Clinical Reminders

Manager's Manual



(Revised September 2022)

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.

Recommended Users

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

Related Manuals

Clinical Reminders documentation can also be found in the VistA Software Document Library (VDL).

Related Web Sites

Site	URL
National HSD&D Reminders site	REDACTED
Office of Quality, Safety, and Value	REDACTED
VA Software Document Library	REDACTED
VA/DoD Clinical Practice Guidelines	REDACTED
National Clinical Reminders Committee	REDACTED

Revision History

Revision Date	Page(s)	Description	Project Authors
August 2022		PXRM*2.0*65: Over 25% of this manual was updated.	CPRS Development Team
	1,3,17,	The following sections were updated: Introduction	
	20	<u>Reminders Maintenance</u>	
	23-24,26-29,32- 34,38	<u>Reminder Computed Finding</u> <u>Management</u>	
	40- 41,45,51,56,61, 65-71,73- 74,76,79- 82,84,86- 87,90,92,94- 100,102-105	<u>Reminder Definition Management</u>	
	118,129,135	<u>Reminder Sponsor Management</u>	
	152,156	<u>Value Sets</u>	
	158,159	<u>Reminder Location List</u> <u>Management</u>	
	161-162,164- 166,170,172- 173,175-176	<u>Reminder Exchange</u>	
	182,193,198, 203-204	<u>Reminder Test</u>	
	206	<u>Reminder Information Only Menu</u>	
	208,214,219, 221-222, 227- 228,235- 236,241	<u>Reminder Dialog Management</u>	
	248,255,258, 275-276,278, 280	<u>CPRS Reminder Configuration</u> <u>Menu</u>	
	281-282,284, 291-292, 294, 297, 299	<u>Reminder Reports</u>	

Revision Date	Page(s)	Description	Project Authors
	309,388	<u>Reminder Patient List</u> <u>Management</u>	
	342,344, 348, 354, 356-357	<u>Reminder Extract Tools</u>	
	357,361	<u>Clinical Reminder Order Checks</u>	
	370	<u>Appendix A</u>	
	376	<u>Appendix B</u>	
	384-388	Added the <u>Appendix D –</u> <u>Contradictions, Precautions, and</u> <u>Refusals</u> section.	
	297-299	Deleted the GEC Referral Reports Section since the <u>GEC Referral</u> <u>Report</u> is already in the Reminder Reports section.	
May 2022	1	Patch 80 (PXRM*2.0*80) Changes - This patch changes how Reminder Exchange packs up Reminder Dialogs	Department of Veterans Affairs
	218	<u>Changes made with PXRM*2.0*80 -</u> <u>This modified Clinical Reminder</u> <u>Exchange functionality to not</u> <u>automatically packed up a reminder</u> <u>dialog under the following condition.</u>	
May 2021	1	PXRM*2.0*42 – Summary for patch PXRM*2.0*42 (The functionality was implemented in PXRM*2.0*46 but wasn't documented until the PXRM*2.0*42 release.)	REDACTED
	127-135	Added the Found Text/Not Found Text Details, CSUB Objects, Text Arguments, and Building Tables sections	
	135	Removed the Status List and Computed Finding Parameter descriptions	
January 2021	various	Completed redaction items	REDACTED
August 2020		PXRM*2.0*45: Fixed footer issues and made the	REDACTED

Revision Date	Page(s)	Description	Project Authors
		manual 508-compliant.	
June 2020	2	PXRM*2.0*45 – Summary for patch PXRM*2.0*45	REDACTED
	Error! Bookmark not defined.	Explanation of the Repack menu item	
	208	Added a short summary of items changed in PXRM*2.0*45	
		Changed Dialog Edit Options capture	
	219	<u>Updated the Dialog Overview menu</u> <u>capture</u>	
	220	<u>Changed the Reminder Dialog</u> <u>Branching Logic</u>	
	221	Added Reminder Dialog CPRS 32 Pre Conversion report to a list of reports	
	226	Added items to what is on the dialog checker report	
	231	<u>Updated what the Order Check Item</u> Group can contain	
	358, 359		
December 2017	20-24	PXRM*2.0*68 – Removed VA-MHV references.	REDACTED
October 2017	n/a	PXRM*2.0*47 – Removed reference to Albany download site which has been decommissioned.	REDACTED
August 2016	Various, 149	Updates based on review by developers. Minor changes.	REDACTED
August 2016	62, 149	Added a comment that running the integrity check monthly or quarterly would be a best practice.	REDACTED
June 2016	149	Added a section about Value Sets.	REDACTED
June 2016	75, 75	Added two items under Finding Modifier description: Use Start Date and Include Visit Data.	REDACTED
June 2016	311	Made a small change to the section about List Rule Sets.	REDACTED
June 2016	69, 80	Added an item about using a STATUS LIST with orderable items. And added to the section referencing using status/condition in searches.	REDACTED
June 2016	Error! Bookmark not defined., 35	New Computed Findings: VA – Age Birth Sex List, VA-BIRTH DATE BIRTH SEX LIST,	REDACTED

Revision Date	Page(s)	Description	Project Authors
June 2016	162, 170	Added that Reminder Exchange files cannot be used from SharePoint.	REDACTED
June 2016	233	Added to the section about the Dialog Taxonomy Editor.	REDACTED
June 2015	65	PXRM*2.0*53 – Added that the Custom Due Date might also use the RANK_DATE function.	REDACTED
June 2015	3, 226	Added information about the Reminder Dialog Search report.	REDACTED
August 2014	Various	Updates based on developers' reviews	REDACTED
June 2014	Various	Updates based on developers' reviews	REDACTED
April 2014	161	Added changes made by PXRM*2*26 to Reminder Exchange	REDACTED
Jan 2014	23	Added changes made by PXRM*2*26 in Computed Findings	REDACTED
Jan 2014	281	Added changes made by PXRM*2*26 in Reports/Finding Usage Report	REDACTED
Jan 2014	90	Added changes made by PXRM*2*26 in Function Findings	REDACTED
Jan 2014	Error! Bookmark not defined.	Added changes made by PXRM*2*26 to Dialog Management	REDACTED
Jan 2014	161	Added changes made in Reminder Exchange New Exchange action: Load Web Host File	REDACTED
Aug 2013	245	Added dialog taxonomy editor description	REDACTED
April-June 2013	233	Updated Dialog Management chapter	REDACTED
April-June 2013	111	Updated Taxonomy chapter	REDACTED
February 2013	3, 111	Added description of PXRM*2*26 and changed Taxonomy chapter per changes made in PXRM*2*26 for the ICD-10 project.	REDACTED
Apr-Dec 2012	Various	Added details about changes made for Patch 24 and phase 2 of the HRMHP project	REDACTED
Jan 2012	Арр В, 374	Updated Appendix B, Order Check example for PXRM*2*22	REDACTED
Jan 2012	358	Updated Order Check section for PXRM*2*22	REDACTED
Dec 2011	n/a	Added description of patch 21 and MSDS project	REDACTED
Dec 2011	Various	Updates per reviews by Product Support team.	REDACTED

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July 2011	94	Added Function Findings primer by Product Support team.	REDACTED
Feb 2011	Various	Added details about changes made for Patch 18 and HRMHP project	REDACTED
January 2011	358	Edited Order Check section, per Anthony Puleo and Rob Silverman,	REDACTED
December 2010	38	Added computed finding example for VA-IS INPATIENT	REDACTED
November 2010	340	Added Reminder Extracts section provided by Clinical Product Support	REDACTED
June 2010	n/a	Added description of Order Check menu and options, introduced in patch 16.	REDACTED
July 2009	161	Updated patch 12 update section and Reminder Exchange section	REDACTED
May 2009	207, 226	Updated Dialogs and Reports sections, per developer Review	REDACTED
May 2009	23	Updated Computed Findings section	REDACTED
December 2008	161	Updated Reminder Exchange section	REDACTED
December 2008	179	Updated Reminder Test section	REDACTED
December 2008	23	Updated Computed Findings section	REDACTED
September 2008	n/a	Added new computed findings descriptions	REDACTED
July 2008	299	New report, Finding Usage Report	REDACTED
October 2007	13	Updated National Reminders list	REDACTED
October 2007	160	Added description of new option, Copy Location List	REDACTED
October 2007	Error! Bookmark not defined.	Added description of new option, TIU Template Reminder Dialog Parameter	REDACTED
October 2007	Error! Bookmark not defined.	Updates to description of Mental Health Dialog functionality	REDACTED
October 2007	308	Added description of new option, Edit Number of MH Questions	REDACTED
September 2007	104	Added new function finding, NUMERIC	REDACTED
June 2007	Various	Changes per patch 6	REDACTED
September 2006	309-340	Changes to Patient Lists and Extract Management descriptions	REDACTED
May-June 2006	340	Extract Management option changes	REDACTED
March 2006	N/A	Added descriptions of new computed findings for appointments	REDACTED

Revision Date	Page(s)	Description	Project Authors
February 2006	309	Rewrite of Patient List section, based on changes to software and need for more explanation and clarification	REDACTED
February 2006	Page 340	Rewrite of Extract Management section, based on changes to software and need for more explanation and clarification	REDACTED
January- February 2006	Various	Updates, based on changes or corrections in software	REDACTED
July-August 2005	Various	Changes for Patch 4	REDACTED
March 2005	Various	Changes for Version 2.0	REDACTED

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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

When a reminder definition is used for point of care decision support, the evaluation status will be Not Applicable (N/A) for patients who have a recorded date of death because reminders do not need to be resolved for deceased patients.

When a reminder definition is used for reporting, deceased patients can be included since it may be important to know what reminders were resolved for them when they were alive.

Patch 65 (PXRM*2.0*65) Changes

Patch 65 supports VistA Immunization Enhancements (VIMM).

A new finding modifier, IMMUNIZATION SEARCH CRITERIA, was added to the findings multiple of reminder definitions and reminder terms. It is a set of codes that controls how a patient's immunizations are searched during reminder evaluation.

The CPRS v32b release allows users to input immunization contraindications, precautions, and refusals, storing them in the VIMM CONTRA/REFUSAL EVENTS file. Clinical Reminders was modified so that entries from this file can be used in reminder evaluation. As a result, there are two new evaluation statuses: CONTRA and REFUSED. The description for the computed finding, VA-REMINDER DEFINITION was updated to include the two new statuses.

The Patch 65 changes made the V IMMUNIZATION field (#.07) CONTRAINDICATED obsolete. Thus, it was removed from reminder evaluation.

A new computed finding, VA-IMMUNIZATION AND LOCATION LOT INFO is included in Patch 65. It is only used with a Reminder Dialog to obtain lot information.

The following Patch 65 changes are not related to immunizations:

- The PRINT NAME, MINIMUM VALUE, MAXIMUM VALUE, MAXIMUM DECIMALS, UCUM CODE, PROMPT CAPTION and UCUM DISPLAY fields were added to Reminder Taxonomies. These fields provide the basis for being able to record measurements for codes in a taxonomy. The corresponding CPRS changes will be in a future version.
- Clinical Maintenance output of measurements was changed to use the UCUM DISPLAY field for determining what to display for the units.

Patch 80 (PXRM*2.0*80) Changes

This patch changes how Reminder Exchange packs up Reminder Dialogs. Reminder Dialogs will no longer get packed if the dialog is attached to a Reminder Definition and that Reminder Definition is used in another Clinical Reminder component such as: Reminder Dialog Branching Logic, Reminder Order Check Rules, Reminder List Rules, or in a Reminder Definition or Reminder Term using the Computed Finding VA-REMINDER DEFINITION.

Patch 42 (PXRM*2.0*42) Changes

This patch modified Clinical Reminder functionality to support the Coronavirus Disease (COVID) v2.0 updates.

This new functionality, called CSUB Objects, includes the ability to display the data for any finding in Found/Not Found Text.

This functionality was implemented in PXRM*2.0*46. However, it wasn't documented until the PXRM*2.0*42 release.

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 Reminder Exchange entry will not install correctly. If the Reminder 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 Reminder 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 EXAMPLE.ORG.EXAMPLE.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//
```

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 shouldfollow 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

Éligibility 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/dialogUSR*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 predefined 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)

То

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

- 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	Added SUD; added text dialog element for
	F/U EVAL	local health summary object for prior
		AUDIT-C display; reversed order of
		feedback and advice; made nothing
		required
RD	VA-EMBEDDED FRAGMENTS	New
	RISK EVALUATION	
RD	VA-IRAQ & AFGHAN POST-	Added a FF to the cohort logic
	DEPLOY SCREEN	
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	Added SUD clinic visit exclusions
	F/U EVAL	
RM	VA-DEPRESSION SCREEN	Updated URLs and description.
RM	VA-EMBEDDED FRAGMENTS	New
	RISK EVALUATION	
RM	VA-IRAQ/AFGHAN POST	Uses OEF/OIF in dialog and logic;
	DEPLOYMENT SCREEN	updated logic, fixed active duty problem
RM	VA-OEF/OIF MONITOR	Removed dialog from this reporting
	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	Inactivated
	FLU/PNEUMONIA	
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 Reminder Content

National Content is released on a frequent basis. These releases can either add or update reminder content. The NAME for all national content starts with VA- and the CLASS is NATIONAL. The names of some national dialog components will start with VAL- and the CLASS will be LOCAL so they can edited by sites.

How to Get a List of Patches Released since V2.0

In the Forum Patch module, use the following option to get a list of all V2.0 released patches:

AD All Released Patches for a Package, Detailed

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]
              Computed Finding List
         CRL
         CFI
                Reminder Computed Finding Inquiry
         CFE
                Add/ Edit Computed Finding
  RM
         Reminder Definition Management ... [PXRM REMINDER MANAGEMENT]
             List Reminder Definitions
         RT.
               Inquire about Reminder Definition
         RΙ
         RE
              Add/Edit Reminder Definition
         RC
               Copy Reminder Definition
         RA
               Activate/Inactivate Reminders
         RH
               Reminder Edit History
         ICS
              Integrity Check Selected
                Integrity Check All
         TCA
         Reminder Sponsor Management [PXRM SPONSOR MANAGEMENT]
   SM
         SL
             List Reminder Sponsors
         ST
                Reminder Sponsor Inquiry
         SE
                Add/Edit Reminder Sponsor
   тхм
         Reminder Taxonomy Management ... [PXRM TAXONOMY MANAGEMENT]
   TRM
         Reminder Term Management ... [PXRM TERM MANAGEMENT]
         TT.
              List Reminder Terms
         ΨТ
               Inquire about Reminder Term
         ΤE
               Add/Edit Reminder Term
         TC
               Copy Reminder Term
         Reminder Location List Management ... [PXRM LOCATION LIST MANAGEMENT]
  LМ
         LL List Location Lists
         LΤ
              Location List Inquiry
         LE
              Add/Edit Location List
         LC
                Copy Location List
  RX
         Reminder Exchange [PXRM REMINDER EXCHANGE]
  RT
         Reminder Test [PXRM REMINDER TEST]
         Other Supporting Menus ... [PXRM OTHER SUPPORTING MENUS]
   OS
         ΤМ
                PCE Table Maintenance ...
         PC
                PCE Coordinator Menu ...
         HS
                Health Summary Coordinator's Menu ...
         도도
               Print Blank Encounter Forms ...
               Enter/edit quick orders
         00
   INFO
         Reminder Information Only Menu ... [PXRM INFO ONLY]
               List Reminder Definitions
         RL
         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 ...
                     Reminder Resolution Statuses
                RS
```

	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 i	tems
	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	
MST	FUR Finding Usage Report	
MSI	Reminders MST Synchronization Management [PXRM MST MANAGEMENT] SYN Reminders MST Synchronization	
	SYN Reminders MST Synchronization REP Reminders MST Synchronization Report	
PL	Reminder Patient List Menu [PXRM PATIENT LIST MENU]	
ГЦ	LRM List Rule Management	
	PLM Patient List Management	
PAR	Reminder Parameters [PXRM REMINDER PARAMETERS]	
IAI	ESD Edit Site Disclaimer	
	EWS Edit Web Sites	
	MH Edit Number of MH Questions	
ROI	Reminder Orderable Item Menu	
1(01	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 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 manage Clinical Reminders.

Options/actions requiring this key

PXRM DISABLE/ENABLE EVALUATION

(see above description)

PXRM REMINDERS DUE REPORT on the PXRM REMINDER REPORTS menu

• The field called **Owner** 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 MANAGER 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.

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	

Reminder Managers Menu Descriptions

Option	Option Name	Syn	Description
			menu let you view, define, or edit Reminder Sponsors.
Reminder Taxonomy Management	PXRM TAXONOMY MANAGEMENT	ТХМ	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	ХМ	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 developing a reminder definition, if particular patient data is needed and that data is not available via the standard finding types, a computed finding that searches for and returns the required data can be created and used like a standard finding.

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 and terms.

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!

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) – 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) - Name of the MUMPS routine.

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

PRINT NAME (#.04 field) – This field 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) – Set of codes that specifies the type of computed finding. "S" stands for single occurrence, "M" for multiple occurrence, and "L" for list. If TYPE s blank, single will be assumed.

CF PARAMETER REQUIRED (#6 field) – Set this field to YES, if the computed finding must have parameter(s) passed to it in order for it to work.

DESCRIPTION – 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.

CLASS (#100 field) – Set this field to LOCAL or VISN as appropriate.

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:
       М
               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//
```

National Computed Findings

When the need arises, a new national computed finding will be created and released. This means the list of national computed findings is dynamic, so the best way to find and use national computed findings is by using the online tools. The computed finding management option is on the Reminder Manager's Menu:

Select OPTION NAME: REMINDER MANAGERS MENU 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 Reminder Test RT OS Other Supporting Menus ... INFO Reminder Information Only Menu ... Reminder Dialog Management ... DM CP CPRS Reminder Configuration ... RP Reminder Reports ... MST Reminders MST Synchronization Management ... Reminder Patient List Menu ... ΡL PAR Reminder Parameters ... ROC Reminder Order Check Menu ... ХM Reminder Extract Menu ... VS NLM Value Set Menu CQM NLM Clinical Quality Measures Menu

Select Reminder Managers Menu <TEST ACCOUNT> Option: CF Reminder Computed Findi ng Management

CFE Add/Edit Reminder Computed Finding CFI Reminder Computed Finding Inquiry CFL Reminder Computed Finding List

Reminder Computed Finding List will list all the computed findings in your account, not just the national computed findings, so it is not the best way to get a list of just the national computed findings. The easiest way to get a list of national computed findings is to use Reminder Computed Finding Inquiry and type VA- at the prompt. Because all national content starts with the VA- prefix, this will produce a list of national computed findings.

```
Select Reminder Computed Finding Management <TEST ACCOUNT> Option: CFI Reminder
Computed Finding Inquiry
Select COMPUTED FINDING: VA-
1 VA-ACTIVE PATIENT RECORD FLAGS NATIONAL
2 VA-ADMISSIONS FOR A DATE RANGE NATIONAL
3 VA-AGE NATIONAL
4 VA-AGE BIRTH SEX LIST NATIONAL
5 VA-AGENT ORANGE EXPOSURE NATIONAL
...
```

The name of the computed finding is chosen to express the type of data the computed finding will search for. When you see one that looks like it may be what you are looking for, select it to get full details of what the computed finding does and how to set it up. That information is in the Description for all

national computed findings. When adding or editing a finding in a reminder definition or term, if the finding is a computed finding, you will be ask if you want to display the help for the computed finding. If you respond YES, a help screen containing the same information shown in the inquiry will open.

A few of the national computed findings will benefit from additional documentation that is not amenable to online presentation in VistA.

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 3 4	CLINIC APPOINTMENT STATUS 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 15	CREDIT STOP CODE WORKLOAD NON-COUNT
15 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.

The following table is from the Patient Information Management System (PIMS) Technical Manual. It is documentation for the API SDAPI^SDAMA301, which is used by this computed finding to get a list of a patient's appointments.

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;N0-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;REDACTED 455;REDACTED
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

Available Appointment Data Fields

ID	FIELD NAME	DATA TYPE	Format/Valid Values	Description	Examples of Returned Data
					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 associated with the clinic.	301;350
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,	Status Information for the Visit.	8;INPATIENT APPOINTMENT;INPATIE NT/CHECKED

ID	FIELD NAME	DATA TYPE	Format/Valid Values	Description	Examples of Returned Data
			Checked Out Date/Time, and Admission Movement IFN		OUT;;3030218.1548;14584 4
23	X-RAY FILMS	TEXT	Y or N	"Y" if x-ray films are required at clinic else "N"	Y N
24	AUTO-REBOOKED APPOINTMENT DATE/TIME	DATE/TIME	YYYMMDD.HHMM	The date/time that the appointment was Auto- Rebooked (rescheduled) to.	3031215.083
25	NO-SHOW / CANCEL DATE/TIME	DATE/TIME	YYYMMDD.HHMM	The date/time that the appointment was No- Showed or Cancelled.	3031215.083
26	RSA APPOINTMENT ID	TEXT	NNN	The unique numeric Oracle ID that identifies a specific RSA appointment. This field will be null for appointments in legacy VistA.	34983
28	DATA ENTRY CLERK	TEXT	DUZ;Name	The DUZ and name of the clerk who scheduled the appointment.	24569;PERSON,NEW A
29	NO-SHOW / CANCELED BY	TEXT	DUZ;Name	The DUZ and name of the clerk who no- showed or canceled the appointment.	24569;PERSON,NEW A
30	CHECK IN USER	TEXT	DUZ;Name	The DUZ and name of the clerk who checked in the appointment.	24569;PERSON,NEW A
31	CHECK OUT USER	TEXT	DUZ;Name	The DUZ and name of the clerk who checked out the appointment.	24569;PERSON,NEW A
32	CANCELLATION REASON	TEXT	DUZ;Name	IEN and Name of Cancellation Reason.	11;OTHER
33	CONSULT LINK	TEXT	NNN	The Consult Link IEN associated with the appointment.	23123

Note: Field 27 is reserved for the 2507 Request IEN that will be available in a future Scheduline release.

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:
                  All reminder details
         Α
         G
                   General
         В
                   Baseline Frequency
         F
                  Findings
         FF
                  Function Findings
                 Logic
         L
         С
                 Custom date due
                 Reminder Dialog
         D
         W
                 Web Addresses
Select section to edit: f Findings
Reminder Definition Findings
Choose from:
                                                               Finding # 2
Finding # 1
CF BSA
CF VA-BMI
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: 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

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.
- 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.
- 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

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)
```

Reminder Definition Management

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
RĂ	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	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.
PNE	Definition Print Name Edit	PXRM DEF PRINT NAME EDIT	This option allows editing of the Print Name for national reminder definitions. Sites were often copying national definitions to local definitions just to edit the Print Name, with this option that is no longer necessary.

Syn.	Name	Option Name	Description
PNR	Definition Print Name Report	PXRM DEF PRINT NAME REPORT	This option runs a report than finds all reminder definitions whose Print Name was edited via the option PXRM DEF PRINT NAME EDIT.

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

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:

• 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.

🕾 Reminder Resolution: High Risk MH No-Show Follow-up			
This patient has an active High Risk for Suicide Patient Record Flag and was a NO SHOW to a MH appointment. If the patient has a completed encounter to a MH appointment on the same day, or within 72 hours of the missed MH appointment, then this clinical reminder is resolved.			
MH Appointments Missed Last 10 Days			
DATE/TIME CLINIC STATUS			
04/09/2012 12:00 pmMental Health NO-SHOW			
Action needed: Please document follow-up outcome using fields below.			
Click here to see supporting information. Refer to the Safety Plan for additional information.			
Patient sought urgent or emergent mental health care.			
C Other Outcome			
Three unsuccessful attempts made to contact patient.			
Suicide attempted or completed. Please document Safety Plan and/or Suicide Behavior Report where appropriate.			
L Clear Clinical Maint Visit Info < Back Next⇒ Finish Cancel			
<no encounter="" entered="" information=""></no>			
* Indicates a Required Field			

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 01/31/2012011:08:45 value - NEW ASSIGNMENT; Flag - HIGH RISK FOR SUICIDE(I (NATIONAL)). Assigned Jan 31, 2012@11:08:45 by CRPROVIDER, SIX. 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 CRPROVIDER, TWO. New record flag assignment.

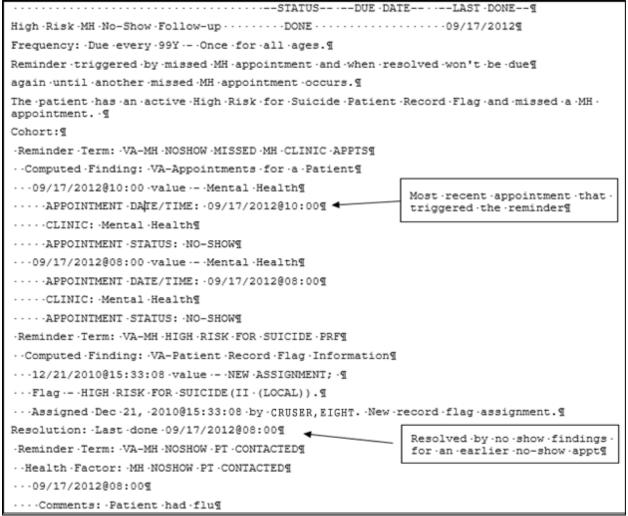
- 4. Change to VA-MH HIGH RISK NO-SHOW FOLLOW-UP reminder definition:
 - Removed Occurrence Count of 5 from RT.VA-MH NOSHOW MISSED MH CLINIC APPTS Hospital Location and only defined occurrence at the Reminder Definition level. It still looks back 10D and resolves with specific health factors entered 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:

🔁 Location for Current Activities	
Select the appointment or visit that should be associated with the note or orders .	OK
Encounter Location Mental Health Sep 17,12 08:00	Cancel
Clinic Appointments Hospital Admissions New Visi	Date Range
Clinic Appointments / Visits (T-24 thru T+1)	
Mental Health Sep 17,2012 10 Mental Health Sep 17,2012 08	

Example: Clinical Maintenance output after selecting 8am appointment



- 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)

То

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
С	CPRS
L	Reminder Patient List
0	Reminder Order Checks
Р	Patient
R	Reminder Reports
Х	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	
coue	USaye	
С	CPRS	
L	Reminder Patient List	
0	Reminder Order Checks	
P	Patient	
R	Reminder Reports	
Х	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 257.

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.

Inquire About Reminder Item

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

S <u>ELECT</u> R <u>EMINDER</u> D <u>EFINITION</u> M <u>ANAGEMENT</u> O <u>PTION</u> : RI I <u>NQUIRE ABOUT</u> R <u>EMINDER</u> D <u>EFINITION</u> S <u>ELECT</u> REMINDER DEFINITION: VA-MH HIGH RISK NO-SHOW FOLLOW-UP NATIONAL DEVICE: ;;999 HOME
REMINDER DEFINITION INQUIRY J <u>UL</u> 20, 2012 10:02:07 <u>AM</u> P <u>AGE</u> 1
VA-MH HIGH RISK NO-SHOW FOLLOW-UP NO. 406
P <u>RINT</u> N <u>AME</u> : H <u>IGH</u> R <u>ISK</u> MH N <u>O</u> -S <u>HOW</u> F <u>OLLOW</u> - <u>UP</u>
CLASS: NATIONAL
SPONSOR: OFFICE OF MENTAL HEALTH SERVICES
R <u>EVIEW</u> D <u>ATE</u> :
R <u>ESCISSION</u> D <u>ATE</u> :
U <u>SAGE</u> : CPRS, DATA EXTRACT, REPORTS
R <u>ELATED</u> VA-* R <u>EMINDER</u> :
REMINDER DIALOG: VA-MH HIGH RISK NO SHOW FOLLOW-UP
P <u>RIORITY</u> :
D <u>ESCRIPTION</u> : T <u>HIS REMINDER SHALL DETERMINE WHETHER MENTAL</u> H <u>EALTH</u> (MH) <u>PROFESSIONALS HAVE</u> <u>FOLLOWED UP ON A NO-SHOW MH APPOINTMENT FOR A PATIENT WITH AN ACTIVE HIGH</u> R <u>ISK FOR</u> S <u>UICIDE</u> P <u>ATIENT</u> R <u>ECORD</u> FLAG.
T <u>HE REMINDER REQUIRES CLINICIANS TO INITIATE FOLLOW-UP WITH THE PATIENT TO</u> INSURE HIS/HER SAFETY AND TO TRY TO GET THE PATIENT BACK INTO CARE. THE FOLLOW-UP RESULTS ARE DOCUMENTED WITH HEALTH FACTORS.
S <u>TUDIES SHOW THAT INDIVIDUALS THAT GET LOST TO FOLLOW-UP HAVE A HIGHER RATE OF ACTUAL SUICIDE THAN THOSE THAT STAY CONNECTED WITH CARE.</u>
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: D<u>O</u> IN ADVANCE TIME FRAME: DO IF DUE WITHIN 99Y - ONCE SEX SPECIFIC: I<u>GNORE</u> ON N/A: FREQUENCY FOR AGE RANGE: 99Y - ONCE FOR ALL AGES 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)) -------F<u>INDING</u> T<u>YPE</u>: 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,NSR¹LL: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 U<u>SE IN</u> 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 ------ - - -

---- B<u>EGIN</u>: VA-MH NOSHOW PT EMERGENT CARE (FI(4)=RT(818)) -----F<u>INDING</u> T<u>YPE</u>: REMINDER TERM U<u>SE IN</u> R<u>ESOLUTION</u> L<u>OGIC</u>: 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 ------- - - -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 ------ - - -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 ---- E<u>ND</u>: 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)------F<u>UNCTION</u> S<u>TRING</u>: 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: PATIENT HAS NO MISSED MH APPOINTMENT PENDING FOLLOW-UP. THIS 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)

W<u>EB</u> S<u>ITES</u>: S<u>ELECT</u> 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 or VISN 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:
                   All reminder details
         А
         G
                   General
                  Baseline Frequency
         В
                  Findings
         F
                 Function Findings
         FF
                  Logic
         L
         С
                  Custom date due
         D
                  Reminder Dialog
         Tv1
                  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: DIABETIC EYE EXAM ΕX ТΧ 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: All reminder details А

G	General
В	Baseline Frequency
F	Findings
FF	Function Findings
L	Logic
С	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:
          А
                   All reminder details
          G
                   General
                  Baseline Frequency
          В
          F
                  Findings
         FF
                  Function Findings
          L
                  Logic
          С
                  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: All reminder details А G General Baseline Frequency В F Findings FF Function Findings L Logic С 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:
                  All reminder details
         А
                  General
         G
         В
                 Baseline Frequency
         F
                 Findings
         FF
                 Function Findings
                  Logic
         L
         С
                  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

