P         Patient List Rule
          R         Reminder Rule
          S         Rule Set

TYPE OF VIEW: F// S  Rule Set
```

2d. Select CR for Create Rule.

```
List Rule Management          Jun 03, 2005@11:09:03          Page:    1 of    1

 Item  Rule Set Name                                                    Class

    1  VA-*IHD QUERI 412 PTS WITH QUALIFY AND ANCHOR VISIT               NATIONAL
    2  VA-*IHD QUERI 412 PTS WITH QUALIFY AND ANCHOR VISIT ON LLA M      NATIONAL
    3  VA-*IHD QUERI PTS WITH QUALIFY AND ANCHOR VISIT                   NATIONAL
    4  VA-*IHD QUERI PTS WITH QUALIFY AND ANCHOR VISIT ON LLA MEDS       NATIONAL
    5  VA-*IHD QUERI PTS WITH QUALIFY VISIT                              NATIONAL
    6  VA-*MH QUERI QUALIFYING PC VISIT                                  NATIONAL
          + Next Screen   - Prev Screen   ?? More Actions                >>>CV
Change View                        DR   Display/Edit Rule
CR   Create Rule                        QU   Quit
Select Item: Quit// CR   Create Rule
```

2e. Respond to the prompts as indicated, to define the Rule Set.

```
Select RULE SET to add: RS-DIABETIC PATIENTS
  Are you adding 'RS-DIABETIC PATIENTS' as
    a new REMINDER LIST RULE (the 20TH)? No// Y  (Yes)
NAME: RS-DIABETIC PATIENTS  Replace
SHORT DESCRIPTION:
CLASS: L  LOCAL
Select SEQUENCE: 1
  Are you adding '1' as a new SEQUENCE (the 1ST for this REMINDER LIST RULE)? Y
  (Yes)
   SEQUENCE LIST RULE: FR-DIABETIC DIAGNOSIS       FINDING RULE
  LIST RULE: FR-DIABETIC DIAGNOSIS//
  OPERATION: ADD  ADD PATIENT
  SEQUENCE BEGINNING DATE/TIME:
  SEQUENCE ENDING DATE/TIME:
Select SEQUENCE:
Input your edit comments.
Edit? NO//
```

2f. The new rule set is now displayed in the Rule Set list view of the Finding Rules.

```
List Rule Management          Jun 03, 2005@11:09:52          Page:    1 of    1

 Item  Rule Set Name                                                  Class

    1  RS-DIABETIC PATIENTS                                            LOCAL
    2  VA-*IHD QUERI 412 PTS WITH QUALIFY AND ANCHOR VISIT             NATIONAL
    3  VA-*IHD QUERI 412 PTS WITH QUALIFY AND ANCHOR VISIT ON LLA M    NATIONAL
    4  VA-*IHD QUERI PTS WITH QUALIFY AND ANCHOR VISIT                 NATIONAL
    5  VA-*IHD QUERI PTS WITH QUALIFY AND ANCHOR VISIT ON LLA MEDS     NATIONAL
    6  VA-*IHD QUERI PTS WITH QUALIFY VISIT                            NATIONAL
    7  VA-*MH QUERI QUALIFYING PC VISIT                                NATIONAL
    8  VA-*MH QUERY QUALIFYING MH VISIT                                NATIONAL
          + Next Screen   - Prev Screen   ?? More Actions                >>>CV
Change View                        DR   Display/Edit Rule
CR   Create Rule                   QU   QuitSelect Item: Quit//
```

3. Build the Patient List

Once the rule set has been created, the patient list can be built via the patient list management option.
3a. Select the Patient List Management option from the Patient List Menu.

```
Reminder User Patient List    Aug 10, 2005@15:02:21          Page:    1 of    1
Available Patient Lists.
 Item  Reminder Patient List Name                      Created          Patients
    1  VA-*IHD QUERI 2001 M01 412 PTS WITH QUALIFY A  8/5/05@11:12:16         0
    2  VA-*IHD QUERI 2001 M01 412 PTS WITH QUALIFY A  8/5/05@11:12:16         0
    3  VA-*IHD QUERI 2001 M01 PTS WITH QUALIFY AND A  8/5/05@11:12:16         0
    4  VA-*IHD QUERI 2001 M01 PTS WITH QUALIFY AND A  8/5/05@11:12:16         0
    5  VA-*IHD QUERI 2001 M01 PTS WITH QUALIFY VISIT  8/5/05@11:12:16         0
    6  VA-*IHD QUERI 2005 M1 412 PTS WITH QUALIFY AN  8/5/05@11:19:42         0
    7  VA-*IHD QUERI 2005 M1 412 PTS WITH QUALIFY AN  8/5/05@11:19:43         0
    8  VA-*IHD QUERI 2005 M1 PTS WITH QUALIFY AND AN  8/5/05@11:19:42         0
    9  VA-*IHD QUERI 2005 M1 PTS WITH QUALIFY AND AN  8/5/05@11:19:42         0
   10  VA-*IHD QUERI 2005 M1 PTS WITH QUALIFY VISIT   8/5/05@11:19:42         0
          + Next Screen   - Prev Screen   ?? More Actions                >>>CO
Copy Patient List     DE   Delete Patient List  CV   Change View
COE  Copy to OE/RR Team    DCD  Display Creation Doc LRM  List Rule Management
CR   Create Patient List   DSP  Display Patient List QU   Quit
Select Item: Quit// CR   Create Patient List
```

3b. Select the CR action to Create the Patient List.

```
Select PATIENT LIST name: DIABETIC PATIENTS 5Y
  Are you adding 'DIABETIC PATIENTS 5Y' as
    a new REMINDER PATIENT LIST? No// Y  (Yes)

Secure list?: N// O

Purge Patient List after 5 years?: N// O

Select LIST RULE SET: RS-DIABETIC PATIENTS       RULE SET

Enter Patient List BEGINNING DATE: T-5Y  (AUG 10, 2000)
Enter Patient List ENDING DATE: T  (AUG 10, 2005)

Include deceased patients on the list? N// O

Include test patients on the list? N// O
Queue the  CREATE PATIENT LIST for DIABETIC PATIENTS 5Y:
Enter the date and time you want the job to start.
It must be on or after 08/10/2005@15:02:49 N
Task number 236638 queued.
```

3c. Respond to the prompts as shown to queue a task job that will create the patient list and add the patient list to the REMINDER PATIENT LIST file. Note that the Patient List Name reflects the date range of 5Y. The Name of the Patient List needs to be as specific as possible to understand what patients are in the list. Note: If the desire is to create a new patient list each month with diabetic patients seen during each month, then Beginning Date and Ending Date would reflect the month period, and the name would include the month and year.

```
Reminder User Patient List    Aug 10, 2005@15:02:53          Page:    1 of    1
Available Patient Lists.
 Item  Reminder Patient List Name                      Created          Patients
    1  DIABETIC PATIENTS 5Y                            8/10/05@15:02:52        2
    2  VA-*IHD QUERI 2001 M01 412 PTS WITH QUALIFY A   8/5/05@11:12:16         0
    3  VA-*IHD QUERI 2001 M01 412 PTS WITH QUALIFY A   8/5/05@11:12:16         0
    4  VA-*IHD QUERI 2001 M01 PTS WITH QUALIFY AND A   8/5/05@11:12:16         0
    5  VA-*IHD QUERI 2001 M01 PTS WITH QUALIFY AND A   8/5/05@11:12:16         0
    6  VA-*IHD QUERI 2001 M01 PTS WITH QUALIFY VISIT   8/5/05@11:12:16         0
    7  VA-*IHD QUERI 2005 M1 412 PTS WITH QUALIFY AN   8/5/05@11:19:42         0
    8  VA-*IHD QUERI 2005 M1 412 PTS WITH QUALIFY AN   8/5/05@11:19:43         0
    9  VA-*IHD QUERI 2005 M1 PTS WITH QUALIFY AND AN   8/5/05@11:19:42         0
   10  VA-*IHD QUERI 2005 M1 PTS WITH QUALIFY AND AN   8/5/05@11:19:42         0
   11  VA-*IHD QUERI 2005 M1 PTS WITH QUALIFY VISIT    8/5/05@11:19:42         0
          + Next Screen   - Prev Screen   ?? More Actions                >>>CO
Copy Patient List    DE   Delete Patient List  CV   Change View
COE  Copy to OE/RR Team   DCD  Display Creation Doc LRM  List Rule Management
CR   Create Patient List  DSP  Display Patient List QU   QuitSelect Item: Quit//
```

3d. The new Patient List entry is added to the list of patient lists. When the tasked job has completed successfully, the new Patient List created by the job is displayed in the Reminder User Patient List with the date/time created and the number of patients included in the list.

Create Patient List - Expanded example

```
Reminder User Patient List    Aug 11, 2005@14:22:31
Page:    1 of    8
Available Patient Lists.
 Item  Reminder Patient List Name                        Created          Patients
    1  AGP 1                                             7/10/05@19:55:43       24
    2  AGP CREATED REMINDER REP                          7/26/05@13:48:23       25
    3  AGP EXTRACT TEST                                                          0
    4  AGP IHD EXTRACT WITH QUALIFY VISIT                7/1/05@11:03              0
    5  AGP IHD QUERI PTS WITH QUALIFY AND ANCHOR VIS     7/1/05@11:03:02           0
    6  AGP OE/RR TEAM 1                                  7/10/05@20:51:42       16
    7  AGP OERR TEAM LIST                                7/10/05@20:47:17       16
    8  AGP REMINDER TEST                                 7/25/05@11:17:24       25
    9  AGP REPORT TEST OF PURGE                          7/19/05@16:06:35        3
   10  AGP T4                                            7/10/05@20:05:02       24
   11  AGP TEST REMINDER 1                               7/25/05@11:48:36       23
   12  AGP TEST REMINDERS 2                              7/25/05@12:01:46       47
   13  FINGERSTICK                                       6/28/05@11:15:35       13
   14  FINGERSTICK (DEF)                                 7/6/05@09:51:42        15
   15  PJH EXTRACT 2004 M10 BP                           11/2/04@15:58:14        1
   16  PKR PUB                                           8/9/05@11:33           22
          + Next Screen   - Prev Screen   ?? More Actions                >>>CO   Copy
Patient List    DE   Delete Patient List  CV   Change View
COE  Copy to OE/RR Team   DCD  Display Creation Doc LRM  List Rule Management
CR   Create Patient List  DSP  Display Patient List QU   Quit
Select Item: Next Screen// CR   Create Patient List
```

```
Select PATIENT LIST name: DIAB PTS W/O DIAB EYE EXAM
  Are you adding 'DIAB PTS W/O DIAB EYE EXAM' as
    a new REMINDER PATIENT LIST? No// Y  (Yes)

Secure list?: N// O

Purge Patient List after 5 years?: N// O

Select LIST RULE SET: RS-DIAB
     1   RS-DIAB PTS W/O DIAB EYE EXAM       RULE SET
     2   RS-DIABETIC PATIENTS       RULE SET
CHOOSE 1-2: 1  RS-DIAB PTS W/O DIAB EYE EXAM     RULE SET

Enter Patient List BEGINNING DATE: T-5Y  (AUG 11, 2000)
Enter Patient List ENDING DATE: T  (AUG 11, 2005)

Include deceased patients on the list? N// O

Include test patients on the list? N// O
Queue the  CREATE PATIENT LIST for DIAB PTS W/O DIAB EYE EXAM:
Enter the date and time you want the job to start.
It must be on or after 08/11/2005@14:23:04 N
Task number 237005 queued.
```

```
Reminder User Patient List    Aug 11, 2005@14:23:08          Page:    1 of    8
Available Patient Lists. Item  Reminder Patient List Name                     Created
Patients     1  AGP 1                                          7/10/05@19:55:43
24
    2  AGP CREATED REMINDER REP                        7/26/05@13:48:23       25
    3  AGP EXTRACT TEST                                                        0
    4  AGP IHD EXTRACT WITH QUALIFY VISIT              7/1/05@11:03            0
    5  AGP IHD QUERI PTS WITH QUALIFY AND ANCHOR VIS   7/1/05@11:03:02         0
    6  AGP OE/RR TEAM 1                                7/10/05@20:51:42       16
    7  AGP OERR TEAM LIST                              7/10/05@20:47:17       16
    8  AGP REMINDER TEST                               7/25/05@11:17:24       25
    9  AGP REPORT TEST OF PURGE                        7/19/05@16:06:35        3
   10  AGP T4                                          7/10/05@20:05:02       24
   11  AGP TEST REMINDER 1                             7/25/05@11:48:36       23
   12  AGP TEST REMINDERS 2                            7/25/05@12:01:46       47
   13  DIAB PTS W/O DIAB EYE EXAM                      8/11/05@14:23:08       19
   14  FINGERSTICK                                     6/28/05@11:15:35       13
   15  FINGERSTICK (DEF)                               7/6/05@09:51:42        15
          + Next Screen   - Prev Screen   ?? More Actions                >>>CO   Copy
Patient List    DE   Delete Patient List  CV   Change View
COE  Copy to OE/RR Team   DCD  Display Creation Doc LRM  List Rule Management
CR   Create Patient List  DSP  Display Patient List QU   Quit
```

List number 13 is our newly created list and we see that it has 19 patients.

Working with Patient Lists

You can work with a patient list by selecting the DSP (Display Patient List) action. Here is an example:

```
Reminder User Patient List    Sep 29, 2005@10:25:44          Page:  1 of    8
Available Patient Lists. Item  Reminder Patient List Name                     Created
Patients

    6  AGP IHD QUERI PTS WITH QUALIFY AND ANCHOR VIS 7/1/05@11:03:02         0
    7  AGP OE/RR TEAM 1                              7/10/05@20:51:42        6
    8  AGP OERR TEAM LIST                            7/10/05@20:47:17       16
    9  AGP REMINDER TEST                             7/25/05@11:17:24       25
   10  AGP REPORT TEST OF PURGE                      7/19/05@16:06:35        3
   11  AGP T4                                        7/10/05@20:05:02       24
   12  AGP TEST REMINDER 1                           7/25/05@11:48:36       23
   13  AGP TEST REMINDERS 2                          7/25/05@12:01:46       47
   14  CRPATIENT                                     8/11/05@14:56:11       14
   15  CRPATIENT2                                    8/11/05@15:16:44       14
   16  DIAB PTS W/O DIAB EYE EXAM                    8/11/05@14:23:08       19
   17  FINGERSTICK                                   6/28/05@11:15:35       13
   18  FINGERSTICK (DEF)                             7/6/05@09:51:42        15
   19  PJH EXTRACT 2004 M10 BP                       11/2/04@15:58:14        1
   20  PKR PUB                                       9/29/05@10:19:51        2
   21  PKR PVT                                       6/17/05@12:13:15       26
          + Next Screen   - Prev Screen   ?? More Actions                >>>CO   Copy
Patient List    DE   Delete Patient List  CV   Change View
COE  Copy to OE/RR Team   DCD  Display Creation Doc LRM  List Rule Management
CR   Create Patient List  DSP  Display Patient List QU   QuitSelect Item: Next
Screen// DSP   Display Patient List
Select (s):  (6-21): 20
```

Enter DSP, and select the item number next to the patient list you want to view.