The Integrity Check Selected and Integrity Check All options can check the integrity of selected or all reminder definitions. The system will also perform an ntegrity check 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.
```

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		

Name	Description			
	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 freetext 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 <u>72</u> .			
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 <u>89</u> .			
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.			

Name	Description			
GENERAL PATIENT	This optional text is displayed in the Clinical Maintenance component			
COHORT FOUND TEXT	when the patient is in the cohort and the reminder is applicable.			
GENERAL PATIENT	his optional text will be displayed in the Clinical Maintenance			
COHORT NOT FOUND TEXT	component when the patient is not in the cohort and the reminder is not			
	applicable.			
CUSTOMIZED RESOLUTION	This field may be used to define a customized Boolean logic string that			
LOGIC	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	This optional text will be displayed in the Clinical Maintenance			
FOUND TEXT	component if the reminder has been resolved.			
GENERAL RESOLUTION	This optional text will be displayed in the Clinical Maintenance			
NOT FOUND TEXT	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.			
CONTRAINDICATED LOGIC	This field is used only for immunization reminders. It is a Boolean logic			
	string, when it evaluates to TRUE, the evaluation status of the reminder			
	is CONTRA.			
CONTRAINDICATED TRUE	This optional text will be displayed in the Clinical Maintenance			
TEXT	component when the CONTRAINDICATED LOGIC is true.			
CONTRAINDICATED FALSE	This optional text will be displayed in the Clinical Maintenance			
TEXT	component when the CONTRAINDICATED LOGIC is false.			
REFUSED LOGIC	This field is used only for immunization reminders. It is a Boolean logic			
	string, when it evaluates to TRUE, the evaluation status of the reminder			
	is REFUSED, as long as the CONTRAINDICATED LOGIC is false.			
REFUSED TRUE TEXT	This optional text will be displayed in the Clinical Maintenance			
	component when the REFUSED LOGIC is true.			
REFUSED FALSE TEXT	This optional text will be displayed in the Clinical Maintenance			
	component when the REFUSED LOGIC is false.			
LINKED REMINDER DIALOG	5			
	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.			
URL	This is the URL for the web site.			

Name	Description
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 patient data elements in VistA that determine a reminder's status. They are used in the PATIENT COHORT LOGIC, RESOLUTION LOGIC, and Function Findings. 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

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.

Patch PX*1*211 added functionality that allows a measurement to be associated with an Education Topic. Patch PX*1*217 refined this functionality. Appendix C describes how to use this functionality.

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".

Patch PX*1*211 added functionality that allows a measurement to be associated with an Exam. Patch PX*1*217 refined functionaly. Appendix C describes how to use this functionality.

Health Factor – Health factors are found in the HEALTH FACTOR file #99999999.64. 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".

Patch PX*1*211 added functionality that allows a measurement to be associated with a Health Factor Topic. Patch PX*1*217 refined this functionality. Appendix C describes how to use this functionality.

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 <u>75</u>, 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.

Patch PX*1*211 made a change so that the names of category factors have "[C]" appended to the name. This makes it easier to recognize category 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

Patch PXRM*2*65 adds new immunization contraindication, precaution, and refusal functionality. When an immunization is used as a finding in a definition or a term, there is an automatic search of the V IMM CONTRA/REFUSAL EVENTS file for contraindications, precautions, and refusals for that immunization. Any items that are found will be displayed in the Clinical Maintenance output.

PXRM*2*65 added CONTRAINDICATED LOGIC and REFUSED LOGIC fields. Contraindicated findings and refused findings can be used to define these logic fields. When CONTRAINDICATED LOGIC is true, the reminder will have an evaluation status of CONTRA. When REFUSED LOGIC is true and CONTRAINDICATED LOGIC is false, the reminder will have an evaluation status of REFUSED. This functionality is described in detail in Appendix D. Refer to it when you are ready to add CONTRAINDICATED LOGIC and REFUSED LOGIC to a reminder definition.

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		

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 that summarizes or includes the results (SCORE) can be automatically genderated. 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.

For a Mental Health Instrument to create a score, a Result Group would have to be added to the RESULT GROUP/ELEMENT field within the dialog group/element. This Result Group contains one or more Result Elements which can define ranges of scores using a condition statement. These Result Elements are added to the Result Group as sequences. Text that is specific to the score of the instrument can be automatically added to the progress note.

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 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 CPT, HCPCS, ICD0, ICD9, ICD10 and SNOMED CT codes. Clinical Reminders searches in a number of patient data files for code matches.

- For ICD diagnosis codes, it looks in V POV, Problem List, and PTF.
- For CPT codes, it looks in V CPT and Radiology.
- For ICD procedure codes, it looks in PTF.
- For SNOMED CT codes it looks in V Standard Code and Problem List. The PATIENT DATA SOURCE field is used to control where codes are searched for, see below.

There are two dates associated with ICD 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		

KEYWORD	MEANING
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 Reminder Taxonomy Management chapter for more details.

Reminder Term – Reminder Terms are found in file #811.5. Reminder Terms provide a way to define a general concept. For example, a laboratory test, which can be mapped to specific findings. For a laboratory test, the term could be mapped to one or more entries from the Laboratory Test file, and possibly to a health factor used to record an outside result. 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,
- RXTYPE,
- OCCURRENCE COUNT,
- USE START DATE,
- INCLUDE VISIT DATA and
- IMMUNIZATION CRITERIA.

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 Reminder Term Options chapter for more details.

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 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 158, 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
- INCLUDE VISIT DATA (applies only to PCE data)
- IMMUNIZATION SEARCH CRITERIA (applies only to immunization findings)
- 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 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, where today is the reminder evaluation date.

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, 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 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, 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,V SKIN TEST, and
- V STANDARD CODES.

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.

IMMUNIZATION SEARCH CRITERIA – This finding modifier applies only to immunization findings. It is a set of codes that controls how an immunization is searched for in the patient's record. The codes are:

- CVX Search for all immunizations that have the same CVX code as the immunization finding;
- IMM Search only for the immunization finding. This is the default.
- VGN Search for all immunizations that are in the same vaccing group as the immunization finding.

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

Finding Type	Value
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 sim	ple CONDITIONS are shown	in the	following table:

Finding Type	simple CONDITIONS an Results File	Result Fields	Data example	CONDITION
		that can be used in		field example
Drug (50)		CONDITION 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	V=1 V=2 V=3 V=4 V=5
Exam (9999999.15)	V EXAM (9000010.13)	RESULT	A for Abnormal N for Normal	V="A" V="N"
Health Factor (99999999.64)	V HEALTH FACTOR (9000010.23)	LEVEL/SEVE RITY	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	V="P" V="C" V="B" V=1 V=2 V=3 V=4 V=5 V=6 V=7 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)	V="A" V="H" V="I" V="C" V="T" V="N" V="S" V="S" V="E" V="E"

Finding Type	Results File	Result Fields that can be used in CONDITION	Data example	CONDITION field example
			'R' for NURSING HOME 'D' for DAILY HOSPITALIZATION DATA 'X' for ANCILLARY PACKAGE DAILY DATA	V="D" V="X"
Mental health Instrument (601)		RAW SCORE from API based on a scale	3 (CAGE)	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 a CONDITION:

- PXRMAGE patient's age
- PXRMDATE the reminder evaluation date and time, usually the current date and time
- 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
<pre>FIEVAL(2,1,"LEVEL OF UNDERSTANDING")=1</pre>
<pre>FIEVAL(2,1,"VALUE")=1</pre>
FIEVAL(2,1,"VISIT")=3102
<pre>FIEVAL(2, "COMMENTS") =</pre>
<pre>FIEVAL(2, "CSUB", "COMMENTS") =</pre>
<pre>FIEVAL(2,"CSUB","LEVEL OF UNDERSTANDING")=1</pre>
<pre>FIEVAL(2,"CSUB","VALUE")=1</pre>
<pre>FIEVAL(2,"CSUB","VISIT")=3102</pre>
FIEVAL(2, "DAS")=83
FIEVAL(2, "DATE")=2990520.07292
<pre>FIEVAL(2,"FILE NUMBER")=9000010.16</pre>
<pre>FIEVAL(2, "FINDING")=369;AUTTEDT(</pre>
<pre>FIEVAL(2,"LEVEL OF UNDERSTANDING")=1</pre>
<pre>FIEVAL(2, "VALUE") =1</pre>
<pre>FIEVAL(2, "VISIT")=3102</pre>

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 "NO".

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.

Both FOUND TEXT and NOT FOUND TEXT can contain TIU objects and CSUB objects. See the **Found Text/Not Found Text Details** section for more information.

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 are documented in the computed finding description.

Found Text/Not Found Text Details

Normally, all Found/Not Found Text is formatted before it is output. The formatting includes combining short lines to create output that uses the full available width and the use of the double backslash ($\)$ to force a line break. For example, if the Found Text contained this text:

This shows how the\\ formatter combines lines.\\

When it is formatted for the Clinical Maintenance Output, it becomes: This shows how the formatter combines lines.

In some cases, this may not be desirable. (For example, when a TIU Health Summary Object is included in the Found/Not Found Text and you want it displayed exactly like it is in a health summary.) When this is the case, enclose the text that you do not want formatted in a not-format block. The not-format block starts with 'FMT{ and ends with }FMT. You can think of it mnemonically as, "do not format the text that is in the block".

Here are some examples of how to use the not-format block:

- 'FMT {|TIU Health Summary Object|}FMT
- ' FMT {Example of non-formatted found text.} FMT

If the text in a not-format block spans multiple lines in the Found/Not Found Text, then it will have the same number of lines in the Clinical Maintenance Output since it is not formatted. An example of where this could happen is if you are using CSUB Objects and each of them has to be on its own line. If you do not want to output text to be on multiple lines, you can force lines to be joined by starting the line you want appended to the previous line with the underscore character.

In the example below:

'FMT {The lab test \$\$CSUBTEXT(TEST NAME,6) was last done for the patient on: _\$\$CSUBNUM(DATE,D:5Z,6,)}FMT

After \$\$CSUBTEXT(TEST NAME,6) and \$\$CSUBNUM(DATE,D:5Z,6,) are replaced with the test name and date for finding 6, the text will be combined into a single line.

When using TIU and CSUB objects, keep in mind that they cannot be broken across two lines. If they are broken across two lines, they will not be recognized as objects.

CSUB Objects

CSUB Objects have a function similar to TIU Objects. Like TIU Objects, they can be used in reminder definitions in the following areas:

- Age Match Text/Age No Match Text
- Findings Found Text/Not Found Text
- Function Findings Found Text/Not Found Text
- Patient Cohort Logic:
 - General Cohort Found Text/Not Found Text
 - Summary Cohort Found Text/Not Found Text
- Resolution Logic:
 - General Resolution Found Text/Not Found Text
 - Summary Resolution Found Text/Not Found Text
- Contraindicated Logic:
 - Contraindicated True Text
 - o Contraindicated False Text
- Refused Logic:
 - o Refused True Text
 - Refused False Text

In the Clinical Maintenance Output, the CSUB Object will be replaced by the text created when the CSUB Object is evaluated.

CSUB Objects and TIU Objects can be used together, but you should always test the output to make sure there are no anomalies. For both CSUB Objects and TIU Objects, the entire object must be on one line. If there is text to be followed by an object and there is not enough room for the entire object on the line, place the object on the next line. When the output text is formatted, the object text will be in the right place.

Originally, CSUB Objects were only going to work for the data elements with the CSUB label you see in the FIEVAL array when doing a reminder test (hence the name), but it was found that they could work for any data in the FIEVAL array. If you want to know what data is available to use with CSUB Objects, run the reminder test for the definition you are working on and examine what is in the FIEVAL array.

There are four types of CSUB data:

• Finding dates

- Internal values
- Numbers
- Text

Accordingly, there are four CSUB Object functions:

- \$\$CSUBDATE
- \$\$CSUBINTE
- \$\$CSUBNUM
- \$\$CSUBTEXT

The optional CELLFORMAT argument can be used with all the CSUB Object functions. This argument gives these objects a behavior similar to a cell in a spreadsheet.

CELLFORMAT is a letter followed by a number, followed by a colon, followed by a pad character, which is a character used to fill empty space. The letter can be:

- L-left justify
- R-right justify
- C-Center justify

The number is the number of characters in the cell. If the object text has fewer characters than the number, it is filled with the pad character. If the object text has more characters than the number, it is truncated. In most cases, the pad character will be a space. If it is not defined, it defaults to space. Examples of CELLFORMAT are listed below:

- 'L15: ' A left justified cell, 15 characters wide, the pad character is space
- **'R22:+'** A right justified cell, 22 characters wide, the pad character is plus
- 'C7: ' A center justified cell, 7 characters wide, the pad character is space

If the letter is not L, R, or C, cell formatting is not done.

See <u>Example 1</u> at the end of the **Building Tables** section for how the choice of the pad character affects the output.

This cell formatting capability provides the ability to create data tables using CSUB Objects. See <u>Example 1</u> and <u>Example 2</u> at the end of the **Building Tables** section.

A detailed description of each of the CSUB Object functions is listed below. In the descriptions, optional arguments are enclosed in square brackets, i.e., [optional argument].

\$\$CSUBDATE is used for lists of finding dates. The arguments are:

• \$\$CSUBDATE(Function(Finding List),Format,[Text]) where Function can be MRD (most recent date) or MIN_DATE (oldest date).

Finding List is a list of finding numbers. There must be at least one finding number in the list. Format is Date Format[:Cell Format].

Date Format controls how the date is written. The Kernel API: FMTE^XLFDT, which is documented in the Kernel Developer's Guide, is used to format the date. The allowed values are:

• If null, return the written-out format

- If +Format = 1, then return standard VA FileMan format
- If +Format = 2, then return MM/DD/YY@HH:MM:SS format
- If +Format = 3, then return DD/MM/YY@HH:MM:SS format
- If +Format = 4, then return YY/MM/DD@HH:MM:SS format
- If +Format = 5, then return MM/DD/YYYY@HH:MM:SS format
- If +Format = 6, then return DD/MM/YYY/@HH:MM:SS format
- If +Format = 7, then return YYYY/MM/DD@HH:MM:SS format
- If Format contains a "D", then date only
- If Format contains an "F", then output date with leading spaces
- If Format contains an "M", then only output "HH:MM"
- If Format contains a "P", then output "HH:MM:SS am/pm"
- If Format contains an "S", then force seconds in the output
- If Format contains a "Z", then output date with leading zeroes

Text is optional. It will be returned if none of the findings in the finding list is true. Examples are shown below:

\$\$CSUBDATE(MRD(1,3,5),1D) - The most recent date from findings 1, 3, and 5 in standard VA FileMan format with the date only, no time, and no cell formatting.

\$\$CSUBDATE(MRD(1,3,5),1D,No dates were found) - The most recent date from findings 1, 3, and 5 in standard VA FileMan format with the date only, no time. If findings 1, 3, and 5 are all false, then the text "No dates were found" is returned.

\$\$CSUBDATE(MIN_DATE(4),2Z:L20:) - The date of finding 4 in the format MM/DD/YY@HH:MM:SS with leading zeroes, in a left justified cell 20 characters wide, the Pad Character is space.

\$\$CSUBINTE is used to convert data from internal format to external format. This includes sets of codes and pointers. The arguments are:

\$\$CSUBINTE(Subscript,[Cell Format],File Number,Field Number,Finding Number,[Occurrence], [Separator],[Piece],[Text]) where

- Subscript is the data element subscript.
- [Cell Format] is described in the middle of the <u>CSUB Objects section</u>.
- File Number is the file number where the data element is stored.
- Field Number is the field in the file where the data element is stored.
- Finding Number is the finding number.
- [Occurrence] is the occurrence, used only if the value for an occurrence is desired. The Occurrence Count in the reminder definition should be set equal to or greater than the number of occurrences you are planning to display.
- [Separator] Some data elements have multiple pieces of data and this is the character that separates them.
- [Piece] works in conjunction with Separator. If there are multiple pieces of data, this specifies which one you want. If Piece is not specified, it defaults to 1. If Separator is not passed, Piece is ignored.
- [Text] If the data element does not exist, then Text will be returned.

Examples are listed below:

For a health factor finding, where: FIEVAL(3,"CSUB","LEVEL/SEVERITY")="H" The corresponding CSUB Object is: \$\$CSUBINTE(LEVEL/SEVERITY,,9000010.23,.04,3) 9000010.23 is the file number for V Health Factors, .04 is the field number for Level/Severity and the finding number is 3.

The same as above, only now we want the second occurrence of finding number 3. FIEVAL(3,2,"CSUB","LEVEL/SEVERITY")="MO"

The corresponding CSUB Object is: \$\$CSUBINTE(LEVEL/SEVERITY,,9000010.23,.04,3,2)

For PCE findings, if INCLUDE VISIT DATA is YES, then data from the Visit file entry will be included. One of them is SERVICE CATEGORY. which is a set of codes. An example is: FIEVAL(4,1,"CSUB","SERVICE CATEGORY")="X"

The corresponding CSUB Object is: \$\$CSUBINTE(SERVICE CATEGORY,,9000010,.07,4,1) Where 9000010 is the file number for the Visit file and .07 is the field number for Service Category.

The example below shows how to convert a pointer to its external value. A taxonomy finding can find results in V CPT, V POV, V STANDARD CODES and PROBLEM files. In the example below, we know the result came from PROBLEM, file number 9000011. Provider Narrative is field number .05 in the PROBLEM file.

FIEVAL(22,1,"CSUB","PROVIDER NARRATIVE")=1166 FIEVAL(22,1,"FILE NUMBER")=9000011 The corresponding CSUB Object is: \$\$CSUBINTE(PROVIDER NARRATIVE,L40: ,9000011,.05,22,1)

\$\$CSUBNUM is used when the data element is a number. The arguments are:

- \$\$CSUBNUM(Subscript,Format,Finding Number,[OCCURRRENCE],[Separator],[Piece],[Text]) where
 - Subscript is the data element subscript.
 - Format can be one of two forms, depending on whether the number to be formatted is a date or a number.
 - For dates D:date format: [Cell Format], where date format can be any of the formats used with CSUBDATE. **Note:** This gives you the ability to use dates other than the main finding date, which is used by CSUBDATE.
 - For numbers N:[FC]:[DEC]:[Cell Format], where FC is a format code used by the MUMPS \$FNUMBER function as listed in the <u>next bullet</u>. DEC is the number of digits after the decimal point. If the number has more digits than specified by this argument, the output is rounded. If the number has fewer digits, the output is zero filled.
 - The format code (FC) can be a combination of the following except as noted:
 - \circ + Forces a "+" for positive values.
 - - Suppresses the "-" for negative values.
 - , Inserts commas every third position to the left of the decimal within the number.
 - T Represents the number with a trailing, rather than a leading sign; positive numbers have a trailing space unless the expression includes a plus sign (+).

- P Represents negative values in parentheses, positive values with a space on either side; combining with any other code except comma (,) causes a run-time error.
- Finding Number is the finding number.
- [Occurrence] is the occurrence, used only if the value for a selected occurrence is desired. The Occurrence Count in the reminder definition should be set equal to or greater than the number of occurrences you are planning to display.
- [Separator] Some data elements have multiple pieces of data and this is the character that separates them.
- [Piece] Works in conjunction with Separator. If there are multiple pieces of data, this specifies which one you want. If Piece is not specified, it defaults to 1. If Separator is not passed, Piece is ignored.
- [Text] If the data element does not exist, then Text will be returned.

Examples are shown below:

The finding is a vital measurement of temperature. For example: FIEVAL(4,"CSUB","RATE")=102.3

The corresponding CSUB Object is:

\$\$CSUBNUM(RATE,N::1,4,,,,No temperature measurement was found) N in the format specifies it is a number, no format code is passed, and one digit after the decimal will be displayed. If no temperature measurement is found, then the text "No temperature measurement was found." will be displayed.

For a date other than the main finding date, an example is: FIEVAL(5,3,"CSUB","DATE")=3170630.094942

The corresponding CSUB Object is:

\$\$CSUBNUM(DATE,D:5Z,5,3,,A third occurrence of the date was not found.) D in the format says this is a date and 5Z says display the date as MM/DD/YYY@HH:MM:SS, with leading zeroes. The finding number is 5 and we are going to show the date for the third occurrence. If the third occurrence does not exist, then the text "A third occurrence of the date was not found." will be displayed.

\$\$CSUBTEXT is used when the data element is text. The arguments are:

\$\$CSUBTEXT(Subscript,[Cell Format],Finding Number,[OCCURRRENCE],[Separator],[Piece],[Text]) where

- Subscript is the data element subscript.
- [Cell Format] is described in the middle of the <u>CSUB Objects section</u>.
- Finding Number is the finding number.
- [Occurrence] is the occurrence, used only if the value for an occurrence is desired. The Occurrence Count in the reminder definition should be set equal to or greater than the number of occurrences you are planning to display.
- [Separator] Some data elements have multiple pieces of data and this is the character that separates them.
- [Piece] works in conjunction with Separator. If there are multiple pieces of data, this specifies which one you want. If Piece is not specified, it defaults to 1. If Separator is not passed, Piece is ignored.

• [Text] If the data element does not exist, then Text will be returned.

Examples are shown below:

The finding is a lab test. An example is: FIEVAL(1,1,"CSUB","TEST NAME")=17-HYDROXYCORTICOSTEROIDS The corresponding CSUB Object is: \$\$CSUBTEXT(TEST NAME,,1)

Another example is: FIEVAL(3,3,"CSUB","TEST NAME")=ANTI-THYROID ANTIBODIES GROUP The corresponding CSUB Object is: \$\$CSUBTEXT(TEST NAME,,3,3) It displays the test name for the third occurrence of finding number 3.

Text Argument

All the CSUB Objects have an optional Text argument that will be returned as the object text if the data element specified by the Subscript argument and optional Occurrence, Separator, and Piece arguments does not exist. The finding may be true but the specified data element you want to display may not have a value. For example, if you want to display the last three blood pressures, but only two were found, the Text for the third occurrence could be something like "A third blood pressure was not found".

In Finding Found Text, if the data element will not exist unless the finding is true, there is no point in including the Text argument because the Found Text cannot be displayed when the finding is false. That is not necessarily the case for Function Finding Found Text. The function finding can be true while a finding used in the function finding is false. The Text argument could be used to display information that is relevant to the finding being false, such as "No test results were found."

Building Tables

As mentioned earlier, the optional CELLFORMAT argument facilitates building tables. When building a table, you need to determine how wide each column should be. The total width of the table should not exceed 80 characters.

If the occurrence of a CSUB Object does not exist and there is no default text, then it will be set to the number of pad characters in CELLFORMAT. For example, if the CELLFORMAT is "L15:", then the CSUB Object will be set to 15 spaces. If every CSUB Object in the row ends up being spaces, then you could end up with an unwanted blank line. Enclosing a table, or portions of it, in a Suppress Blank Line (SBL) block will suppress the display of blank lines. An SBL block starts with SBL{ and ends with }SBL. Just like when found/not found text is formatted, lines in an SBL block are concatenated until a "\\" is encountered. The "\\" marks the end of a line.

Note: The line numbers in the examples were added to facilitate the discussion and do not exist in the Found Text.

Example 1

- 1.1 Pulse Oximetry
- 1.2 Date Value Entered By Hospital Loc Type
- 1.3 \$\$CSUBNUM(DATE,D:2M:L14:#,1,1)
- 1.4 \$\$CSUBTEXT(RATE,R7:#,1,1)
- 1.5 \$\$CSUBTEXT(ENTERED BY,L19:#,1,1)
- 1.6 \$\$CSUBTEXT(HOSPITAL LOCATION,L18:#,1,1)

- 1.7 \$\$CSUBINTE(LOCATION TYPE,L6:#,44,2,1,1)\\ 1.8 SBL{\$\$CSUBNUM(DATE,D:2M:L14:#,1,2) 1.9 \$\$CSUBTEXT(RATE,R7:#,1,2) 1.10 \$\$CSUBTEXT(ENTERED BY,L19:#,1,2) 1.11 \$\$CSUBTEXT(HOSPITAL LOCATION,L18:#,1,2) 1.12 \$\$CSUBINTE(LOCATION TYPE,L6:#,44,2,1,2)\\ 1.13 \$\$CSUBNUM(DATE,D:2M:L14:#,1,3) 1.14 \$\$CSUBTEXT(RATE,R7:#,1,3) 1.15 \$\$CSUBTEXT(ENTERED BY,L19:#,1,3) 1.16 \$\$CSUBTEXT(HOSPITAL LOCATION,L18:#,1,3) 1.17 \$\$CSUBINTE(LOCATION TYPE,L6:#,44,2,1,3)\\ 1.18 \$\$CSUBNUM(DATE,D:2M:L14:#,1,4) 1.19 \$\$CSUBTEXT(RATE,R7:#,1,4) 1.20 \$\$CSUBTEXT(ENTERED BY,L19:#,1,4) 1.21 \$\$CSUBTEXT(HOSPITAL LOCATION,L18:#,1,4) 1.22 \$\$CSUBINTE(LOCATION TYPE,L6:#,44,2,1,4)\\}SBL
 - Line 1.1 is the overall header for the table.
 - Line 1.2 consists of the column headers.
 - Line 1.3 is the date of the pulse oximetry finding.
 - Line 1.4 is the measured value. This field is named RATE in the Vitals package.
 - Line 1.5 is the person who entered the measurement.
 - Line 1.6 is the hospital location where the measurement was taken.
 - Line 1.7 is the hospital location type.
 - Lines 1.3-1.7 are combined to make the first row of the table. The \\ at the end of 1.7 marks the end of the first row, which is for the first occurrence of the finding. If the finding is true, the first occurrence will always exist. Since this is Found Text. it will not be displayed unless the finding is true. Lines 1.8-1.12 make the next row of the table. It is a repeat of the data elements in row 1, but for occurrence two.
 - Lines 1.13-1.17 are the next row for occurrence three.
 - Lines 1.18-1.22 are the next row for occurrence four.

Because the table can display data for up to four occurrences, the Occurrence Count for the finding needs to be at least four. Even though four occurrences have been requested, the patient may not have all four of them. Enclosing the code that creates rows 2 through 4 of the table in an Suppressed Blank Lines (SBL) block will prevent blank lines being added to the table. The SBL block starts on line 1.8 and ends on line 1.22.

This example uses "#" as the pad character to provide a visual representation of how padding works. In most cases, you would not want to see pad characters in a table and your pad character would be a space.

Example 2

- 2.1 \$\$CSUBNUM(DATE,D:2M:L14: ,1,1) \$\$CSUBTEXT(RATE,R7: ,1,1)
- 2.2 \$\$CSUBTEXT(ENTERED BY,L19: ,1,1) \$\$CSUBTEXT(HOSPITAL LOCATION,L18: ,1,1)
- 2.3 \$\$CSUBINTE(LOCATION TYPE,L6: ,44,2,1,1)\\
- 2.4 SBL {\$\$CSUBNUM(DATE,D:2M:L14: ,1,2) \$\$CSUBTEXT(RATE,R7: ,1,2)
- 2.5 \$\$CSUBTEXT(ENTERED BY,L19: ,1,2) \$\$CSUBTEXT(HOSPITAL LOCATION,L18: ,1,2)
- 2.6 \$\$CSUBINTE(LOCATION TYPE,L6: ,44,2,1,2)\\

2.7 \$\$CSUBNUM(DATE,D:2M:L14: ,1,3) \$\$CSUBTEXT(RATE,R7: ,1,3)
2.8 \$\$CSUBTEXT(ENTERED BY,L19: ,1,3) \$\$CSUBTEXT(HOSPITAL LOCATION,L18: ,1,3)
2.9 \$\$CSUBINTE(LOCATION TYPE,L6: ,44,2,1,3)\\
2.10 \$\$CSUBNUM(DATE,D:2M:L14: ,1,4) \$\$CSUBTEXT(RATE,R7: ,1,4)
2.11 \$\$CSUBTEXT(ENTERED BY,L19: ,1,4) \$\$CSUBTEXT(HOSPITAL LOCATION,L18: ,1,4)
2.12 \$\$CSUBINTE(LOCATION TYPE,L6: ,44,2,1,4)\\}SBL

Example 2 is a repeat of data rows 1-4 in Example 1, with two differences: the pad character is a space and some of the lines in Example 1 have been combined into a single line, so the number of lines for data rows 1-4 has gone from 20 to 12. Some lines contain two CSUB Objects, but no CSUB Object spans two lines.

A CSUB Object will not be recognized if it is broken across two lines. Each CSUB Object in a row must be separated by a space, even if there is only one object per line. In Example 1, you cannot see the space, but it is there. In Example 2, where there are two objects on a line, you can see the space.

The following shows what these two examples look like in the Clinical Maintenance output for a patient who has three pulse oximetry occurrences:

```
Pulse Oximetry
              Value Entered By
                                     Hospital Loc
Date
                                                      Type
6/21/13@12:00# #####98 LLLLLLLL,FFFFFF### 3 NORTH SURG###### WARD##
5/29/13011:52# Refused LLLLL, FFF MMMMMMMMM 3 NORTH SURG###### WARD##
                                                                Example 1
5/29/13011:18# ######99 LLLLL, FFF MMMMMMMMM 3 NORTH SURG###### WARD##
*****
            98 LILLILLI, MMMMMM
6/21/13012:00
                                    3 NORTH SURG
                                                      WARD
5/29/13011:52 Refused LLLLL, FFF MMMMMMMMM 3 NORTH SURG
                                                      WARD
                                                               Example 2
5/29/13011:18
                 99 LLLLL, FFF MMMMMMMMM 3 NORTH SURG
                                                      WARD
```

In Example 1, the pad character is "#", so you can see it. In Example 2, it is space, so it is not visible but it still affects the column widths. The CELLFORMATs for the columns are described below:

- Date The CELLFORMAT is L14, but the date format of 2M produces 13 characters, so one pad character has been appended.
- Value The CELLFORMAT is R7. When the value is two digits, 5 pad characters are prepended. "Refused" is exactly 7 characters, so no pad characters are needed.
- Entered By The CELLFORMAT is L19. In rows 2 and 3 the last, first and middle name is longer than 19 characters, it is truncated, and no padding is needed.
- Hospital Loc The CELLFORMAT is L18 and 6 pad characters are required.
- Type The CELLFORMAT is L6 and 2 pad characters are required.

As noted earlier, this patient has three occurrences so there is no data to display in row 4. Consequently, in row 4 of Example 1, all the columns are filled with the pad character. Since the pad character is "#", the row is not blank, and it is displayed even though it is in SBL block. In Example 2, the pad character is space, row 4 is blank and because it is in an SBL block, it is not displayed.

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 65 changes to Function Findings

The following function finding functions have been enhanced so they can use the data in the FIEVAL("CONTRA") and FIEVAL("REFUSED") nodes. This provides the mechanism to use C/Rs in the CONTRAINDICATED LOGIC and REFUSED LOGIC.

COUNT DIFF_DATE DTIME_DIFF DUR FI MAX_DATE MIN_DATE MRD VALUE

See Appendix D for details.

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:

 PTSD SCREENING COMPLETED SINCE SERVICE DISCHARGE
 DEPRESSION SCREENING COMPLETED SINCE SERVICE DISCHARGE
 ALCOHOL SCREENING COMPLETED SINCE SERVICE DISCHARGE
 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 GI SYMPTOMS DONE OR NOT REQUIRED.

4B. S<u>CREEN FOR FEVERS DONE OR NOT REQUIRED</u>. S<u>CREEN FOR UNEXPLAINED FEVERS THAT MIGHT REPRESENT OCCULT MALARIA OR</u> INFECTION WITH LEISHMANIASIS.

4C. S<u>CREEN FOR SKIN RASH DONE OR NOT REQUIRED</u>. S<u>CREEN FOR PERSISTENT RASH THAT MIGHT REPRESENT INFECTION WITH LEISHMANIASIS</u>.

This is how it looks with the function finding values displayed:

AMOEBIASIS OR OTHER GI INFECTION.

RESOLUTION: FF(16) = 0FF(2) = 11. PTSD SCREENING COMPLETED SINCE SERVICE DISCHARGE FF(3) = 12. DEPRESSION SCREENING COMPLETED SINCE SERVICE DISCHARGE FF(18) = 0FF(4) = 13. 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) = 0FF(5)=1 4A. SCREEN FOR GI SYMPTOMS DONE OR NOT REQUIRED. FF(5) = 14A. 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) = 14C. 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

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:
                   All reminder details
          А
          G
                   General
                  Baseline Frequency
          B
          F
                  Findinas
          FF
                  Function Findings
          L
                  Logic
          С
                  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:
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, Resolution Logic, Contraindicated Logic, and Refused 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 PXRMDATE – The reminder evaluation date and time

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."
- 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.
- (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:

<u>FI(1)</u>	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.

<u>FI(1)</u>	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

<u>FI(1)</u>	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 three occurrences of finding number N. The COUNT function works in conjunction with the Occurrence Count finding modifier 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 returns the true or false value of a finding. It provides a way to logically string regular findings and/or other functions and/or reminder global variable combinations together in a function string. 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 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 time 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. The parameters in the DIFF_DT function that are text must be enclosed 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. Finding 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. Finding 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 finding 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 it 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. Note that if the comment field entry is "A1C: 8.5", the first number in the string is 1, therefore the NUMERIC function will return 1, not 8.5. It is strongly suggested that if you are using this function, 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

Patch PX*1*211 and CPRS v 32B provide a reliable mechanism to store measurements. It does not depend on the user inputting the comment in a certain format. Therefore, Comments should no longer be used to store measurements. See Appendix C to learn how to use this functionality.

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.

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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 finding 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:

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 finding 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:

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, they are:

- 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

Select one of the following: A ADD STATUS D DELETE A STATUS S SAVE AND QUIT 0 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:

Default View (This example is for a Radiology Procedure as the Finding Item)

Statuses already defined for this finding item:

COMPLETE

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.

A ADD STATUS

DELETE A STATUS S SAVE AND QUIT Q QUIT WITHOUT SAVING CHANGES

D

Enter response: S//

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

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.

This option provides the functions for Reminder Sponsor Management.

List Reminder Sponsors

Select Reminder Sponsor Management Option: DEVICE: ANYWHERE Right Margin: 80//		SL	L List Reminder Sponsors					
REMIND	ER SPONSOR LIST			28,2003	10:	39	PAGE	1
Name: Class:	A NEW SPONSOR VISN							
Name: Class:	CRPROVIDER, TWO VISN							
Name: Class:	CRPROVIDER, THREE LOCAL							
Name: Class:	Guidelines committee LOCAL							
Name: Class:	HOSPITAL COMMITTEE LOCAL							
	INFECTIOUS DISEASES PROGRAM OFFICE, NATIONAL	VAHQ						
	CRPROVIDER,FOUR NATIONAL							
Name: Class:	Mental Health Group LOCAL							
	Mental Health and Behavioral Science NATIONAL	Str	ateg	ic Grou	0			
Health	Mental Health and Behavioral Science Program NATIONAL	Str	ateg	ic Grou	p and	Women	Vete	erans
Name: Class:								
	Office of Quality & Performance NATIONAL							

	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 LOCA
HOSPITAL COMMITTEE LOCAL
                             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 Land DEVICE: ANYWHERE Right Margin: 80// 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
СРТ	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 233) 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.

Display Setup		? 🛛
Colors Fonts Screen Options Edit color Screen element: Image: Screen element: Image: Screen element: Normal Image: Screen element: Image: Screen element: Image: Screen element: Blink Image: Screen element: Image: Screen element: Image: Screen element: Image: Screen element: Blink Image: Screen element: Image: Screen element: Image: Screen element: Image: Screen element: Underline Bold Image: Screen element: Image: Screen element: Image: Screen element: Screen element: Image: Screen element: Image: Screen element: Image: Screen element: Screen element: Image: Screen element: Image: Screen element: Image: Screen element: Blink Image: Screen element: Image: Screen element: Image: Screen element: Image: Screen element: Underline Image: Screen element: Image: Screen element: Image: Screen element: Image: Screen element: Screen element: Image: Screen element: Image: Screen element: Image: Screen element: Image: Screen element: Image: Screen element: Image: Screen element: Image: Screen element: <tr< td=""><td>Foreground: Background:</td><td>Enable blink Enable underline Enable bold Inverse video Color cursor</td></tr<>	Foreground: Background:	Enable blink Enable underline Enable bold Inverse video Color cursor
Defaults	ОК	Cancel Help

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.

Display Setup	? 🛽
Colors Fonts Screen Options	
Dimensions Rows: 24 0 132 Auto Resize Screen • Display memory • Memory blocks: 9 • Memory blocks: 9 • Rows: 9 • Memory blocks: 9 • Image: Scrollback • •	Cursor Shape: ♥ Blinks Block ♥ Visible Control characters ♥ Display Interpret ● Display Scrolling Jump scroll speed: ● Jump Jump scroll speed: ● Smooth 2
	OK Cancel Help
Advanced Options	
Save from scrolling regions	OK Cancel Help

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.

Erromalar	Tarran	Managamant main samaan
Example:	I axonomy	Management main screen

	Taxonomy	Description
	07 ASTHMA CODES	
	07 ASTHMA CPT/ICD 9 CODES	Combination of ICD9 and CPT codes
	07 ASTHMA EL	This taxonomy was automatically gener
	07 COPD CODES	COPD CODES
	07 COPY TXM TEST	0500
	07 GERD CODES 07 GERD ICD 10 AND CPT CODES	GERD GERD CPT AND ICD 10 CODES
	07 IMMUNIZATIONS TAXONOMY	GERD CPT AND ICD TO CODES
	07 RENAL CONDITIONS OTHER	RENAL CONDITIONS OTHER THAN CANCER PL
9	THAN CANCER	RENAL CONDITIONS OTHER THAN CANCER FL
	+ Next Screen - Prev Sc	reen 22 More Actions
DD	Add	CS Code Search
_	Edit	IMP Import
OPY	Сору	UIDR UID report
	Inquire	OINO Old Inquire
	Change Log	
	ct Action: Next Screen//	

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	Сору	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 SELECT	ION	N <u>OV</u>	14, 2013@11:16:15 PAGE: 57 OF 57
TERM/CODE: DIA	BETES		
253 ICD-10-CM	CODES WERE	FOUND.	
<u>+NO. CODE</u>	ACTIVE	INACTIVE	<u>E DESCRIPTION</u>
			G <u>ESTATIONAL</u> D <u>IABETES</u>
250 P70.2	10/1/2014		N <u>EONATAL</u> <u>DIABETES</u> <u>MELLITUS</u>
251 Z13.1	10/1/2014		E <u>NCOUNTER</u> FOR SCREENING FOR DIABETES
			M <u>ELLITUS</u>
252 Z83.3	10/1/2014		F <u>AMILY</u> H <u>ISTORY</u> <u>OF</u> D <u>IABETES</u> M <u>ELLITUS</u>
253 Z86.32	10/1/2014		P <u>ERSONAL</u> H <u>ISTORY</u> <u>OF</u> G <u>ESTATIONAL</u> D <u>IABETES</u>
ADD A <u>DD TO TA</u>	XONOMY		UID U <u>SE IN DIALOG</u>
RFT R <u>EMOVE</u> FR	OM TAXONOMY		SAVE S <u>AVE</u>
RFD R <u>EMOVE</u> FR	OM DIALOG		
S <u>ELECT</u> A <u>CTION</u> :	Q <u>UIT</u> // 1-2	50	
>>> R <u>ANGE</u> <u>TOO</u>	<u>LARGE</u> : 1-2	50.	

Reminder Taxonomy Actions

Add

Use this action to add a new taxonomy.

	THAT OTHOEN		
+	+ Next Screen - Prev Scree	en ?? More Actions	
ADD	Add	CS Code Search	
EDIT	Edit	IMP Import	
COPY	Сору	UIDR UID report	
INQ	Inquire	OINO Old Inquire	
CL	Change Log		
Seled	ct 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 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.

NAME: JGTAXONOMY1 DESCRIPTION: PATIENT DATA SOURCE: USE INACTIVE PROBLEMS: INACTIVE FLAG:	PRIORITY LIST:	
<mark>Term/Code</mark> 250		Selected Codes (CODESYS:QTY) None
<mark>CLASS</mark> : LOCAL SPONSOR: REVIEH DATE:		
COMMAND:		Press <pf1>H for help Insert</pf1>

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

NAME	DESCRIPTION	
	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.	
MINIMUM VALUE	MINIMUM VALUE and MAXIMUM VALUE set the inclusive range for the magnitude.	
MAXIMUM VALUE	MINIMUM VALUE and MAXIMUM VALUE set the inclusive range for the magnitude.	
MAXIMUM DECIMALS	The maximum number of decimal digits that can be entered for the magnitude.	
UCUM CODE	This is the unit for the measurement, it is selected from the Universal Code for Units of Measurement (UCUM) file #757.5.	
PROMPT CAPTION	This field stores the prompt that displays in CPRS Reminder Dialogs when the Taxonomy is used as a finding item.	
UCUM DISPLAY	This field specifies how the unit is presented when a measurement is displayed in CPRS, Clinical Reminders, and Health Summary. When the value is C, the UCUM Code is displayed when the value is D, the Description is displayed. When the value is N, no units are displayed.	
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, SNOMED CT)	
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

$\square \cong \square \boxtimes \square \boxtimes \square \boxtimes \square $	
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 Inse</pf1>	rt
307, 30 VT500-7 00:42:19 Num	Hold

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.

Lexi	con Sele	ection	Feb 14	, 2014@09:04:58	Page:	8 of 18
		DIABETES				
80 I	CD-9-CM	codes were for	und, 2 are	selected.		
+No.	Code	Active	Inactive	Description		
				[Juvenile type], U	Jncontrolled	
29	250.20	10/1/1978	10/1/2014	Diabetes with Hype	erosmolarity,	type II or
				unspecified type,	not stated as	;
				Uncontrolled		
30	250.21	10/1/1978	10/1/2014	Diabetes with Hype	erosmolarity,	type i
				[Juvenile type], i	not stated as	Uncontrolled
31	250.22	10/1/1978	10/1/2014	Diabetes with Hype		
				unspecified type,		21
32	250.23	10/1/1978	10/1/2014	Diabetes with Hype		type i
				[Juvenile type], l		
+	+	Next Screen	- Prev Sci	een ?? More Act:	ions	
ADD	Add to	taxonomy		CV Change v:	iew	
RFT	Remove	from taxonomy		SAVE Save		
RFD	Remove	from dialog		EXIT Exit wit	h save	
UID	Use in	dialog				
Sele		on: Next Scree	n//			

At this point, the following actions are available:

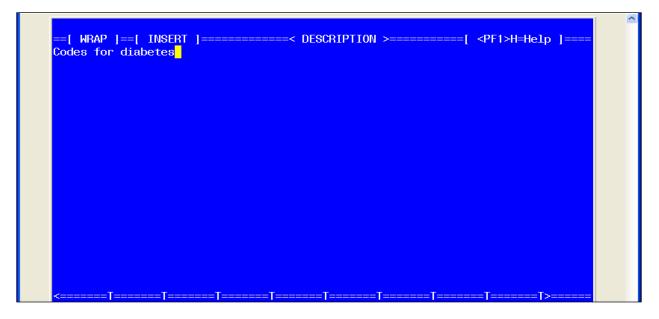
Synonym	Action	Description
ADD	Add to taxonomy	Adds the selected codes to the taxonomy.
RFT	Remove from taxonomy	Removes the selected codes from the taxonomy.
RFD	Remove from dialog	Removes UID from the selected codes.
UID	Use in dialog	Marks the selected codes as Use in Dialog.
SAVE	Save	Saves the results 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.

Сору

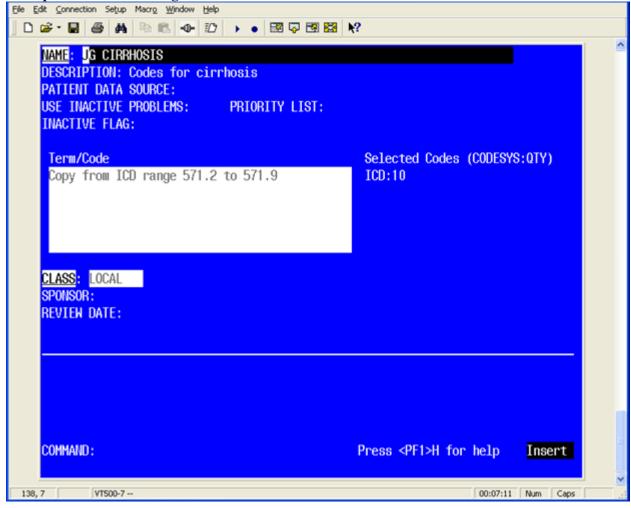
Use this action to copy an existing taxonomy definition into a new entry. Once the taxonomy has been copied, you have the option of editing it.

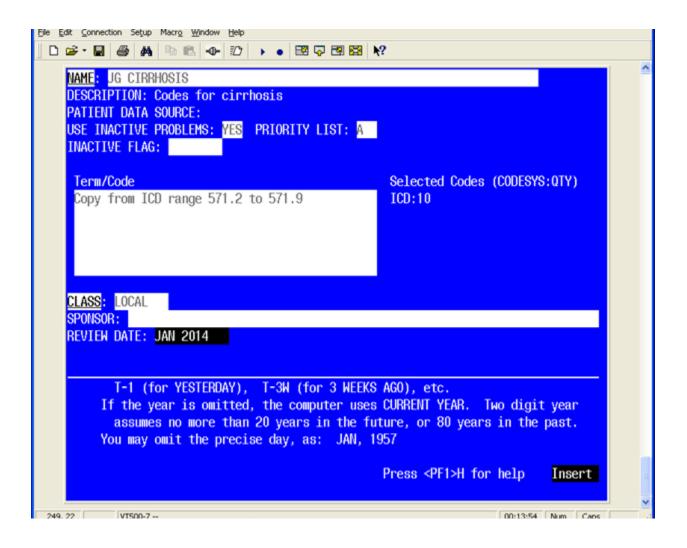
+No. Taxonomy	Description
57 CERVICAL CA/PAP CODES	Cervical cancer screen codes
58 CHRONIC LUNG DISEASE	
59 CHRONIC VIRAL HEPATITIS	
60 CIRRHOSIS	Codes for cirrhosis
61 CLCOLONOSCOPY	
62 COLITIS AND ILEITIS	Codes for ileitis, colitis
63 COLON REMOVAL	CPT CODES FOR REMOVAL OF COLON
64 COLONOSCOPY	Codes for colonoscopy
65 COLORECTAL CANCER	Colorectal cancer codes
66 DEMENTIA	Codes for dementia guideline
+ + Next Screen - Prev	
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// COF	
Select taxonomy to copy: (1-255	
Enter a Unique Name: JG-CIRRHOSI	8

Example: Copying a taxonomy definition screen	Example:	Copying a	taxonomy	definition screen
---	----------	-----------	----------	-------------------

If you choose to edit the taxonomy you've copied, you will enter the standard editing form.

Example: Standard Editing form





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.

	Aug 08, 2013@11:37:25 Page: 1	of 30					
faxonomy 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 gen	ner					
4 07 COPD CODES	COPD CODES						
5 07 COPY TXM TEST							
6 07 GERD CODES	GERD						
7 07 GERD ICD 10 AND CPT COD	DES GERD CPT AND ICD 10 CODES						
8 07 IMMUNIZATIONS TAXONOMY							
	RENAL CONDITIONS OTHER THAN CANCER	PL					
THAN CANCER	Ourseas 22 Mars Actions						
	ev Screen ?? More Actions						
DD Add DIT Edit	CS Code Search						
OPY Copy	IMP Import UIDR UID report						
NQ Inquire	OINQ Old Inquire						
CL Change Log	ong ord induite						
	na Inquire						
Select Action: Next Screen// inq Inquire Display inquiry for which taxonomy?: (1-280): 1							
Condensed or full inquiry? C//							

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></pf1></pf1>	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	Х		Intrinsic asthma, unspecified
493.11	Х		Intrinsic asthma with status asthmaticus
493.12	Х		Intrinsic asthma, with (Acute) Exacerbation
493.20	Х		Chronic Obstructive asthma, unspecified
493.21	Х		Chronic obstructive asthma (with obstructive pulmo
493.22	Х		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	Х		Asthma, unspecified Type, unspecified
493.91	Х		Asthma, unspecified type, with status asthmaticus
493.92	Х		Asthma, unspecified, with (Acute) Exacerbation
Thie tayor	omy includ	loe th	e following numbers of codes:
ICD-9-CM:		เริ่าเม	c rorrowing numbers or codes.
	er of code		
			1>E=Exit Line> 43 of 43 Screen> 2 of 2
	SELENET	.p ∽rr	

Example: Browsing Taxonomy Inquiry – Condensed

Taxonomy Inquiry - Full493.00 $10/01/1978$ $10/01/2014$ Extrinsic asthma, unspecified493.01 $10/01/1978$ $10/01/2014$ Extrinsic asthma with status asthmaticus493.02 $10/01/2000$ $10/01/2014$ Extrinsic asthma, with (Acute) Exacerbation493.10 $10/01/1978$ $10/01/2014$ Intrinsic asthma, unspecified493.11 $10/01/1978$ $10/01/2014$ Intrinsic asthma, with status asthmaticus493.12 $10/01/2000$ $10/01/2014$ Intrinsic asthma, with (Acute) Exacerbation493.20 $10/01/1978$ $10/01/2014$ Intrinsic asthma, with (Acute) exacerbation493.21 $10/01/1978$ $10/01/2014$ Chronic Obstructive asthma, with status asthmaticus493.22 $10/01/1978$ $10/01/2014$ Chronic Obstructive asthma, with (Acute)493.23 $10/01/2000$ $10/01/2014$ Chronic Obstructive asthma, with (Acute)493.24 $10/01/2003$ $10/01/2014$ Chronic Obstructive asthma, with (Acute)493.81 $10/01/2003$ $10/01/2014$ Exercise Induced Bronchospasm (2008)			laxonomy	Inquiry - Full
Llass: L0CAL Sponsor: leview Date: JUN 01, 2014 Description: Reversible airway disease Inactive Flag: "atient Data Source: ALL Jse Inactive Problems: Selected Codes: exicon Search Term/Code: 493 Coding System: ICD-9-CM pode Activation Inactivation UID Description Cols 1 <pfi>H=Help PFI>EExit Line> 22 of 56 Screen> 1 of 3 Invoice: Autor Invoi</pfi>	от летин			
Sponsor: Review Date: JUN 01, 2014 Description: Reversible airway disease Inactive Flag: Patient Data Source: ALL Jse Inactive Problems: Selected Codes: Lexicon Search Term/Code: 493 Coding System: ICD-9-CM Ode Activation Inactivation UID Description Coling System: ICD-9-CM Extrinsic asthma, unspecified 193.00 10/01/1978 10/01/2014 Extrinsic asthma, unspecified 193.10 10/01/1978 10/01/2014 Intrinsic asthma, with (Acute) 193.12 10/01/2000 10/01/2014 Intrinsic asthma, with (Acute) 193.20 10/01/1978 10/01/2014 Chronic Obstructive asthma, 193.21 10/				NO. 10
Sponsor: Review Date: JUN 01, 2014 Description: Reversible airway disease Inactive Flag: Patient Data Source: ALL Jse Inactive Problems: Selected Codes: Lexicon Search Term/Code: 493 Coding System: ICD-9-CM Ode Activation Inactivation UID Description Coling System: ICD-9-CM Extrinsic asthma, unspecified 193.00 10/01/1978 10/01/2014 Extrinsic asthma, unspecified 193.10 10/01/1978 10/01/2014 Intrinsic asthma, with (Acute) 193.20 10/01/1978 10/01/2014 Intrinsic asthma, with (Acute) 193.21 10/01/1978 10/01/2014 Chronic Obstructive asthma, 193.22 10/				
Aeview Date: JUN 01, 2014 Description: Reversible airway disease Inactive Flag: Patient Data Source: ALL Jae Inactive Problems: Selected Codes: Lexicon Search Term/Code: 493 Coding System: ICD-9-CM Dode Activation Inactivation UID Description Sol> 1 <pf1>H=Help <pf1>E=Exit Line> 22 of 56 Screen> 1 of 3 Taxonomy Inquiry - Full Taxonomy Inquiry - Full</pf1></pf1>		DCAL		
Description: Reversible airway disease Inactive Flag: Patient Data Source: ALL Jse Inactive Problems: Selected Codes: Lexicon Search Term/Code: 493 Coding System: ICD-9-CM Code Activation Inactivation UID Description Sol> 1 <pf1>H=Help <pf1>E=Exit Line> 22 of 56 Screen> 1 of 3 Taxonomy Inquiry - Full Taxonomy Inquiry - Full Taxono</pf1></pf1>		te UN 01 20	014	
Reversible airway disease Inactive Flag: Patient Data Source: ALL Jae Inactive Problems: Selected Codes: exicon Search Term/Code: 493 Coding System: ICD-9-CM Ode Activation Inactivation UID Description Sol2 1 <pf1>H=Help <pf1>E=Exit Line> 22 of 56 Screen> 1 of 3 Taxonomy Inquiry - Full Hashed to perform the extrinsic asthma, unspecified 193.00 10/01/1978 10/01/2014 Extrinsic asthma, with status asthmaticus 193.02 10/01/2000 10/01/2014 Extrinsic asthma, with (Acute) 193.02 10/01/1978 10/01/2014 Intrinsic asthma, unspecified 193.10 10/01/1978 10/01/2014 Intrinsic asthma, with (Acute) 193.21 10/01/2000 10/01/2014 Intrinsic asthma, with (Acute) 193.22 10/01/1978 10/01/2014 Intrinsic asthma, with (Acute) 193.22 10/01/1978 10/01/2014 Chronic Obstructive asthma, with (Acute) 193.22 10/01/2000 10/01/2014 Chronic Obstructive asthma, with (Acute) 193.22 10/01/2000 10/01/2014 Chronic Obstructive asthma, with (Acute)</pf1></pf1>				
Inactive Flag: Patient Data Source: ALL Jse Inactive Problems: Selected Codes: Lexicon Search Term/Code: 493 Coding System: ICD-9-CM Orde Activation Inactivation UID Description Col> I <pfi>H=Help <pfi>E=Exit Line> 22 of 56 Screen> 1 of 3 Taxonomy Inquiry - Full 10/01/1978 10/01/2014 Extrinsic asthma, unspecified 193.00 10/01/1978 10/01/2014 Extrinsic asthma with status asthmaticus 193.02 10/01/1978 10/01/2014 Extrinsic asthma, with (Acute) Exacerbation 10/01/1978 10/01/2014 Intrinsic asthma, with status 193.10 10/01/1978 10/01/2014 Intrinsic asthma, with status 193.12 10/01/2000 10/01/2014 Intrinsic asthma, with (Acute) Exacerbation 193.20 10/01/1978 10/01/2014 Intrinsic asthma, with (Acute) Exacerbation 193.21 10/01/1978 10/01/2014 Chronic Obstructive asthma, with 193.21 10/01/1978 10/01/2014 Chronic obstructive asthma, with 193.21 10/01/1978 10/01/2014 Chronic obstructive asthma, with 193.22 10/01/2000 10/01/2014 Chronic obstructive asthma, with 193.22 10/01/2000 10/01/2014 Exercise Induced Bronchospasm 193.81 10/01/2003 10/01/2014 Exercise Induced Bronchospasm 193.90 10/01/1978 Asthma, unspecified type, without wention of status asthmaticus or</pfi></pfi>	Descript	ion:		
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mention of status asthmaticus or	Col> 1 493.00 493.01 493.02 493.10 493.12 493.20 493.21 493.21	<pre><pf1>H=Help < 10/01/1978 10/01/1978 10/01/2000 10/01/1978 10/01/1978 10/01/1978 10/01/1978 10/01/1978 10/01/1978 10/01/1978 10/01/1978</pf1></pre>	Taxonomy 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014	<pre>ne> 22 of 56 Screen> 1 of 3 Inquiry - Full Extrinsic asthma, unspecified Extrinsic asthma with status asthmaticus Extrinsic asthma, with (Acute) Exacerbation Intrinsic asthma, unspecified Intrinsic asthma, unspecified Intrinsic asthma, with status asthmaticus Intrinsic asthma, with (Acute) Exacerbation Chronic Obstructive asthma, unspecified Chronic obstructive asthma (with obstructive pulmonary disease), with status asthmaticus Chronic Obstructive asthma, with (Acute) Exacerbation</pre>
	Col> 1 493.00 493.01 493.02 493.10 493.11 493.12 493.20 493.21 493.21 493.22 493.81 493.81	<pre><pf1>H=Help < 10/01/1978 10/01/1978 10/01/2000 10/01/2000 10/01/1978 10/01/1978 10/01/1978 10/01/1978 10/01/2000 10/01/2000 10/01/2000 10/01/2003 10/01/2003</pf1></pre>	Taxonomy 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014	<pre>ne> 22 of 56 Screen> 1 of 3 Inquiry - Full Extrinsic asthma, unspecified Extrinsic asthma with status asthmaticus Extrinsic asthma, with (Acute) Exacerbation Intrinsic asthma, unspecified Intrinsic asthma, unspecified Intrinsic asthma, with status asthmaticus Intrinsic asthma, with (Acute) Exacerbation Chronic Obstructive asthma, unspecified Chronic obstructive asthma (With obstructive pulmonary disease), with status asthmaticus Chronic Obstructive asthma, with (Acute) Exacerbation Exercise Induced Bronchospasm Cough Variant Asthma</pre>
	Col> 1 493.00 493.01 493.02 493.10 493.11 493.12 493.20	<pre><pf1>H=Help < 10/01/1978 10/01/1978 10/01/2000 10/01/2000 10/01/1978 10/01/1978 10/01/1978 10/01/1978 10/01/2000 10/01/2000 10/01/2000 10/01/2003 10/01/2003</pf1></pre>	Taxonomy 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014 10/01/2014	<pre>ne> 22 of 56 Screen> 1 of 3 Inquiry - Full Extrinsic asthma, unspecified Extrinsic asthma with status asthmaticus Extrinsic asthma, with (Acute) Exacerbation Intrinsic asthma, with (Acute) Exacerbation Intrinsic asthma, with status asthmaticus Intrinsic asthma, with (Acute) Exacerbation Chronic Obstructive asthma, unspecified Chronic obstructive asthma (with obstructive pulmonary disease), with status asthmaticus Chronic Obstructive asthma, with (Acute) Exacerbation Exercise Induced Bronchospasm Cough Variant Asthma Asthma, unspecified type, without</pre>

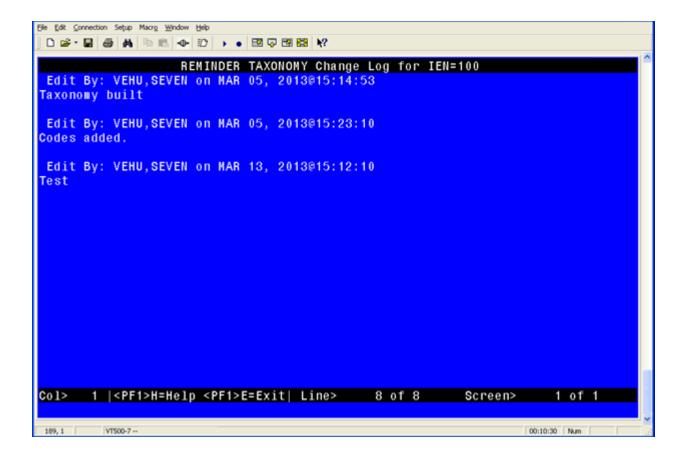
Example: Browsing Taxonomy Inquiry - Full

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//

Taxonomy Management	May 31, 2013@17:51:59 Page: 1 of 27
Taxonomy File Entries.	
No. Taxonomy	Description
1 07 ASTHMA CODES	
2 07 ASTHMA CPT/ICD 9 COL	ES 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 TAXONO	
9 07 RENAL CONDITIONS OTH	ER RENAL CONDITIONS OTHER THAN CANCER PL
THAN CANCER	
	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//	
Display the change log for P	hich taxonomy?: (1-255): 2
Browse or Print? B//	
21, 22 VT500-7	00:05:54 Num Caps

Example: Browsing Taxonomy Change Log



Code Search

This lets you find all taxonomies that contain a selected 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.

Ele Edit Connection Setup Marro Window Help D 26 - 20 45 44 10 113 40- 117 + • 128 57 129 1	8 K?			
Taxonomy Management <u>May 2</u> Taxonomy File Entries.	4, 2013@14:56:32	Page:	1 of	25
No. Taxonomy	Description			
1 07 ASTHMA CODES	Description			
2 07 ASTHMA CPT/ICD 9 CODES	Combination of ICD9	and CPT cod	0.0	
3 07 ASTHNA EL	This taxonomy was a			
4 07 COPD CODES	COPD CODES	ucomacically	gener.	
5 07 COPY TXM TEST	0010 00020			
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 OT	HER THAN CAN	CER PL.	
THAN CANCER				
+ + Next Screen - Prev Sc	reen ?? More Action	s		
ADD Add	CS Code Search			
EDIT Edit	IMP Import			
COPY Copy	UIDR UID report			
INO Inquire	OINO Old Inquire			
CL Change Log				
Select Action: Next Screen// cs				
283, 32 VT500-7		00:11	:50 Num	

Example: Selecting Code Search screen

Example: Code Search Results

Imput a code to search for: 250.03 Searching for ICD-9-CH code 250.03 ID-9-CH 250.03 is used in the following taxonomies: AGP TEST CAMP-DIABETES HEBAIC IHEH RISK FOR FLU/PNEUHONIA HIEH RISK FOR FLU/PNEUHONIA HIE RISK FOR FLU/PNEUHONIA HIE RISK FOR FLU/PNEUHONIA Ya-HIEH RISK FOR PNEUHONIA Ya-HIEH RISK FOR PNEUHODIA Ya-HIEH RISK FOR PNEUHODICCAL D2 Input a code to search for: 386, 29 YIS00-7 355440 Caps	Example: Code Search Results	
Input a code to search for: 250.03 Searching for TCD-9-CH code 250.03 ICD-9-CH 250.03 is used in the following taxonomies: AGP TEST CAMP-DIABETES HEBAIC DIABETES HIGH RISK FOR FLU/PNEUHONIA HIGH RISK FOR FLU/PNEUHONIA HIGH RISK FOR FLU/PNEUHONIA HI DIABETES SBY-CHEY-HI RISK FLU/PNEUHONIA WA OIABETES SBY-CHEY-HI RISK FOR FLU/PNEUHONIA VA-HIGH RISK FOR SEARCH FOR:	🖙 alpha2 - Reflection for UNIX and OpenVMS	
Input a code to search for: 250.03 Searching for ICO-9-CH code 250.03 ICD-9-CH 250.03 is used in the following taxonomies: AGP TEST CAMP-DIADETES HEBAIC DIABETES HIGH RISK FOR FLU/PMEUHONIA HIGH RISK, HIGH LOL ICO9 250.03 JP-DIADETES KC TEST HIKE HI RISK FLU/PMEUHONIA H. DIABETES SBY-CHEY-HI RISK FLU/PMEUHONIA VA-OIABETES SBY-CHEY-HI RISK FOR FLU/PMEUHONIA VA-HIGH	<u>File Edit Connection Setup Macro Window Help</u>	
Searching for ICD-9-CH code 250.03 ICD-9-CH 250.03 is used in the following taxonomies: ABP TEST CAMP-DIABETES HEBAIC DIABETES HIGH RISK FOR FLU/PNEUMONIA HIGH RISK, HIGH LOL ICD9 250.03 JP-DIABETES KC TEST HIKE HI RISK FLU/PNEUMONIA ML DIABETES SBY-CHEY-HI RISK FLU/PNEUMONIA VA-DIABETES SBY-CHEY-HI RISK FOR FLU/PNEUMONIA VA-HIGH RISK FOR FLU/PNEUMONIA VA-HIGH RISK FOR PNEUMOCOCCAL DZ Input a code to search for:	📙 🗅 💣 - 🔚 🍏 🙌 🗈 🛍 🐠 💭 🕨 🖷 🖾 🖓 🕅 🔀 📢 PKRWP	
Searching for ICD-9-CH code 250.03 ICD-9-CH 250.03 is used in the following taxonomies: ABP TEST CAMP-DIABETES HEBAIC DIABETES HIGH RISK FOR FLU/PNEUMONIA HIGH RISK, HIGH LOL ICD9 250.03 JP-DIABETES KC TEST HIKE HI RISK FLU/PNEUMONIA ML DIABETES SBY-CHEY-HI RISK FLU/PNEUMONIA VA-DIABETES SBY-CHEY-HI RISK FOR FLU/PNEUMONIA VA-HIGH RISK FOR FLU/PNEUMONIA VA-HIGH RISK FOR PNEUMOCOCCAL DZ Input a code to search for:		A
Searching for ICD-9-CH code 250.03 ICD-9-CH 250.03 is used in the following taxonomies: ABP TEST CAMP-DIABETES HEBAIC DIABETES HIGH RISK FOR FLU/PNEUMONIA HIGH RISK, HIGH LOL ICD9 250.03 JP-DIABETES KC TEST HIKE HI RISK FLU/PNEUMONIA ML DIABETES SBY-CHEY-HI RISK FLU/PNEUMONIA VA-DIABETES SBY-CHEY-HI RISK FOR FLU/PNEUMONIA VA-HIGH RISK FOR FLU/PNEUMONIA VA-HIGH RISK FOR PNEUMOCOCCAL DZ Input a code to search for:		
Searching for ICD-9-CH code 250.03 ICD-9-CH 250.03 is used in the following taxonomies: ABP TEST CAMP-DIABETES HEBAIC DIABETES HIGH RISK FOR FLU/PNEUMONIA HIGH RISK, HIGH LOL ICD9 250.03 JP-DIABETES KC TEST HIKE HI RISK FLU/PNEUMONIA ML DIABETES SBY-CHEY-HI RISK FLU/PNEUMONIA VA-DIABETES SBY-CHEY-HI RISK FOR FLU/PNEUMONIA VA-HIGH RISK FOR FLU/PNEUMONIA VA-HIGH RISK FOR PNEUMOCOCCAL DZ Input a code to search for:		
ICD-9-CH 250.03 is used in the following taxonomies: AGP TEST GAMP-DIABETES HGBA1C DIABETES HIGH RISK, HIGH LOL ICD9 250.03 JP-DIABETES KC TEST MIKE HI RISK FLU/PNEUHONIA M. DIABETES NGG DIABETES SDY-CHEY-HI RISK FLU/PNEUHONIA VA-HIGH RISK FOR FLU/PNEUHONIA VA-HIGH RISK FOR FLU/PNEUHONIA VA-HIGH RISK FOR PNEUHOCOCCAL DZ Input a code to search for:		
CAMP-DIABETES HGBA1C DIABETES HIGH RISK FOR FLU/PNEUHONIA HIGH RISK, HIGH LDL ICD9 250.03 JP-DIABETES KC TEST MIXE HI RISK FLU/PNEUHONIA ML DIABETES NCC DIABETES SBY-CHEY-HI RISK FLU/PNEUHONIA VA-DIABETES VA-HIGH RISK FOR INFLUENZA VA-HIGH RISK FOR INFLUENZA VA-HIGH RISK FOR PNEUHOCOCCAL DZ Input a code to search for:		
DIABETES HIGH RISK FOR FLU/PNEUHONIA HIGH RISK, HIGH LDL ICD9 250.03 JP-DIABETES KC TEST MIKE HI RISK FLU/PNEUHONIA ML DIABETES SBY-CHEY-HI RISK FLU/PNEUHONIA VA-DIABETES SBY-CHEY-HI RISK FOR FLU/PNEUHONIA VA-HIGH RISK FOR FLU/PNEUHONIA VA-HIGH RISK FOR PNEUHOCOCCAL DZ Input a code to search for:		
HIGH RISK, HIGH LOL ICO9 250.03 JP-DIABETES KC TEST MIKE HI RISK FLU/PNEUMONIA HL DIABETES SBY-CHEY-HI RISK FLU/PNEUMONIA VA-DIABETES VA-HIGH RISK FOR FLU/PNEUMONIA VA-HIGH RISK FOR FLU/PNEUMONIA VA-HIGH RISK FOR PNEUMOCOCCAL DZ Input a code to search for:		
ICD9 250.03 JP-DIABETES KC TEST MIKE HI RISK FLU/PNEUHONIA HL DIABETES SBY-CHEY-HI RISK FLU/PNEUHONIA VA-DIABETES SBY-CHEY-HI RISK FOR FLU/PNEUHONIA VA-HIGH RISK FOR INFLUENZA VA-HIGH RISK FOR PNEUHOCOCCAL DZ Input a code to search for:		
JP-DIABETES KC TEST HIKE HI RISK FLU/PNEUHONIA HL DIABETES SBV-CHEY-HI RISK FLU/PNEUHONIA VA-DIABETES VA-HIGH RISK FOR FLU/PNEUHONIA VA-HIGH RISK FOR PNEUHOCOCCAL DZ Input a code to search for:		
KC TEST MIKE HI RISK FLU/PNEUHONIA HL DIABETES SBY-CHEY-HI RISK FLU/PNEUHONIA VA-DIABETES VA-HIGH RISK FOR FLU/PNEUHONIA VA-HIGH RISK FOR PNEUHOCOCCAL DZ Input a code to search for:		
HL DIABETES NCG DIABETES SBY-CHEY-HI RISK FLU/PNEUHONIA VA-DIABETES VA-HIGH RISK FOR FLU/PNEUHONIA VA-HIGH RISK FOR INFLUENZA VA-HIGH RISK FOR PNEUHOCOCCAL DZ Input a code to search for:	KC TEST	
NCG DIABETES SBY-CHEY-HI RISK FLU/PNEUMONIA VA-DIABETES VA-HIGH RISK FOR FLU/PNEUMONIA VA-HIGH RISK FOR PNEUMOCOCCAL DZ Input a code to search for:		
SBY-CHEY-HI RISK FLU/PNEUHONIA VA-DIABETES VA-HIGH RISK FOR FLU/PNEUHONIA VA-HIGH RISK FOR INFLUENZA VA-HIGH RISK FOR PNEUHOCOCCAL DZ Input a code to search for:		
VA-HIGH RISK FOR FLU/PNEUHONIA VA-HIGH RISK FOR INFLUENZA VA-HIGH RISK FOR PNEUHOCOCCAL DZ Input a code to search for:	SBY-CHEY-HI RISK FLU/PNEUMONIA	
VA-HIGH RISK FOR INFLUENZA VA-HIGH RISK FOR PNEUMOCOCCAL DZ Input a code to search for:		
VA-HIGH RISK FOR PNEUHOCOCCAL DZ Input a code to search for:		
	Turnut a code to compatification	
205.20 VT500.7	Input a code to search for.	
205.20 VT500.7		
205-20 VT500-7		E
205-20 VT500-7		
396, 29 V1300-7 05:54:40 Caps:		
	390, 29 V1300-7 05:54:40	Caps .::

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	L	- (*	<i>f</i> ∗ C	OPD							
												_
B)	Import_co	pd.csv										х
	А	В	С	D	E	F	G	н	1	J	К	
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												
H I	↔ → In	nport_cope	1 2)	1

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:

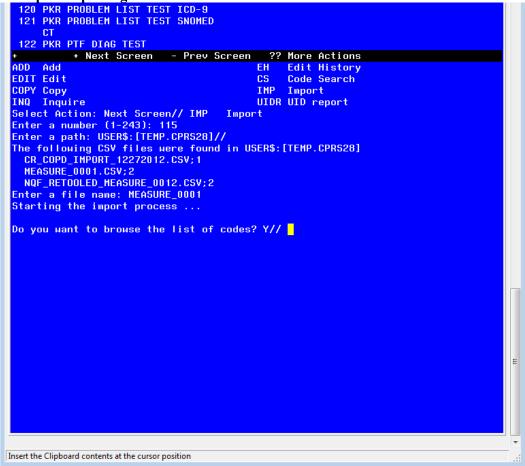
	the following:			
HF	CSV host file			
PA	CSV file paste			
TAX	Another taxonomy			
WEB	CSV file from a web	site		
Select the import	method:			
286, 27 VT500-7			00:13:10 Num	-

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).

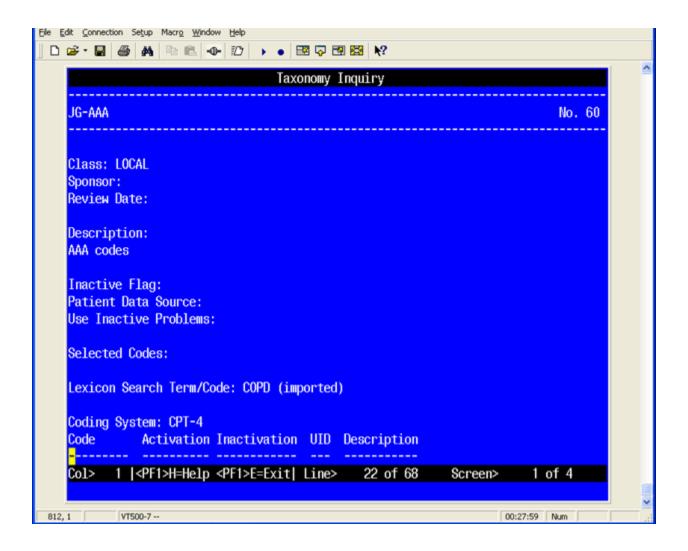
NOTE: Special privileges are required to access host file directories, so you may not be able to use this option.

Example: Importing codes from a CSV host file



At this point you will have the option of browsing the list of codes.

🗂 alpha2 - Reflection for UNIX and OpenVMS	
<u>File Edit Connection Setup Macro W</u> indow <u>H</u> elp	
📙 🗅 🚅 - 🔚 🎒 🙌 🖻 🛍 🐠 💯 🕟 🎍 🖼 🖓 PKB	}WP
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	
Ferm/Code: Asthma (imported)	
Coding System: ICD-9-CM	
1. 493.01	
2. 493.02	
3. 493.10	
COLV <pf1>H=Help <pf1>E=Exit Line> 22 of 140</pf1></pf1>	Screen≻ 1 of 7
JOIN 1 INPETMENETP APENNET Line> 22 of 140	Screen≻ 1 of 7
COTY 1 TYPETYHEHETP YPETYEEExitT Line> 22 of 140	Screen> 1 of 7
	Screen> 1 of 7
List Of Codes To Be Imported	Screen> 1 of 7
List Of Codes To Be Imported 4. 135836000	Screen> 1 of 7
List Of Codes To Be Imported	Screen> 1 of 7
List Of Codes To Be Imported 4. 135836000 5. 195951007	Screen> 1 of 7
List Of Codes To Be Imported 4. 135836000 5. 195951007 Term/Code: COPD (imported)	Screen> 1 of 7
List Of Codes To Be Imported 4. 135836000 5. 195951007 Term/Code: COPD (imported) Coding System: ICD-9-CM	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:	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	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:	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	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:	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	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 J44.1	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 J44.1 Invalid coding system code pair: Coding system is ICD, code is J44.0 Term/Code: COPD (imported)	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	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 J44.1 Invalid coding system code pair: Coding system is ICD, code is J44.0 Term/Code: COPD (imported)	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	Screen> 1 of 7
List Of Codes To Be Imported 4. 135836000 5. 195951007 Ferm/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 Ferm/Code: COPD (imported) Coding System: CPT-4 1. 1015F	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:	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	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:	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	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	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 Fotal number of codes: 6	
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	Screen> 1 of 7
<pre>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 Fotal number of codes: 6</pre>	



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.

 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.

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	A	1	- (0	f _≭ C	OPD							
1	Import_co	pd.csv										x
	А	В	С	D	E	F	G	Н	1	J	К	
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												-
14	↔ → Ir	nport_cop	d 🖓									▶ :
eady								Œ	0 [] 10	0% 😑	Ū	ŧ

- 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.)

Open								?	×
Look jn:	🗀 csv prd		~	G) 😰	Þ	•		
My Recent Documents	CR_COPD_IMPC Import_copd MEASURE_0001								
Desktop									
My Documents									
My Computer									
	File <u>n</u> ame:					~		<u>O</u> pen	
My Network	Files of <u>type</u> :	All Files				~		Cancel	
	<u>E</u> ncoding:	ANSI				~			

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.

	⊠ 🖓 🗃 🔯 💦
Taxonomy Management May 2	9, 2013@18:18:51 Page: 1 of 27
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 Sc	
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// IMP	
Select the taxonomy to import into:	(1-254):

7. Select PA for the import method.

Sele	ect one of	the follo	wing:			
	HF	CSV host	file			
	PA	CSV file				
	TAX		taxonomy			
	WEB	CSV file	from a web	site		
Select th	e 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.

Taxonomy File Entries.	Taxonomy File Entries. +No. Taxonomy Description 10 07 V*-IMAGING FOR AAA (CPT) CPT CODES FOR RADIOLOGY PROCEDURES	<u>† 27</u>
No. Taxonomy Description INO. 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 TEST IMPORT TAX 2 * * Next Screen - Prev Screen ?? More Actions HF CSV host file PA CSV file paste TAX Another taxonomy Another taxonomy	+ <u>No. Taxonomy Description</u> 10 07 V*-IMAGING FOR AAA (CPT) CPT CODES FOR RADIOLOGY PROCEDURES	
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 ICD9 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	10 07 V*-IMAGING FOR AAA (CPT) CPT CODES FOR RADIOLOGY PROCEDURES	
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 ICD9 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	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		
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		
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		
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		
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		
16 10 EG TEST 17 10 IMPORT TAX test import tax 18 10 IMPORT TAX SEL TEST IMPORT TAX 2 19 10 IMPORT TAX2 TEST IMPORT TAX 2 + + Next Screen - HF CSV host file PA CSV file paste TAX Another taxonomy		
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		
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		
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		
+ Next Screen - Prev Screen ?? More Actions HF CSV host file PA CSV file paste TAX Another taxonomy		
HF CSV host file PA CSV file paste TAX Another taxonomy		
PA CSV file paste TAX Another taxonomy		
TAX Another taxonomy		
	Select the import method: pa CSV file paste Paste the CSV file pour process (ENTER) to finish COPD SCT 413846005 313206	004 213
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</enter>	.68925,	5,0092-

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:

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	*
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-10-CM	
1. J44.9	
2. J44.1	
3. J44.0	
Term/Code: COPD (imported)	
Coding System: HCPCS	
1. G8292 2. G8293	
2. 06290 3. 68924	
3. G8924 4. G8925	
4. 00920	
	Ĩ.
	_

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.

+	+	N <u>EXT</u>	S <u>CREEN</u>	P <u>REV</u>	S <u>CREEN</u>	??	M <u>ORE</u>	ACTIONS
ADD	A <u>DD</u>				CS		C <u>ODE</u>	S <u>EARCH</u>
EDIT	EDIT					IMP	I <u>MPO</u>	<u>RT</u>
COPY	C <u>OPY</u>				Į	JIDR	UID H	<u>REPORT</u>
INQ	INQUIR	E			(DINQ	0 <u>LD</u> :	I <u>NQUIRE</u>
CL	CHANGE	L <u>OG</u>						
SELE	CT ACTI	<u>ON: NE</u>	XT SCREEN	// <u>INQ</u>	INQUI	RE		
D <u>ISP</u>	LAY INQ	<u>UIRY</u> F	OR WHICH	TAXONO	<u>MY</u> ?: (1	254)	: 10	5

	Tax	onony	Inquiry	
Selected	Codes :			
Lexicon	Search Term/Code: COPD (im	ported)	
Coding S	ystem: ICD-10-CM			
	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 S	ystem: HCPCS			
Code		UID	Description	
68292	01/01/2007 01/01/2008		COPD Patient with Spirometry	
			Results Documented	
68293	01/01/2007 01/01/2011		COPD Patient without Spirometry	
Col> 1	<pre>\PF1>H=Help <pf1>E=Exit </pf1></pre>	Line>	36 of 86 Screen> 2 of 4	

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.

	ection seith watañ Will				
] 🗅 🛸 - 🗖		-0-12 → •	🖼 🛆 🛃 🔛	N?	
3 07 4 07	ASTHMA CPT ASTHMA EL COPD CODES COPY TXM TE		ES	Combination of ICD9 and CPT This taxonomy was automatica COPD CODES	
7 07	GERD CODES GERD ICD 10 IMMUNIZATIO			GERD GERD CPT AND ICD 10 CODES	
	RENAL COND	TIONS OTH	ER	RENAL CONDITIONS OTHER THAN	CANCER PL
+		reen -	Prev Scre	een ?? More Actions	
Se	lect one of			Sen 11 Hore Actions	
	HF	CSV host	file		
	PA	CSV file	paste		
	TAX		taxonomy		
	WEB		from a l	web site	
Select	the import m	ethod: TA	X Anothe	er taxonomy	
Select	a taxonomy o	or taxonom	ies to im	iport from.	
	VT500-7				00:20:35 Num Caps Hold

) 📽 - 🖬 🦀 🛤 🖻 🛍 👁 127 🔸 • 128 🖓 🖽 1				
	24, 2013@15:10:44	Page:	1 of	25
xonomy File Entries.				
o. Taxonomy	Description			
1 07 ASTHNA CODES				
2 07 ASTHMA CPT/ICD 9 CODES	Combination of ICD9	and CPT cod	les	
3 07 ASTHMA EL	This taxonomy was a	utomatically	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 OT	HER THAN CAN	ICER PL	
THAN CANCER				
+ Next Screen - Prev Sc	reen ?? More Action	S		
L Select an entry				
M Remove an entry				
0 Inquire lect Action: Next Screen// sel	Coloct on ontry			
iter a number (1-237): 4	Select an entry			
(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)				
S <u>ELECT ONE OF THE FOLLOWING</u> :				
ALL A <u>LL CODES</u> SEL S <u>ELECTED CODES</u>				
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

o. Taxonomy 28 15V-DIABETES	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 36 AGP AAA DIAGNOSIS 37 AGP AAA PROCEDURE ONLY	ICD codes and CPT codes indicating AAA
36 AGP AAA DIAGNOSIS	ICD codes and CPT codes indicating AAA
+ Next Screen - Prev Sci	reen ?? More Actions
Select one of the following:	
HF CSV host file	
PA CSV file paste	
TAX Another taxonomy	Ý
WEB CSV file from a	 A second se

Hint - If you have the URL copied to the clipboard you can paste it at the Input prompt.

axonomy Management May	03, 2013013:54:15	Page:	4 of 24
Taxonomy File Entries.			
+No. Taxonomy	Description		
28 15V-DIABETES	THE BLUE COW IS NOT		
29 17 E&M CODES ONLY	Taxonomy Testing CP		
30 17 HTN ICD9 ONLY	Taxonomy Testing IC		
31 17 ICD10 & CPT	Taxonomy Testing IC		
32 17DIABETES	TAXONOMY TESTING -		
33 17HTN	Testing software -	CPT and ICD-	9 codes
34 19COPD	19TESTING		
35 AGP AAA ALL	ICD codes and CPT c		
36 AGP AAA DIAGNOSIS	ICD codes and CPT c	odes indicat	ing AAA
37 AGP AAA PROCEDURE ONLY			ing AAA
+ + Next Screen - Prev S	creen ?? More Action	S	
Starting the import process			
Invalid coding system code pair:	0		
Coding system is ICD, code is J44	.9		
Invalid coding system code pair: Coding system is ICD, code is J44	4		
Invalid coding system code pair:	• 1		
Coding system is ICD, code is J44	٥		
Couring System is icb, code is 044	.0		
Do you want to browse the list of	opdop2 VII		

Elle Edit Connection Setup Macro Window Help	
List Of Codes To Bo Imposted	^
List Of Codes To Be Imported	
Term/Code: COPD (imported)	
Coding System: SNOMED CT 1. 413846005	
2. 313296004	
3. 313299006	
4. 135836000	
5. 195951007	
Tonm (Coder CODD (imported)	
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	
Tony (Code, CODD (imported)	
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</pf1></pf1>	
	~

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 13, 2022@08:29:26	Page :	1 of	79
Taxonomy File Entries.				
Νο Τογοροφιμ	Deconintion			
No. Taxonomy 1 AAA MEASUREMENT FOR A	Description			
2 AAA NO SCREENING	INCL			
3 AAA REPAIR				
4 AAA REPAIR HISTORY				
5 AAA WITH MEASUREMENT F	TOR			
FEMALE				
6 AAA WITHOUT MEASUREMEN	ITS			
7 AGP 90714 TEST 8 AGP AAA MEASUREMENT WI	TH T10			
FOR A MALE				
	Prev Screen ?? More Actions	5		
ADD Add	CL Change Log			
EDIT Edit	CS Code Search			
UIDE UID Edit	IMP Import			
COPY Copy	UIDR UID report			
INQ Inquire Select Action: Next Screen/	VSC VS Compare			
Serect Action. Next Screen/				

Once the report is built a Browser screen will open displaying the report. Example: Browsing Use in Dialog Report

he follo se in Di	owing taxonomies	e UID Report as of 12/14/2012@12:27:11 contain the listed inactive codes whice	ch are marked as
	AJM TAXONOMY (
	system: ICD-9-CM Inactivation	Brief Description	
11.8	10/01/1989	AC ISCHEMIC HRT DIS NEC	
	BREAST TUMOR (
	system: ICD-9-CM Inactivation	Brief Description	
93.8	10/01/2001	ABNORMAL FINDINGS-BREAST	
		ER THAN MDD (IEN=500033)	
	system: ICD-9-CM Inactivation	Brief Description	
91.8	10/01/1996	ALCOHOLIC PSYCHOSIS NEC	
92.21	10/01/1979	DEMENTIA ASSOC W/ETOH, MILD	
		DEMENTIA IN OTH DISEASES	
			⊳ 1of6

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]
11/27/12015:32 159 lines
From: XXXXX,YYY (Yyy Xxxxxx) 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:

elect O	PTION 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			

NLM	Value Set Menu <u></u>	Feb 19, 2015@11:50:18	Page:	<u>1 of</u>	191	
NLM	Value Sets					
No.	Value Set		V	ersion l	Date	
1	Above Normal Follow-	.ip	J	ul 01, 2	2014	
	(2.16.840.1.113883.3	.600.1.1525)				
2			J	ul 01, 2	2014	
	(2.16.840.1.113883.3	.600.1.1498)				
3	ACE Inhibitor or ARB		.l.	ul 01. 2	2014	
	(2.16.840.1.113883.3	.526.3.1139)				
4			. li	ul 01, 2	2014	
	(2.16.840.1.113883.3					
5		ncy Medical System Education	<u>م</u>	or 01, 2	2014	
	(2.16.840.1.113883.3			, , , , ,		
		- Prev Screen ?? More Actions				
OT						
СТ	Create Taxonomy	CS Code Search				
INQ	Inquire					
Sele	Select Action: Next Screen//					

When the VS option is selected it opens a List Manager 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.

Synonym	Option	Option Name	Description
TL	List Reminder Terms	PXRM TERM	This option allows a user to display a list of reminder terms that have been defined.
TI	Inquire about	PXRM TERM INQUIRY	This option allows a user to display the contents of a reminder term in an easy-to-read format.

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Reminder Term Management Options

Synonym	Option	Option Name	Description
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.
тс	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.
TICS	Integrity check of a selected term	PXRM TERM INTEGRITY CHECK ONE	This option lets the user select a reminder term for integrity checking.
TICA	Integrity check of all terms	PXRM TERM INTEGRITY CHECK ALL	This option runs the integrity check for all reminder terms on the system.
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:
                  CN600 (FI(1)=DC(86))
   Findings:
                  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
                                                                  This is where you enter
Select Finding: HEPATITIS B SURFACE ANTIBODY
                                                                  the local finding name.
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
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:
              YES
       1
       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 in the <u>Reminder Term Edit Example</u> screenshot above.

Integrity Check Selected

This option lets you select a term for integrity checking.