```
Reminder Patient List          Sep 29, 2005@15:08:17          Page:  1 of    1
List Name: PKR PUB (22 patients)
 Created: 09/29/2005@10:19:51           Creator: CRPROVIDER,THREE
 Class: Local                           Type: PUBLIC
 Source: List Rule - RS-DIABETIC PATIENTS       Patient Name                    DFN
PCMM Institution        1  AWHPATIENT,THREE                  40               NONE
    2  CRPATIENT,EIGHT                   39               NONE
    3  CRPATIENT,FIVE                    24               SALT LAKE CITY
    4  CRPATIENT,FOUR                    10               NONE
    5  CRPATIENT,ONE                  91290               NONE
    6  CRPATIENT,SEVEN                   54               NONE
    7  CRPATIENT,TEN           912345678906               NONE

          + Next Screen   - Prev Screen   ?? More Actions                    >>>CV
Change View          DEM  Demographic Report   QU   Quit
HSA  Health Summary All   ED   Edit Patient List
HSI  Health Summary Ind   USR  (View Users)Select Item: Quit//
```

Notice that this patient list includes a column with PCMM Institution. This information will be included when the rule set includes a list rule with the INSERT FINDING operation and a finding rule based on the reminder term VA-PCMM INSTITUTION or VA-IHD STATION CODE. This list rule should be added as the last step in the sequence of list rules in a rule set to ensure all patients in the final list are associated with a facility.

List Manager actions on the Reminder Patient List screen

- CV (Change View) – this lets you toggle between a view of the patient list sorted by PCMM Institution and patient name or sorted only by patient name
- HSA (Health Summary All) – this lets you run a selected health summary for all the patients on the list
- HSI – (Health Summary Ind) this lets you run a selected health summary for selected patients from a patient list.
- DEM (Demographic Report) – this lets you run a patient demographic report
- ED (Edit Patient List) – if you are the creator of the list you can use this action to edit the name and type of list; if you hold the PXRM MANAGER key you can also edit the creator of the list.
- USR (View Users) – this action is applicable only to private lists. If you are the creator of the list or hold the PXRM MANAGER key you can use this action to give other users either view only or full access to the patient list. You can also remove a user's access to the list.

Demographic Report

The Demographic Report can be used for a number of purposes, one of which is to facilitate contacting patients to make sure they receive the proper care. You can get a list of the patients and their phone numbers and addresses. The Demographic Report can produce output in a delimited format so that the information can be imported into another application to create personalized letters. If the output is imported into a spreadsheet, further analysis and sorting can be done.

Example

```
Demographic Report

Reminder Patient List          Feb 22, 2006@18:14:03          Page:    1 of    2
List Name: Diabetic Eye Exam (7 patients)
 Created: 08/11/2005@15:16:44           Creator: CRPROVIDER,ONE
 Class: Local                           Type: PUB
 Source: Reminder Due Report
        Patient Name                      DFN
    1   AWHPATIENT,THREE                   40
    2   CRPATIENT,EIGHT                    39
    3   CRPATIENT,FIVE                     24
    4   CRPATIENT,FOUR                     10
    5   CRPATIENT,ONE                   91290
    6   CRPATIENT,SEVEN                    54
    7   CRPATIENT,TEN            912345678906


+          + Next Screen   - Prev Screen   ?? More Actions                >>>
CV   Change View           DEM  Demographic Report   QU   Quit
HSA  Health Summary All    ED   Edit Patient List
HSI  Health Summary Ind   USR  (View Users)
Select Item: Next Screen// DEM   Demographic Report


Select the items to include on the report.

Select from the following address items:
 1 - CURRENT ADDRESS
 2 - PHONE NUMBER
Enter your selection(s):  (1-2): 1

Select from the following future appointment items:
 1 - APPOINTMENT DATE
 2 - CLINIC
Enter your selection(s):  (1-2): 1-2

Maximum number of appointments to display:  (1-25): 1// 2

Select from the following demographic items:
 1 - SSN
 2 - DATE OF BIRTH
 3 - AGE
 4 - SEX
 5 - DATE OF DEATH
 6 - REMARKS
 7 - HISTORIC RACE
 8 - RELIGION
 9 - MARITAL STATUS
10 - ETHNICITY
11 - RACE
Enter your selection(s):  (1-11): 1-4
```

```
Print full SSN: N// O

Include the patient's preferred facility? N// O

Select from the following eligibility items:
 1 - PRIMARY ELGIBILITY CODE
 2 - PERIOD OF SERVICE
 3 - % SERVICE CONNECTED
 4 - VETERAN
 5 - TYPE
 6 - ELIGIBILITY STATUS
 7 - CURRENT MEANS TEST
Enter your selection(s):  (1-7):

Select from the following inpatient items:
 1 - WARD LOCATION
 2 - ROOM-BED
 3 - ADMISSION DATE/TIME
 4 - ATTENDING PHYSICIAN
Enter your selection(s):  (1-5): 4

Include due status information for the following reminder(s):
 1 - Breast Exam
 2 - Problem Drinking Screen
 3 - Weight and Nutrition Screen
 4 - Cholesterol Screen (Male)
 5 - Hepatitis C Risk Assessment
 6 - Pheumovax
 7 - Alcohol Abuse Education
 8 - Exercise Education
 9 - Advanced Directives Education
 10 - Weight
 11 - IHD Lipid Profile
 12 - MST Screening
 13 - Smoking Cessation Education
 14 - Diabetic Eye Exam
Enter your selection(s):  (1-14): 30

Delimited Report:? Y// ES

DEVICE: HOME// ;;999  HOME
```

```
Patient Demographic Report
   Patient List: CRPROVIDER,ONE
   Created on Aug 11, 2005@15:16:44
PATIENT^STREET ADDRESS #1^STREET ADDRESS #2^STREET ADDRESS #3^CITY^STATE^ZIP^APP
OINTMENT DATE1^CLINIC1^APPOINTMENT DATE2^CLINIC2^SSN^DOB^AGE^SEX^ATTENDING^REMIN
DER30^STATUS30^DUE DATE30^LAST DONE30^\\
AWHPATIENT,THREE^123 SESAME ST^^^SALT LAKE CITY^UTAH^84101^^^^^0003^JAN 1,
1951^55^FEMALE^WHPROVIDER,THREE^Diabetic Eye Exam^DUE NOW^DUE NOW^unknown^\\
CRPATIENT,EIGHT^^^^^^^^^^^7892^MAY 19,1952^53^FEMALE^^Diabetic Eye Exam^DUE NOW^DUE NO
W^unknown^\\
CRPATIENT,FIVE^^^^^^^^^^^3242^MAR 3,1914^91^MALE^^Diabetic Eye Exam^DUE NOW^DUE N
OW^unknown^\\
CRPATIENT,FOUR^^^^^^^^^^^3242^OCT 23,1927^78^^^Diabetic Eye Exam^DUE NOW^DUE NOW^
unknown^\\
CRPATIENT,ONE^^^^^^^^^^^8828^APR 19,1967^38^MALE^^Diabetic Eye Exam^DUE NOW^DU
E NOW^unknown^\\
CRPATIENT,SEVEN^RON^^^RUBY RIDGE^IDAHO^85098^^^^^1239^MAY 5,1952^53^MALE^^Diabetic
Eye Exam^DUE NOW^3010501^3000500^\\
CRPATIENT,TWO^^^^^^^^^^^3284^APR 4,1914^91^MALE^^Diabetic Eye Exam^DUE NOW^DUE NOW^
unknown^\\
Enter RETURN to continue or '^' to exit:
```

If the rule set used to create the patient list contains a finding rule and the operation is INSERT then the "CSUB" data for the term's finding will be available for use with the Demographic Report. This could be used to include lab test results in letters that are sent to patients.

Demographic Report /Mail Merge Patient Data

This option can be used to generate letters to send to all patients on a list. Follow the steps below to create personalized letters from the Demographic Report.

Summary of steps:

1. Run a demographic report against a patient list.
2. Run the report in a delimited output
3. Capture the output in Notepad
4. Clean up the report output
5. Import the Notepad document into MS Excel
6. Import the Excel document into MS Word

Patient Lists Created by Reminders Due Reports

Creation of Patient Lists is not limited to the Patient List Management option.

The Reminders Due Report option on the Reminder Reporting menu also provides the ability to save patients evaluated by the Reminders Due Report into a new Patient List that is stored in the Reminder Patient List file.

When you run a Reminders Due Report, you are given the option to save the list of patients to a patient list. Since this requires reminder evaluations for every selected patient, this method of generating a patient list will not be as efficient as generating a patient list from a rule set. Therefore, whenever possible, it is preferable to generate a patient list from a rule set.

Before V.2.0, when you ran a Reminders Due Report, you entered a set of criteria, such as visits to specific locations, which was used to generate a list of patients for which the list of reminders was

evaluated. Now an existing patient list can be used directly in a Reminders Due Report, eliminating the requirement to generate the initial list of patients. This lets you target a Reminders Due Report to a very specific cohort of patients. For example, you could create a list of diabetic patients and then run a Reminders Due Report for this list of patients.

Patient Lists Created by Reminder Extract Reports

National patient lists created by the Reminder Extract Reporting functionality are named with a prefix of "VA-" or "VA-*". These patient lists are created when a national Reminder Extract Parameter definition is used to schedule and run a job. Each national extract parameter is set up so that IRM staff can schedule the job once, and then monthly extract reports will automatically be scheduled for the next month when the current months job is completed. This automated feature is only possible if the IRM staff initiates a job for the first month to be reported.

Alternatively, a Clinical Application Coordinator (CAC) can start the job using options available in the Reminder Extract Management (PXRM EXTRACT MANAGEMENT) option.

Advantages of Reminder Patient Lists vs Reminder Due Report Lists

The national reminder patient lists don't need any setup and are created automatically from the national rule sets defined in the extract parameter criteria. When a national patient list is created, it remains on the computer system for five years, and is deleted automatically after 5 years. The national patient list is available to run with health summaries, or for extract validation.

Local patient lists can be generated using the Reminder Due option, where the report criteria specifies date ranges and locations or providers. However, the only output available is the due report (albeit condensed, if required).

The patient list management option provides health summary reporting from existing patient lists.

The patient list management option allows patients to be identified by finding. If you want a list of diabetic patients who smoke, then the patients are extracted directly from the Reminder Index Global rather than by parsing the visit file. The downside is that list rules and rule sets identifying findings to be collected must be created before a new list can be created. The biggest plus is that since the patient list doesn't involve reminder evaluation, it is quick.

Once a reminder patient list is created, the patient list can be copied to an OE/RR Patient List.
To sum up, the patient list management option provides a way to run health summaries on patient lists, copy them to team lists, and quickly build lists for patients with specific finding combinations.

Reminder Extract Tools

Clinical Reminders V.2.0 includes extract tools that enable sites to create extract summary reports based on an extract definition. An extract definition defines extract criteria similar to performance measure criteria. The extract definition specifies what patient lists should be created, which reminders should be run against each patient list, and what kind of totals should be accumulated. An extract run uses the extract definition to create extract totals and stores these results in the Reminder Extract Summary file.

The extract tools were developed to meet generic extract report and transmission needs. The tools provide options to:

- Manage extract criteria
- Manage extract runs (manual and automated)
- Manage transmissions to AAC
- View extract reporting results
- View the list of patients making up the patient denominator

The functionality supports corporate level management analysis by providing reports that:

- Summarize patient reminder compliance totals (not applicable, applicable, due, not due), similar to Reminder Due summary reports
- Summarize finding total counts that reflect the most recent findings resulting from reminder evaluation
- Summarize finding total counts that reflect site activities during the reporting month.

Reminder Extract Menu

The Reminder Extract Menu was new with Clinical Reminders V2.0. This menu uses list manager functionality to help Reminder managers or clinical application coordinators (CACs) track and manage the national, VISN, and local level extract transmissions.

Syn	Option	Option Name	Description
MA	Reminder Extract Management	PXRM EXTRACT MANAGEMENT	This option uses list manager to view an extract definition, examine and schedule an extract run or transmission run, view extract summary results and view extract patient lists.
D	Extract Definition Management	PXRM EXTRACT DEFINITION	This option allows creation/editing of extract definitions for use in extract processing. Each extract definition identifies what list rules should be used to create patient lists, what reminders should be run against each patient list, and what counting rules should be used to count true findings found during reminder evaluation.
EC	Extract Counting Rule Management	PXRM EXTRACT COUNTING RULES	This option allows creation/editing of extract counting rules used in the extract process. The counting rules define how to count the findings defined in an extract counting group (most recent for each finding, most recent finding in the group, utilization counts for the reporting period).

EG	Extract Counting Group Management	PXRM EXTRACT GROUPS	This option allows creation/editing of extract counting groups. Each group defines reminder terms. Counting groups are used when an extract definition is defined to accumulate COMPLIANCE and FINDING TOTALS (TYPE OF TOTALS). The counting groups are used in a counting rule during the extract process to count findings within a group. The reminder term, related counting group, and finding total counts are stored in the Extract Reminder Summary file.
LR	List Rule Management	PXRM LIST RULE MANAGEMENT	This option allows creation/editing of list rules which are used to build patient lists.

LR List Rule Management is discussed in detail in the Reminder Patient List/List Rule section.

Clinical Reminder Extracts Guide

By Alan Montgomery and Philip VanCamp, Clinical Product Support

We have written this guide in an attempt to be exactly what it says it is – a guide. The things we have learned about extracts have come from countless hours of trying and failing over and over again until we somewhat succeeded. Our intent from this document is to help you learn the mechanics of extracts and how all the pieces fit together to give you the desired results. Our plan is to make this very basic so that even the reminder novice can understand, so if it seems too simple, please humor us in our efforts to explain. Be forewarned that this is not a fast process and will require you to *think*, to be able to understand what is actually taking place. As you know, if you have worked with us, we will leave it to you to figure it out because just copying what we have done doesn't help you to learn how it works. You may not be interested in how it works, but that's too bad ☺! As always, we will help answer any questions by pointing you in the right direction, but still leaving it to your imagination to figure it out. We can also pass along any enhancement ideas to development staff. As we progress and questions arise, we would like to start a Frequently Asked Questions (FAQ) to go along with this guide to help others who will follow (those poor souls) after we are long gone.

I suppose the best way to start is to create an outline as our guide, from alpha to omega. Here are some key points to making this guide more helpful. Any text that you type will be in **bold text.**

What is an extract?

By definition, the word extract simply means to get, pull, or draw out, usually with special effort, skill, or force. Hopefully we will not need the "force" part or maybe we should "use the force" to help us ☺. So, this means that we want to draw out results from VistA by use of our extract definition. Why should we use an extract? One reason is that we are able to get more precise data due to the flexibility that we have with dates inside the extract definition. This allows you to be able to report almost exact results to your management on performance measure data or whatever type of data is expected of you. Reminder reports definitely have their place for reporting data, but the accuracy you can obtain from extracts is more exact. Another reason is that these can be automatically tasked to run each month, quarter, or year leaving you only to worry about slicing and dicing the data. We will discuss how to do this later on.

Key Components

This section of the guide will give us information on all the components that make up an extract definition and how they work together. We will give examples of each one as we complete the components.

Finding Rules

Finding Rules – this type of list rule uses a reminder term to achieve the desired result. Let's look at an example from VistA. You have to use a little forethought when creating a finding rule. It is always best to already have the term that you will use created as you will not be able to create the finding rule without the term embedded. Just like all terms, you may have mapped findings with any number of combinations of beginning date/time(s), ending date/times, or conditions associated with the mapped findings.
The menu option that is used to navigate to creating list rules is as follows:

1. From the Reminder Managers Menu, choose **PL**, then choose **LRM**.

2. This will take you to a window that is very similar to dialogs.
3. When you access these menus, the screen that is displayed is the window that displays all of your rule sets.
4. To change to the window that contains your finding rules, at the "Select Item" prompt, type **CV** for change view (exactly like dialog windows) and press Enter.
5. To access your finding rules, take the default of "F" at the "Type of View" prompt. This will take you to the finding rules. Anytime you want to change from one type of list rule to another, i.e. finding rule to patient list rule, you will use the CV option. This same navigation is used to access the other types of list rules and I will not ask you to have to read this again for each section. Just remember for the next sections how to navigate to the type of list rule you are wanting.
6. After you are in the window you want to be in, choose **CR** to create a new finding rule.