```
Select Reminder Term: ANNUAL HEALTH HABITS SCREEN LOCAL
...OK? Yes// (Yes)
No fatal term errors were found.
```

Integrity Check All

This option performs an integrity check on all terms in the account.

```
Select Reminder Term Management <TEST ACCOUNT> Option: TICA Integrity Check All
Check the integrity of all reminder terms.
DEVICE: HOME//;;999
Checking VA-BL DEPRESSION SCREENING (IEN=797)
No fatal term errors were found.
Checking VA-BL ECOE ALCOHOL USE SCREEN (IEN=491)
FATAL: Term finding number 1 uses computed finding VA-REMINDER DEFINITION. The
Computed Finding Parameter is set to ENTER DEFINITION HERE, that reminder does
not exist.
The term is VA-BL ECOE ALCOHOL USE SCREEN (491).
This term has fatal errors and it will not work!
Checking VA-BL ECOE DEPRESSION SCREEN (IEN=488)
FATAL: Term finding number 1 uses computed finding VA-REMINDER DEFINITION. The
Computed Finding Parameter is set to ENTER DEFINITION HERE, that reminder does
not exist.
The term is VA-BL ECOE DEPRESSION SCREEN (488).
```

This term has fatal errors and it will not work!

Checking VA-BL ECOE OEF/OIF (IEN=490) No fatal term errors were found.

Term Test

. . .

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 <TEST ACCOUNT> Option: TEST Term Test
Select Patient: ZZZRETSIXEIGHT,PATIENT 4-7-35 666512345
NSC VETERAN SMB SMB
Select Reminder Term: COVID-19 VACCINE BOOSTER - UNDERLYING CONDITIONS LO
CAL
...OK? Yes// (Yes)
The term is False
FIEVAL:
FIEVAL(1)=0
```

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. A Location List of Credit Stops to exclude can also be used; it is entered in the field, CREDIT STOPS TO EXCLUDE (LIST). Location with no credit stop can be excluded by setting EXCL LOCS WITH NO CREDIT STOP to YES.

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

National Content is released on a frequent basis. These releases can update existing reminder content or add new reminder content. The NAME for all national location lists starts with VA- and the CLASS is NATIONAL. Those two requirements make it easy to locate national location lists.

Reminder Location List Menu

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

This menu provides options for creating and editing Reminder Location Lists.

Syn.	Name	Option Name	Description
			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.

Location List Inquiry

This option is used to inquire about location lists.

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 CLINIC STOP: <Enter>
Select LOCATION: OR 1// <Enter>
Select Location List: <Enter>
```

Create a new Location List

Use Add/Edit Location List to create a new list.

```
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
```

```
706
Select CLINIC STOP: alcohol scREENING
 Are you adding 'ALCOHOL SCREENING' as
   a new CLINIC STOP LIST (the 1ST for this REMINDER LOCATION LIST)? No// oldsymbol{y}
   (Yes)
 Select CREDIT STOP TO EXCLUDE: <Enter>
Select CLINIC STOP: alcohol tr
    1 ALCOHOL TREATMENT
                                81
     2
        ALCOHOL TREATMENT-GROUP
                                      556
        ALCOHOL TREATMENT-INDIVIDUAL
                                            508
     3
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//f 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. It provides the mechanism for distributing national reminder content and eliminates the need for a patch. 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.

Changes made with PXRM*2.0*80

This modified Clinical Reminder Exchange functionality to not automatically packed up a reminder dialog under the following condition. If the dialog is attached to a Reminder Definition and that Reminder Definition is used in another Clinical Reminder component such as: Reminder Dialog Branching Logic, Reminder Order Check Rules, Reminder List Rules, or in a Reminder Definition or Reminder Term using the Computed Finding VA-REMINDER DEFINITION.

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 Reminder Exchange file entry and automatically use the replacement selection again if the same finding item is used in other reminder components in the Reminder Exchange file entry.
- Repack options allows the Reminder Manager to repack an existing Reminder 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 Reminder 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 Reminder 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. SharePoint sites cannot be used 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.

Reminder 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	DFE – Delete File Entry
are no longer needed	

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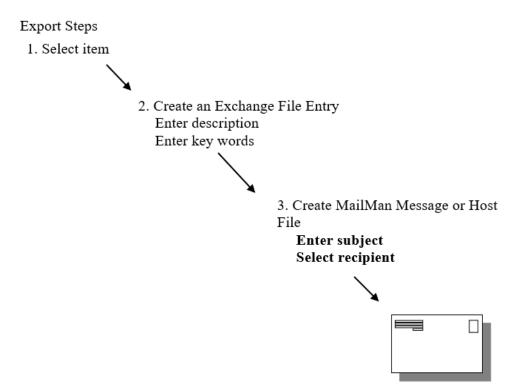
Reminder Exchange Main Screen

When you select Reminder Exchange from the Reminder Managers Menu, the Clinical Reminder Exchange main screen opens. It contains a list of 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, to import packed reminders from incoming host files and MailMan messages and to install the components in a Reminder Exchange file entry.

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, O	NE@VAMC EIGHT	08/08/2003@10:59:52			
2 CHA UNVESTED PATIENTS	CRPROVID	ER, TWO@VAMC ONE	09/26/2004@13:00:59			
6 EDUTEST	CRUSER, O	NE@VAMC TEN	06/19/2004@11:59:52			
8 Hypertension Screen (VHACHS	CRPROVID	ER,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 Me	essage			
CMM Create MailMan Message	LWH	Load Web Host H	File			
DFE Delete Exchange File Entry	LR	List Reminder I	Definitions			
IFE Install Exchange File Entry	RI	Reminder Defin:	ition Inquiry			
IH Installation History	RP	Repack				

A: Steps to Export Reminders



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 S	Creen ?? More Actions				
CFE Create Exchange File Entry	LHF Load Host File	2			
CHF Create Host File	lessage				
CMM Create MailMan Message LWH Load Web Host File					
DFE Delete Exchange File Entry					
IFE Install Exchange File Entry	RI Reminder Defin	ition Inquiry			
IH Installation History					
Select Action: Quit// CFE Exchange File Entry Creation					
~	5 4 5 5 5 5				

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:

REDACTED

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	03/28/20	04@13:12:26	
2 SLC PNEUMOCOCCAL VACCINE	CRPROVIDER,	TWO@VAMC2	03/29/20	04@11:55:11	
3 VA-*CHOLESTEROL SCREEN (M)	CRPROVIDER,	SIX@VAMC6	03/27/20	04@14:59:42	
4 VA-ADVANCED DIRECTIVES EDUC	CRPROVIDER,	TEN@VAMC10	3/27/200	4@14:54:24	
5 VA-HEP C RISK ASSESSMENT	CRPROVIDER,	ONE@VAMC1	03/27/20	04@14:56:13	
+ Next Screen - Prev S	creen ?? M	lore Actions			
CFE Create Exchange File Entry	LHF LC	ad 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			S	
IFE Install Exchange File Entry	RI Reminder Definition Inquiry			iry	
IH Installation History	RP Re	epack			
Select Action: Quit// CHF					
Select Entry(s): (1-5): 2					

Enter a path: REDACTED
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 REDACTED
Enter a path: REDACTED <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
REDACTED
Enter a file name: DiabeticEye

Will save reminder to host file REDACTED: 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	Sour	ce	Date Packed
1 BLOOD PRESSURE CHECK	CRPROVID	ER,ONE@VAMC1	03/28/2004@13:12:26
2 SLC PNEUMOCOCCAL VACCINE	CRPROVID	ER,TWO@VAMC2	03/29/2004@11:55:11
3 VA-*CHOLESTEROL SCREEN (M)	CRPROVID	ER,SIX@VAMC6	03/27/2004@14:59:42
4 VA-ADVANCED DIRECTIVES EDUC	CRPROVID	ER,TEN@VAMC10	3/27/2004@14:54:24
5 VA-HEP C RISK ASSESSMENT	CRPROVID	ER,ONE@VAMC1	03/27/2004@14:56:13
+ Next Screen - Prev S	creen ?	? More Actions	
CFE Create Exchange File Entry	LHF	Load Host File	
CHF Create Host File	LMM	Load MailMan M	lessage
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 Defin	ition Inquiry
IH Installation History	RP	Repack	_
Select Action: Quit// cmm MailMa:	n 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.

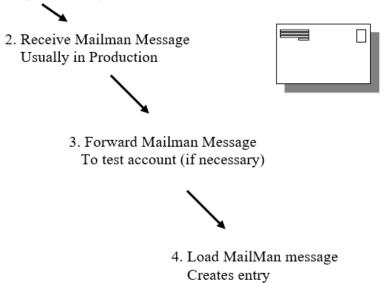
```
Select Entry(s): (1-5): 2
Enter a subject: [Enter a description of the Mail Message.]
Forward mail to: ?
Enter the recipient(s) of this message in any of the following formats:
Lastname, first
                           for a user at this site
Lastname, first@REMOTE-SITE for a user at another site
 (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
                            for a list of devices
D.?
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			Page:	1 of 1		
Successfully stored entries in message 43035.						
Entry	Source		Date Packed			
1 BLOOD PRESSURE CHECK	CRPROVID	ER,ONE@VAMC1	03/28/20	04@13 : 12 : 26		
2 SLC PNEUMOCOCCAL VACCINE	CRPROVID	ER, TWO@VAMC2	03/29/20	04@11:55:11		
3 VA-*CHOLESTEROL SCREEN (M)	CRPROVID	ER,SIX@VAMC6	03/27/20	04@14:59:42		
4 VA-ADVANCED DIRECTIVES EDUC	CRPROVID	ER, TEN@VAMC1	03/27/20	04@14:54:24		
5 VA-HEP C RISK ASSESSMENT	CRPROVID	ER,ONE@VAMC1	03/27/20	04@14:56:13		
+ Next Screen - Prev S	creen ?	? More Actions				
CFE Create Exchange File Entry	LHF	Load Host File	9			
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



1a. LMM – Load MailMan Message

This option lets you load a MailMan message containing packed entries into your site's Exchange file (811.8).

```
Jul 23, 2005@11:40:01
Clinical Reminder Exchange
                                                                                   Page:
                                                                                               1 of
                                                                                                          2
               Entry
                                                                                       Date Packed
                                                     Source
            + Next Screen - Prev Screen ?? More Actions
CFE Create Exchange File EntryLHFLoad Host FileCHF Create Host FileLMMLoad MailMan MessageCMM Create MailMan MessageLWHLoad Web Host FileDFE Delete Exchange File EntryLRList Reminder DefinitionsIFE Install Exchange File EntryRIReminder Definition InquinIHInstallation HistoryRPRepack
                                                         Reminder Definition Inquiry
IH Installation History
                                                    RP
                                                           Repack
Select Action: Next Screen// 1mm Load MailMan Message
          CREX: diabetic eye exam
       1
            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 S		
CFE Create Exchange File Entry	LHF Load Host File	e
CHF Create Host File	LMM Load MailMan H	Message
CMM Create MailMan Message	LWH Load Web Host	
DFE Delete Exchange File Entry		
IFE Install Exchange File Entry		nition Inquiry
IH Installation History	RP Repack	
Select Action: Quit// lhf Load H	lost File	
Enter a path: USER\$:[TEMP]// <ente< td=""><td></td><td></td></ente<>		
The following PRD files were found	l in USERȘ:[TEMP]	
DIABETICEYE.PRD;1		
Enter a file name: DIABETICEYE		
Loading host file USER\$:[TEMP]DIAE	BETICEYE.PRD	

Clinical Reminder Exchange Jul 23	, 20050	11:17:42 Page: 1 of	2
Host file USER\$:[SPOOL]DIABETICEYE.P	RD succ	essfully loaded.	
+ Next Screen - Prev Scr	een ?	? 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	
	RP	Repack	

1c. LWH – 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. SharePoint sites cannot be accessed because it requires the user's Windows credentials and they are not available in VistA.

Eile Edit Connection Setup Macro Productivity Help		Search
🗄 D 📽 🖬 🚳 Al 🗞 🛝 40 12 🕨 🔹 🛤 🕏	3 1/2	
<u>Clinical Reminder Exchange Aug 29.</u> Exchange File Entries.	2018@07:22:12 P	age: 1 of 45
Exchange File Entries.		
Item Entry	Source	Date Packed
1 20170306 V21 3 LIPID REMINDERS AND DIALOGS	CRUSER1@VAMC ONE	03/06/2017@11:26
2 675 D NURS PRIMARY CARE NOTE	CRUSER23@VAMC FIFTY	05/26/2017@09:14
3 ACOVE REMINDERS FROM SAN	CRUSER72@VAMC EIGHTEEN	06/15/2010@12:49
DIEGO (664)		
4 ACOVE REPLACEMENT ELEMENTS	CRUSER24@VAMC ELEVEN	06/15/2010@13:06
(INSTALL 1ST)		
5 ADVANCE DIRECTIVE (TIU TITLE)	CRUSER342@VAMC SIX	12/16/2016@09:11
6 AFIB & CHADS	CRUSER81@VAMC SEVETY	07/15/2013@14:04
7 AGP 52 REPACK	CRUSER3@VAMC NINE	04/16/2018@08:21
+ + Next Screen - Prev Scree		>>>
CFE Create Exchange File Entry	LHF Load Host File	
CHF Create Host File	LMM Load MailMan Mess	
CMM Create MailMan Message	LR List Reminder Def	
DFE Delete Exchange File Entry	LWH Load Web Host File	
IFE Install Exchange File Entry		on Inquiry
IH Installation History	RP Repack	
Select Action: Next Screen// LWH Loa		
Input the URL for the .prd file:EXAMPLE	E.URL va.gov/reminders/dw	s.prd

2a. Installing Reminder Components from the Reminder Exchange File

The action IFE allows a packed entry to be selected for installation from the Exchange file (#811.8). Details of the Reminder 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: С Create a new entry by copying to a new name Install or Overwrite the current entry Т 0 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 Х REMINDER SPONSOR 1 VA National Center for Health Promotion and Disease Prevention (NCP) 2 Office of Quality & Performance Х 3 National Clinical Practice Guideline Council Х REMINDER TAXONOMY 4 VA-DIABETES Х 5 VA-HYPERTENSION Х REMINDER TERM 6 VA-BP >130/80 (ANY OF LAST 3) VA-BP >=160/100 7 Х 8 VA-BP >=140/90 Х 9 VA-MHV DIABETES OR KIDNEY DISEASE Х 10 VA-MHV HYPERTENSION DX Х REMINDER DEFINITION 11 VA-MHV HYPERTENSION Х

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 Reminder

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, if that finding does not exist in your account, 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:
         С
                   Create a new entry by copying to a new name
         М
                  Merge findings
         0
                  Overwrite the current entry
         U
                  Update
         Q
                 Quit the install
                   Skip, do not install this entry
         S
Enter response: S//
```

The Merge and Update actions apply only to terms. For a term, both Merge and Update will preserve any of the site's mapped findings that are not in the Exchange entry. Also, findings that are in the Exchange entry, but not already mapped at the site will be added as mapped entries. The difference between Update and Merge is that with Update, for findings that are mapped in the site's term and in the Exchange entry, all finding modifiers in the site's entry will be replaced by what is in the Exchange entry. Merge does not change the site's finding modifiers.

The following table summarizes the differences:

MERGE	UPDATE
Applies to terms.	Applies to terms.
For a term, will preserve any of the site's mapped	For a term, will preserve any of the site's mapped
findings that are not in the Exchange entry.	findings that are not in the Exchange entry
Findings that are in the Exchange entry but not	Findings that are in the Exchange entry but not
already mapped will be added as mapped entries.	already mapped will be added as mapped entries.

MERGE	UPDATE
For findings that are mapped in the site's term and	For findings that are mapped in the site's term and
in the Exchange entry, Merge does not change the	in the Exchange entry, Update will replace all
site's finding modifiers.	finding modifiers in the site's entry by what is in
	the Exchange 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.

Dialo	g Compo	onents	L.	Jan 26,	2005@12	2:38:5	1	Pag	e:	1 of	1
Packe	d remin	nder dialog: Si	MOKINO	G CESSA	TION EDU	JCATIC	N				
Item	Seq. I	Dialog Summary							Туре	Ex	ists
1	1	HF ACTIVATE P	NEUMO	COCCAL	VACCINE	DONE	ELSEWHE	ERE	eleme	nt	Х
2	2	MH AIMS							eleme	nt	Х
3	3	VM BLOOD PRES	SURE I	DONE					eleme	nt	Х
4		SMOKING CESSA	TION H	EDUCATI	ION				dialo	g	Х
	+	Next Screen	- Pre	ev Scre	en ??	More	Actions	3			
DD	Dialog	Details	DT	Dialog	g Text		IS	Install	Selec	ted	
DF	Dialog	Findings	DU	-	g Usage		QU	Quit			
	2	4	IA	Instal	l All						
Selec	t Actio	on: 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 Seq. Dialog Summary Туре Exists Item DEMO REMINDER - SIMPLE 1 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 Dialog Findings DU QU DF Dialog Usage Quit Dialog Summary DS 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, 2005012.52.05 Page. $1 \circ f$ 1

DIUI	Jg comp	51101105		oun 20, 200	JGI2.52.0	5	Lugo	- • ·	01 <u>1</u>
Packe	ed remin	nder dialog: D	EMO R	EMINDER - S	IMPLE				
DEMO	REMIND	ER - SIMPLE (r	emind	er dialog)	installed	from	exchange	file.	
Iter	n Seq.	Dialog Summar	У					Туре	Exists
1		DEMO REMINDER	- SI	MPLE				dialog	
2	5	IM HEP A DONE						element	
3	10	IM HEP A DONE	ELSE	WHERE				element	
4	15	IM HEP A CONT	RA					element	
	+	Next Screen	- Pr	ev Screen	?? More 2	Action	s		
DD	Dialog	Details	DT	Dialog Tex	t	IS	Install	Selecte	d
DF	Dialog	Findings	DU	Dialog Usa	ige	QU	Quit		
DS	Dialog	Summary	IA	Install Al	.1				
Selea	ct Actio	on: Quit//							

4. IH – Installation History

Use this option to review the installation of an Exchange file entry.

```
Clinical Reminder ExchangeJul 23, 2004@11:27:15Page: 1 of 2Exchange File Entries.2<a href="mailto:light"><u>Entry</u></a> Source</a> Date Packed1 A NEW REMINDERCRPROVIDER, ONE@VAMC106/18/2004@11:50:402 A**A SG PAIN SCREENINGCRPROVIDER, SIX@VAMC607/23/2004@10:55:23
```

+ Next Screen -	Prev Screen ?? More	Actions
CFE Create Exchange File Ent	rv LHF Load H	lost File
CHF Create Host File	LMM Load N	MailMan Message
CMM Create MailMan Message	LWH Load V	Veb Host File
DFE Delete Exchange File Ent IFE Install Exchange File En	rv RI Remino	der Definition Inquirv
IH Installation History		
Select Action: Next Screen// Select Entry(s): (1-4): 2	IH Installation His	story
Installation History	Jul 23, 2004@11:27:2	27 Page: 1 of 1
Entry	Source	Date Packed
A**A SG PAIN SCREENING 07/23/2001@10:55:23	CRPROVIDER, ONE	VAMC1
Installation Date		
1 07/23/2004@10:58:48		
1 0//23/2004@10:58:48	CRPROVIDER, ONE	
Enter ?? for more	actions	
DH Delete Install History	ID Insta	allation Details
Select Action: Quit// ID I	nstallation Details	
A**A SG PAIN SCREENING	07/23/20016	210:55:23 07/23/2001@10:58:48
Component	Action New	
EDUCATION TOPICS		
1 MANAGING PAIN	S	
HEALTH FACTORS		
2 REMINDER FACTORS	S	
3 Pain New Category	S	
4 PAIN PATIENT DECLINED T	D REPORT PAIN S	
5 PATIENT UNABLE TO REPOR		
6 PAIN PATIENT REPORTS NE	V PAIN S	
7 PATIENT REPORTS NEW PAI	N S	
8 HF.SG PATIENT NEEDS PAI	N ASSESSMENT S	
TIU TEMPLATE FIELD		
9 S'S OLD/NEW	S	
5 5 5 Old/ NLW	5	
Installation Detail	Jul 23, 2004@11:27:3	39 Page: 2 of 2
+ Entry	Date Pack	Date Installed
REMINDER DEFINITION		
10 A**A SG PAIN SCREENING	S	
IV A A 56 IAIN SCREENING	5	
Enter ?? for more	actions	
Select Action:Quit//		

7. Delete Reminder Exchange File Entry

Use this option to delete selected entries from the Reminder Exchange file #811.8.

Select Reminder Managers Menu Option: RXReminder ExchangeClinical Reminder ExchangeJun 21, 2004@12:09:19Page: 1 of 3Exchange File Entries.

Entry 1 BLOOD PRESSURE CHECK 2 SLC PNEUMOCOCCAL VACCINE 3 VA-*CHOLESTEROL SCREEN (M) 4 VA-ADVANCED DIRECTIVES EDUC 5 VA-HEP C RISK ASSESSMENT	Source CRPROVIDER, ONE@VAMC1 CRPROVIDER, TWO@VAMC2 CRPROVIDER, SIX@VAMC6 CRPROVIDER, TEN@VAMC10 CRPROVIDER, ONE@VAMC1	Date Packed 03/28/2004@13:12:26 03/29/2004@11:55:11 03/27/2004@14:59:42 3/27/2004@14:54:24 03/27/2004@14:56:13
+ Next Screen - Prev S		
CFE Create Exchange File Entry CHF Create Host File CMM Create MailMan Message DFE Delete Exchange File Entry IFE Install Exchange File Entry IH Installation History Select Action: Next Screen// DFE Select Entry(s): (1-5): 1	LHF Load Host File LMM Load MailMan M LWH Load Web Host LR List Reminder RI Reminder Defin RP Repack Delete Exchange File En	lessage File Definitions Nition Inquiry
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 S	creen ?? More Actions	
CFE Create Exchange File Entry	IH Installation	History
CHF Create Host File	LHF Load Host Fil	e
CMM Create MailMan Message	LMM Load MailMan	
DFE Delete Exchange File Entry	LR List Reminder	Definitions
IFE Install Exchange File Entry	RI Reminder Defi	nition 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.

8. Repack

This option allows a user to recreate a Reminder Exchange file entry without re-selecting all of the selection items. Once a user selects a Reminder Exchange file entry to repack, Reminder Exchange will perform the same checks as creating an Reminder Exchange file entry by hand.

	al Reminder Exchange Aug 29, 2 ge File Entries.	2018@0	6:11:10	Page: 4	41 of	44
EXCITATI	ge file Enclies.					
+Item	Entry	Source	e	Date H	Packed	
314	VA-WH DISCUSS BREAST CA	CRUSE	R@VAMC TWENTY	03/28/	/2013@C	7:30
	SCREEN WOMAN 40-49					
315	VA-WH DISCUSS BREAST CA WOMAN	CRUSE	R@VAMC TWENTY	03/28/	/2013@C)7 : 31
	40-49 DIALOG					
316	VA-WH MAMMOGRAM REVIEW	CRUSE	R@VAMC TWENTY	03/28/	/201300)7:40
317	RESULTS DIALOG	ODUODI		02/20	/2013@C	
	VA-WH MAMMOGRAM SCREENING		R@VAMC TWENTY		-	
318	VA-WH MAMMOGRAM SCREENING	CRUSE	R@VAMC TWENTY	03/28/	/2013@C)/:33
	DIALOG					
319	VA-WH PAP SMEAR REVIEW RESULTS	CRUSE	R@VAMC TWENTY	03/28/	/2013@C)7 : 34
+	+ Next Screen - Prev Screen	n ??	More Actions			>>>
CFE C	reate Exchange File Entry	LHF	Load Host File			
CHF C	reate Host File	LMM	Load MailMan Me	ssage		
CMM C	reate MailMan Message	LR	List Reminder D	efinitions	5	

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 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

Tips for exchanging reminders

- Try at least one simple reminder exchange 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 your intent and logic in your reminders.
- 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 the reminder exchange.

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:
                   Create a new entry by copying to a new name
          Ι
                    Install
          Q
                   Quit the install
                   Skip, do not install this entry
          S
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.

Select Reminder Definit Select Reminder Definit	ion Management Option: RI ion: EDUTEST	Inquire about Reminder Definition 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:		
	e Frame: Wait until actua pecific:	lly DUE

Here is the inquiry for a reminder called EDUTEST.

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:
```

Running Reminder Test

When you run Reminder Test, you are prompted to input a patient, a reminder definition, and the reminder evaluation date/time. The reminder evaluation date/time defaults to NOW, but it can be a date in the past or the future. When the reminder is evaluated, TODAY is set to the evaluation date/time. For example, if a beginning date/time is T-1Y, T is the reminder evaluation date/time. This "time-travel" ability is useful for testing a reminder. If a patient has a finding and you want to see how the reminder evaluates when they do not have the finding, the evaluation date/time can be outside the date range of the finding.

If the definition contains function findings, you will be ask if you want to display a step-by-step function finding evaluation. When a function finding is not working as expected, this can help track down the cause.

If any of the definition findings are terms, the system will ask if you want to display all term findings. This will show the results for all the findings mapped to the term. This can be useful when the result of a term evaluation is not what you expect and you need to determine why.

Select Patient: ZZZRETSIXEIGHT,PATIENT 4-7-35 666512345 NSC VETERAN SMB SMB Select Reminder: INFLUENZA SEASONAL IMMUNIZATION LOCAL

Enter date for reminder evaluation: Jun 14, 2022// (JUN 14, 2022)

Display step-by-step function finding evaluation? N// O

Display all term findings? N//

Test Option Output for the EDUTEST 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) = 1FIEVAL(1,1) = 1FIEVAL(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.

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- 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(1,4)=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 200 is the DA string in the Patient Education file/education topic (see FIEVAL(1, "DAS")=200 the Clinical Reminders Index FIEVAL(1, "DATE")=2980700 Technical Manual for info on the DA FIEVAL(1, "FILE NUMBER") = 9000010.16 strings) FIEVAL(1, "FINDING")=1;AUTTEDT(FIEVAL(1, "LEVEL OF UNDERSTANDING") = FIEVAL(1, "VALUE") = FIEVAL(1, "VISIT")=3935

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. The other places where they can be used are in function findings and CSUB Objects. For more information, see the <u>CSUB Objects</u> section.

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</pre>
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. If contraindicated logic and resolution logic have been defined, they will be displayed in this section.

```
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 160Z 1 TABLET ACTIVE ^TMP("PXRHM",\$J,660020,"Education Test","TXT",30) = MOUTH Non-VA ACETAMINOPHEN/CODE ^TMP("PXRHM",\$J,660020,"Education Test","TXT",31)=3) INE TAB MOUTH ACTIVE ^TMP("PXRHM",\$J,660020,"Education Test","TXT",32)=4) Non-VA ACETAMINOPHEN/PROP OXYPHENE TAB MOUTH ACTIVE Non-VA ACETAZOLAMIDE CAP, ^TMP("PXRHM",\$J,660020,"Education Test","TXT",33)=5) 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 4 HOURS ^TMP("PXRHM",\$J,660020,"Education Test","TXT",39) = ^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 Ρ 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 huse ^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 160Z TAKE 1 TABLET BY PENDING MOUTH TWICE A DAY ERGOTAMINE & CAFFEINE SUPP. INSERT Y SUPPOSITORY (IES) 2) 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 Non-VA ACETAMINOPHEN 325MG 650MG MOUTH EVERY 4 HOURS ACTIVE 1) Non-VA ACETAMINOPHEN ELIXIR 160MG/5ML 160Z 1 TABLET 2) ACTIVE MOUTH Non-VA ACETAMINOPHEN/CODEINE TAB MOUTH 3) ACTIVE 4) Non-VA ACETAMINOPHEN/PROPOXYPHENE TAB MOUTH ACTIVE 5) Non-VA ACETAZOLAMIDE CAP, SA MOUTH ACTIVE Non-VA ACETIC ACID OTIC SOLN 2%, 60ML 2 DROPS RIGHT ACTIVE 6) EAR 7) Non-VA ACETOHEXAMIDE TAB 1JFKDJF MOUTH 6XD ACTIVE 8) Non-VA ACTICORT LOTION, TOP AFFECTED AREA ACTIVE Non-VA ACYCLOVIR 5% OINT 15GM LEG AFFECTED AREA EVERY ACTIVE 9) 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) = 0Function finding 1 not found text, patient's age is 62. FF(3) = 1Information: 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

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

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 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 option. Reminder Test is a clinical reminders menu option available in VistA, which gives detailed, technical information on findings, file locations where the data has been found, logic and other highly technical information.

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 patients with diabetes. However, it is technically impossible to perform a monofilament exam on a patient with bilateral amputation. 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 *VISTA* packages for setting up and maintaining clinical reminders.

Syno-	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	Allows a user to display a clinical reminder definition in an easy to read format.
TRL	List Reminder Terms	PXRM TERM LIST	This option is used to give a brief listing of reminder terms.
TRI	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 Reminder 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.

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, "VA-", or VA-L. Locally 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 Vist 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:

Selec	tion List M	ay 05, 2000 15:15:26	Page:	1 of 1
Remin	der Resolution Status			
Item I	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 DECISI	ON LOCAL		
10	OTHER - DUE TO COHORT AGE	LOCAL		
11	PATIENT REFUSED	NATIONAL		
	+ Next Screen - Prev Scre	en ?? More Actions		
AD .	Add PT List/P	rint All 🔇	QU Quit	
Selec	t 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 S	tatus Nation	al/Local	
1 CONTRAINDICATED	NATION	AL	
2 DONE AT ENCOUNTER	NATION	AL	
3 DONE ELSEWHERE (HISTO	RICAL) NATION	AL	
4 ORDERED	NATION	AL	
5 OTHER	NATION	AL	
6 PATIENT REFUSED	NATION	AL	
+ Next Screen -	Prev Screen ?? M	ore Actions	
AD Add F	I List/Print All	QU Quit	
Select Item: Quit// AD Ad	d		

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// ${f Y}$ (Yes)

NAME: OTHER-DUE TO LIFE EXPECTANCY Rep DESCRIPTION: 1>Other due to life expectancy 2> <enter> EDIT Option: <enter> ABBREVIATED NAME: OTHER - LIFE EXPECT REPORT COLUMN HEADING: OTHER - LIFE EXP INACTIVE FLAG: <enter></enter></enter></enter>				
This resolution status must be linked t	o a national status			
SELECT NATIONAL RESOLUTION STATUS: OTHE OK? Yes// <enter> (Yes)</enter>	R			
	2000 12:15:50	Page:	1 of	1
Reminder Resolution Status				
Item Reminder Resolution Status				
1 CONTRAINDICATED	NATIONAL			
	NATIONAL			
,	NATIONAL			
4 ORDERED	NATIONAL			
	NATIONAL			
6 OTHER-DUE TO LIFE EXPECTANCY	LOCAL			
7 PATIENT REFUSED	NATIONAL			
	?? More Actions			
AD Add PT List/Pri	nt All QU Quit			
Select Item: Quit// <enter></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
    Edit
                         INQ Inquiry/Print
                                                   QU
                                                        Quit
ED
Select Action: Quit// ED
```

```
Edit ListMay 05, 2000 12:18:05Page: 1 of 1REMINDER RESOLUTION STATUS NAME: OTHER-DUE TO LIFE EXPECTANCYResolution Status: OTHER-DUE TO LIFE EXPECTANCYResolution 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 Edit INQ Inquiry/Print ED 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 1 of 1 Page: 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 INQ Inquiry/Print QU Q ED Edit 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)

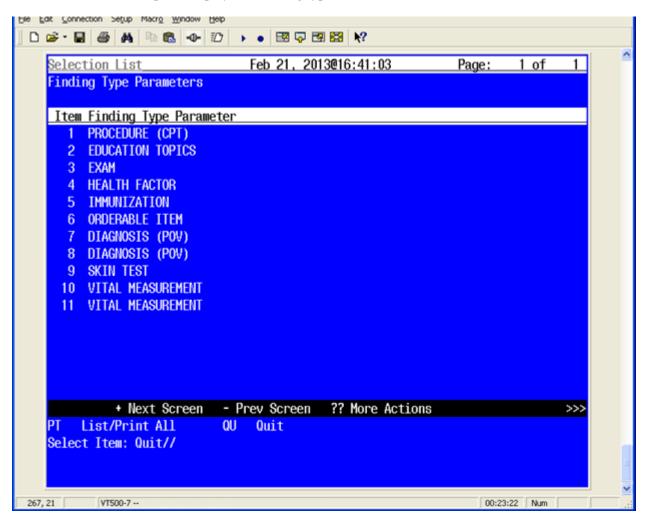
General Finding Type Parameters (FP)

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 Scr	een	?? More Ad	ctions			
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		
	Prefix//Suffix & Prompts/Values/Actions		
1 DONE AT ENCOUNTER	Patient had/	Enabled	
	/at this encounter		
	1] PXRM COMMENT		
	2] PXRM LOU (EDUCATION)		
		5' 11 1	
2 DONE ELSEWHERE (HISTORICAL		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		
+ Nort Saroon	Prev Screen ?? More Actions		
INQ Inquiry/Print QU			
Select number of Resolution	~		
Serect number of Resolution	SLALUS LU EUIL, YUIL//		

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 & N	ame	Dialog Group/Elem	nent	Status	
1 HF-ED SUBSTANCE ABUSE	(OVERRIDE)	ED SUBSTANCE ABUS	SE REFUSED	Enabled	
2 HF-ALCOHOL		ALCOHOL DIALOG GE	ROUP	Disable	d
+ Next Screen -	Prev Scree	n ?? More Actions	3		
AD Add P	r List/Pr	int 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
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 INO Inquiry/Print OU Ouit
Select Action: Ouit//
Delect 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.

Abbrev	Action Name	Description
TEST	Dialog Test	Displays how the dialog will appear in CPRS based on current patient data. This can help you see what happens with branching logic.
СНСК	Dialog Checker	This option checks a selected reminder dialog for invalid sub dialog items, invalid finding items, invalid TIU Objects, and/or invalid TIU Template Fields.
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.

Dialc	og Edit List	Deo	c 15,	2004@14:04:59			Page:	1 of	4
-	DER DIALOG NAME: VA-						EDIT*		
Item	n Seq. Dialog Sum	mary							
1	5 Element: VA-TE	XT DEPRI	ESSION	N EVAL INSTRUC	CIONS				
2	7 Element: VA-TE	XT BLANI	K LINH	E WITH TEMPLATH	E FIEI	D			
3	10 Group: VA-GP D	EP MDD (CRITE	RIA DISPLAY					
4	10.5 Element: VA	-TEXT MI	DD DSM	M-IV CRITERIA I	DISPLA	ĄΥ			
_	10 0 00 00 00 00								
5	12 Group: VA-GP P	HQ 9							
6	12.5 Element: VA	-TEXT PI	HQ 9						
7	15 Element: VAA-T	EXT BLAI	NK LII	NE					
8	20 Group: VA-GP D	ED ACCE	COMENT						
0	+ Next Screen				tion	3			
ADD	Add Element/Group						ecker		
CO	Copy Dialog	DO D:	ialoq	Overview	ED	Edit/Delet	e Dialog		
	Detailed Display						2		
	Progress Note Text				QU	Quit			
Selec	t 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.

Dialo	og Edi	t List	Dec	15, 2004@14:04	:59	Page:	1 of	4
		IALOG NAME: VA-				*LIMITED EDIT*		
Iter	n Seq	. Dialog Ove	rview					
1	5	Element: VA-TE	XT DEPRES:	SION EVAL INST	RUCTIONS			
2	7	Element: VA-TE	XT BLANK I	LINE WITH TEMP	LATE FIELD			
3	10	Group: VA-GP D	EP MDD CR	ITERIA DISPLAY				
4	12	Group: VA-GP P	HQ 9					
5	15	Element: VAA-T	EXT BLANK	LINE				
6	20	Group: VA-GP D	EP ASSESSI	MENT RESULTS				
7	24	Element: VAA-T	EXT BLANK	LINE				
8	30	Element: VA-HF	PT FOLLO	NED FOR DEPRES	SION			
		+ Next Screen	- Prev S	creen ?? More	e Actions			
CO DD DP	Copy Detai Progr	lement/Group Dialog led Display ess Note Text m: Next Screen/	DO Dia DT Dia TEST Dia	log Overview log Text	ED INQ	Edit/Delete Dia Inquiry/Print	log	

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, the 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|).

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's 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

- o True
- o False

Evaluation Item is a Reminder Definition

- Due
- Applicable
- N/A, this includes CONTRA and REFUSED

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:

- o 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.

File Edit Yiew Action Options Tools Help		
CRPATIENT,ONE Edit Templates 666-11-2222 Oct 17,15 Create New Template	Primary Care Team Unaccigned	Filog Deta 🛱 Postings
Last 100 Signed Notes Edit Shared Templates Edit Shared Templates Create New Shared Template	Oct 21,2004@14:26	Change
Contraction of the second sec		
_		Ê
Templates		
Reminders Due		
Problem Drinking Scre Tobacco Cessation E		
JG TOBACCO USE S		
Pheumovax Weight and Nutition 5		
MST Screening		
Not Applicable Differ Categories		<u>.</u>
Diagnoses: DIETARY St	RVEIL/COUNSEL	<u> </u>
	UTRITION/WEIGHT SCREENING	
Cover Sheet Problems Meds Orders Notes Consults	Sugery D/C Summ Labs Reports	

🚝 Template Field Editor						_ 🗆 ×
Action				Delete	Сору	New
Template Fields		Name:	A A SG PAI	N NEW/OLD.		
A A SG PAIN NEW/OLD. Combo						
1-5	Combo 🔳	Туре:	Combo Box	Field Ler	n: 10 🚽 Tex	t Len: 🛛 💻
A A PAIN HX CAUSE	Combo	Default				•
A A SG PAIN NEW/OLD.	Combo	Items:	NEW PATN	{FLD:ADMIT:	TED FROMI	
A GENERIC WORD PROCESSING BOX	WP	items.	LOCATION	(
AAAAA PETER	Button		CAUSE			
AAUSUALPAIN	Button					
ABOVE/BELOW	Button					
ADMISSION TYPE	Combo Combo	Line: 4				
	Combo	Col: 1				
ALL-DATE	Date					<u> </u>
ALL-DATE YEAR	Year	LM Text:	<u> </u>			
ALL-EDIT BOX	Edit	🗌 🗆 Misce	llaneous		- Indent	
ALL-EDIT BOX1	Edit	🗌 🗖 Ina	ctive 🔲 Se	eparate Lines	Indent	Field: 5
ALL-EDUC DEGREES HELD	Radio	E Be	auired □ E>	clude From Note	e Indent	Text: 이 극
ALL-FULL OR DECREASED	Combo					
ALL-NEG OR POS COMBO BOX	* Combo	Notes:				
ALL-R-L-BILAT	Combo					
ALL-STRONG DECREASED ABSENT	Combo					
ALL-TEXT FIELD	Text					
ALL-TEXT REQUIRED FIELD	*Edit WP 🔳					
				or 1	I	A
Hide Inactive Fields * Indicates a Re	equired Field	Previe	w	OK	Cancel	Apply

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
         XPAR EDIT KEYWORDEdit Parameter Definition KeywordeditXPAR EDIT PARAMETEREdit Parameter Valuesaction
      2
      3
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:
     1UserUSR[choose from NEW PERSON]3ServiceSRV[choose from SERVICE/SECTION]4DivisionDIV[choose from INSTITUTION]5SystemSYS[EXAMPLE.NOTURL.VA.GOV]6PackagePKG[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

    Clinical And Laboratory Immuno CLINICAL AND LABORATORY IMMUNOLOGIST
    Clinical Biochemical Geneticis CLINICAL BIOCHEMICAL GENETICIST
    Clinical Biochemical Molecular CLINICAL BIOCHEMICAL MOLECULAR

GENETICIST
     4 Clinical Clerk CLINICAL CLERK
         Clinical Coordinator CLINICAL COORDINATOR
      5
Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5: 5 CLINICAL COORDINATOR
Select Sequence Number: ?
      Sequence Number
                                                 Value
      _____
                                                  ____
                                                  CLINICAL COORDINATOR
      1
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
         List Membership by Class
   3
   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
                                                                          1 of
                                                                  Page:
                                                                                   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