```
Select FINDING RULE to add: FR DIABETIC PATIENTS
  Are you adding 'FR DIABETIC PATIENTS' as a new REMINDER LIST RULE (the 344TH)? No//
Y  (Yes)
Used by: Not used by any rule set
NAME: FR DIABETIC PATIENTS  Replace
SHORT DESCRIPTION:
CLASS: L  LOCAL
REMINDER TERM: TUS DIABETES DIAGNOSIS (Extract)       LOCAL         ...OK? Yes//
(Yes)
```

The reminder term must already exist at time of entering into the field. Cannot be created on the fly.

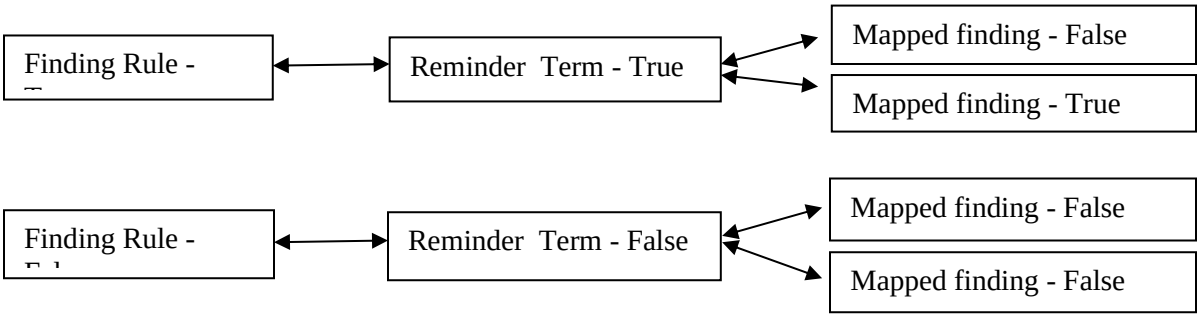
```
LIST RULE BEGINNING DATE/TIME:
LIST RULE ENDING DATE/TIME:
Input your edit comments.     Edit? NO//
```

Most of the types of findings that can be defined in the reminder term have a Global Index (PXRMINDX) for across-patient look-ups. However, the Global Index (^PXRMINDX) is not used for computed findings linked to a reminder term, unless the computed finding has hard-coded logic to access the Global Index. The typical computed finding assumes that the patient is already selected and does not support across-patient look-up. However, with V2.0, a computed finding can be specifically created for list-building purposes by defining the Type field in the computed finding definition as "List." The List type computed finding can be used as the first rule or any subsequent rule in a rule set where the ADD PATIENT Operation is used. When a computed finding is used to SELECT or REMOVE patients from an existing patient list, a "single" or "multiple" type computed finding may be used.

What does all this actually mean to the user?

1. Any type of finding can be used as a mapped item of a term inside of a Finding Rule as the first sequence, except for Computed Findings (CF)
    a. One exception to the above is a CF of a LIST type. LIST type CF's can only have the ADD PATIENT operator function; therefore, it *can* be used as the first sequence of a rule set.
    b. If you are using a CF in any other sequence than the first, you may use SINGLE, MULTIPLE, or LIST types of CF. Just remember, if you use the LIST type, the operator must be ADD PATIENT. If you use the SINGLE or MULTIPLE as any sequence but the first, you may use any operator. How do I find out what type of CF I have?

A finding rule will evaluate as TRUE if any mapped finding in the reminder term contained within the finding rule is true. If the Finding rule is true, then the logical operator associated with that finding rule will be invoked within the rule set which it is contained in, i.e. ADD PATIENT, SELECT, REMOVE.



Reminder Rules

Reminder Rules – This type of list rule uses an embedded existing reminder definition to achieve the desired results. Some important things to know about a reminder rule.

1. The embedded reminder definition must be an "L" usage type
2. In a reminder rule, *ONLY* the cohort logic is evaluated. If you have resolution logic, it will not be evaluated, but it also will not cause problems ☺
3. The cohort string cannot start with a logical "NOT"
4. The cohort string cannot contain a logical "OR NOT"
5. If AGE is used in the cohort logic string, then a baseline age range must be defined
6. If SEX is used in the cohort logic string, the reminder must be sex-specific
7. SEX cannot be the first element of the cohort logic string unless it is followed by AGE
8. If a finding sets the frequency to 0Y, which effectively removes the patient from the cohort, it can't have an associated age range

Wow, a lot of limitations here!!! Reminder rules have their place, but they are not used as often as finding rules.

From the List Rule Management options, choose the Change View option (**CV**) and then select "**R**" for reminder rules, then select **CR** to create a rule

VistA example of creating a reminder rule

```
Select REMINDER DEFINITION RULE to add: RR FLU HIGH RISK
  Are you adding 'RR FLU HIGH RISK' as
    a new REMINDER LIST RULE (the 345TH)? No// Y  (Yes)

Used by: Not used by any rule set

NAME: RR FLU HIGH RISK//
SHORT DESCRIPTION:
CLASS: L  LOCAL
REMINDER DEFINITION: AM HIGH RISK FLU       LOCAL
LIST RULE ENDING DATE/TIME:
Input your edit comments.
Edit? NO//
```

Again, the reminder definition AM HIGH RISK FLU must meet all the criteria outlined above for reminder rules for it to function.

The LIST RULE ENDING DATE/TIME field is essentially the evaluation date, similar to using the reminder test option's evaluation date/time. If you leave this blank, TODAY will be assumed.

To sum all the above up, when using a reminder rule in a rule set as a sequence, the results obtained from the reminder rule will be the cohort logic only of the reminder definition being used. Again, all of the other constraints on reminder rules will apply.

Patient List Rules

Patient List Rules- Patient list rules are exactly what their name implies they are -- rules that are based on an existing patient list. When using patient list rules in extracts, you can create a patient list rule that will be used by the extract that is based on a patient list that doesn't exist *yet*, but will exist when the patient list rule is used. If this doesn't make sense now, hopefully it will very soon! We will cover this idea of using a patient list rule based on a list that doesn't exist in just a bit.
A patient list can be created three ways:

1. Creating a patient list when running a reminders due report (there is a prompt to create a patient list
2. Creating the patient list from a rule set within a Patient List Management option
3. Creating a patient list when a rule set is invoked within an extract run

From the List Rule Management options, choose the Change View option (**CV**) and then select "**P**" for reminder rules, then select **CR** to create a rule

```
Select PATIENT LIST RULE to add: AJM EXTRACT
  Are you adding 'AJM EXTRACT' as a new REMINDER LIST RULE (the 417TH)? No// Y
  (Yes)

Used by: Not used by any rule set

NAME: AJM EXTRACT//
SHORT DESCRIPTION:
CLASS: L  LOCAL
USE EXISTING PT LIST: AJM EXTRACT LIST
Input your edit comments.
Edit? NO//
```

As stated above, once a patient list exists, then it may be used as a sequence of a rule set as a patient list rule. Any of the logical operators (mentioned in the Rule Set section) may be used in conjunction with the patient list rule within the rule set.

Let's now discuss the anomaly of using a patient list that doesn't exist, but will exist at the time of evaluation. This will only happen when using rule sets within extracts. This is an advanced concept and may take a while to totally grasp….

When a rule set which is composed of finding rules, reminder rules, and patient list rules (not necessarily all of them, but at least one or a combination) is invoked within an extract definition set to run, by design, a patient list will be created. In the example below, you will see the field within the extract sequence that

asks the user for the name of the patient list that will be created. Other fields are listed, but disregard these at this point.

```
Select EXTRACT SEQUENCE: 8// 1       RS NEXUS COHORT (Extract)
  EXTRACT SEQUENCE: 1//
  LIST RULE SET: RS NEXUS COHORT (Extract)//
  EXTRACT PT LIST NAME: NEXUS COHORT Mnn yyyy  Replace
  INCLUDE DECEASED PATIENTS: YES//
  INCLUDE TEST PATIENTS: NO//
  Select REMINDER SEQUENCE:
```

So, you have the concept that when the extract runs, each sequence within the extract will invoke a rule set and will create a patient list. Let's say, for example, that sequence one in our hypothetical extract is a rule set to create a Nexus Cohort and sequence two would be to create a diabetic cohort which is a smaller subset of the Nexus Cohort group….again, without understanding what a "Nexus Cohort" is, let's put this in general terms.

Once the rule set for Nexus Cohort runs and creates a patient list (let's say that that list has 1500 patients) we would like to use that patient list (1500 patients) as a starting point to create a separate refined list that only contains diabetics, and let's say that list has 750 patients.

At this point, our cohort would be patients that met the nexus definition AND who are diabetic (750 of 1500 patients). Since extracts process in sequence, our first sequence is to create the nexus cohort (and create a patient list, of 1500 patients, by using a rule set) and then the second sequence would use THAT patient list of 1500 as a starting point to further refine down to the diabetic cohort, 750 of 1500 patients.

The way that this is accomplished is that the second sequence of the extract uses a rule set that starts out using a patient list rule that is based on the patient list created in the first sequence of the extract. In essence, immediately following the creation of the patient list for Nexus Cohort, we use that patient list within a patient list rule to start out creating our diabetic cohort.

Maybe a picture will be worth a thousand words:

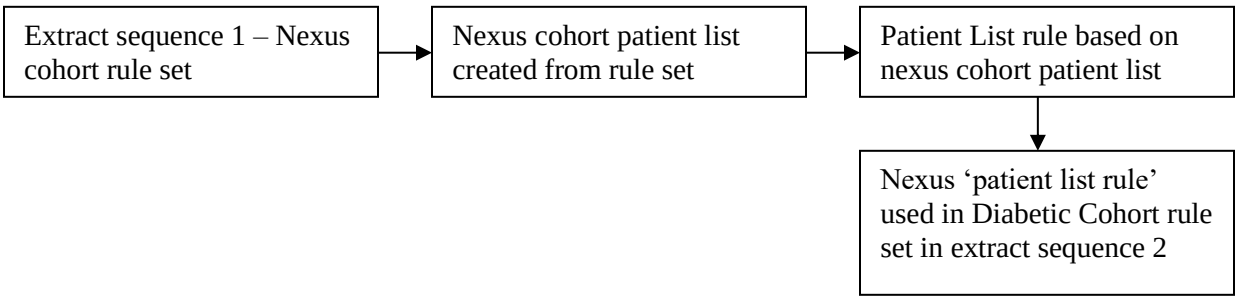
Extract Definition

Sequence 1: Nexus Cohort rule set

A patient list of patients is created who meet the criteria of the rules in the rule set

Sequence 2: Diabetic cohort rule set

This rule set begins with a patient list rule that is based on the patient list created from sequence one.



Extract Definition in VistA

```
EXTRACT SEQUENCE: 1//
  LIST RULE SET: RS NEXUS COHORT (Extract)//   ←This is the rule set to build nexus
cohort
  EXTRACT PT LIST NAME: NEXUS COHORT Mnn yyyy  ←This is the patient list that will be
created when the rule set is completed.  Don't worry about the Mnn yyyy for now.
  INCLUDE DECEASED PATIENTS: YES//
  INCLUDE TEST PATIENTS: NO//
  Select REMINDER SEQUENCE:

Here is the breakdown of the RS NEXUS COHORT (Extract) rule set:
          Name:  RS NEXUS COHORT (Extract)
        Number:  110
         Class:  LOCAL

   Description:

     Rule Type:  RULE SET

    Component Rules
    ---------------

            Sequence: 1
           Operation: ADD PATIENT
           List Rule: <some list rule>

            Sequence: 2
           Operation: <some logical operator>
           List Rule: <some list rule

            Sequence: 3
           Operation: <some logical operator>
           List Rule: <some list rule>
```

Next, the second sequence of the extract runs after the first is completed. Here is the second sequence:

```
Select EXTRACT SEQUENCE: 2       RS FACILITY DM MEASURES
  EXTRACT SEQUENCE: 2//
  LIST RULE SET: RS FACILITY DM MEASURES// ←This is the rule set to build diabetes
cohort
  EXTRACT PT LIST NAME: FACILITY DM MEASURES Mnn yyyy  ←This is the patient list that
will be created when the rule set is completed.  Again, don't worry about the Mnn yyyy
for now.
  INCLUDE DECEASED PATIENTS: NO//
  INCLUDE TEST PATIENTS: NO//
  Select REMINDER SEQUENCE:

Here is the expansion of the RS FACILITY DM MEASURES rule set:
          Name:  RS FACILITY DM MEASURES
        Number:  281
         Class:  LOCAL
```

```
   Description:

     Rule Type:  RULE SET

    Component Rules
    ---------------
```

```
            Sequence: 1
           Operation: ADD PATIENT
           List Rule: PL NEXUS COHORT  ←Here is the patient list rule that is based on
Nexus list created from sequence 1 of the extract
         Description:
           Rule Type: PATIENT LIST RULE
```

Use Extract PT List Named: NEXUS COHORT Mnn yyyy ←Here is the key connection! If you can understand this, you are well on your way to understanding the complete process! In the set-up of the patient list rule, the field USE EXTRACT PT LIST NAMED entry must be the name of the patient list created from sequence 1 of the extract. Look above in that field of extract sequence 1 and see that entry is the same as what you see in the patient list rule EXTRACT PT LIST NAMED field.

Sequence: 2: Whatever happens based on the operator (ADD PATIENT, SELECT, REMOVE) of this sequence will start with the patients that met the NEXUS COHORT (patients who are "in" the nexus list)

Operation: <some logical operator>
List Rule: <Some List Rule>

Sequence: 3

Operation: <some logical operator>
List Rule: <Some List Rule>

Each patient list has a unique name and is stored in file 810.5 (REMINDER PATIENT LIST). These can be overwritten with a subsequent run of an extract or a reminder report.

Rule Sets

Rule sets are a sequence of steps that are made up of list rules that are connected together with a logical operator. The three types of list rules are:

1. Finding Rule
2. Reminder Rule
3. Patient List Rule

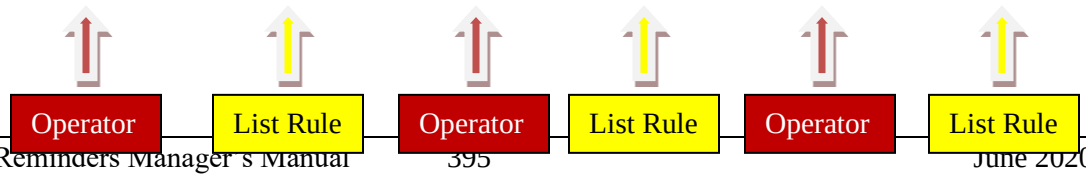
To create/Edit any of the above, you must be in LIST RULE MANAGEMENT which is a sub menu of PATIENT LIST MANAGEMENT from the main reminders menu. Take a look here and notice all the options you have available at the bottom of the screen.

The types of logical operators that connect each sequence within the rule set are as follows:

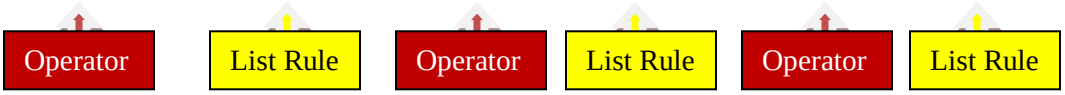
1. Add Patient (like the Boolean "OR")
2. Select (like the Boolean "AND")
3. Remove (like the Boolean "AND NOT")

Let's think about it like a train that is connected together, except that trains usually are not in a logical sequence whereas we hope our rule set is. For this example, we will use generic names for our list rules.

Example: <ADDPATIENT>FINDING RULE 1<SELECT>FINDING RULE 2<REMOVE>REMINDER RULE 1



Now let's use a real-life example to further illustrate a rule set and see what are result is from the rule set.
Finding Rule for Diabetic Patients –FR DIABETES
Finding Rule for A1C Lab test >9.0 – FR HGBA1C>9.0
Finding Rule for age >75 – FR AGE>75
<*ADD PATIENT*>FR DIABETES< *SELECT*>FR HGBA1C>9.0<*REMOVE*>FR AGE>75



So, what are the results of this rule set? Diabetic patients who have a lab test of HGBA1C greater than 9.0 and who are 75 years of age or younger. Is that what you came up with? If not, stop a minute and think about the results. The first sequence (FR DIABETES) found our diabetic patients; then from those patients, we used sequence two (FR HGBA1C>9.0) to select (AND) the ones who had a HGBA1C greater than 9.0. Next we used sequence three (FR AGE>75) to remove (AND NOT) patients who were over the age of 75.

Using Reminders to obtain data in the extract

So far, all we have from the Extract is nothing but a list of patients. We will continue to use the diabetes example. Our list now contains diabetic patients who have met the Nexus Cohort restrictions. Now what?? This list of patients is the APPLICABLE or our denominator. How do we get our numerator?

To obtain our numerator, we need to run reminder definition(s) against this patient list. To do this, we have to add in reminders to our extract definition. Reminders that already exist can be used for this, but most of the time, you will want to make a copy of an existing reminder and make edits or create a new one from scratch. The main reason to not use an existing reminder is that you will normally not need any cohort logic because your cohort has been built within the rule sets of the extract definition. This makes for faster evaluation of the reminders leading to quicker availability to data. Also, a lot of reminders have a DUE IN ADVANCE TIMEFRAME entry and this would affect your data.

Let's discuss some rules that will apply to the reminders that will be used in the extract.

1. The USAGE filed needs to have an * or an X.
2. Cohort logic must contain something. If your rule set has entirely built your cohort, your reminder still must have something. I would suggest using a customized logic string of SEX
3. All other things about reminders would apply as normal when they are evaluated in the extract

How do I enter the reminder definitions into my extract definitions?

When you go back and edit your extract definition, you choose the appropriate sequence number. For this example, it would be the sequence number dealing with the diabetes section. As you scroll through the fields, you will see a field named 'Select REMINDER SEQUENCE'. Here you would enter a sequence number, then enter in the .01 name of the reminder definition (not the print name). More than one reminder can be entered for each sequence of the extract definition. You would just need to give each reminder that you add a distinct sequence number. You will notice in the example below that the reminder definition has an (X) at the end. This is actually part of the reminder definition given by the person who created the reminder definition.

```
Select EXTRACT SEQUENCE: 2       RS FACILITY DM MEASURES
  EXTRACT SEQUENCE: 2//
  LIST RULE SET: RS FACILITY DM MEASURES//
  EXTRACT PT LIST NAME: FACILITY DM MEASURES Mnn yyyy
           Replace
  INCLUDE DECEASED PATIENTS: NO//
  INCLUDE TEST PATIENTS: NO//
  Select REMINDER SEQUENCE: 145// 100       DM A1C W/I LAST YEAR (X)
    REMINDER SEQUENCE: 100//   ←Reminder Sequence number (arbitrary number)
    REMINDER: DM A1C W/I LAST YEAR (X)// ←Reminder definition
    COUNTING RULE
  Select REMINDER SEQUENCE:
```

Dates and how they affect your data

Remember that the patient lists are created from a rule set. The RULE SET TEST option within LIST RULE MANAGEMENT (specifically within RULE SETS area) is a great tool to let you know what your dates actually will be for your rule set, once it starts running. An example of the RULE SET TEST will be shown later.

There is a logical hierarchy within extracts. Within an extract, there exist many pieces and within these pieces, there are possibilities for date entries along the way. For example:

-Extract runs MUST have a beginning date/time and ending date/time
  -A Rule Set has the possibility for entry of a beginning date/time and ending date/time
    -A finding rule within a rule set has the possibility for entry of a beginning date/time and ending date/time
      -A reminder term in a finding rule has the possibility for entry of a beginning date/time and ending
      date/time
        -Within the reminder term, the mapped findings have the possibility for entry of a beginning date/time and ending date/time

So, if you had different dates in more than one place, which date would be used? The answer to this question is the date at the lowest level would trump a date at a higher level. Some things to think about when adding dates:

1. If you are using a reminder term in an extract, remember if you add dates at the term level or mapped item level within the term, they will also affect how that term is used any other place.
2. If a finding rule has dates, and it is used in more than one rule set, the dates may need to be different in each rule set within which they are used. This is a possible place for errors.
3. My inclination would be to put my dates at the highest level possible unless a piece at a lower level is specific to that one rule set.

Below is an example of using RULE SET TEST option. This example was testing the RS NEXUS COHORT rule set using the month of June. You can see that not all dates are 6/1-6/30. This means that there was a different date entered at a lower level within the rule set.

```
Enter Patient List BEGINNING DATE: 0601  (JUN 01, 2010)
Enter Patient List ENDING DATE: 0630  (JUN 30, 2010)

List Build Beginning Date: 06/01/2010
List Build Ending Date: 06/30/2010

SEQUENCE 1 FR NEXUS COHORT
 Operation: ADD PATIENT
 TERM TUS NEXUS CLINIC (Extract)
  FINDING 1-RL.NEXUS CLINIC COHORT FY08
   Beginning Date/Time: 06/01/2010
   Ending Date/Time:    06/30/2010@23:59:59

SEQUENCE 2 FR ANCHOR VISIT
 Operation: SELECT
 TERM TUS ALL LOCATIONS (Extract)
  FINDING 1-RL.VA-ALL LOCATIONS
   Beginning Date/Time: 06/01/2008
   Ending Date/Time:    05/02/2009@23:59:59

SEQUENCE 3 VA-FR-DATE OF DEATH
 Operation: REMOVE
 TERM VA-DATE OF DEATH
  FINDING 1-CF.VA-DATE OF DEATH
   Beginning Date/Time: 0
   Ending Date/Time:    05/31/2010@23:59:59

SEQUENCE 4 FR VA VETERAN
 Operation: SELECT
 TERM TUS VA VETERAN
  FINDING 1-CF.VA-VETERAN
   Beginning Date/Time: 06/01/2010
   Ending Date/Time:    06/30/2010@23:59:59
```

Extract Definitions

This section of the guide will help you learn how to set up your extract definition. It is important to have all your pieces ready (rule sets, reminder definitions) to add into your extract definitions. Some good advice would be to create a "map" before you even start building any pieces of the extract, i.e. reminder terms, finding rules, reminder rules, patient list rules, etc.

Once you have your rule sets complete and have tested them to ensure that you will get the proper data returned by the dates you have entered along the way, it is time to add them to your extract definition. You may be creating your extract definition from scratch or you may be editing an already existing definition. Think about the sequential order that your extract needs to run – which rule set needs to run first. If you have a rule set that depends on something to be created (a patient list) to make it work, then the rule set that creates needs to be prior, sequentially.

To add a new extract or edit an existing one:

1. Use the **XM** menu option from the Reminder Managers menu,
2. Choose **ED** option.
3. Choose **CR** or **DE,** depending on what you need to do.

Below is a screen shot from VistA on creating a new extract definition. It includes all the field entries and responses you will need to know about at this time. Also, don't be concerned at this point about the **Mnn yyyy** that you see below. This will be explained later.

```
Select EXTRACT DEFINITION to add: EXTRACT FOR GUIDE
  Are you adding 'EXTRACT FOR GUIDE' as
    a new REMINDER EXTRACT DEFINITION (the 20TH)? No// Y  (Yes)


NAME: EXTRACT FOR GUIDE//
CLASS: L  LOCAL
TYPE OF TOTALS: ?
     Choose from:
       CT       COMPLIANCE TOTALS ONLY
       CF       COMPLIANCE AND FINDING TOTALS
TYPE OF TOTALS: CT  COMPLIANCE TOTALS ONLY
DESCRIPTION:
  No existing text
  Edit? NO//
REPORT FREQUENCY: ?
     Enter the report frequency.
     Choose from:
       Q        QUARTERLY
       M        MONTHLY
       Y        YEARLY
REPORT FREQUENCY: M  MONTHLY
Select EXTRACT SEQUENCE: 5  ←This is an arbitrary number
  Are you adding '5' as a new EXTRACT SEQUENCE (the 1ST for this REMINDER EXTRA
  (Yes)
   EXTRACT SEQUENCE LIST RULE SET: RS NEX
     1   RS NEXUS COHORT (Extract)       RULE SET
     2   RS NEXUS COHORT (LIST)       RULE SET
     3   RS NEXUS IMMUNIZATION REPORT FY08       RULE SET
     4   RS NEXUS WITH DM OR IHD AND VETERAN       RULE SET
CHOOSE 1-4: 1  RS NEXUS COHORT (Extract)     RULE SET
  LIST RULE SET: RS NEXUS COHORT (Extract)//
  EXTRACT PT LIST NAME: PATIENT LIST FOR NEXUS COHORT Mnn yyyy
  INCLUDE DECEASED PATIENTS: n  NO
  INCLUDE TEST PATIENTS: n  NO
  Select REMINDER SEQUENCE:   ←No reminder added at this point
Select EXTRACT SEQUENCE: 10
  Are you adding '10' as a new EXTRACT SEQUENCE (the 2ND for this REMINDER EXTR
  (Yes)
   EXTRACT SEQUENCE LIST RULE SET: RS FACILITY
     1   RS FACILITY CANCER MEASURES       RULE SET
     2   RS FACILITY CANCER MEASURES (Q)       RULE SET
     3   RS FACILITY CARDIOVASCULAR MEASURES       RULE SET
     4   RS FACILITY CARDIOVASCULAR MEASURES (Q)       RULE SET
     5   RS FACILITY DM MEASURES       RULE SET
Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5: 5  RS FACILITY DM MEASURES     RULE SET
  LIST RULE SET: RS FACILITY DM MEASURES//
  EXTRACT PT LIST NAME: DIABETIC COHORT Mnn yyyy
  INCLUDE DECEASED PATIENTS: N  NO
  INCLUDE TEST PATIENTS: N  NO
  Select REMINDER SEQUENCE: 5
  Are you adding '5' as a new REMINDER SEQUENCE (the 1ST for this EXTRACT RULES
  (Yes)
   REMINDER SEQUENCE REMINDER: DM
     1   DM A1C W/I LAST YEAR (X)       LOCAL
     2   DM A1C<7.0 (X)       LOCAL
     3   DM A1C>9.0 (X)       LOCAL
```

```
     4   DM BP <130&<80 (X)       LOCAL
     5   DM BP <140&<90 (X)       LOCAL
Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5: 1  DM A1C W/I LAST YEAR (X)     LOCAL
    REMINDER: DM A1C W/I LAST YEAR (X)//
    COUNTING RULE: ←No entry at this point
  Select REMINDER SEQUENCE: 10  ←arbitrary number
  Are you adding '10' as a new REMINDER SEQUENCE (the 2ND for this EXTRACT RULE
  (Yes)
   REMINDER SEQUENCE REMINDER: DM A1C
     1   DM A1C W/I LAST YEAR (X)       LOCAL
     2   DM A1C<7.0 (X)       LOCAL
     3   DM A1C>9.0 (X)       LOCAL
     4   DM A1C DONE    ZTUS DM AND A1C DONE (RPT)     LOCAL
     5   DM A1C>9.0    HGBA1C>9.0     LOCAL
Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5: 2  DM A1C<7.0 (X)     LOCAL
    REMINDER: DM A1C<7.0 (X)//
    COUNTING RULE: ←No entry at this point
  Select REMINDER SEQUENCE:
```

To summarize the extract definition:

1. Extract definition is made up of rule set(s) which are processed in sequence and a patient list is created when each rule set completes. This list of patients makes up your applicable group or denominator for the specific rule set. Another way to say this is that if you have 5 rule sets, you will have 5 patient lists, therefore 5 applicable groups.
2. Reminder definitions can optionally be evaluated against the patient list created from each sequence of the extract definition. Once the reminder definitions are evaluated, the DUE patients make up your numerator.

Running the Extract

There are two ways to create or start an extract:

1. Manual
2. Automatic

Manual Method

This makes the extract start processing the rule sets in the sequence that is contained within the extract definition..

1. Again, you will access the **XM** menu from the reminder managers menu,
2. then choose the **MA** menu option,
3. then choose the **VSE** action. When you choose the **VSE** action, you need to make sure your extract definition appears in the list to be able to choose it. Choose your extract definition, then choose the **ME** action for “manual extract”.

4. At the Select EXTRACT PERIOD (Mnn/yyyy): // prompt, choose your reporting month and year in the syntax of Mnn/yyyy. So, if your reporting month was June of 2010, at the prompt, you would enter M06/2010.

At this point, you may be thinking about the Mnn yyyy in the extract definition. What happens when you choose your month and year for the manual extract to run? Anywhere you have defined Mnn yyyy in the name of the patient lists created from the rule set, M06 2010 will be substituted for the Mnn yyyy. After your extract completes, you can go to the patient list management section of reminders and you will NOT see a list with a literal Mnn yyyy in the name, but you *will* see M06 2010 instead. Magic!! ☺.

Now you just have to let the extract complete. The time it takes will depend on how many rule sets, how many reminders you are evaluating, and the complexity of the reminders.

After the extract completes, if you are a member of your local reminders mail group, you will receive a VistA mail message that the extract is complete.

5. To view your results, access the **XM** menu, the **MA** menu and then choose the **VSE** action. You will see your completed extract on the screen. Choose the number that corresponds to your extract and you will be able to view your results.
6. At the Select Action prompt, take the default of **ES.** You should see data for the reminders that you defined in your extract in the format of TOTAL, APPL., N/A, DUE and NOT DUE.

Below is a screen shot from VistA to demonstrate what you should see.