```
Jan 23, 2003@14:55:15
Current User Classes
                                                                   1 of
                                                          Page:
                                                                    2 Classes
                                CRPROVIDER, ONE
                                                        Effective Expires
     User Class
    CRPROVIDER's Consult Class
1
    Business Rule Manager
                                                           09/22/00
2
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
        Clinical And Laboratory Immuno CLINICAL AND LABORATORY IMMUNOLOGIST
     1
        Clinical Biochemical Geneticis CLINICAL BIOCHEMICAL GENETICIST
     2
        Clinical Biochemical Molecular CLINICAL BIOCHEMICAL MOLECULAR
     3
GENETICIST
        Clinical Clerk CLINICAL CLERK
     4
     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:
```

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Cur	rent User Classes	Jan 23, 200)3@14:55:15	Page:	1 of 1
		CRUSER,	ewo	2	Classes
	User Class			Effective	Expires
1	A Consult Class				
2	Business Rule Manage:	<u>c</u>		09/22/00	
3	Clinical Coordinator			01/23/03	01/28/03
4	Medical Administration	on Special		09/11/01	
5	Social Worker Superv	isor			
	+ Next Screen	- Prev Screen	?? More Actio	ons	
	Add	Remove		Quit	
	Edit	Change Vie	€W		

Dialog Reports

Option Name		Synonym	Description
Reminder Dialog	PXRM DIALOG	OR	This option is used to run the
Elements Orphan	ORPHAN REP		Reminder Dialog Elements Orphan
Report	ORT		Report.
Reminder Dialog	PXRM DIALOG	SEA	This option enables the user to search
Search Report	SEARCH		for Reminder Dialogs containing
	REPORT		search criteria define by the user.
Empty Reminder	PXRM DIALOG	ER	This Option will run the Empty
Dialog Report	EMPTY		Reminder Dialog report.
	REPORT		
Check Reminder	PXRM DIALOG	СН	This option runs a routine that checks
Dialog for invalid	CHECKER		a selected reminder dialog for
items			invalid sub-dialog items, invalid
			finding items, invalid TIU Objects,
			and/or invalid Template Fields.
Check All Active	PXRM DIALOG	ALL	This option screens all active
Reminder Dialog	CHECKER ALL		reminder dialogs for invalid items.
for invalid items			
Reminder Dialog	PXRM DIALOG	32	This option provides a report of
CPRS 32 pre	VIMM PRE		Reminder Dialog Elements/Groups
conversion report	REPORT		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
       Dialog Reports ...
  DR
Select Reminder Dialog Management Option: DR Dialog Reports
  OR
         Reminder Dialog Elements Orphan Report
         Empty Reminder Dialog Report
  ER
        Check All Reminder Dialogs for invalid items
  ALL
  SEA Reminder Dialog Search Report
  32
       Reminder Dialog CPRS 32 pre conversion report
       Check Reminder Dialog for invalid items
  CH
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:
         Reminder Dialog Elements Orphan Report
   OR
  ER
         Empty Reminder Dialog Report
   СН
         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
       AUDCR
    2
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
                                UC COMPUTER SPECIALIST
Select User: CPRS,USER
Select User:
Display match criteria on the report? N// YES
Browse or Print? B// Print
DEVICE: HOME// ;;9999999 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// ;;9999999999 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 Empty Reminder Dialog Report ER ALL Check all active reminder dialog for invalid items Check Reminder Dialog for invalid items CH 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.

		Aug 08,	2013@12:07:0	4	Page :	1 of	15
REMINDER VIEW (A	ALL REMINDERS E	Y NAME)					
Item Reminder N			Linked Di	alog N	ame & Dialog	g Status	
1 14HTN (TES							
	ER DIALOG TESTS	5	15 TESTIN	G DIAL	OG		
	TES TX TEST						
4 AJM TAXONO			AJM TAXON	OMY			
5 ARD 00 AND	FICOAGULATION A	FIB					
	~~ ~						
	?? for more ac		Denialene	077	A . : 1		>>>
AR All reminde	ers LR	Linked	Reminders	QU	Quit		
		/-					
CV Change View		•	int Name				
CV Change View		•					
CV Change View Select Item: New	kt Screen// cv	Change					
CV Change View Select Item: New		Change					
CV Change View Select Item: New	<pre>st Screen// cv of the followi</pre>	Change					
CV Change View Select Item: New Select one	t Screen// cv of the followi Reminder D	Change .ng: Dialogs					
CV Change View Select Item: New Select one D	<pre>st Screen// cv of the followi</pre>	Change ng: ialogs ments					
CV Change View Select Item: New Select one D E	t Screen// cv of the followi Reminder D Dialog Ele Forced Val	Change ng: Dialogs ments ues					
CV Change View Select Item: New Select one D E F	t Screen// cv of the followi Reminder D Dialog Ele	Change ng: ialogs ments ues pups	View				
CV Change View Select Item: New Select one D E F G	t Screen// cv of the followi Reminder D Dialog Ele Forced Val Dialog Gro	Change ng: ialogs ments ues pups	View				
CV Change View Select Item: New Select one D E F G P	t Screen// cv of the followi Reminder D Dialog Ele Forced Val Dialog Gro Additional	Change ing: ialogs ments ues oups Prompts	View				

lialog ListAug 08,	2013@12:07:11 Page:	1 of 98
IALOG 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 Scree		>>>
D Add PT List/Pr		
0 Copy Dialog INQ Inquiry	/Print	
V Change View TE Dialog	Taxonomy Edit	
elect Item: Next Screen//		

Select Item: Next Screen// te Dialog Taxonomy Edit Select REMINDER TAXONOMY NAME: 1 10 EG CPT ONLY LOCAL 1 10 EG ICD10 AND CPT LOCAL 2 10 EG ICD10 ONLY 3 LOCAL LOCAL 10 EG ICD9 AND CPT 4 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

Ele Edit Connection Setup Macro Window Help	
Codes Marked as Use in Dialog +016.9 P29.2 P29.3 R03.0 CLASS: LOCAL SPONSOR: REVIEW DATE:	Coding System ICD-10-CM ICD-10-CM ICD-10-CM ICD-10-CM
COMMAND : 4892, 7 VT500-7	Press <pf1>H for help Insert</pf1>

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
- Standard Codes Only = A pick list will display only for Standard Codes
- None = Will not display a pick list

POV (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.

CPT (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.

STANDARD CODES 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 Sy	Coding System: CPT-4				
Code	Activation Inactivation	UID	Description		
34800	01/01/2001	x	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		
34803	01/01/2005	x	Limb) Endovascular Repair of Infrarenal Abdominal Aortic Aneurysm or		
			Dissection; using Modular Bifurcated Prosthesis (two Docking		
34804	01/01/2001	x	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 34800 to 34805

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	
	01/01/2001			Vessel Placement of Proximal or Distal Extension Prosthesis for Endovascular Repair of Infrarenal Abdominal Aortic or Iliac Aneurysm, False Aneurysm, or	
34826	01/01/1989	01/01/1990		Dissection; Initial Vessel Placement of Proximal or Distal Extension Prosthesis for Endovascular Repair of Infrarenal Abdominal Aortic Aneurysm; each	
	01/01/2001			additional Vessel Placement of Proximal or Distal Extension Prosthesis for Endovascular Repair of Infrarenal Abdominal Aortic or Iliac	
34830	01/01/2001			Aneurysm, False Aneurysm, or Dissection; each additional Vessel (List Separately in addition to Code for Primary Procedure) Open Repair of Infrarenal Aortic Aneurysm or Dissection, plus Repair of Associated Arterial Trauma, Following Unsuccessful	

34831	01/01/2001	Endovascular Repair; Tube Prosthesis Open Repair of Infrarenal Aortic Aneurysm or Dissection, plus Repair of Associated Arterial
34832	01/01/2001	Trauma, Following Unsuccessful Endovascular Repair; Aorto-Bi-Iliac Prosthesis 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 Sys	Coding System: CPT-4					
Code	Activation Inactivat	ion 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		(Mesenteric, Cellac, Renal) 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			

Coding Sys	Coding System: CPT-4				
Code	Activation	Inactivation	UID	Description	
75952	01/01/2001			Endovascular Repair of Infrarenal Abdominal Aortic Aneurysm or Dissection, Radiological	
75953	01/01/1989	01/01/1990		Supervision and Interpretation Placement of Proximal or Distal Extension Prosthesis for Endovascular Repair of Infrarenal Abdominal Aortic Aneurysm,	
	01/01/2001			Radiological Supervision and Interpretation 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 CPT range 75952 to 75953

Lexicon Search Term/Code: Copy from ICD range 441.3 to 441.4

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: Α A11 ICD Diagnoses Only D Р CPT Procedures Only N None Taxonomy Pick List Display: A// 11 Select one of the following: С CURRENT ENCOUNTER н HISTORICAL ENCOUNTER BOTH CURRENT AND HISTORICAL ENCOUNTERS в 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.

V	Se	elect the correct AAA codes.				
	₽	Diagnosis recorded at encounter.				
	Selectable Procedures: * (None Selected)					
		Comment:				
		Primary Diagnosis 🗖 🛛 Add to Problem List 🗖				
	☑	Procedure done at encounter.				
		Selectable Procedures:* (None Selected)				
		Comment				
		Quantity: 1				

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:
         Α
                  All
         D
                 ICD Diagnoses Only
         Р
                  CPT Procedures Only
         N
                   None
Taxonomy Pick List Display: A// 11
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
         11
 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 the diagnosis, procedure, and standard codes checkboxes.

Select the correct AAA codes.

History of Diagnosis.	
Selectable Procedures: * (None Selected)	•
Comment	
Date: * 🗾 🖌 2013 🛨 Location:	-
Primary Diagnosis 🗖 Add to Problem List 🗖	
Procedure previously done.	
Selectable Procedures: * (None Selected)	
Comment	
Date: * 🗾 🔽 2013 🛖 Location:	•
Quantity: 1 📫	

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:
          Α
                   A11
          D
                   ICD Diagnoses Only
          Ρ
                  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//
```

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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.

```
    ✓ Select the correct AAA codes.
    ✓ Diagnosis recorded at encounter.
    Selectable Procedures: * (None Selected)
    ✓
    Comment:
    Primary Diagnosis □ Add to Problem List □
```

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:
                   A11
          Α
          D
                   ICD Diagnoses Only
          Р
                   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
         11
  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.

Select the correct AAA codes. Procedure done at this encounter. Selectable Procedures: * (None Selected) Comment: Quantity: 1 ÷

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:
          Α
                    A11
          D
                    ICD Diagnoses Only
          Ρ
                   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
         11
  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.

☑	Select the correct AAA codes	Comment	
	Primary Diagnosis 🗖 🛛 Quantit	r. 🚺 🛨 Add to Problem List 🗖	

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	A	ug 08,	2013@12:07:04		Page:	1 of	15
REMINDER VIE	W (ALL REMINDERS BY	NAME)					
				_			
Item Remind	er Name		Linked Dia	log Name	& Dialog	Status	
1 14HTN	(TESTING)						
2 15 REM	INDER DIALOG TESTS		15 TESTING	DIALOG			
3 15V-DI	ABETES TX TEST						
4 AJM TA	XONOMY		AJM TAXONO	MY			
5 ARD 00	ANTICOAGULATION AF	IB					
+ En	ter ?? for more act	ions					>>>
AR All rem	inders LR	Linked	Reminders	QU Qui	t		
1.00							

```
CV Change View
                  RN Name/Print Name
Select Item: Next Screen// cv Change View
    Select one of the following:
         D
                  Reminder Dialogs
         Е
                  Dialog Elements
         F
                  Forced Values
         G
                  Dialog Groups
                  Additional Prompts
         Ρ
         R
                  Reminders
                  Result Group (Mental Health)
         RG
         RE
                  Result Element (Mental Health)
TYPE OF VIEW: R// e Dialog Elements
```

	13@12:07:11 Page:	<u>1 of 98</u>
DIALOG VIEW (DIALOG ELEMENTS)		
Item Dialog Name	Dialog type	Status
1 07 ASTHMA CODES 2 EL	Dialog Element	otatus
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	
	<pre>?? More Actions</pre>	>>>
D Add PT List/Print		
CO Copy Dialog INQ Inquiry/Pr		
	konomy Edit	
elect Item: Next Screen//		

Select Item: Next Screen// te Dialog Taxonomy Edit Select REMINDER TAXONOMY NAME: 1 1 10 EG CPT ONLY LOCAL 10 EG ICD10 AND CPT LOCAL 2 10 EG ICD10 ONLY LOCAL 3 10 EG ICD9 AND CPT LOCAL 4 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.
CSR	Cover Sheet Reminder Report	PXRM COVER SHEET REMINDER RPT	This option runs the Cover Sheet Reminder Report. It provides the ability to determine what reminders are in a cover sheet list.
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

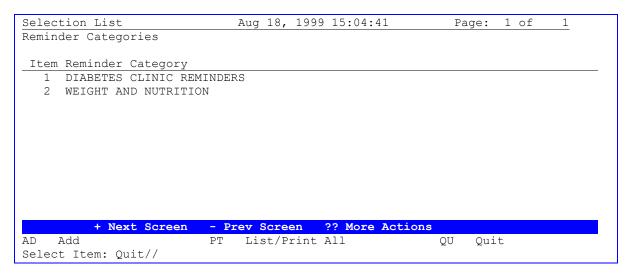
Syn	Option	Option Name	Description
			referral if needed. It may be set at the User or Team level through this option.
TIU	TIU Template Reminder Dialog Parameter	PXRM TIU DIALOG TEMPLATE	This option lets users edit the TIU TEMPLATE REMINDER DIALOG parameter.
DEVL	Evaluate Coversheet List on Dialog Finish	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 the 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 251.

The first screen in this option displays the existing reminder categories:



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
                  Reminder: VA-*PROBLEM DRINKING SCREEN
    Sequence: 3
         + Next Screen - Prev Screen ?? More Actions
INQ Inquiry/Print
ED Edit
                                                                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]
     1UserUSR[CHOOSE IFOM NEW PERSON]2LocationLOC[choose from HOSPITAL LOCATION]3ServiceSRV[choose from SERVICE/SECTION]4DivisionDIV[ISC SALT LAKE]5SystemSYS[Example.notURL.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] 1UserUSR[choose from NEW PERSON]2LocationLOC[choose from HOSPITAL LOCATION]3ServiceSRV[choose from SERVICE/SECTION]4DivisionDIV[ISC SALT LAKE]5SystemSYS[Example.notURL.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 VA-*PNEUMOCOCCAL VACCINE 5 10 VA-INFLUENZA VACCINE 15 VA-*BREAST CANCER SCREEN 25 TOBACCO USE SCREEN 30 VA-*CHOLESTEROL SCREEN (M) 35 VA-*COLORECTAL CANCER SCREEN (FOBT) VA-*HYPERTENSION SCREEN 40 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

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

Options	?×
General Notifications	Order Checks Lists/Teams Notes
Date Range defaults	
•	Change the default date ranges for displaying patient information on your cover sheet.
	Date Range Defaults
Clinical Reminders –	
	Configure and arrange which clinical reminders are displayed on your cover sheet.
	Clinical Reminders
Other Parameters —	
	Configure other parameter settings.
	<u>O</u> ther Parameters
	OK Cancel Apply

Then click on Clinical Reminders to get to the editing form.

Clinical Reminders on Cover Sheet		? ×
Reminders not being displayed: Mammography National Hepatitis Lab Extrac National Hepatitis Med Extrac Nutrition/Obesity Education Pap Smear Pap Smear Pheumovax Ppd Ppd Problem Drinking Screen Psa Seat Belt Education Seatbelt and Accident Screet Tetanus Diphtheria (td-Adult) Tobacco Cessation Educatio	Reminders being displayed: Diabetic Eye Exam Diabetic Foot Care Education Hepatitis C Risk Assessment Sort by O Display Order O Alphabetic	^ ▼ cal
	OK Cano	;el

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 in the <u>CPRS Cover Sheet Reminder List</u> section.

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

Clinical Reminders and Reminder Categories Displayed on Cover Sheet								
Cover Sheet Reminders (Cumulative List)								
Reminder	Seq	_evel				. .	Icon Le	-
🕂 👸 AGETEST (Local)	10 :	System				<u>c</u>	Reminder (Category
- 30107	20 3	Service	MEDICINE			Ø	Reminder	
+ 🗅 SUBSTANCE ABUSE	30 3	Service	MEDICINE			+	Add to Cov	ver Sheet
🗕 🥁 Seat Belt Education (VA-SE 🕠	40 3	Service	MEDICINE			_	Remove F	rom Cover Sheet
+ 📆 Weight and Nutrition Scree	10	Jser	WHPROVIDE	r,one		æ	Lock (can	not be removed)
						Vie	w Cover Sh	eet Reminders
Sele	ct Cov	er Shee	t Parameter Lev	vel to D	isplay / Ed	it		
🖸 System			🖸 Location:				•	
🖸 Division: Salt Lake City Hos		-	🖸 User Class:				-	
🖸 Service: Medicine		-	💽 User:		ider,One - PH			
Editing	Cover	Sheet R	eminders for Us		IPROVIDEF	R,ONE		
Available Reminders & Categories Weight and Nutrition Screen (VA-*WEI) Weight and Nutrition Screen (JG-WEIG ZZPJH TEST REMINDER (Local)								
PNEUMOVAX (WRJ-PNEUMO	VAX+L							Seq # 10 🛨
i≘⊷ 🛅 AGP TEST i≘⊷ 🛅 CAT								+ Add
🗄 🗂 Chicago PAP		┛┓┓						- Remove
Dialog Demos	>	~						🕀 Lock
					OK		Cancel	Apply

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.

🚝 Cover Sheet Reminders	
Reminder	Seq
Advanced Directives Education Blood Pressure Check Drug Class Test Mammogram Alcohol Abuse Education DIQ Test Mental Health Test Antrys Agetest	10 10 10 20 20 30
	[<u>D</u> K]

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.

Clinical Reminders and Reminder Categories Displayed on Cover Sheet								
	Co	ver Sheet I	Reminders (Cumulative List)					
Reminder	Seq	Level		^		Icon Legend		
🕂 👸 AGETEST (Local)	10	System			°⊳	Reminder Category		
+ 👸 Problem Drinking Screen (V	20	Service	MEDICINE		Ø	Reminder		
+ 🛱 SUBSTANCE ABUSE	30	Service	MEDICINE		+	Add to Cover Sheet		
- 👸 Seat Belt Education (VA-SE	40	Service	MEDICINE		_	Remove From Cover Sheet		
🕂 🛅 HEPATITIS C	10	User Class	CLINICAL COORDINATOR		۵			
+ 👸 Pheumovax (VA-PNEUMOV	50	User	CRPROVIDER.TWO		+	Lock (can not be removed)		
+ 👸 PAIN SCREENING (VA-PAI	60	User	CRPROVIDER, THREE		Vie	w Cover Sheet Reminders		
+ 👸 Weight and Nutrition Scree	120	User	CRPROVIDER, THREE					
+ 👸 MST Screening (VA-MST S	130	User	CRPROVIDER, THREE					
+ 👸 CHF Patients & ACE (JG-CH	200	User	CRPROVIDER, THREE	~				
<			>					
Location shown in Cumulative List:			•					
	ing Ca	ver Sheet	Reminders for User: CRPRO	VIDI	ER,THR	REE		
Available Reminders & Categories			User Level Reminders			Seq 🔼 📉		
Advanced Directives Educatio			🕂 👸 Pheumovax (VA-PNEUMO)	VAX	- Nati	50		
Age Test (A NEW REMINDER	- Loc	alj 🔤 🛌	🕂 👸 PAIN SCREENING (VA-PA	IN S	CREE	. 60 📕 🛨		
Age Test (Agetest - Local)	AL COL		+ 👸 Weight and Nutrition Scree	n (Jí	G-WEI	. 120 📕 👝 🖉 🖬		
Alcohol Abuse Education (VA		🕂 👸 MST Screening (VA-MST S	CRE	EENIN	. 130			
Advanced Directives Education (VA-AC Age Test (A NEW REMINDER - Local) Alcohol Abuse Education (VA-ALCOHC Alcohol Abuse Education (VA-ALCOHC Alcohol Abuse&Education (JM ALCOHC Anticoagulant use-CHF and A-FIB (CHF Anticoagulant use-CHF and A-FIB (CHF Anticoagulant use-CHF and A-FIB (CHF								
Anticoaguiant use-Chrianu A Antrus Anetest (Antru's Anetes			+ 👸 Mammogram (VA-MAMMO)					

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 use 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 [Example.notURL.VA.GOV]
Enter selection: 4 System [Example.notURL.VA.GOV]
-- Setting Use New Reminder Parameters for System: Example.notURL.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 OROOPX 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 TWO PIA]
4 System SYS [EXAMPLE.NOTURL.VA.GOV]
5 Package PKG [ORDER ENTRY/RESULTS REPORTING]
Enter selection: 4 System EXAMPLE.NOTURL.VA.GOV
-- Setting Use New Reminder Parameters for System: EXAMPLE.NOTURL.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.

Cover Sheet Reminder Report

This option lets you run the cover sheet reminder report.

There are old and new methods for building the cover sheet list of reminders. When the parameter ORQQPX NEW REMINDER PARAM is set to "YES" the list of reminders evaluated on a user's cover sheet is built in a cumulative manner.

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. The new reminder parameters system is much more flexible, that is why it use is recommended and the vast majority of sites are using it.

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.

Because the final list for a user is built cumulatively, it can be difficult to determine how a user's list is arrived at. The cover sheet reminder report can help make that determination. The cumulative list is built in the order: System, Division, Service, Location, User Class, and User. This report will show you what reminders are added or removed at each level.

When the report starts you are given the option to view the Cover Sheet List using the new reminder parameters or the original parameters. Since most sites use the new reminder parameters that is the default.

Clinical Reminders Cover Sheet Reminder List Report Do you want to use the new reminder parameters?

Select one of the following:

1 YES

2 NO

Enter response: YES//YES

Select from the following levels:

PACKAGE
 SYSTEM
 DIVISION
 SERVICE
 LOCATION
 USER CLASS
 USER
 CPRS
 Enter your list for the report: (1-8):

You can choose one of more of these, note that if your choice includes CPRS, only the CPRS list is built. That is because the CPRS list is a result of complex accumulation and mixing in other levels would skew the results. Because the API used to determine the CPRS cover sheet list has two inputs: user and location, you are prompted for these. Once it has these inputs, the report then accumulates in the following order of levels: Package, System, Division, Service (see below for details), Location, User Class (see below for details), and User.

Service - the value of field #29, Service/Section, in file #200 for the user.

User Class – a list of User Classes and associated reminders is defined in the parameter ORQQPX COVER SHEET REM CLASSES. For each User Class in the list, a check is made to determine if the user is a member, and if they are, the reminders defined for that user class are added to the list.

When the CPRS level is selected the report, header shows the User and Location that were input, the user's Service, and cover sheet User Classes the user is a member of.

Enter your list for the report: (1-8): 8 Select the user: XXXXX,YYYY XY Select the location: PULMONARY CLINIC Browse or Print? B//

Report Criteria Use new cover sheet parameters: YES Selected levels: CPRS User - XXXXX,YYYY Location - PULMONARY CLINIC Service - IRM User Class - PHYSICIAN

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The report first displays the basic parameter list. In the basic parameter list, the first piece is the sequence (display order), the second piece starts with two characters, the first character can be: L = locked, N = normal, R = remove. The second character can be: C= category, R = reminder. The number is the category or reminder internal entry number (IEN). The status of the reminder is shown in the third piece. The basic list is processed using the information in the second and third pieces to determine the final list. When it is a reminder category, the reminders in the category are added to the list. Each reminder on the list is checked to make sure it exists, is active, and its Usage allows for display on the Cover Sheet. If it fails any of these tests it is not included on the display list.

When the list contains a category, it is expanded to show the reminders in the category, e.g., LIST(21) below.

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).

Reminder list at CPRS level LIST(2)=202000^NR793 LIST(3)=302000^NR311 LIST(4)=402000^NR360 LIST(6)=602000^NR87 LIST(7)=702000^NR453^INACTIVE LIST(8)=802000^NR406 LIST(9)=104000^NR310 LIST(10)=105000^NR4^INACTIVE LIST(11)=106000^NR355^ LIST(12)=206000^NR298^ LIST(13)=306000^NR342^ LIST(14)=406000^NR292^ LIST(15)=506000^NR315^ LIST(16)=606000^NR306^ LIST(17)=706000^NR305^ LIST(18)=806000^NR363^ LIST(19)=107000^NR104 LIST(20)=207000^NR128 LIST(21)=307000^NC27 LIST(21.000001)=307000.000001^121 LIST(21.000002)=307000.000002^124 LIST(22)=507000^NR93 LIST(23)=607000^NR568022

Reminders in Display Order Name - XYZ MIXED TERM (IEN=310) Print Name - Mixed Term

Name - XYZ ACSUB TEST (IEN=355) Print Name - XYZ ACSUB test with drugs

Name - VA-DEPRESSION SCREENING (IEN=104) Print Name - Depression Screening Name - VA-TBI SCREENING (IEN=793) Print Name - TBI Screening

Name - XYZ AIMS 1 (IEN=298) Print Name - XYZ AIMS 1

Name - VA-WH MAMMOGRAM SCREENING (IEN=128) Print Name - Mammogram Screening

Name - DT-EXAMPLE FOR PL (IEN=311) Print Name - IHD Lipid Profile - DT PL example

Name - XYZ ART TEST (IEN=342) Print Name - XYZ ART test

Name - VA-WH PAP SMEAR SCREENING (IEN=121) Print Name - PAP Smear Screening

Name - VA-WH PAP SMEAR REVIEW RESULTS (IEN=124) Print Name - PAP Smear Review Results

Name - AAA SCREENING (IEN=360) Print Name - AAA Risk Screen

Name - XYZ ASI TEST (IEN=292) Print Name - XYZ ASI

Name - XYZ AUDIT (IEN=315) Print Name - XYZ AUDIT 1

Name - ZZANTHONY MENTAL (IEN=93) Print Name - AGP MENTAL HEALTH TEST

Name - ZZ-IHD ASPIRIN AND BETA-BLOCKER (IEN=87) Print Name - IHD Aspirin and Beta-Blocker

Name - XYZ AUIR (IEN=306) Print Name - XYZ AUIR

Name - VA-IRAQ & AFGHAN POST-DEPLOY SCREEN (IEN=568022) Print Name - Iraq&Afghan Post-Deployment Screen

Name - XYZ BDI2 (IEN=305) Print Name - XYZ BDI2

Name - VA-MH HIGH RISK NO-SHOW FOLLOW-UP (IEN=406) Print Name - High Risk MH No-Show Follow-up

Name - XYZ BLOOD PRESSURE (IEN=363) Print Name - XYZ Blood Pressure There are 20 reminders on the list.

If you select other levels and do not include CPRS, the list of accumulated reminders for each level is displayed. This provides great flexibility, you can see what reminders are on the list for a selected level. For example, you can see what is defined at the System level or for a particular User Class. You can also see how the accumulation works for any set of selected levels. As an illustration, in this example levels 2-7 have been selected.

Enter your list for the report: (1-8): 2-7 Select the division: SALT LAKE CITY HCS UT VAMC 660 Select the service: MEDICINE Select the location: PULMONARY CLINIC Select the user class: CLINICAL COORDINATOR Select the user: XXXXX,YYYY Browse or Print? B// B

Report Criteria Use new cover sheet parameters: YES Selected levels: SYSTEM DIVISION Value - SALT LAKE CITY HCS SERVICE Value - MEDICINE LOCATION Value - PULMONARY CLINIC USER CLASS Value - CLINICAL COORDINATOR USER Value - XXXXX,YYYY

Under the new reminder parameters, the list is processed in the order: System, Division, Service, Location, User Class, and User, with the ability to add or remove reminders at each level. The final list is the result of processing each of the selected levels in the above order.

Reminder list at SYSTEM level. LIST(1)=102000^NR660004 LIST(2)=202000^NR793 LIST(3)=302000^NR311 LIST(4)=402000^NR360 LIST(5)=502000^NR485 LIST(6)=602000^NR87 LIST(7)=702000^NR453^INACTIVE LIST(8)=802000^NR406

When the above list is processed it becomes:

Reminders in Display Order Name - AGETEST (IEN=660004) Print Name - AGETEST Name - VA-TBI SCREENING (IEN=793) Print Name - TBI Screening

Name - DT-EXAMPLE FOR PL (IEN=311) Print Name - IHD Lipid Profile - DT PL example

Name - AAA SCREENING (IEN=360) Print Name - AAA Risk Screen

Name - SCREEN FOR AAA (IEN=485) Print Name - Screen for Abd Aortic Aneurysm

Name - ZZ-IHD ASPIRIN AND BETA-BLOCKER (IEN=87) Print Name - IHD Aspirin and Beta-Blocker

Name - VA-MH HIGH RISK NO-SHOW FOLLOW-UP (IEN=406) Print Name - High Risk MH No-Show Follow-up

There are 7 reminders on the list.

The following shows how the list changes as the selected levels are processed:

Reminder list at SYSTEM, DIVISION levels. LIST(1)=102000^NR660004 LIST(2)=202000^NR793 LIST(3)=302000^NR311 LIST(4)=402000^NR360 LIST(5)=502000^NR485 LIST(6)=602000^NR47 LIST(7)=702000^NR453^INACTIVE LIST(8)=802000^NR406

Reminders in Display Order Name - AGETEST (IEN=660004) Print Name - AGETEST

Name - VA-TBI SCREENING (IEN=793) Print Name - TBI Screening

Name - DT-EXAMPLE FOR PL (IEN=311) Print Name - IHD Lipid Profile - DT PL example

Name - AAA SCREENING (IEN=360) Print Name - AAA Risk Screen

Name - SCREEN FOR AAA (IEN=485) Print Name - Screen for Abd Aortic Aneurysm

Name - ZZ-IHD ASPIRIN AND BETA-BLOCKER (IEN=87) Print Name - IHD Aspirin and Beta-Blocker Name - VA-MH HIGH RISK NO-SHOW FOLLOW-UP (IEN=406) Print Name - High Risk MH No-Show Follow-up

There are 7 reminders on the list.

Reminder list at SYSTEM, DIVISION, SERVICE levels. LIST(1)=102000^NR660004 LIST(2)=202000^NR793 LIST(3)=302000^NR311 LIST(4)=402000^NR360 LIST(5)=502000^NR485 LIST(6)=602000^NR87 LIST(7)=702000^NR453^INACTIVE LIST(8)=802000^NR406 LIST(9)=204000^NR2^INACTIVE LIST(10)=304000^NC6 LIST(10.000001)=304000.000001^660027 LIST(10.00002)=304000.000002^660026 LIST(10.000003)=304000.000003^2^INACTIVE LIST(10.000004)=304000.000004^9^INACTIVE LIST(10.000005)=304000.000005^31^INACTIVE LIST(11)=504000^NR568022

Reminders in Display Order Name - AGETEST (IEN=660004) Print Name - AGETEST

Name - VA-TBI SCREENING (IEN=793) Print Name - TBI Screening

Name - DT-EXAMPLE FOR PL (IEN=311) Print Name - IHD Lipid Profile - DT PL example

Name - TOBACCO EDUCATION (IEN=660027) Print Name - Tobacco Cessation Education

Name - TOBACCO USE SCREEN (IEN=660026) Print Name - JG TOBACCO USE SCREEN

Name - AAA SCREENING (IEN=360) Print Name - AAA Risk Screen

Name - SCREEN FOR AAA (IEN=485) Print Name - Screen for Abd Aortic Aneurysm

Name - VA-IRAQ & AFGHAN POST-DEPLOY SCREEN (IEN=568022) Print Name - Iraq&Afghan Post-Deployment Screen

Name - ZZ-IHD ASPIRIN AND BETA-BLOCKER (IEN=87) Print Name - IHD Aspirin and Beta-Blocker Name - VA-MH HIGH RISK NO-SHOW FOLLOW-UP (IEN=406) Print Name - High Risk MH No-Show Follow-up

There are 10 reminders on the list.

Reminder list at SYSTEM, DIVISION, SERVICE, LOCATION levels. LIST(1)=102000^NR660004 LIST(2)=202000^NR793 LIST(3)=302000^NR311 LIST(4)=402000^NR360 LIST(5)=502000^NR485 LIST(6)=602000^NR87 LIST(7)=702000^NR453^INACTIVE LIST(8)=802000^NR406 LIST(9)=204000^NR2^INACTIVE LIST(10)=304000^NC6 LIST(10.000001)=304000.000001^660027 LIST(10.00002)=304000.000002^660026 LIST(10.000003)=304000.000003^2^INACTIVE LIST(10.000004)=304000.000004^9^INACTIVE LIST(10.000005)=304000.000005^31^INACTIVE LIST(11)=504000^NR568022 LIST(12)=105000^NR4^INACTIVE

Reminders in Display Order Name - AGETEST (IEN=660004) Print Name - AGETEST

Name - VA-TBI SCREENING (IEN=793) Print Name - TBI Screening

Name - DT-EXAMPLE FOR PL (IEN=311) Print Name - IHD Lipid Profile - DT PL example

Name - TOBACCO EDUCATION (IEN=660027) Print Name - Tobacco Cessation Education

Name - TOBACCO USE SCREEN (IEN=660026) Print Name - JG TOBACCO USE SCREEN

Name - AAA SCREENING (IEN=360) Print Name - AAA Risk Screen

Name - SCREEN FOR AAA (IEN=485) Print Name - Screen for Abd Aortic Aneurysm

Name - VA-IRAQ & AFGHAN POST-DEPLOY SCREEN (IEN=568022) Print Name - Iraq&Afghan Post-Deployment Screen

Name - ZZ-IHD ASPIRIN AND BETA-BLOCKER (IEN=87) Print Name - IHD Aspirin and Beta-Blocker Name - VA-MH HIGH RISK NO-SHOW FOLLOW-UP (IEN=406) Print Name - High Risk MH No-Show Follow-up

There are 10 reminders on the list.

Reminder list at SYSTEM, DIVISION, SERVICE, LOCATION, USER CLASS levels. LIST(1)=102000^NR660004 LIST(2)=202000^NR793 LIST(3)=302000^NR311 LIST(4)=402000^NR360 LIST(5)=502000^NR485 LIST(6)=602000^NR87 LIST(7)=702000^NR453^INACTIVE LIST(8)=802000^NR406 LIST(9)=204000^NR2^INACTIVE LIST(10)=304000^NC6 LIST(10.000001)=304000.000001^660027 LIST(10.00002)=304000.000002^660026 LIST(10.000003)=304000.000003^2^INACTIVE LIST(10.000004)=304000.000004^9^INACTIVE LIST(10.000005)=304000.000005^31^INACTIVE LIST(11)=504000^NR568022 LIST(12)=105000^NR4^INACTIVE LIST(13)=106000^NC7^ LIST(13.000001)=106000.000001^27 LIST(13.00002)=106000.000002^62 LIST(13.000003)=106000.000003^124

Reminders in Display Order Name - AGETEST (IEN=660004) Print Name - AGETEST

Name - VA-HEPATITIS C RISK ASSESSMENT (IEN=27) Print Name - Hepatitis C Risk Assessment

Name - PJH TEST 2 (IEN=62) Print Name - Patch5 VA-Pain Screening

Name - VA-WH PAP SMEAR REVIEW RESULTS (IEN=124) Print Name - PAP Smear Review Results

Name - VA-TBI SCREENING (IEN=793) Print Name - TBI Screening

Name - DT-EXAMPLE FOR PL (IEN=311) Print Name - IHD Lipid Profile - DT PL example

Name - TOBACCO EDUCATION (IEN=660027) Print Name - Tobacco Cessation Education Name - TOBACCO USE SCREEN (IEN=660026) Print Name - JG TOBACCO USE SCREEN

Name - AAA SCREENING (IEN=360) Print Name - AAA Risk Screen

Name - SCREEN FOR AAA (IEN=485) Print Name - Screen for Abd Aortic Aneurysm

Name - VA-IRAQ & AFGHAN POST-DEPLOY SCREEN (IEN=568022) Print Name - Iraq&Afghan Post-Deployment Screen

Name - ZZ-IHD ASPIRIN AND BETA-BLOCKER (IEN=87) Print Name - IHD Aspirin and Beta-Blocker

Name - VA-MH HIGH RISK NO-SHOW FOLLOW-UP (IEN=406) Print Name - High Risk MH No-Show Follow-up

There are 13 reminders on the list.

Reminder list at SYSTEM, DIVISION, SERVICE, LOCATION, USER CLASS, USER levels. LIST(2)=202000^NR793 LIST(3)=302000^NR311 LIST(4)=402000^NR360 LIST(5)=502000^NR485 LIST(6)=602000^NR87 LIST(7)=702000^NR453^INACTIVE LIST(8)=802000^NR406 LIST(9)=204000^NR2^INACTIVE LIST(10)=304000^NC6 LIST(10.000001)=304000.000001^660027 LIST(10.00002)=304000.000002^660026 LIST(10.000003)=304000.000003^2^INACTIVE LIST(10.000004)=304000.000004^9^INACTIVE LIST(10.000005)=304000.000005^31^INACTIVE LIST(11)=504000^NR568022 LIST(12)=105000^NR4^INACTIVE LIST(13)=106000^NC7^ LIST(13.000001)=106000.000001^27 LIST(13.00002)=106000.000002^62 LIST(13.000003)=106000.000003^124 LIST(14)=107000^NR104 LIST(15)=207000^NR128 LIST(16)=307000^NC27 LIST(16.000001)=307000.000001^121 LIST(16.00002)=307000.000002^124

Note that LIST(1) has been removed, so at the User level reminder 660004 is marked for removal.

Reminders in Display Order

LIST(17)=507000^NR93

Name - VA-HEPATITIS C RISK ASSESSMENT (IEN=27) Print Name - Hepatitis C Risk Assessment

Name - PJH TEST 2 (IEN=62) Print Name - Patch5 VA-Pain Screening

Name - VA-WH PAP SMEAR REVIEW RESULTS (IEN=124) Print Name - PAP Smear Review Results

Name - VA-DEPRESSION SCREENING (IEN=104) Print Name - Depression Screening

Name - VA-TBI SCREENING (IEN=793) Print Name - TBI Screening

Name - VA-WH MAMMOGRAM SCREENING (IEN=128) Print Name - Mammogram Screening

Name - DT-EXAMPLE FOR PL (IEN=311) Print Name - IHD Lipid Profile - DT PL example

Name - TOBACCO EDUCATION (IEN=660027) Print Name - Tobacco Cessation Education

Name - TOBACCO USE SCREEN (IEN=660026) Print Name - JG TOBACCO USE SCREEN

Name - VA-WH PAP SMEAR SCREENING (IEN=121) Print Name - PAP Smear Screening

Name - AAA SCREENING (IEN=360) Print Name - AAA Risk Screen

Name - SCREEN FOR AAA (IEN=485) Print Name - Screen for Abd Aortic Aneurysm

Name - VA-IRAQ & AFGHAN POST-DEPLOY SCREEN (IEN=568022) Print Name - Iraq&Afghan Post-Deployment Screen

Name - ZZANTHONY MENTAL (IEN=93) Print Name - AGP MENTAL HEALTH TEST

Name - ZZ-IHD ASPIRIN AND BETA-BLOCKER (IEN=87) Print Name - IHD Aspirin and Beta-Blocker

Name - VA-MH HIGH RISK NO-SHOW FOLLOW-UP (IEN=406) Print Name - High Risk MH No-Show Follow-up

There are 16 reminders on the list.

If you choose the old parameters then list of levels is:

Select from the following levels:

- 1 PACKAGE 2 - SYSTEM 3 - DIVISION 4 - SERVICE 5 - LOCATION 6 - USER
- 7 CPRS

Enter your list for the report: (1-7):

You can choose one of more of these, note that if your choice includes CPRS only the CPRS list is displayed. That is because the CPRS list is built for a selected user and location. If you select other levels and do not include CPRS the list of reminders for each selected level is displayed.

In this example Service, Location, and User were selected. The selection criteria are displayed at the beginning of the report.

Report Criteria Use new cover sheet parameters: NO Selected levels: SERVICE Value - MEDICINE LOCATION Value - PULMONARY CLINIC USER Value - XXXXX,YYYYY

For each selected level, the basic parameter list is first displayed. The first piece on the right side of the equal side is the display order, the second piece is the internal entry number (IEN) of the reminder definition, and the status of the reminder is shown in the third piece. This list is processed to create the actual list, each reminder is checked to determine if it exists, is active, and its Usage allows display on the Cover Sheet. Note both reminders on this list are inactive so there are 0 reminders on the display list.

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Reminder list at the SERVICE level. LIST(1)=1^28^INACTIVE LIST(2)=2^26^INACTIVE

There are 0 reminders on the list.

Reminder list at the LOCATION level. LIST(1)=1^660027 LIST(2)=2^660056 LIST(3)=3^660039

Name - TOBACCO EDUCATION (IEN=660027) Print Name - Tobacco Cessation Education

Name - JG BREAST CANCER SCREEN (IEN=660056) Print Name - Breast Cancer Screen Name - SLC DIABETIC EYE EXAM (IEN=660039) Print Name - SLC Eye Exam

There are 3 reminders on the list.

Reminder list at the USER level. LIST(1)=1^8^INACTIVE LIST(2)=2^660066^DOES NOT EXIST LIST(3)=3^70 LIST(4)=4^73 LIST(5)=5^66 LIST(6)=6^245

Name - VA-IHD LIPID PROFILE (IEN=70) Print Name - IHD Lipid Profile

Name - VA-IHD ELEVATED LDL (IEN=73) Print Name - IHD Elevated LDL

Name - VA-PAIN SCREENING (IEN=66) Print Name - PAIN SCREENING

Name - XYZ BREAST EXAM (IEN=245) Print Name - XYZ Breast Exam Dialog Test

There are 4 reminders on the list.

Under the old parameter system, the levels are processed left to right and the last level on the list is used, thus in this example the Final Reminder List is the same as the list at the User level.

Final Reminder List Name - VA-IHD LIPID PROFILE Print Name - IHD Lipid Profile

Name - VA-IHD ELEVATED LDL Print Name - IHD Elevated LDL

Name - VA-PAIN SCREENING Print Name - PAIN SCREENING

Name - XYZ BREAST EXAM

Print Name - XYZ Breast Exam Dialog Test

There are 4 reminders on the list.

Mental Health Dialogs Active

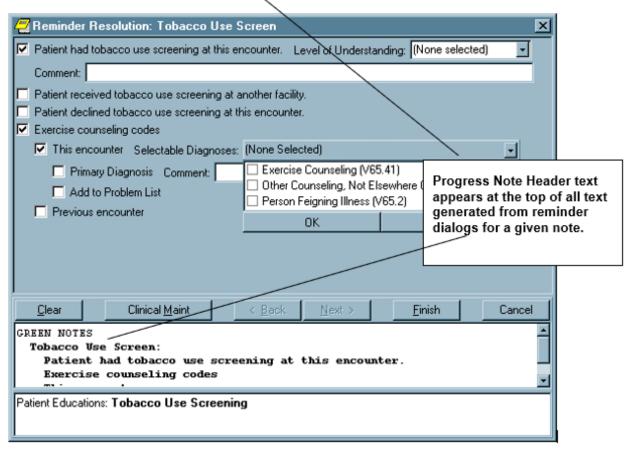
This option lets you modify the "Mental Health Active" CPRS parameter. You can activate mental health dialogs for reminder resolution processing at a user, service, division, or system level. When activated, mental health tests in a reminder dialog can be performed.

Select CPRS Reminder Configuration Option: MH Mental Health Dialogs Active Mental Health Active may be set for the following: [choose from NEW PERSON] 1 User USR User Service SRV Division DIV [choose from SERVICE/SECTION] 2 Division DIV [choose from INSTITUTION] SYS EXAMPLE.NOTURL.VA.GOV 3 4 System 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 Mental Health Dialogs Active MH Progress Note Headers PN RA Reminder GUI Resolution Active DL Default Outside Location РТ 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: 1UserUSR[choose from NEW PERSON]2LocationLOC[choose from HOSPITAL LO [choose from HOSPITAL LOCATION] SRV [choose from SERVICE/SECTION] 3 Service Division DIV [REGION 5] 4 5 System 6 Package SYS [EXAMPLE.NOTURL.VA.GOV] 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



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.

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:
                    USR [choose from NEW PERSON]
    1
       User
    3 Service
                    SRV [choose from SERVICE/SECTION]
                    DIV [choose from INSTITUTION]
    4 Division
    5 System
                    SYS [EXAMPLE.NOTURL.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:
```

Evaluate Coversheet List on Dialog Finish

If this is set to YES, when clicking finish on a reminder dialog the entire coversheet list of reminders will be evaluated. The default is NO.

Example

```
Select CPRS Reminder Configuration <TEST ACCOUNT> Option: Evaluate Coversheet L
ist on Dialog Finish
Evaluate Definition On Dialog Finish may be set for the following:
    1 User USR [choose from NEW PERSON]
    7 System SYS [CPRS32.FO-SLC.MED.VA.GOV]
Enter selection: 1 User NEW PERSON
Select NEW PERSON NAME: PROVIDER,CPRS T CTP
-- Setting Evaluate Definition On Dialog Finish for User: PROVIDER,CPRS T --
Evaluate coversheet on dialog finish: YES
```

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:
     1UserUSR[choose from NEW PERSON]3ServiceSRV[choose from SERVICE/SECTION]4DivisionDIV[choose from INSTITUTION]5SystemSYS[EXAMPLE.NOTURL.VA.GOV]6PackagePKG[ORDER ENTRY/RESULTS REPORTING]
Enter selection: 1 User NEW PERSON
Select NEW PERSON NAME: CRPROVIDER, TWO
                                                ТC
----- 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:

Seattle, WA	•
Seattle, WA	
Local Pharmacy	
Palo Alto	
Outside Physician's Office	
Albany, NY	•

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 [EXAMPLE.NOTURL.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
```

Link Reminder Dialog to Template

This automatically links a reminder dialog to a shared template and/or progress note title.

```
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

If a site is experiencing long load times for coversheet reminders, the Coversheet Time Test can be used to see if there is an issue with a particular reminder definition

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

New Reminder Parameters

This option allows a user to modify the ORQQPX NEW REMINDER PARAMS parameter, which controls usage and management of the <u>Coversheet_Reminder_Report</u>.

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 the <u>GEC Referral Report</u> section for more details.

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:
                    SYS [EXAMPLE.NOTURL.VA.GOV]
     1
        System
     2DivisionDIV[choose from INSTITUTION]3LocationLOC[choose from HOSPITAL LOCATION]4ServiceSRV[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
```

🖉 Reminder Resolution: VA-PAP Smear Review Results	
The VHA recommends clinical review of PAP smear results be recorded in the	
-WH PAP Smear Clinical Review	
PAP SMEAR RESULTS: No unprocessed procedure results in WH package	
Patient Notification	
• Notify patient of NEM (No Evidence of Malignancy) results	This box appears if
• NEM results - next PAP 1 year	WH Print Now is set
* Patient notified: 🔽 Letter 🗖 In-Person 🔽 Phone Call	to YES
View WH Notification Letter Print Nov	
🖸 NEM results - next PAP 2 years	
C NEM results - next PAP 3 year	

Reminder Reports

The Reports menu contains Clinical Reminder reports that Clinical Reminders Managers and/or clinicians can use for summary and detailed 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*42

The data from the EPI, VA-IHD QUERI, and VA-MH QUERI extracts is no longer needed ,so these extracts were shutdown. If you use the EPT, EPF, or EQT options (see below), there will not be any data after the date when PXRM*2*42 was installed on your system.

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.

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.

Reminder Reports Menu

Syn.	Display Name	Option Name	Description
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.
HT	HT Previous Enrollment Health Factor Search	PXRM HT HEALTH FACTOR	This option will search the Clinical Reminders Index for any occurrences of the HT ENROLLMENT-START DATE (PREV ENROLL) health factor. For any occurrence found, the report will output the patient name, SSN, and visit date.
CSR	Cover Sheet Reminder Report	PXRM COVER SHEET REMINDER RPT	This option is used to run the Cover Sheet Reminder Report.

Multiple Uses for Reminders Due 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, 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.

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.

If a report is going to run more than once, it can be saved as a report template, eliminating the need to input the report criteria every time the report is run. The following examples show how to save the template and use it. Look for the prompts:

Create a new report template: N// Select an existing REPORT TEMPLATE or return to continue:

Example

Select Reminder Managers Menu Option: rp Reminder Reports 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 HT HT Previous Enrollment Health Factor Search CSR Cover Sheet Reminder Report

Select Reminder Reports Option: Rd Reminders Due Report Select an existing REPORT TEMPLATE or return to continue: Select one of the following: Ι Individual Patient R Reminder Patient List L Location OE/RR Team 0 PCMM Provider Ρ Т 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: Individual Patient Τ R Reminder Patient List L Location OE/RR Team 0 PCMM Provider Ρ PCMM Team т 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: Individual Teams only Ι R Individual Teams plus Totals by Facility т 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// ODEVICE: 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 REPOR Individual Reminder: WH SCREEN CRWH REPORTS VA-MAMMOGRAM VA-WH PAP SMEAR SCREENING Effective Due Date: 8/25/2009 8/25/2009 9:38:35 am Date run: CR-wh Template Name: 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 Breast Cancer Screen 9 9 21 100 2 0

3	Breast Cancer Screen						
		9	9	21	100	0	
4	Mammogram						
		9	9	21	100	0	
5	ITC 2001 Mammogram Ex	ample					
		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 R	esults					
		6	2	14	34	66	
10	Pap Smear-F/U of Abno	rmal Re	sults				
		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: VAMC SIX 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: Individual Locations only Ι

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Individual Locations plus Totals by Facility R т 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// ODEVICE: 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 All Outpatient Locations (Prior Encounters) Location:
 Date Range:
 8/25/2006 to 8/25/2009

 Effective Due Date:
 8/25/2009

 Date run:
 8/25/2009 12:34:40 pm
 jgtest Individual Locations plus Totals by Facility Template Name: Summary report: 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 3 3 National Hepatitis Med Extract

```
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)
       User Report Templates
Extract EPI Totals
Extract EPI List by Finding and SSN
  RDT
  EPT
  EPF
  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:
                   Individual Patient
          Ι
                   Reminder Patient List
          R
                   Location
          T.
          0
                   OE/RR Team
          Ρ
                  PCMM Provider
          Т
                  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 SCREENINGNATIONALSelect another REMINDER: VA-WH MAMMOGRAM SCREENINGNATIONAL Select another REMINDER: Create a new report template: N// O Print delimited output only: N// O Include deceased patients on the list? N// OInclude 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,O 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 8/25/2009 12:41:18 pm Date run:

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 _____ ___ AGP ERROR NONVA test DFN=37 Pap Smear-Screening Pap Smear-Review of Results Pap Smear-F/U of Abnormal Results PAIN SCREENING ITC Pneumovax SLC Life style Education new reminder 10 Hepatitis C Risk Assessment 11 Influenza Vaccine Smoking Cessation Education Pheumovax ITC 2001 diabetes example 15 ITC 2001 Mammogram Example 16 SLC Diabetic Foot Care Education 17 Diabetic Eye Exam 18 SLC Cancer Screen 19 Ischemic HD/Post MI Follow Up 20 Breast Exam 21 Advanced Directives Education 22 LTC Oversight Visit 23 Weight and Nutrition Screen 24 IHD Lipid Profile EXCHANGE CHANGES Tobacco Cessation Education JG TOBACCO USE SCREEN Problem Drinking Screen 29 Weight and Nutrition Screen 30 Alcohol Abuse Education Weight 32 Exercise Education 33 JG-Weight 34 Taxonomy Test 35 Patch5 VA-Pain Screening 36 PAP Smear Review Results 37 Iraq&Afghan Post-Deployment Screen 38 PAP Smear Screening 39 Depression Screening 40 Mammogram Screening Report run on 14 patients. Report timing data: Elapsed time for reminder evaluation: 6 secs End of the report. Press ENTER/RETURN to continue...

Future Appointments

If you run a report based on future appointments and select a detailed report, you can choose to display all future appointments and the appointment location.

Select one of the following: Ρ Previous Encounters F Future Appointments PREVIOUS ENCOUNTERS OR FUTURE APPOINTMENTS: P// Future Appointments Enter APPOINTMENT BEGINNING DATE AND TIME: Jun 23, 2022// T+1 (JUN 24, 2022) Enter APPOINTMENT ENDING DATE AND TIME: T+30 (JUL 23, 2022) Enter EFFECTIVE DUE DATE: Jun 23, 2022// (JUN 23, 2022) Select one of the following: D Detailed S Summary TYPE OF REPORT: S// Detailed Combined report for all Locations : Y// ES Display All Future Appointments: N// YES Display Appointment Location: N// YES

If you answer Y to the Display Appointment Location prompt, 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.

Extract EPI Totals

The data from the EPI extract is no longer needed so it was shutdown by patch PXRM*2*42. If you run this report there will not be any data after the date when PXRM*2*42 was installed on your system.

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: LREPI 00/05 061500Jun 15,2000@14:52:36LREPI 00/06 073100Jul 15,2000@14:55:40LREPI 00/07 081500Aug 15,2000@15:42:24 160 161 162 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 207 207 190 TOT. BILIRUBIN 190 RIBAVIRIN 35 35 192 192 AST 198 198 ALT VA-HEPATITIS C INFECTION 127 127 INTERFERON BETA-1B 4 4 18 4 INTERFERON BETA-1A 18 INTERFERON ALFACON-1 5 5 INTERFERON ALFACON-15RISK FACTOR FOR HEPATITIS C110NO RISK FACTORS FOR HEP C319DECLINED HEP C RISK ASSESSMENT8 110 319 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

The data from the VA-IHD QUERI and VA-MH QUERI extracts is no longer needed, so these extracts were shutdown by patch PXRM*2*42. If you use this report, there will not be any data after the date when PXRM*2*42 was installed on your system.

```
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
       Review Date Report
  REV
  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.
        160LREPI 00/05 061500Jun 15,2000@14:52:36161LREPI 00/06 073100Jul 15,2000@14:55:40162LREPI 00/07 081500Aug 15,2000@15:42:24163LREPI 00/05 082200Aug 22,2000@02:44:54164LREPI 00/08 082500Aug 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:TotalApplicableN/ADueNot Due1000899101200699 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 PSYCHOTHERAPY Term: 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: Applicable N/A Due Not Due Total 004 Sequence: Finding Group: VA-DEPRESSION SCREEN RESULT DEPRESSION SCREEN NEGATIVE Term: Group Type: MOST RECENT FINDING PATIENT COUNT Group Status: APPLICABLE PATIENTS Finding Count by Reminder Status: Applicable N/A Due Not Due Total 005 Sequence: Finding Group: VA-DEPRESSION SCREEN RESULT DEPRESSION SCREEN POSITIVE Term: 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: Applicable N/A Total 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: Applicable N/A Due Not Due Total 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: Applicable N/A Due Not Due Total 004 Sequence: Finding Group: VA-POS DEPRESSION SCREEN FOLLOW UP DEPRESSION TO BE MANAGED IN PC Term: Group Type: MOST RECENT FINDING PATIENT COUNT Group Status: TOTAL PATIENTS Finding Count by Reminder Status: N/A Total Applicable 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 3 997 1 1000 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:
```

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
                  Patient

Provider by Patient

Referral Date

Location

Referral Count Totals

Category-Referred Servic

Summary (Score)

'Home Help' Eligibility

Batere or Marge Deferred
           2
           3
           4
           5
           6
           7
                     Category-Referred Service
           8
          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> 11 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
SSN Date IADL ADL Care Behaviors ACROSS
Name
_____
CRPATIENT,ONE(666809999)06/15/200400246CRPATIENT,ONE(666809999)06/15/2004079521CRPATIENT,TWO(666809990)05/04/200400000CRPATIENT,SIX(666009999)05/11/200400000CRPATIENT,SIX(666009999)05/11/200400000
```

CRPATIENT, SIX	(666009999)	05/11/2004	0	0	0	0	0
		Totals > > Means > >	•			9 1.5	27 4.5
	Standard Dev	iations > >	0.0	3.1	4.1	2.9	9.8
Enter RETURN to c	ontinue or '^'	to exit: <en< b=""></en<>	ter>				

Review Date Report

All of the Clinical Reminders files contain a REVIEW DATE field. This report lets you input a date and search for entries whose review date is prior to this date. When you run the report, you select one of the Clinical Reminder's files and enter the Review Cutoff Date.

```
Select Reminder Reports <TEST ACCOUNT> Option: REV Review Date Report
    Select one of the following:
         С
                Computed Finding
         D
                Reminder Dialog
                Reminder Location List
         T.
                Reminder Orderable Item Groups
         0
                Reminder Order Check Rules
         TT
                Reminder Definition
         R
         S
                 Reminder Sponsor
                Reminder Term
         Т
             Reminder Taxonomy
         Х
Select File to Review: Reminder Definition
Enter Review Cutoff Date: Jun 24, 2022// (JUN 24, 2022)
DEVICE: ;;999 TELNET PORT Right Margin: 80//
REMINDERS TO REVIEW (up to Jun 24, 2022)
                                                JUN 24, 2022@11:15 PAGE 1
NAME
                                                     REVIEW DATE
  _____
PH DIABETIC RETINAL EXAM
                                                      JAN 24,2006
ZZVA-MHV INFLUENZA VACCINE
                                                      AUG 31,2009
                                                      JAN 2,2011
SETH REMINDER 1
                                                      JUL 30,2012
RFR FINDING ITEM XX IV
                                                     APR 17,2013
ML ASPLENIC PATIENT
                                                     APR 22,2013
ML TAX #1 REMINDER DEF
                                                     MAY 23,2013
ML ICD DX ONLY
ML TAXONOMY#1 AS FINDING ITEM NONE
                                                     JUN 3,2013
ML TAX1 ALL SINGLE CURRENT REMDEF
                                                     AUG 1,2013
                                                     AUG 15,2013
ML TAX1 PX HIST REMDEF
ML TAX2 ICD ALL REMDEF
                                                     AUG 15,2013
                                                     AUG 15,2013
ML TAX3 PX NONE REMDEF
                                                     AUG 15,2013
ML TAX4 ICD10 ALL REM DEF
MSL ALTERNATE TEXT TEST
                                                     DEC 11,2013
ML INACTIVE TAX RD TEST
                                                      JAN 28,2014
ML DOSAGE/ALTERNATE TEXT TEST
                                                      JAN 31,2014
```

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//
```

HT Previous Enrollment Health Factor Search

This option will search the Clinical Reminders Index for any occurrences of the HT ENROLLMENT-START DATE (PREV ENROLL) health factor. For any occurrence found, the report will output the patient name, SSN, and visit date.

Cover Sheet Reminder Report

This option runs the <u>Cover Sheet Reminder Report</u>. It provides the ability to determine what reminders are in a cover sheet list.

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 to develop a formal mechanism for reporting on outreach activities, and to require the 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) has requested VistA enhancements to support the screening of all Veterans (men and women) for MST, the 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 has provided guidance in the screening, tracking, and documentation of MST for all enrolled Veterans who utilize VHA. Additionally, a "Best Practice" manual has 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 it 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 an MST status and assists with the entry of MST 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. 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 another 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

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

Edit Web Sites Example

```
Select Reminder Parameters Option: ews Edit Web Sites
Choose from:
    http://example.notreal.va.gov/reminders
    http://secondexample.va.gov/cpg/cpg.htm
Select URL: ?
    Answer with WEB SITES URL
    Choose from:
    http://example.notreal.va.gov/reminders
    You may enter a new WEB SITES, if you wish
    Enter the URL for the web site.
    Select URL: http://example.notreal.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 REDACTED, 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 a medium-sized site, the Index global was used to build a list of all patients with a diabetic diagnosis in the last five years 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: a base list for building other patient lists, reminder extract reports, input to reminder due 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
٠	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 a reminder term have a Global Index for acrosspatient 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.