```
Extract Summary Name: FACILITY MH PM 2010 M06
      Extract Period: 06/01/2010 - 06/30/2010   Created: 07/28/2010@22:49:15

 Item  Patient List/Station/Reminder        Total      Appl.    N/A    Due     Not Due
     679/DM A1C W/I LAST YEAR                 807       807       0      74       733
     679/DM A1C>9.0                           807       807       0     732        75
```

You may be wondering why there is 0 in the N/A column. This is because we used the rule set for our cohort, not the reminder definition. This is one of the reasons extracts are more efficient because there is less evaluation time due to the fact that everybody on the patient list is in the cohort.

Automating the extract process

This will involve your IRM department. They will have to create an option, set that option in TaskMan Management Options and queue it to run monthly. Then in FileMan, you/IRM will have to set a field to make sure the correct reporting period is being accessed. We will discuss this in detail below.

Step 1. Create the new option in VistA. You can give it a unique name to your system.

- Access the XUMAINT option from the programmer prompt or another way would be to access MENU MANAGEMENT option from the EVE menu.
- At the Select Menu Management Option, choose EDIT.

```
Select Menu Management Option: EDIT options
```

```
Select OPTION to edit: TUS MONTHLY PM       MONTHLY PC PM  ←unique name for your site,
you will be asked to add this as a new option (since my option already existed, I was
not prompted to add as new)
NAME: TUS MONTHLY PM//
MENU TEXT: MONTHLY PC PM// ←Choose a name for the MENU TEXT
PACKAGE: CLINICAL REMINDERS// ←Choose CLINICAL REMINDERS as the PACKAGE
OUT OF ORDER MESSAGE:
LOCK:
REVERSE/NEGATIVE LOCK:
DESCRIPTION: ←enter some descriptive text for this option
This option is for use within Clinical Reminder extracts.  This option is
tasked monthly by taskman utility

  Edit? NO//
TYPE: run routine//
HEADER:
ENTRY ACTION: D AUTO^PXRMETX("FACILITY MONTHLY PM","Y")
          Replace    ←The yellow highlighted text is the NAME of your extract
definition you want to run
EXIT ACTION:
ROUTINE:
CREATOR: CRPROVIDER, ONE// ←This field will be automatically filled in by the creator
HELP FRAME:
PRIORITY:
Select TIMES PROHIBITED:
Select TIME PERIOD:
RESTRICT DEVICES?:
Select PERMITTED DEVICE:
```

Step 2: Go to TaskMan and set this option to run monthly.

- Access the menu option XUTM MGR from the programmer prompt or the TASKMAN MANAGEMENT option from the EVE menu.
- Then choose Schedule/Unschedule Options.

- Select TaskMan Management Option: schedule/Unschedule Options

```
Select OPTION to schedule or reschedule: tus monthlY PM       MONTHLY PC PM  ←choose
the option created from step 1
         ...OK? Yes//   (Yes)
      (R)
                        Edit Option Schedule
    Option Name: TUS MONTHLY PM
    Menu Text: MONTHLY PC PM                            TASK ID: 8824177
  ____________________________________________________________________________

  QUEUED TO RUN AT WHAT TIME: JUL 3,2010@03:00    ←set the date to run after the first
of the next  month.  Make sure it doesn't conflict with any other tasks

DEVICE FOR QUEUED JOB OUTPUT:

 QUEUED TO RUN ON VOLUME SET:

      RESCHEDULING FREQUENCY: 1M     ←Set the option's frequency to monthly

            TASK PARAMETERS:

           SPECIAL QUEUEING:
```

Step 3: Give FileMan a starting month to start the automatic extract. This will be a one-time entry. Once you create your extract definition, it will be visible in the file.

- From the FileMan Menu, choose "Enter or Edit file entries"
- Choose file 810.2 (REMINDER EXTRACT DEFINITION)
- Then choose your extract definition.
- Then you will need to add an entry to the "NEXT REPORTING PERIOD/YEAR" field. The NEXT REPORTING PERIOD would be the month immediately preceding the month that is defined as your report queue date in TaskMan. For example, if your beginning report queue date in TaskMan is July 3, 2010, your NEXT REPORTING PERIOD would be June 2010 (M06/2010).

Once you have completed steps 1-3, your extract will be set up to automatically run each month, NO MAINTENANCE NECESSARY!! Nice!! ☺ You will only have to go get the results from the Extract menus as described before.

Even though you have set the extract to run automatically, you can still make manual runs of your extract at any time. Do remember that these can be system-intensive, so take care to run this at off times. If your extract is small, then this will not be an issue.

Understanding your Output

Now that you have data, what does it all mean? We mentioned earlier about the Applicable number being your denominator and the DUE number being your numerator. Once you have those numbers, it is as simple as doing the math, or having an excel spreadsheet do the math for you!

So, for an example, let's say for HGB A1C>9.0 for diabetics performance measure you have 1000 applicable patients from the extract and you have 100 patients that have A1C>9.0 lab value. Then you are 90% compliant on diabetic patients having A1C<9.0.

FAQ:

1. Q. How do I know what type of Computed Finding I have, i.e. Single, Multiple or List?
   A. One way is to use the CFL option from the CF management menu option from the Reminder Managers menu. Enter the name of the specific CF and check the TYPE field entry. Another way is to look this up in FileMan from file #811.4 and check the TYPE field entry.

2. Q. Reminder rules require the use of a reminder definition which must be "L" type. How do I find out what usage type my reminder definition is?
   A. From the Reminder Managers menu, choose RM, then RI, and look for the entry in the USAGE field.

Access to National Extracts at Austin Information Technology Center (AITC)

1) Go to vaww.aac.va.gov, which will require you to enter your national access username e.g:
User: VHAXXXXXX\vhaisxxxxx
Password: enter your national password

2) Register for access to Austin system to get customer ID and initial logon password
Go to http://vaww.aac.va.gov/servicedesk/ on the VA intranet
Select Publications and Forms on the service desk webpage
Under the Forums category: Select VA FORM 9957

Questions? Access the following FAQ webpage:
http://vaww.aac.va.gov/servicedesk/HDDocs/FAQ.pdf

Clinical Reminder Order Checks

Changes with PXRM*2.0*45
The orderable item multiple has been removed in order check groups.
The pharmacy item multiple has been renamed to order check item groups. The patch will automatically add your existing items to the order check item group.
Two new order check types were added

- Imaging Type
- VA Product

Sites can create their own CPRS Order Checks using Clinical Reminder Definitions or Terms.

Sites will be able to create local order checks using the Clinical Reminder functionality. These Order Checks will occur at the time the user clicks on the accept button when placing an order in CPRS. The set-up of a Clinical Reminder Order Check consists of two parts:

- Creating an Order Check Item Group that can contain Orderable Items, Imaging types, or entries from the Drug #50, VA Drug Class #50.605, VA Generic #50.6, or VA Product #50.68 files. (For the purpose of this document entries for Drug, VA Drug Class, VA Product, or VA Generic will be referred to as Pharmacy Items).

- Creating the rules that will be applied to the orderable item when accepting an order in CPRS. It will be possible to have the same orderable item or pharmacy items in multiple groups. Each rule assigned to the different groups will be evaluated when placing the orderable item in CPRS.

The Order Check Items are stored in file #801. The Order Check Rules are stored in file 801.1. **When an order is placed in CPRS, the reminder order check will find all order check item groups that contain the orderable item. It will also find all reminder order check item groups that contain a pharmacy item that the orderable item is part of.**

Note: Sites should evaluate all requests to create a Clinical Reminder Order Check to determine the importance of adding it. Using many reminders in an order check could affect performance in the order check system.

File #801stores a pointer to an entry in the Orderable Item file (#101.43). The reminder Order Check file **will not** automatically be updated with changes to the Orderable Item file, such as inactivating an existing orderable item, or if an ancillary package adds an item to the Orderable Item file.

The entries in Reminder Order Check Items Group file (#801) need to be evaluated by the site anytime an update is done to the Orderable Item file, file #101.43. The site will need to determine if it needs to remove an orderable item from an existing group or if it needs to add an orderable item to existing group. The pharmacy items assigned to entries in the Reminder Order Item Group file will be automatically evaluated at the time of ordering.

The Reminder Order Check Menu...[PXRM ORDER CHECK MENU] contains five options:

Abbr	Option name	File Name	Description
GE	Add/Edit Reminder Order Check Items Group	PXRM ORDER CHK ITEMS GROUP EDT	This option is used to create a new order check items group and rules or to edit an existing order check items group and the corresponding rules.
GI	Reminder Order Check Items Inquiry	PXRM ORDER CHK ITEMS GROUP INQ	This option is used to display the details of a reminder orderable item group.
RE	Add/Edit Reminder Order Check Rule	PXRM ORDER CHECK ITEMS RULE EDT	This option is used to create/edit a reminder order check rule.
RI	Reminder Order Check Rule Inquiry	PXRM ORDER CHECK RULE INQ	This option is used to display the details of a reminder order check rule.
TEST	Reminder Order Check Test	PXRM ORDER CHECK TESTER	This option allows the user to run a test against a patient and an orderable item. This allows them to evaluate the results of a reminder order check rule before turning it on in CPRS.

When entering the editor or the inquiry options, you are presented with options to look up the order check item group or the rules by the name or the components that make up rules or the order check items group:

For Order Check Items Group

N: ORDER CHECK ITEM GROUP NAME
C: VA DRUG CLASS
D: DRUG
G: VA GENERIC
I: IMAGING TYPE
O: ORDERABLE ITEM
P: VA PRODUCT
R: ORDER CHECK RULE
Q: QUIT

For Order Check Rules

N: ORDER CHECK RULE NAME
R: REMINDER DEFINITION

T: REMINDER TERM
Q: QUIT

Reminder Order Check Items Group Test [PXRM ORDERABLE ITEM TESTER]
This option provides a way for the user to test the order check functionality in VistA. The option requires the selection of a patient and either an orderable item or a drug from file 50. This duplicates the process of placing an order in CPRS or finishing a medication in backdoor pharmacy. The output shows the results for all the appropriate reminder rules. In addition, the output shows some internal results that are not displayed in CPRS. The internal results are the evaluation results of a reminder definition or a reminder term. The evaluation result will start with "INTERNAL:". It also specifies if no rules are found for the different values in the testing flag and the severity fields. If a rule is found and it evaluates as false, the TESTER will display "RULE FAILED."

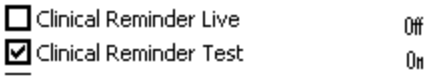
Description of the setup fields for Reminder Order Check Items Group:

- Group Name: This is the name of the Orderable Group
- Description: Sites should use this field to describe the types of Orderable Items that should be defined in this Group.
- Order Check Item Group: This field will allow sites to store a list of orderable items, imaging types, Drug, VA Drug Class, VA Products and/or VA Generic entries. When an order is placed in CPRS, the orderable item will be expanded to determine the drug, drug class, or the generic that it is associated with. If one of these items is found in one or more Order Check Items Groups, then the corresponding rules will be evaluated.
- Each Order Check Items Group can have multiple rules defined.

Description of the setup fields for Reminder Order Check Rule:

- Rule Name: This is the internal name of the rule.
- Display Name: This is the external name; the value in this field appears in the order check form in CPRS, if the rule triggers an order check.
- Status Flag: This field determines if the rule is inactive, set for production use, or for testing use. If the rule is set to INACTIVE, then the rule will not be evaluated for the orderable item list. The value should be set to TESTING when a rule is first created so the creator of the rule can test it before turning it on for the entire facility. To turn it on for the entire facility, this field must be set to PRODUCTION.
- CPRS Order Check Flags
    - Clinical Reminder Live: This rule allows all users access to the Clinical Reminder Order Checks.

- Clinical Reminder Test: This rule should only be assigned to a smaller group of users. This order check rule and the testing field are used to allow the users to test the rule before allowing every user at the site access to the rule



- Severity Flag: This field determines if the rule should require an override reason in the order check dialog. The three options are Low, Medium, and High. A severity of High will require the user enter an override reason for the order check when signing the order.

- Rules can either be defined to run against a reminder term or a reminder definition. A reminder term is beneficial when the request is to evaluate the presence of specific data. (See Example #1). A reminder definition is beneficial if you need the full functionality of a reminder definition to determine if the rule should show in the order check form (See Example #2). The user can only define one or the other. If users define a reminder term, they will be prompted to answer the fields that are for a reminder term. If users do not select a reminder term, they need to select a reminder definition and the associated fields.

- Reminder Term: This is a pointer value to the reminder term.

  - Term Evaluation Status: Reminder Term evaluation results are either True or False. This field lets the user determine if the rule should display in the order check form by selecting which reminder term status should be used.

  - Order Check Text: This is the order check text that will display in CPRS.

- Reminder Definition: This field will show if a reminder term is not defined. This is a pointer to the reminder definition.

  - Definition Evaluation Status: This field determines which reminder evaluation results cause the rule to appear in the order check form. The three possible values are:

    - Due: A selection of DUE will cause the rule to appear in the order check form if the reminder has a status of DUE NOW or DUE SOON.

    - Applicable: A selection of APPLICABLE will cause the rule to appear in the order check form if the reminder has a status of DUE NOW, DUE SOON, or RESOLVED.

    - N/A: A selection of N/A will cause the rule to appear in the order check form if the reminder has a status of N/A or NEVER.

  - Output Text: This field controls which text should appear in the order check form. This field can have one of three possible values:

    - Order Check Text Only: This value will only display the text defined by the user in the order check text field.

- Definition Text Only: This value will display the text of the reminder evaluation. This text is similar to the Clinical Maintenance Output except it will not include the Status Line and the Frequency line in the output.
- Both Order Check and Definition Text: This value will display the Order Check Text followed by the definition evaluation text.

- Order Check Text: This is the order check text that will display in CPRS.

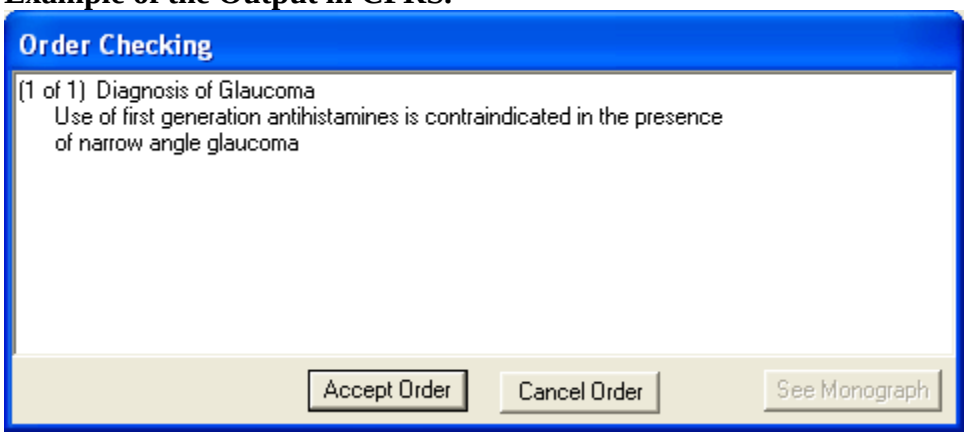
Example #1

Problem:
Order Check needed for the interaction between timolol ophthalmic (used to treat glaucoma) and OTC antihistamines (which should not be used in the more rare narrow angle glaucoma).

Setup:

1. Create a reminder term that looks for the presence of a diagnosis of narrow angle glaucoma. (May need to look at multiple files depending on your site practice)
2. Create an Order Check Items Group that contains all orderable items for any OTC Antihistamines.
3. Create a Rule that contains the term created in step 1.
4. Set the rule to trigger the order check if the reminder term is evaluated as True.
5. Create the text that should appear in the order check window.

Example of the Output in CPRS.



Description of solution: A reminder term was used in the setup because the presence of Glaucoma was all that is needed to determine if the rule should trigger an order check. In the screen shot above, the text "Diagnosis of Glaucoma" was defined in the Display Name field. The rest of the text was defined in the Order Check Text field.

Example #2:

Problem:
Order Check is needed when ordering Glyburide for patients age 65 or greater and serum Cr 2.0 or greater.

Setup:

1. Create a reminder definition that is applicable to the patient if the patient age is 65 or greater and the patient has a CR serum 2.0 or greater.

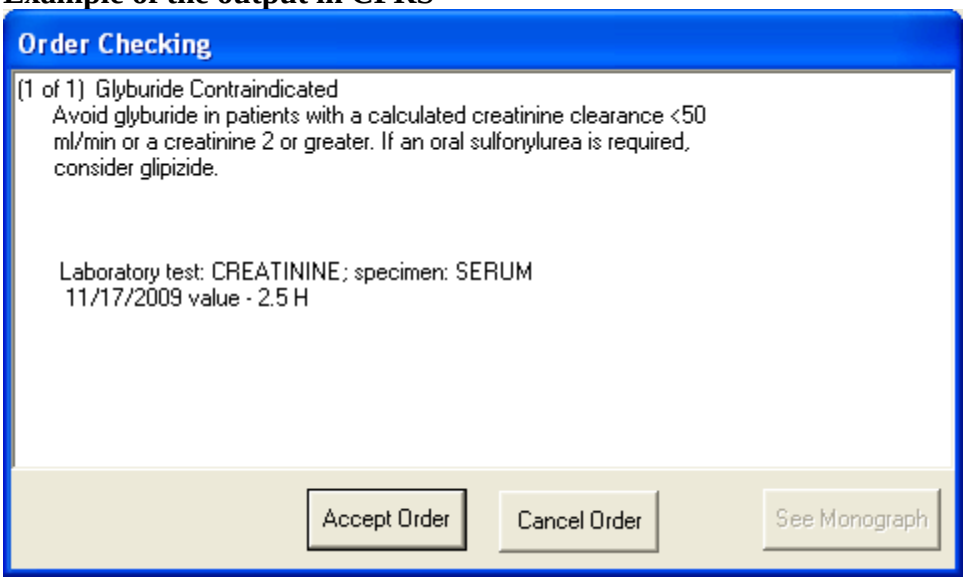
2. Create an Order Check Items Group that contains all orderable items for the Glyburide.

3. Create a Rule that contains the definition created in step 1.

4. Set the rule to trigger the order check if the reminder definition is applicable to the patient.

5. Create the text that should appear in the order check window. Set the order text to display the finding output in the order check text.

Example of the output in CPRS



Description of solution:
We needed a reminder definition to match patients older than 64 who had a lab test with the results greater than 2. In this example we set the rule up to display both the order check text and the definition evaluation text. The text "Glyburide Contraindicated" is defined in Display Name field. The text "Avoid glyburide in patients with a calculated creatinine clearance < 50 ml/min or a creatinine 2 or greater. If an oral sulfonylurea is required, consider glipizide," is defined in the order check text field. The rest of the text is returned from the reminder definition evaluation.

Example #3

Problem:
Order check desired to remind providers that the recommended dose of dabigatran (Pradaxa®) is reduced in the presence of declining renal function.

Setup:

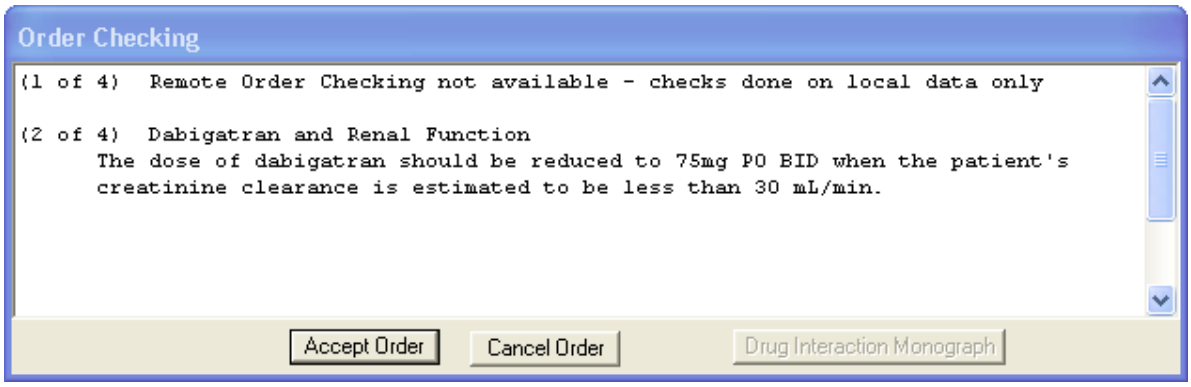
1. Create a reminder term that will identify patients with reduced renal clearance. The package insert for Pradaxa ® suggests a threshold of 30 mL/min creatinine clearance, but a serum creatinine level above 2.0 mg/dL approximates the same degree of renal function.

2. Create a reminder order check rule that calls the reminder term created in step 1 when its status is TRUE. The rule also contains the text that will appear in the order check window.

3. Create an order check item group for the dabigatran pharmacy item. You can do this at the VA GENERIC level (e.g., DG.DABIGATRAN) at the DRUG level (e.g., DABIGATRAN 75MG CAP) or at the ORDERABLE ITEM level (e.g., DABIGATRAN CAP, ORAL). Note that even if you use a specific strength at the drug level, all strengths will be order checked because CPRS actually uses the Orderable Item to perform the checks.

4. Connect the rule to the order check item group using the Add/Edit Reminder Order Check Items Group option.

Example of the Output in CPRS:



Description of the setup fields for reminder order check rule

For testing purposes, the status flag needs to be set to T.

Status	Result
T	Only Testing order checks display in CPRS and in the testing rules section of the reminder order check test option (VistA)

P	Only Production order checks display in CPRS and the production rules section of the reminder order check test option (VistA)
I	No order checks display in CPRS or in the testing/ production rules section of the reminder order check test option (VistA)

Reminder Order Check Items Inquiry Example: VA-TERATOGENIC MEDICATIONS ORDER CHECK (CAT X)

```
Select Reminder Managers Menu Option: ROC  Reminder Order Check Menu


   GE     Add/Edit Reminder Order Check Items Group
   GI     Reminder Order Check Items Inquiry
   RE     Add/Edit Reminder Order Check Rule
   RI     Reminder Order Check Rule Inquiry
   TEST   Reminder Order Check Test


Select Reminder Order Check Menu Option: GI  Reminder Order Check Items
Inquiry
Select Reminder Order Check Items Group by one of the following:


     N:  ORDER CHECK ITEMS GROUP NAME
     C:  VA DRUG CLASS
     D:  DRUG
     G:  VA GENERIC
     O:  ORDERABLE ITEM
     R:  ORDER CHECK RULE
     Q:  QUIT

Select Reminder Order Check Items Group by:  (N/C/D/G/O/R/Q): N//   ORDER
CHECK ITEM GROUP NAME
Reminder Order Check Item Group: VA
     1   VA-TERATOGENIC MEDICATIONS (CAT D OR C) GROUP
     2   VA-TERATOGENIC MEDICATIONS (CAT X) GROUP
CHOOSE 1-2: 2  VA-TERATOGENIC MEDICATIONS (CAT X) GROUP
DEVICE: ;;999  HOME
```

```
REMINDER ORDER CHECK RULE INQUIRY          Jan 05, 2012 10:18:38 am  Page 1
-------------------------------------------------------------------------------

VA-TERATOGENIC MEDICATIONS ORDER CHECK (CAT X)                   No. 6
-------------------------------------------------------------------------------

Display Name:           Potentially Teratogenic Medication (FDA Category X)

Class:                  NATIONAL

Sponsor:

Review Date:

Description: Teratogenic Medications Order Check - Category X Meds

  Due for: women of childbearing age (12-50) Exclusions: documented
  hysterectomy, documented placement of IUD more recent than documented
  removal of IUD
```

```
Reminder Term:

Term Evaluation Status:

Reminder Definition     VA-TERATOGENIC MEDICATIONS ORDER CHECK

Reminder Evaluation Status:
                        APPLICABLE

Output Text:            BOTH ORDER CHECK AND DEFINITION TEXT

Order Check Text
  The ordered medication is in FDA pregnancy category X.

  1) Pregnancy must be excluded prior to receiving the medication

  2) The patient must be provided contraceptive counseling on potential risk
  vs. benefit of taking this medication if she were to become pregnant.
```

Reminder Order Check Items Inquiry Example: VA-TERATOGENIC MEDICATIONS (CAT D OR C) GROUP

```
REMINDER ORDER CHECK ITEMS GROUP INQUIRY     Feb 02, 2012 10:11:31 am  Page 1
-------------------------------------------------------------------------------

VA-TERATOGENIC MEDICATIONS (CAT D OR C) GROUP                    No. 8
-------------------------------------------------------------------------------

Class:                  NATIONAL

Sponsor:

Review Date:

Group Description:


Pharmacy Item List:
    DG.ACETAMINOPHEN/BUTALBITAL
    .
    .


Orderable Item List:


Reminder Rule List:
           Rule Name: VA-TERATOGENIC MEDICATIONS ORDER CHECK (CAT D)
        Display Name: Potentially Teratogenic Medication (FDA Category D or
C)
```

```
               Class: National
             Sponsor:
         Review Date:
         Active Flag: Yes
        Testing Flag: Yes
            Severity: Medium

 Reminder Definition: VA-TERATOGENIC MEDICATIONS ORDER CHECK
   Definition Status: Applicable
         Output Text: Both Order Check and Definition Text
    Order Check Text:
                      Concern has been raised about use of this medication
                      during pregnancy.

                      1) Pregnancy status should be determined. Discuss
                      use of this medication on the context of risks to
                      the mother and child of untreated disease. Potential
                      benefits may warrant use of the drug in pregnant
                      women despite risks.

                      2) The patient must be provided contraceptive
                      counseling on potential risk vs. benefit of taking
                      this medication if she were to become pregnant.

    Rule Description:
                      Teratogenic Medications Order Check - Category D and
                      selected C Meds

                      Due for: women of childbearing age (12-50)
                      Exclusions: documented hysterectomy, documented
                      placement of IUD more recent than documented removal
                      of IUD


Select Reminder Order Check Items Group by one of the following:


     N:  ORDER CHECK ITEMS GROUP NAME
     C:  VA DRUG CLASS
     D:  DRUG
     G:  VA GENERIC
     O:  ORDERABLE ITEM
     R:  ORDER CHECK RULE
     Q:  QUIT
```

GEC Referral Report

This option is used to generate GEC Reports. GEC (Geriatrics Extended Care) is used for referral of geriatric patients to receive further care. This report is also available on the reminder reports menu.

```
Select Reminder Managers Menu Option: GEC  GEC Referral Report

All Reports will print on 80 Columns
     Select one of the following:

          1         Category
          2         Patient
          3         Provider by Patient
          4         Referral Date
          5         Location
          6         Referral Count Totals
          7         Category-Referred Service
          8         Summary (Score)
          9         'Home Help' Eligibility
          10        Restore or Merge Referrals
Select Option or ^ to Exit: 8// <Enter> Summary (Score)
Select a Beginning Historical Date.
BEGINNING date or ^ to exit:  (1/1/1988 - 6/30/2004): T-60//   (MAY 01, 2004)
Select Ending Date.
ENDING date or ^ to exit:  (5/1/2004 - 6/30/2004): T//   (JUN 30, 2004)
     Select one of the following:

          A         All Patients
          M         Multiple Patients
Select Patients or ^ to exit: A// ll Patients

     Select one of the following:

          F         Formatted
          D         Delimited
Select Report Format or ^ to exit: F// ormatted
DEVICE: HOME//   ANYWHERE    Right Margin: 80//

==============================================================================
GEC Patient-Summary (Score)
Data on Complete Referrals Only
From: 05/01/2004 To: 06/30/2004

                                 Finished        Basic Skilled Patient   TOTAL
Name                  SSN        Date       IADL ADL   Care    Behaviors ACROSS
==============================================================================
CRPATIENT,ONE     (666009999)    06/15/2004   0    0     2       4         6
CRPATIENT,TWO     (666009998)    06/15/2004   0    7     9       5        21
CRPATIENT,THREE   (666009997)    05/04/2004   0    0     0       0         0
CRPATIENT,FOUR    (666009996)    05/11/2004   0    0     0       0         0
CRPATIENT,FIVE    (666009995)    05/11/2004   0    0     0       0         0
CRPATIENT,SIX     (666009994)    05/11/2004   0    0     0       0         0
                                 ___________________________________________
                                 Totals > >   0    7    11       9        27
                                  Means > > 0.0  1.2   1.8     1.5       4.5
                     Standard Deviations > > 0.0  3.1   4.1     2.9       9.8

Enter RETURN to continue or '^' to exit:
```

Appendix A: Glossary

The OIT Master Glossary is available at:
http://vaww.oed.wss.va.gov/process/Library/master_glossary/masterglossary.htm

National Acronym Directory:
http://vaww1.va.gov/Acronyms/

Acronyms

AITC	Austin Information Technology Center (formerly AAC - Austin Automation Center)
AIMS	Abnormal Involuntary Movement Sca
API	Application Programmer Interface
CAC	Clinical Application Coordinator
CDCO	Corporate Data Center Operations
CNBD	Cannot be Determined (frequency)
CPRS	Computerized Patient Record System
CSV	CSV is the file extension for a Comma-separated data value file
DBIA	Database Integration Agreement
EPRP	External Peer Review Program
GUI	Graphical User Interface
HSR&D	Health Services Research and Development
HL7	Health Level 7
HRMHP	High Risk Mental Health Patient
ICD-9, CM	International Classification of Disease, 9th Edition, Clinical Modifications
ICD-10, CM	International Classification of Disease, 10th Edition, Clinical Modifications
IHD	Ischemic Heart Disease
IVMH	Improve Veterans Mental Health
MDD	Major Depressive Disorder
MHTC	Mental Health Treatment Coordinator
NLM	National Library of Medicine
OEF/OIF	Operation Enduring Freedom/Operation Iraqi Freedom

OQP	Office of Quality and Performance
PD	Product Development
QUERI	Quality Enhancement Research Initiative
SAS	Statistical Analysis System
SRS	Software Requirements Specification
VHA	Veterans Health Administration
VISN	Veterans Integrated Service Networks
VistA	Veterans Health Information System and Technology Architecture

Definitions

Term	Definition
Applicable	A reminder is applicable when a patient's findings meet the patient cohort reminder evaluation.
Boolean Logic Operators	Boolean operators are connectors used to produce more relevant/precise search results: : ! (OR), & (AND), !' (OR NOT), and &' (AND NOT)
CNBD	Cannot Be Determined. If a frequency can't be determined for a patient, the Status and Due Date will both be CNBD and the frequency display that follows the status line will be "Frequency: Cannot be determined for this patient." When reminder evaluation is disabled the status will be CNBD.
Clinical Reminder	A clinical reminder is a software decision support tool that defines evaluation and resolution logic for a given clinical activity. The evaluation logic defines conditions in the database including the presence or absence of specified criteria such as diagnoses, procedures, health factors, medications, or demographic variables (e.g., age, gender). A reminder may or may not require provider resolution, depending on its purpose and design, through a user interface, also known as a reminder dialog. Also, in accordance with the underlying logic, reminders may be used to collect specified patient information that may or may not be related to the dialog.
Cohort	Patient Cohort A group of patients that meet the defined criteria (Patient Cohort Logic) for a reminder. In other words, if the reminder is applicable, the patient is in the cohort. Patient Cohort Logic This is the logic that specifies how findings are used to select the applicable patient population; i.e., the patient cohort. It is based on Mumps Boolean operators and their negations. The operators are: ! (OR), & (AND), !' (OR NOT), and &' (AND NOT).
Component	A component represents the module that is presented in any given template.
Computed Findings	A custom MUMPS routine used to find some specific patient characteristic. Computed findings are used when none of the standard findings will work. Sites can create their own computed findings

CSUB	CSUB values are used in the CONDITION field to do a comparison to numeric or string values. Using +V causes the CSUB data to be interpreted as numeric. Strings that cannot be converted to a number are set to zero. For example, a CONDITION such as I +V("CHECK-OUT DATE/TIME")>0 would be true if the appointment had a check-out date/time.
	When a Reminder Test is run, some elements of the FIEVAL array will have a "CSUB" subscript. Example for an orderable item finding:
	`FIEVAL(5,"CSUB","DURATION")=1774`
	`FIEVAL(5,"CSUB","ORDER")=3366^CA ULTRA^546;99RAP`
	`FIEVAL(5,"CSUB","RELEASE DATE")=3010917.1625`
	`FIEVAL(5,"CSUB","START DATE")=3010917`
	`FIEVAL(5,"CSUB","STATUS")=PENDING`
	`FIEVAL(5,"CSUB","STOP DATE")=`
	`FIEVAL(5,"CSUB","VALUE")=PENDING`
	Each of the subscripts following "CSUB" may be used in a Condition (hence the abbreviation Condition SUBscript); for example:
	`I V("DURATION")>90`

Dialog Element	A dialog element is defined primarily to represent sentences to display in the CPRS window with a check-box. When the user checks the sentence off, the FINDING ITEM in the dialog element and the ADDITIONAL FINDINGS will be added to the list of PCE updates, orders, Mental Health Notification Purposes, and mental health tests. The updates won't occur on the CPRS GUI until the user clicks on the FINISH button. Dialog elements may have components added to them. Auto-generated components will be based on the additional prompts defined in the Finding Type Parameters. Once a dialog element is auto-generated, the sites can modify them. Dialog elements may also be instructional text or a header. The FINDING ITEM and components would not be defined in dialog elements.
Dialog Group	A dialog group is similar to menu options. It groups dialog elements and dialog groups within its component. The dialog group can be defined with a finding item and a check-box. The components in the group can be hidden from the CPRS GUI window until the dialog group is checked off.
Due	A reminder is DUE for a patient if the patient is in the cohort, and has not yet had the treatment, medication, education, etc., that is being searched for by the reminder.
Finding Item	A Finding Item is a piece of information that can be searched by the reminder.
Function Findings	Function Findings (FF) do computations on the results from regular findings. Function Findings can be used just like regular findings with one exception, there is no date associated with an FF, which means the Resolution Logic cannot be written so that it is made true solely by FFs. Besides providing new and expanded functionality, FFs can make custom logic much simpler to understand.
Health Factors	A health factor is a computerized component that captures patient information that for which no standard code exists, such as Family History of Alcohol Abuse, Lifetime Non-smoker, No Risk Factors for Hepatitis C, etc.
Mental Health Assistant	The Mental Health Assistant is a national VA software package that is used for administration and scoring of standardized self- report questionnaires and tests. It is integrated with clinical reminders in that mental health assistant instruments can be administered through a reminder dialog. Also the results of a specific instrument overall score, scale score, or specific item response can be used as a finding in reminder logic. This is the mechanism, for

	presenting questionnaires for screening for common mental health issues such as the AUDIT-C for alcohol misuse.
Prompt	An aid on the screen in the form of a question or statement indicating the options available. Prompts are defined for PCE, MH Notification Purpose, or as locally created comment check-boxes.
PXRM	Clinical Reminder package namespace
Reminder Component	A reminder component is any element, or part thereof, of a reminder, including the reminder's definitions, dialogs, findings, terms, cohort logic or resolution logic.
Reminder Definition	The reminder definition is the internal logic of the reminder. It describes the patients the reminder applies to, how often it is given, and what resolves or satisfies the reminder. It is comprised of the predefined set of finding items used to identify patient cohorts and reminder resolutions
Reminder Dialog	The reminder dialog is the display, which is seen by the user in the CPRS Graphical User Interface (GUI), when opening a reminder. Reminder dialogs are used in CPRS to allow clinicians to select actions that satisfy or resolve reminders for a patient. Information entered through reminder dialogs updates progress notes, places orders, and updates other data in the patient's medical record. A reminder dialog is created by the assembly of components in groups into an orderly display.
Reminders Exchange	The Clinical Reminders Exchange Utility provides a mechanism for sharing reminder definitions and dialogs among sites throughout the VA or among sites within a VISN. Exchanging reminders helps to simplify reminder and dialog creation. It also helps to promote standardization of reminders based on local, VISN-wide, and national guidelines.
Reminder Extracts	The Clinical Reminders application provides extract tools that enable sites to create extract summary reports based on an extract definition. An extract definition defines extract criteria similar to performance measure criteria. The extract definition specifies what patient lists should be created, which reminders should be run against each patient list, and what kind of totals should be accumulated. An extract run uses the extract definition to create extract totals and stores these results in the Reminder Extract Summary file.
Reminder Finding	Reminder finding is a type of data element in the Veterans Health Information and Technology Architecture (VistA) that determines a reminder's status. **Finding type** This refers to the source of the finding, such as the files for Drugs, Education Topics, Exams, Health Factors, Immunizations, Laboratory Tests, Mental Health Instruments, Orderable Items, Radiology Procedures, Reminder Computed Findings, Reminder Taxonomies, Reminder Terms, Skin Tests, VA Drug Class, VA Generic, and Vital Measurements.
Reminder Location List	Location Lists are a new finding type introduced in version 2.0. They provide a way to give a name to a list of locations. A Location List is built from two types of entries: Hospital Location, file #44 and Clinic Stop, file #40.7. There is a multiple for Hospital Locations and a multiple for Clinic Stops in the Location List file, so when you build a list of locations, you can use Hospital Locations and/or Clinic Stops.
Reminder Patient List	A list of patients that is created from a set of List Rules and/or as a result of report processing. Each Patient List is assigned a name and is defined in the Reminder Patient List File. Reminder Patient Lists may be used as an

	incremental step to completing national extract processing or for local reporting needs. Patient Lists created from the Reminders Due reporting process are based on patients that met the patient cohort, reminder resolution, or specific finding extract parameters. These patient lists are used only at local facilities.
Reminder Term	A reminder term is a predefined finding item(s) that are used to map local findings to national findings, providing a method to standardize these findings for national use.
Reminder Test	The Reminder Test option provides a convenient tool that can be used as an aid in setting up new reminders and tracking down problems with existing ones. It lets you evaluate a reminder without going through CPRS or Health Summary. Reminder Test now allows a Browser view, which improves some viewing of details.
Resolution	A reminder is considered RESOLVED (or SATISFIED) if the conditions defined by the reminder resolution logic have been met. For example, if a reminder exists for influenza immunization, giving a flu vaccine satisfies or resolves that reminder. Likewise, ordering lab tests or drugs or giving patient education can resolve a reminder.
Result Element	A result element contains special logic that uses information entered during the resolution process to create a sentence to add to the progress note. The special logic contains a CONDITION that, when true, will use the ALTERNATE PROGRESS NOTE TEXT field to update the progress note. A separate result element is used for each separate sentence needed. The result element is only used with mental health test finding items. Default result elements are distributed for common mental health tests, prefixed with PXRM and the mental health test name. Sites may copy them and modify their local versions as needed.
Result Group	A result group contains all of the result elements that need to be checked to create sentences for one mental health test finding. The dialog element for the test will have its RESULT GROUP/ELEMENT field defined with the result group. Default result groups for mental health tests are distributed with the Clinical Reminders package. Sites may copy them and modify their local versions as needed.
Term	A TERM is a collection of findings grouped together to make one concept.
TIU	Text Integration Utilities (TIU) simplifies the access and use of clinical documents for both clinical and administrative VAMC personnel, by standardizing the way clinical documents are managed. TIU accepts document input from a variety of data capture methodologies. Those initially supported are transcription and direct entry. TIU allows upload of ASCII formatted documents into VISTA.

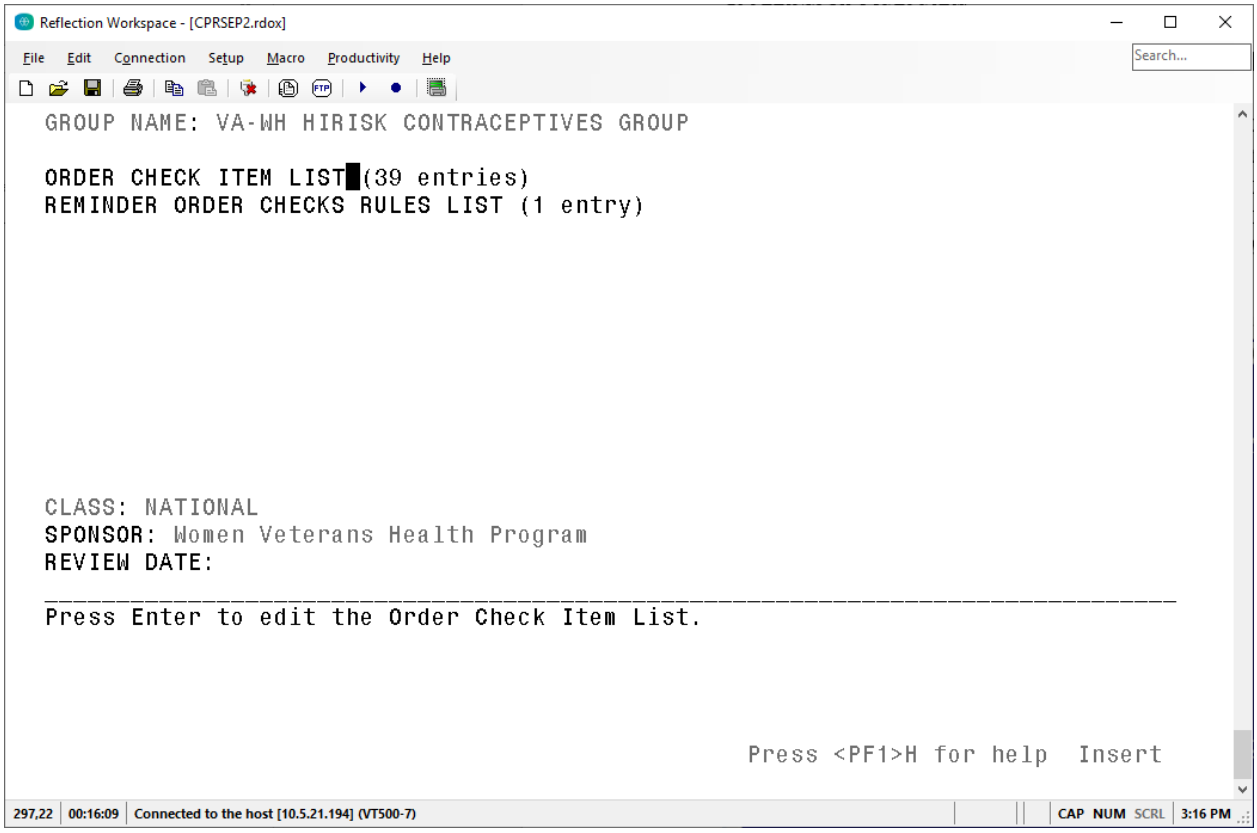
Appendix B: Clinical Reminder Order Checks Example

NOTE: PXRM*2*22 changed the method for creating Order Checks, by using ScreenMan functionality. For those not familiar with ScreenMan, a brief overview follows.

ScreenMan Overview

The redesigned Reminder Order Check functionality uses ScreenMan. ScreenMan is VA FileMan's *screen-oriented* data entry tool. It is an alternative to the Scrolling Mode approach. With ScreenMan, data is entered in *forms*. Each form field occupies a fixed position on the screen (instead of scrolling off!). You can see many data fields at once, and use simple key combinations to edit data and move from field to field on a screen. You can also move from one screen to another like turning through the pages of a book. ***For a detailed explanation of using ScreenMan, please refer to the VW FileMan Getting Started manual.***

The ScreenMan Screen



ScreenMan Descriptions

Required fields are underlined

Current field – reverse video

```
RULE NAME: DABIGATRAN AND RENAL FUNCTION-2
DISPLAY NAME: DABIGATRAN AND RENAL FUNCTION
STATUS: PROD
SEVERITY: MEDIUM

TERM:  Active Duty

   Reminder Term: Active Duty
   Term Evaluation Status: True

ORDER CHECK TEXT: The dose of dabigatran should be reduced to 75mg PO BID wh
...

RULE DESCRIPTION:


CLASS: LOCAL
SPONSOR:
REVIEW DATE:
____________________________________________________________________________


COMMAND:                                   Press <PF1>H for help    Insert
```

Initial Multiple field

Pop-up subpage where you can edit the selected entry in the multiple.

Command line: You can enter Exit, Save, Close, Next Page, and Refresh here.

Fields are usually composed of a *data element* and a *caption*. ScreenMan displays data elements in high intensity (boldface) and other text in regular intensity. Text that identifies a data element is called a *caption* and is usually followed by a colon (**:**). A caption and its associated data element are together called a *field*. Captions of *required* fields are underlined; to save any changes you make on the form, required fields *must* contain data.

How to Navigate Between Fields and Pages

There are a number of ways you can move the cursor from field to field on a form (i.e., navigate). This is to provide you with as much flexibility as possible so that you can work quickly and efficiently with forms.
You can use the keystrokes listed in the following table to move the cursor to various fields located on a ScreenMan form:

To	Press
Move to the next field (to right or below).	**<Tab>**
Move to the previous field (to left or above).	**<PF4>**
Move to the field above.	**<ArrowUp>**
Move to the field below.	**<ArrowDown>**
Move to the next field in the pre-defined edit sequence.	**<Enter>**
Edit a WORD-PROCESSING field.	At field, press **<Enter>**
Select a Subrecord in a Multiple.	At field, press **<Enter>**
Move to the next block on current page.	**<PF1><PF4>**
Jump to a specific field.	^ followed by Caption of field and **<Enter>**
Jump to the Command Line.	^**<Enter>**
Move to next page	**<PF1><ArrowDown>** or **<PageDown>**
Move to previous page	**<PF1><ArrowUp>** or **<PageUp>**
Move to a page you specify	**<PF1>P**

Saving and Exiting
To SAVE or EXIT the form, you need to reach ScreenMan's command line. It's reachable from any ScreenMan screen. To reach the command line, do any one of the following:

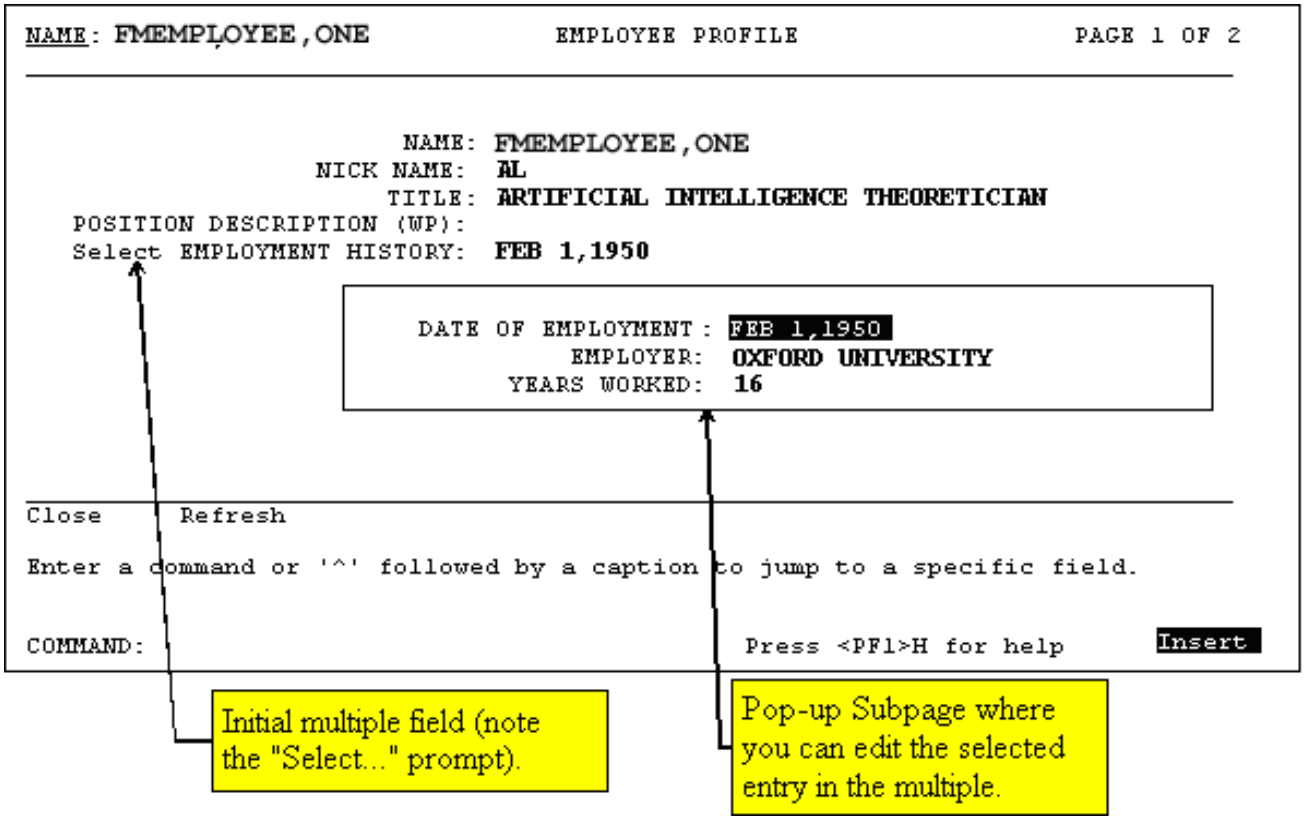
- Enter a caret ("^") at any field prompt.
- Press **<Enter>**, **<Tab>**, or **<PF4>** to move from field to field until you reach the command line.
- Press **<ArrowDown>** or **<ArrowUp>** to move the cursor from field to field downwards or upwards, until you reach the command line.

Then you can enter SAVE or EXIT at the command line (see below).

Word-Processing Fields
To edit or display a WORD-PROCESSING field, press the Enter/Return key at the WORD-PROCESSING field. This clears the screen and passes control to your Preferred Editor to edit the field. If you do not have a Preferred Editor, the Screen Editor is used. When you exit the editor, you return to the ScreenMan screen.

Multiples Linked to "Pop-Up" Subpages

A Multiple field can appear on a page and be linked to a regular or "pop-up" subpage. When you navigate to the Multiple field, select a Subrecord, and press the Enter/Return key, you are taken to the subpage, which contains the fields within the Multiple.
In the following illustration, the Multiple is the field with the caption "Select EMPLOYMENT HISTORY:". When you enter "FEB 1,1950" at this field, you are taken into a "pop-up" subpage, where you can edit the fields for that particular Subrecord:



Exiting a Subpage

While in a subpage, your only Command Line options are CLOSE and REFRESH. You cannot EXIT, Quit, or SAVE until you return to the parent page. You can return to the parent page by pressing **<PF1>C** or issuing the CLOSE command at the Command Line. From there, you can select another Subrecord to edit or navigate to another field.

Order Check Example

Purpose: Design an Order Check for dabigatran (Pradaxa®) to remind providers about dose reduction when creatinine clearance is less than 30 mL/min

This example uses serum creatinine values greater than 2 mg/dL to focus more on the order check than on the lab result

1. **Create a reminder term that will identify patients with reduced renal clearance. (Patients with Cr > 2 mg/dL)**

```
Select Reminder Term Management Option: TE  Add/Edit Reminder Term
Select Reminder Term: ZZ CREATININE > 2 (TERM)
  Are you adding 'ZZ CREATININE > 2 (TERM)' as
    a new REMINDER TERM (the 1215TH)? No// Y  (Yes)
   REMINDER TERM CLASS: L  LOCAL
NAME: ZZ CREATININE > 2 (TERM)  Replace
CLASS: LOCAL//
Reminder Term has no findings!
Select Finding: LT. CREATININE
Are you adding ' CREATININE' as a new FINDINGS (the 1ST for this
REMINDER TERM)? No// Y  (Yes)
Editing Finding Number: 1
FINDING ITEM:  CREATININE//
CONDITION: I V>2
```

2. **Create a reminder order check rule that calls the reminder term created in step 1 when its status is TRUE. The rule also contains the text that will appear in the order check window.**

   - Each RULE exists as a part of the OI Group
   - That allows you to set up multiple rules that apply to the same list of drugs

```
Select Reminder Managers Menu Option: ROC  Reminder Order Check Menu
Select Reminder Order Check Menu Option: RE  Add/Edit Reminder Order
Check Rule
Select Reminder Order Check Items Group by one of the following:


     N:  ORDER CHECK ITEMS GROUP NAME
     C:  VA DRUG CLASS
     D:  DRUG
     G:  VA GENERIC
     O:  ORDERABLE ITEM
     R:  ORDER CHECK RULE
     Q:  QUIT

Select Reminder Order Check Items Group by:  (N/C/D/G/O/R/Q): N//   R
ORDER CHECK RULE
```

```
Select REMINDER ORDER CHECK RULES RULE NAME: DABIGATRAN AND RENAL
FUNCTION

  Are you adding 'DABIGATRAN AND RENAL FUNCTION' as
    a new REMINDER ORDER CHECK RULES (the 4TH)? No// Y  (Yes)

RULE NAME: DABIGATRAN AND RENAL FUNCTION
DISPLAY NAME: DABIGATRAN AND RENAL FUNCTION
ACTIVE FLAG: YES
TESTING FLAG: YES
SEVERITY: MEDIUM
TERM: <Enter>
```

When you press Enter after Term:, a box pops up and prompts you for the Term name and Term Evaluation Status.

```
    REMINDER TERM: ZZ CREATININE > 2 (TERM)
    TERM EVALUATION STATUS: TRUE                    .
```

Either a Term or a Definition must be defined; if you don't enter a Term, the prompt appears for DEFINITION.

```
DEFINITION <Enter>
```

```
REMINDER DEFINITION:
 DEFINITION EVALUATION STATUS:
 OUTPUT TEXT:
```

When you press Enter after Term:, a box pops up and prompts you for the Term name

```
ORDER CHECK TEXT:
```

Order Check Text and Rule Description are word-processing fields. When you press Enter, a word-processing screen opens up.

```
==[ WRAP ]==[ INSERT ]======< ORDER CHECK TEXT >========[ <PF1>H=Help ]


The dose of dabigatran should be reduced to 75mg PO BID when the
patient's creatinine clearance is estimated to be less than
30 mL/min.





<=====T=======T====T======T=======T=======T=======T=======T=======T>===
```

```
RULE DESCRIPTION: <Enter>
RULE NAME: DABIGATRAN AND RENAL FUNCTION
DISPLAY NAME: DABIGATRAN AND RENAL FUNCTION
ACTIVE FLAG: YES
TESTING FLAG: YES
SEVERITY: MEDIUM

TERM: ZZ CREATININE > 2 (TERM)
TERM EVALUATION STATUS: TRUE

ORDER CHECK TEXT: The dose of dabigatran should be reduced to 75mg PO
BID wh ...

RULE DESCRIPTION:


CLASS: LOCAL
SPONSOR:
REVIEW DATE:
_____________________________________________________________________
Exit     Save     Refresh

Enter a command or '^' followed by a caption to jump to a specific
field.


COMMAND:                              Press <PF1>H for help    Insert
```

3. Create an Order Check Item Group

Similar ScreenMan actions and word-processing fields shown in the example above apply in this option.

```
Select Reminder Managers Menu Option: ROC  Reminder Order Check Menu
Select Reminder Order Check Menu Option: GE  Add/Edit
                        Reminder Order Check Items Group
Select reminder order check items group by:  (N/C/D/G/O/R/Q): N//
<Enter>
                        ORDER CHECK ITEM GROUP NAME

Reminder Order Check Item Group: DABIGATRAN AND RENAL FUNCTION
  Are you adding 'DABIGATRAN RENAL FUNCTION' as
    a new REMINDER ORDER CHECK ITEMS GROUP (the 4TH)? No// Y  (Yes)

-- ORDER CHECK ITEM LIST ---------------------------------------------
----------
. DR.DABIGATRAN ETEXILATE 150MG ORAL CAP              Word-
                                                      processing field
.
---------------------------------------------------------------------
```

```
                                                        Word-processing
                                                        field
--REMINDER ORDER CHECK RULE---------------------------------------------
. DABIGATRAN AND RENAL FUNCTION
.
-----------------------------------------------------------------------

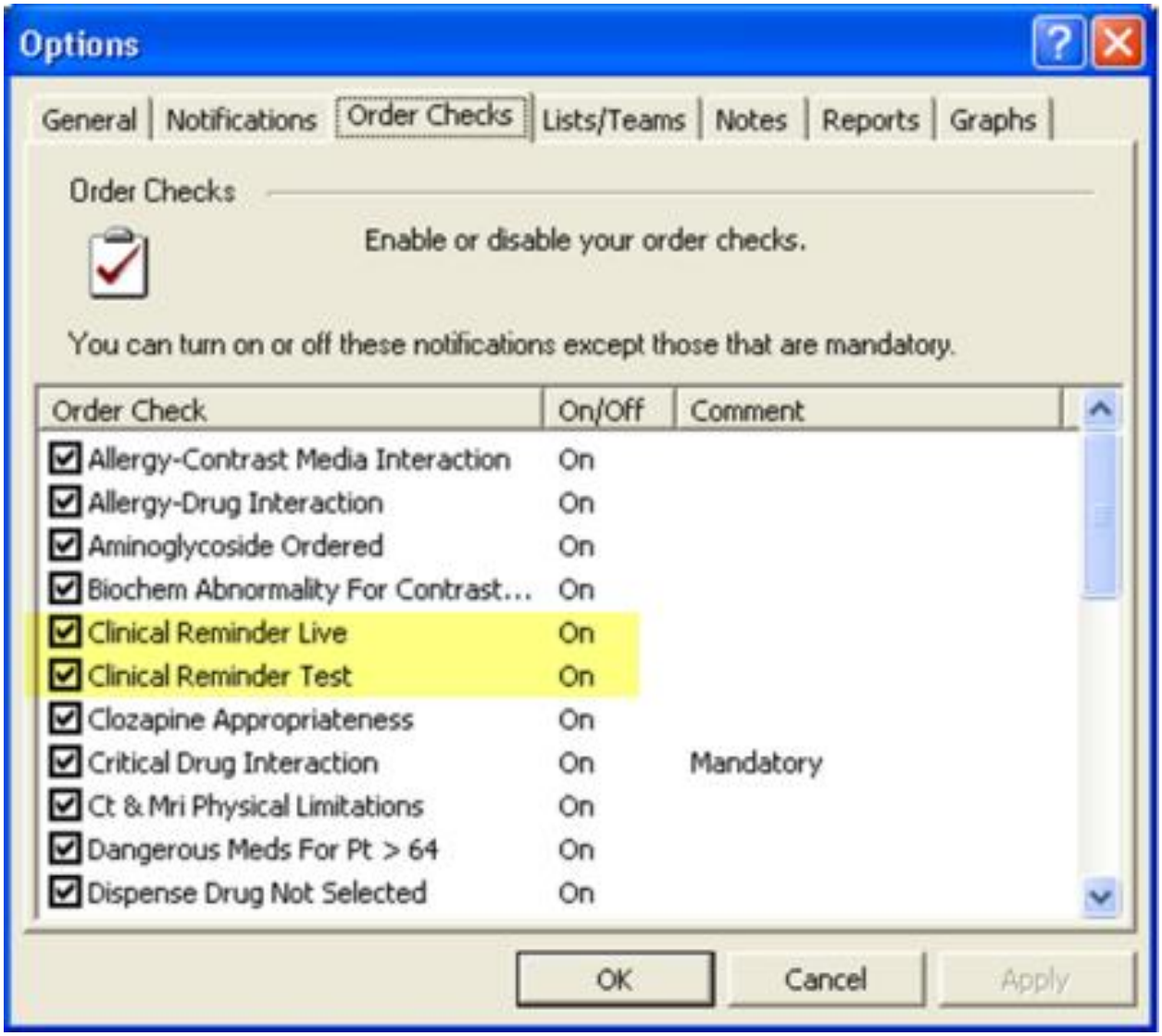
GROUP NAME: DABIGATRAN

ORDER CHECK ITEM LIST (0 entry)
REMINDER ORDER CHECKS RULES LIST (1 entry)

CLASS: LOCAL
_______________________________________________________________________
Select reminder order check items group by:  (N/C/D/G/O/R/Q): N// QUIT
```

4. **Connect the rule to the order check item group using the Add/Edit Reminder Order Check Items Group option.**

5. **In CPRS, turn off the Clinical Reminders Live Order Check.**



- Set the rule's testing flag to True.
- Set the group's Active Flag to True.
- Run the Reminder Order Check Test option to validate that the active rule shows for each patient.
- In CPRS, place a corresponding order for the order group for each test patient.
- Validate that only the active rule shows in the order check form.

Result

Order Checks

To cancel an order select the order by checking the checkbox and press the "Cancel Checked Order(s)" button.

If the order check description is cut short, hover over the text to view the complete description.

Cancel	Order/Order Check Text
Cancel? ☐	DABIGATRAN CAP,ORAL 150MG TAKE 1 CAPSULE BY MOUTH TWICE A DAY Quantity: 60 Refills: 0 *UNSIGNED*
	(1 of 4) Remote Order Checking not available - checks done on local data only (2 of 4) Dabigatran and Renal Function The dose of dabigatran should be reduced to 75mg PO BID when the patient's creatinine clearance is estimated to be less than 30 mL/min.

Cancel Checked Order(s)

Accept Order(s) | Return to Orders | Drug Interaction Monograph

Order Checking

```
(1 of 4)  Remote Order Checking not available - checks done on local data only

(2 of 4)  Dabigatran and Renal Function
      The dose of dabigatran should be reduced to 75mg PO BID when the patient's
      creatinine clearance is estimated to be less than 30 mL/min.
```

Accept Order | Cancel Order | Drug Interaction Monograph