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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
                                                                      1 of
                                                                              4
                                                             Page:
         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 a 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:

<u>List R</u>	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 I	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 C	Change View TEST Test Rule Set			
CR C	Create Rule QU Quit			
DR D	Display/Edit Rule			
Select	t 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
```

List R	ale Management Jun 01, 2006@08:55:48 Page	e: 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 C	nange View TEST Test Rule Set	
CR C	reate Rule QU Quit	
DR D	isplay/Edit Rule	
Select	Item: Quit//	

If we select the finding rule view, then the display changes to show the newly selected view.

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

	er User Patien		Jun 01, 2006@12:08:18	Page:	l of 7
Availa	ble Patient Li	sts.			
Item	Reminder Patie	ent 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 Scr	een - P	Prev Screen ?? More Act:	ion	
CO C	opy Patient Li:	st DE	Delete Patient List C	V Change View	
COE C	opy to OE/RR Te	eam DCD) Display Creation Doc L	RM List Rule Mana	agement
CR C	reate Patient 1	List DSP	• Display Patient List Q	U Quit	
Select	Item: Next Sc:	reen//			

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.

Remind	er User Patient Lis	t Sep 27,	2005@09:36:05		Page:	1 of	8
Availa	ble Patient Lists.						
+Item	Reminder Patient L	ist Name		Туре	Access		
5	AGP IHD EXTRACT WI	TH QUALIFY VI	SIT	PVT	F		
6	AGP IHD QUERI PTS	WITH QUALIFY	AND ANCHOR VIS	S 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 M	10 BP		PVT	V		
	+ Next Screen	- Prev Scree	n ?? More Ad	ction			
CO C	opy Patient List	DE Delete	Patient List	CV Cha	ange View	I	
COE C	opy to OE/RR Team	DCD Display	Creation Doc	LRM Lis	st Rule M	lanagemen	t
CR C	reate Patient List	DSP Display	Patient List	QU Qu	it		
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
0	EDT	Sep 30, 2005		Blank or T		Sep 30, 2005
10	BDT	Sep 01, 2005		BDT-6M		Mar 01, 2005
10	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
12	EDT	Sep 01, 2005 Sep 30, 2005		Mar 28, 2001		Mar 28, 2003
10		Son 04, 0005		Apr 00, 0004		Apr 00, 2004
13	BDT EDT	Sep 01, 2005 Sep 30, 2005		Apr 09, 2001 0 (zero)		Apr 09, 2001 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 EDT	Sep 01, 2005 Sep 30, 2005	T-1Y T	BDT-6M BDT	T-1Y T-6M	Sep 30, 2004 Mar 31, 2005
20	BDT EDT	Sep 01, 2005 Sep 30, 2005	Apr 09, 2001 Feb 28, 2002		T-2Y Blank or T	Sep 30, 2003 Sep 30,2005
21	BDT EDT	Sep 01, 2005 Sep 30, 2005	T-2Y 0 (zero)		T-1Y T-6M	Sep 30, 2004 Mar 31, 2005
22	BDT EDT	Sep 01, 2005 Sep 30, 2005		Apr 09, 2001 Feb 28, 2002	Jun 01, 2003 Jul 25, 2004	Jun 01, 2003 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 List Build beginning date/time and T values are replaced with the List Build beginning 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: LOO Sponsor: Date Created: Review Date:	CAL	
Description:		
Edit History:		
Edit Date: JUN 3,2005 Edit Comments:	09:54 Edit By:	
Findings:		
5	Item: VA-DIABETES (FI(1)=TX(28)) 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.

<u>List R</u>	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 QUAL	IFYING PC VISIT	NATIONAL
7	VA-*MH QUERY QUAL	IFYING MH VISIT	NATIONAL
	+ Next Screen	- Prev Screen ?? More Actions	>>>CV
Change	View	TEST Test Rule Set	
CR C	reate Rule	QU Quit	
DR D	isplay/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 R	ule Management Jun 03, 2005@10:41:33	Page: 1 of 1
	Finding Rule Name	Class
<u></u>	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 C	reate Rule QU Quit	
DR D	isplay/Edit Rule	
	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 R	ule Management Jun 03, 2005@10:42:11 Page: 1 of	1
	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 C	reate Rule QU Quit	
DR D	isplay/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 R	ule Management Jun 03, 2005@11:08:58 Page	e: 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 C	reate Rule QU Quit	
DR D	isplay/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 R	ule 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 I	LLA MEDS	NATIONAL
5	VA-*IHD QUERI	PTS WITH QUALIFY VISIT		NATIONAL
6	VA-*MH QUERI Q	JALIFYING PC VISIT		NATIONAL
	+ Next Scre	en - Prev Screen ?? More Actions		>>>CV
Change	View	DR Display/Edit Rule		
CR C	reate Rule	QU Quit		
Select	Item: Quit// C	R 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 R	ule 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 C	reate 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.

Reminde	er User Pat	ient List	Aug 1	LO, 2005	6015:02:2	21	Page:	1 of	1
Availab	le Patient	: Lists.							
Item	Reminder P	atient Li	st Name				Created	Patie	nts
1	VA-*IHD QU	JERI 2001 I	412 1	PTS WITH	A QUALIFY	ΥA	8/5/05@11:12:16		0
2	VA-*IHD QU	JERI 2001 I	412 1	PTS WITH	A QUALIFY	ΥA	8/5/05@11:12:16		0
3	VA-*IHD QU	JERI 2001 I	MO1 PTS N	VITH QUA	ALIFY ANI	DΑ	8/5/05@11:12:16		0
4	VA-*IHD QU	JERI 2001 I	MO1 PTS N	VITH QUA	ALIFY ANI	DΑ	8/5/05@11:12:16		0
5	VA-*IHD QU	JERI 2001 I	MO1 PTS N	VITH QUA	LIFY VIS	SIT	8/5/05@11:12:16		0
6	VA-*IHD QU	JERI 2005 I	M1 412 P	CS WITH	QUALIFY	AN	8/5/05@11:19:42		0
7	VA-*IHD QU	JERI 2005 I	M1 412 P	CS WITH	QUALIFY	AN	8/5/05@11:19:43		0
8	VA-*IHD QU	JERI 2005 I	M1 PTS W	TH QUAI	JIFY AND	AN	8/5/05@11:19:42		0
9	VA-*IHD QU	JERI 2005 I	M1 PTS W	TH QUAI	JIFY AND	AN	8/5/05@11:19:42		0
10	VA-*IHD QU	JERI 2005 I	M1 PTS W	TH QUAI	JIFY VISI	ΙT	8/5/05@11:19:42		0
	+ Next Screen - Prev Screen ?? More Actions >>>>CO								
Сору Ра	tient List	DE I	Delete Pa	atient I	List CV	Ch	ange View		
COE Co	py to OE/R	RR Team	DCD Disp	olay Cre	eation Do	oc LF	RM List Rule Ma	nagement	t
CR Cr	eate Patie	ent List	DSP Disp	olay Pat	ient Lis	st QU	J Quit		
Select	Item: Quit	:// CR C	reate Pat	tient Li	st				

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 which 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.

Remind	er User Patient	t List	Aug 10,	2005@15:	02:53	Page:	1 of <u>1</u>
Availa	Available Patient Lists.						
Item	Reminder Patie	ent List	Name			Created	Patients
1	DIABETIC PATIE	ENTS 5Y				8/10/05@15:02:52	2
2	VA-*IHD QUERI	2001 M01	412 PTS	WITH QUA	LIFY A	8/5/05@11:12:16	0
3	VA-*IHD QUERI	2001 M01	412 PTS	WITH QUA	LIFY A	8/5/05@11:12:16	0
4	VA-*IHD QUERI	2001 M01	PTS WIT	H QUALIFY	AND A	8/5/05@11:12:16	0
5	VA-*IHD QUERI	2001 M01	PTS WIT	H QUALIFY	AND A	8/5/05@11:12:16	0
6	VA-*IHD QUERI	2001 M01	PTS WIT	H QUALIFY	VISIT	8/5/05@11:12:16	0
7	VA-*IHD QUERI	2005 M1	412 PTS 1	WITH QUAL	IFY AN	8/5/05@11:19:42	0
8	VA-*IHD QUERI	2005 M1	412 PTS 1	WITH QUAL	IFY 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 Scre	een - P	rev Scre	en ?? M	ore Act	ions	>>>CO
Сору Р	atient List	DE Del	ete Pati	ent List	CV C	Change View	
COE C	opy to OE/RR Te	eam DCD	Displa	y Creatio	n Doc L	RM List Rule Man	agement
CR C	reate Patient 1	List DSP	Displa	y Patient	List Q	QU QuitSelect It	em: 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

	ole Patient Lists.			
	Reminder Patient List Name	Created		
	AGP 1	7/10/05@19:55:43		
	AGP CREATED REMINDER REP	7/26/05@13:48:23		
	AGP EXTRACT TEST	7/1/05011.00	0	
4	AGP IHD EXTRACT WITH QUALIFY VISIT	7/1/05@11:03	0	
	AGP IHD QUERI PTS WITH QUALIFY AND ANCHOR VIS	//1/05011:03:02	0	
	AGP OE/RR TEAM 1	7/10/05@20:51:42		
	AGP OERR TEAM LIST	7/10/05@20:47:17	16	
	AGP REMINDER TEST	7/25/05@11:17:24		
9	AGP REPORT TEST OF PURGE	7/19/05@16:06:35		
10	AGP T4	7/10/05@20:05:02 7/25/05@11:48:36	24	
	AGP TEST REMINDER 1			
12	AGP TEST REMINDERS 2	7/25/05@12:01:46		
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	
DE Co R Ci	t List DE Delete Patient List CV Change opy to OE/RR Team DCD Display Creation Doc L reate Patient List DSP Display Patient List Q Item: Next Screen// CR Create Patient List	RM List Rule Mana	agement	
OE Co R C elect elect Are	opy to OE/RR Team DCD Display Creation Doc L reate Patient List DSP Display Patient List Q	RM List Rule Mana	agement	
OE C R C elect elect Are	opy to OE/RR Team DCD Display Creation Doc L reate Patient List DSP Display Patient List Q Item: Next Screen// CR Create Patient List PATIENT LIST name: DIAB PTS W/O DIAB EYE EXAM you adding 'DIAB PTS W/O DIAB EYE EXAM' as	RM List Rule Mana	agement	
COE COE CR C: Select Gelect Are a Secure	bpy to OE/RR Team DCD Display Creation Doc L reate Patient List DSP Display Patient List Q Item: Next Screen// CR Create Patient List PATIENT LIST name: DIAB PTS W/O DIAB EYE EXAM you adding 'DIAB PTS W/O DIAB EYE EXAM' as new REMINDER PATIENT LIST? No// Y (Yes)	RM List Rule Mana	agement	
COE CO CR C: Select Select Are : a : Secure Secure Select 1 2	bpy to OE/RR Team DCD Display Creation Doc L reate Patient List DSP Display Patient List Q Item: Next Screen// CR Create Patient List PATIENT LIST name: DIAB PTS W/O DIAB EYE EXAM you adding 'DIAB PTS W/O DIAB EYE EXAM' as new REMINDER PATIENT LIST? No// Y (Yes) list?: N// O	RM List Rule Mana U Quit	agement	
COE CO CR C: Celect Are can eecure Purge content celect 1 2 HOOSE	bpy to OE/RR Team DCD Display Creation Doc L reate Patient List DSP Display Patient List Q Item: Next Screen// CR Create Patient List PATIENT LIST name: DIAB PTS W/O DIAB EYE EXAM you adding 'DIAB PTS W/O DIAB EYE EXAM' as new REMINDER PATIENT LIST? No// Y (Yes) list?: N// O Patient List after 5 years?: N// O LIST RULE SET: RS-DIAB RS-DIAB PTS W/O DIAB EYE EXAM RULE SET RS-DIABETIC PATIENTS RULE SET	RM List Rule Mana U Quit	agement	
COE CO CR C: Select Select Are Purge Select 1 2 CHOOSE Enter	bpy to OE/RR Team DCD Display Creation Doc L reate Patient List DSP Display Patient List Q Item: Next Screen// CR Create Patient List PATIENT LIST name: DIAB PTS W/O DIAB EYE EXAM you adding 'DIAB PTS W/O DIAB EYE EXAM' as new REMINDER PATIENT LIST? No// Y (Yes) list?: N// O Patient List after 5 years?: N// O LIST RULE SET: RS-DIAB RS-DIAB PTS W/O DIAB EYE EXAM RULE SET RS-DIABETIC PATIENTS RULE SET 1-2: 1 RS-DIAB PTS W/O DIAB EYE EXAM RULE Patient List BEGINNING DATE: T-5Y (AUG 11, 200	RM List Rule Mana U Quit	agement	

Reminder User Patient List Aug 11, 2005@14:23:08	Page: 1 o	f 8	
Available Patient Lists. Item Reminder Patient List			ated
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 Act	tions	>>> <mark>CO</mark>	Сору
Patient List DE Delete Patient List CV Change	e View		
COE Copy to OE/RR Team DCD Display Creation Doc I		ment	
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:

Reminde	er User Patient List Sep 29, 2005@10:25:44	Page: 1 of	8
Availab	ole Patient Lists. Item Reminder Patient List		Created
Patient			
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)	7/6/05009:51:42	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 Ac	tions	>>>>CO Copy
Patient	: List DE Delete Patient List CV Chang	e View	
COE Co	ppy to OE/RR Team DCD Display Creation Doc 3	LRM List Rule Managem	nent
CR CI	reate 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.

Remind	ler Patient List	Sep 29, 2005@15:08:1	7 Page: 1 of	1
List N	lame: PKR PUB (22 pa	tients)		—
Creat	ed: 09/29/2005@10:1	9:51 Creator: CH	RPROVIDER, THREE	
Class	: Local	Type: PUBLI	IC	
Sourc	e: List Rule - RS-D	IABETIC 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 A	Actions	>>>CV
Change	e View DEM	Demographic Report QU	Quit	
HSA H	lealth Summary All	ED Edit Patient List		
HSI H	lealth 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

Demogr	aphic Report				
Remind	er Patient List	Feb 22, 2006@18:14:03	Page:	1 of	2
	ame: Diabetic Eye Exam				
Creat	ed: 08/11/2005015:16:	44 Creator: CRPROV	/IDER,ONE		
Class	: Local	Type: PUB			
Sourc	e: Reminder Due Repor	t			
	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			
HSA H	hange View ealth Summary All	Prev Screen ?? More Actic DEM Demographic Report QU ED Edit Patient List			>>>
	ealth Summary Ind U Item: Next Screen// 1	SR (View Users) DEM Demographic Report			
Select	the items to include	on the report.			
1 - C	from the following a URRENT ADDRESS HONE NUMBER	ddress items:			
	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 Eve 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 Reports 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 Reminders 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 REDACTED, Clinical Product Support

The purpose of this section is to help you learn the mechanics of extracts and how all the pieces fit together to give you the desired results.

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 \textcircled . 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.

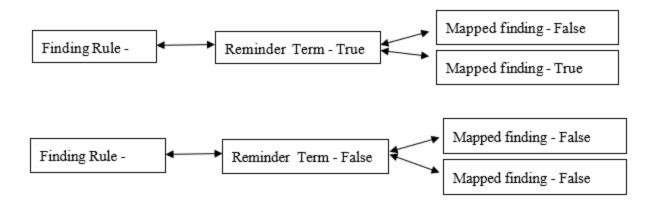
```
LIST RULE BEGINNING DATE/TIME:
LIST RULE ENDING DATE/TIME:
Input your edit comments. Edit? NO//
```

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. <u>How do I find out what type of CF I have</u>?

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 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.

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 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. 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.

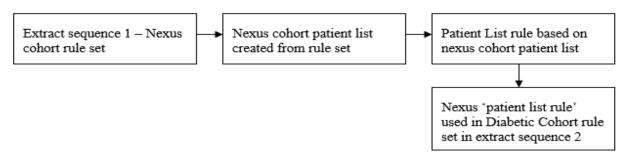
Maybe a picture will be worth a thousand words:

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
```

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: <<u>ADDPATIENT</u>>FINDING RULE 1<<u>SELECT</u>>FINDING RULE 2<<u>REMOVE</u>>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 *List Rule* Operator List Rule

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 TIME FRAME 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
             MONTHLY
      М
      Y
             YEARLY
REPORT FREQUENCY: M MONTHLY
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
    3RS NEXUS IMMUNIZATION REPORT FY08RULE SET4RS NEXUS WITH DM OR IHD AND VETERANRULE SET
    4
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 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
      RS FACILITY CARDIOVASCULAR MEASURES
    3
                                           RULE SET
                                              RULE SET
    4
       RS FACILITY CARDIOVASCULAR MEASURES (Q)
    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
       DM A1C<7.0 (X) LOCAL
    2
                           LOCAL
       DM A1C>9.0 (X)
    3
       DM BP <130&<80 (X) LOCAL
    4
       DM BP <140&<90 (X)
    5
                               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: \leftarrow \text{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
    4DM A1C DONEZTUS DM AND A1C DONE (RPT)LOCAL5DM A1C>9.0HGBA1C>9.0LOCAL
    5
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.

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 679/DM A1C W/I LAST YEAR	Total 807	Appl. 807	N/A	Due 74	Not Due 733
679/DM AIC W/I LASI TEAR 679/DM AIC>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, your 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")
        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
                                                  \leftarrowset the date to run after the first
of the next month. Make sure it doesn't conflict with any other tasks
DEVICE FOR OUEUED 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. You will only need to get the results from the Extract menus, as described above

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 a 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 REDACTED, which will require you to enter your national access username e.g: User: VHAXXXXX\vhaisxxxx Password: enter your national password

 Register for access to Austin system to get customer ID and initial logon password Go to the Austin Information Technology Center web page. Select Publications and Forms on the service desk webpage Under the Forums category: Select VA FORM 9957

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 Order Check 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 is 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.

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.

The Reminder Order Check Menu...[PXRM ORDER CHECK MENU] contains five options:

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

Clinical Reminder Live	Off
Clinical Reminder Test	On

- 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. This includes CONTRA and REFUSED.

- 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.

Order Checking	
(1 of 1) Diagnosis of Glaucoma Use of first generation antihistamines is contraindicated in the presence of narrow angle glaucoma	
Accept Order Cancel Order	See Monograph

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:

An 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's 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

Order Checking	
(1 of 1) Glyburide Contraindicated 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.	
Laboratory test: CREATININE; specimen: SERUM 11/17/2009 value - 2.5 H	
Accept Order Cancel Order	See Monograph

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

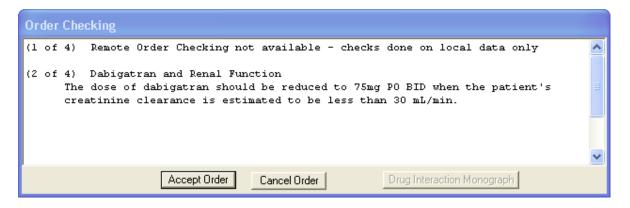
Problem:

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

Status	Result
Т	Only Testing order checks display in CPRS and in the testing rules section of the reminder order check test option (VistA)
Р	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)

For testing purposes, the status flag needs to be set to T.

Reminder Order Check Items Inquiry Example: VA-TERATOGENIC MEDICATIONS ORDER CHECK (CAT X)

S <u>ELECT</u> R <u>EMINDER</u> M <u>ANAGERS</u> M <u>ENU</u> O <u>PTION</u> : ROC R <u>EMINDER</u> O <u>RDER</u> C <u>HECK</u> M <u>ENU</u>
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
I <u>NQUIRY</u> S <u>ELECT</u> R <u>EMINDER</u> O <u>RDER</u> C <u>HECK</u> I <u>TEMS</u> G <u>ROUP</u> <u>BY</u> <u>ONE</u> <u>OF</u> <u>THE</u> <u>FOLLOWING</u> :
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
R <u>EMINDER</u> O <u>RDER</u> C <u>HECK</u> I <u>TEM</u> G <u>ROUP</u> : 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) N<u>O</u>. 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 N<u>O</u>. 8 CLASS: NATIONAL SPONSOR: REVIEW DATE: **GROUP** DESCRIPTION: PHARMACY ITEM LIST: DG.ACETAMINOPHEN/BUTALBITAL ORDERABLE ITEM LIST: R<u>EMINDER</u> R<u>ULE</u> L<u>IST</u>: 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:

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

Appendix A: Glossary

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, 9 th Edition, Clinical Modifications
ICD-10, CM	International Classification of Disease, 10 th 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

VIMM	VistA Immunization Enhancements
VISN	Veterans Integrated Service Networks
VistA	Veterans Health Information System and Technology Architecture

Definitions

Term	Definition
Applicable	A reminder is applicable when the Patient Cohort Logic is true.
Boolean Logic Operators	Boolean operators are used to write logic strings such as CUSTOMIZED COHORT LOGIC. The operators are: ! (OR), & (AND), !' (OR NOT), and &' (AND NOT)
CNBD	Reminder evaluation status of 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 who the reminder applies to: cohort logic, and what resolves the reminder: resolution logic, for a given clinical activity. The logic uses VistA patient data 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:

Term	Definition
	<pre>FIEVAL(5, "CSUB", "DURATION")=1774 FIEVAL(5, "CSUB", "ORDER")=3366^CA ULTRA^546;99RAP FIEVAL(5, "CSUB", "RELEASE DATE")=3010917.1625 FIEVAL(5, "CSUB", "STATT DATE")=3010917 FIEVAL(5, "CSUB", "STATUS")=PENDING FIEVAL(5, "CSUB", "VALUE")=FENDING Each of the subscripts following "CSUB" may be used in a Condition (hence</pre>
	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
Dialog Group	would not be defined in dialog elements.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., or if the last time the reminder was resolved has exceed the frequency.
Finding Item	A Finding Item is a piece of patient data that can be searched for 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 for which no standard code exists.
Mental Health Assistant	The Mental Health Assistant is a national VA software package that is used for administration and scoring of standardized of both self-reported and professionally administered questionnaires and tests. It is integrated with clinical reminders in that some 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.

Term	Definition
PXRM Reminder Component	Clinical Reminder package namespace 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.
Reminder Exchange	The Clinical Reminders Exchange Utility provides a mechanism for sharing entries from any the the Clinical Reminders files including 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	This 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	A reminder finding is a data element in the Veterans Health Information and Technology Architecture (VistA). Findings include data elements in files 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 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.

Term	Definition
Reminder Term	A reminder term is a finding item that groups other findings. They can be 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 and testing 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.
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.

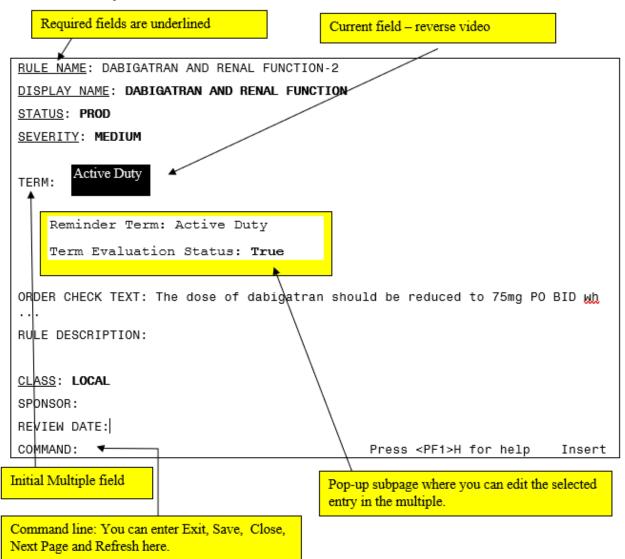
ScreenMan Overview

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.*

Example of a ScreenMan Screen

Elle Edit Connection Setup Macro Productivity Help	Search	
GROUP NAME: VA-WH HIRISK CONTRACEPTIVES GROUP		^
ORDER CHECK ITEM LIST (39 entries) REMINDER ORDER CHECKS RULES LIST (1 entry)		
CLASS: NATIONAL SPONSOR: Women Veterans Health Program REVIEW DATE: Press Enter to edit the Order Check Item List.		
297.22 00:16:09 Connected to the host (VT500-7)	Press <pf1>H for help Insert</pf1>	•

ScreenMan Descriptions



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:

То	Press	
Move to the next field (to right or below).	<tab></tab>	
Move to the previous field (to left or above).	<pf4></pf4>	
Move to the field above.	<arrowup></arrowup>	
Move to the field below.	<arrowdown></arrowdown>	
Move to the next field in the pre-defined edit	<enter></enter>	
sequence.		
Edit a WORD-PROCESSING field.	At field, press <enter></enter>	
Select a Subrecord in a Multiple.	At field, press <enter></enter>	
Move to the next block on current page.	<pf1><pf4></pf4></pf1>	
Jump to a specific field.	^ followed by Caption of field and <enter></enter>	
Jump to the Command Line.	^ <enter></enter>	
Move to next page	<pf1><arrowdown> or</arrowdown></pf1>	
	<pagedown></pagedown>	
Move to previous page	<pf1><arrowup> or</arrowup></pf1>	
	<pageup></pageup>	
Move to a page you specify	<pf1>P</pf1>	

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).

Some very useful shortcuts are: Pressing Num Lock then C will close a screen. Pressing Num Lock then E will save and exit. Pressing Num Lock then Q will quit, no changes are saved. Note that <PF1> means press Num Lock.

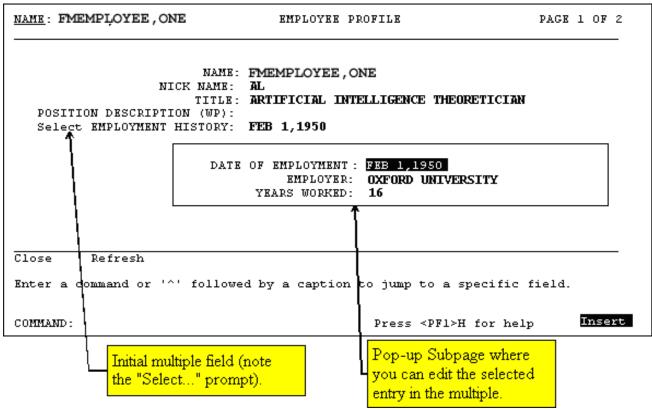
Word-Processing Fields

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) <u>RULE NAME:</u> DABIGATRAN AND RENAL FUNCTION <u>DISPLAY NAME</u>: DABIGATRAN AND RENAL FUNCTION <u>ACTIVE FLAG</u>: YES <u>TESTING FLAG</u>: YES <u>SEVERITY</u>: 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:

DOUTPUT 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=H<u>ELP</u>]

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.

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:
                Refresh
Exit
       Save
Enter a command or '^' followed by a caption to jump to a specific
field.
                                   Press <PF1>H for help Insert
COMMAND:
```

3. Create an Order Check Item Group

Got to here 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/O): N// OUIT

- 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.

Options		?	
General Notifications Order Checks Order Checks Enable or disat You can turn on or off these notification	ble your or	der checks.	
Order Check	On/Off	Comment	^
 Allergy-Contrast Media Interaction Allergy-Drug Interaction Aminoglycoside Ordered Biochem Abnormality For Contrast Clinical Reminder Live Clinical Reminder Test Clozapine Appropriateness 	On On On On On On		
 Critical Drug Interaction Ct & Mri Physical Limitations Dangerous Meds For Pt > 64 Dispense Drug Not Selected 	On On On	Mandatory	*
[OK	Cancel Apply	

- 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
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

Appendix C: Measurements

A measurement consists of two parts, a number and units. Patch PX*1*211 added measurement definition fields to Education Topics, Exams, and Health Factors. Patch PX*1*217 added additional fields that facilitate storing and displaying measurements. When a measurement is recorded in a V-file, the number is stored in the MAGNITUDE field and the unit is stored in the UCUM CODE field. The measurement definition fields are:

MINIMUM VALUE – When a measurement is defined, MINIMUM VALUE and MAXIMUM VALUE sets the inclusive range for the magnitude.

MAXIMUM VALUE - When a measurement is defined, MINIMUM VALUE and MAXIMUM VALUE sets the inclusive range for the magnitude.

MAXIMUM DECIMALS - The maximum number of decimal digits that can be entered for the magnitude.

UCUM CODE – This is the unit for the measurement, it is selected from the Universal Code for Units of Measurement (UCUM) file #757.5. From the UCUM website:

"The Unified Code for Units of Measure (UCUM) is a code system intended to include all units of measures being contemporarily used in international science, engineering, and business. The purpose is to facilitate unambiguous electronic communication of quantities together with their units. The focus is on electronic communication, as opposed to communication between humans. A typical application of The Unified Code for Units of Measure are electronic data interchange (EDI) protocols, but there is nothing that prevents it from being used in other types of machine communication."

Because UCUM is an international standard, using it facilitates interoperability of measurement data.

PROMPT CAPTION - This field stores the prompt that displays in CPRS Reminder Dialogs when the Education Topic, Exam, Health Factor, or Reminder Taxonomy is used as a finding item.

UCUM DISPLAY - This field specifies how the unit is presented when a measurement is displayed in CPRS, Clinical Reminders, and Health Summary. When the value is C, the UCUM Code is displayed when the value is D, the Description is displayed. When the value is N, no units are displayed. When you are setting UCUM DISPLAY, typing a "?", will list the UCUM code and description to help you decide which to use.

When defining a measurement, all of these fields must be set.

Patch PX*1*211 added the fields MAGNITUDE and UCUM CODE to the V Exam, V Health Factors, and V Patient Ed files. When a measurement is recorded that is where it is stored. If a measurement has been recorded in one of these V-files, it will be returned as a CSUB named "MEASUREMENT". The first ^ separated piece is the magnitude and the second piece is the pointer to the UCUM Codes file #757.5.

As of CPRS v 32B, measurements can be entered through Reminder Dialogs and Encounter Forms. They can also be entered using the PCE List Manager interface in VistA. When a user enters a measurement, the only field they enter is magnitude and the value they enter must be in the inclusive range defined by minimum value and maximum value, with no more decimal digits than maximum decimals. The unit is set automatically to the UCUM code in the definition.

Appendix D: Contraindications, Precautions, and Refusals

Introduction

When a reminder definition containing immunization findings is evaluated, the VIMM CONTRA/REFUSAL EVENTS file, #9000010.707, is automatically queried for active contraindications, refusals, and precautions (C/R), for each immunization finding in the definition.

Possible active C/R statuses for an immunization finding are CONTRA, PRECAUTION, and REFUSED. A C/R is active until its WARN UNTIL DATE has been passed. If there is no WARN UNTIL DATE, the C/R is permanent. For computational purposes, the WARN UNTIL DATE of permanent C/Rs is represented as a 0.

For terms mapped to immunization findings:

- If at least one of the mapped findings does not have an active C/R, the term will not have a C/R status.
- If all the mapped findings have an active contraindication, the C/R status of the term is CONTRA.
- If all the mapped findings have an active refusal, the C/R status of the term is REFUSED.
- If some of the mapped findings have an active contraindication, while the rest have an active refusal, the C/R status of the term is REFUSED.
- If the term does not have a C/R status of either CONTRA or REFUSED, but there are mapped findings with a C/R status of PRECAUTION, the term will have a C/R status of PRECAUTION

When there are immunization findings with active C/Rs, the finding evaluation array, FIEVAL, can have CONTRA, PRECAUTION, and REFUSED nodes, depending on what active C/Rs were found. The FIEVAL C/R nodes will exist only when active C/Rs are found. The first number following the C/R subscript is the finding number and the second number is the occurrence.

When there is an active contraindication, it will look like this in Reminder Test:

FIEVAL("CONTRA",1)=1 FIEVAL("CONTRA",1,1,"COMMENTS")= FIEVAL("CONTRA",1,1,"DATE")=3210514.09 FIEVAL("CONTRA",1,1,"REASON")=SEVERE REACTION PREVIOUS DOSE FIEVAL("CONTRA",1,1,"WUDT")=0

In the example above, the WARN UNTIL DATE, "WUDT", is 0, meaning the contraindication is permanent.

When there is an active precaution, it will look like this in Reminder Test:

FIEVAL("PRECAUTION",1,1)=1 FIEVAL("PRECAUTION",1,1"COMMENTS")= FIEVAL("PRECAUTION",1,1"DATE")=3181022.090211 FIEVAL("PRECAUTION",1,1"REASON")=CURRENT FEVER FIEVAL("PRECAUTION",1,1"WUDT")=3181023

When there is an active refusal, it will look like this in Reminder Test:

FIEVAL("REFUSED",2)=1 FIEVAL("REFUSED",2,1,"COMMENTS")= FIEVAL("REFUSED",2,1,"DATE")=3220111.09 FIEVAL("REFUSED",2,1,"GROUP REFUSAL")=Patient has refused all vaccines in the group. FIEVAL("REFUSED",2,1,"REASON")=PATIENT DECISION FIEVAL("REFUSED",2,1,"WUDT")=0 FIEVAL("REFUSED",2,2,"COMMENTS")= FIEVAL("REFUSED",2,2,"DATE")=3220210.07 FIEVAL("REFUSED",2,2,"GROUP REFUSAL")=Patient has refused all vaccines in the group. FIEVAL("REFUSED",2,2,"REASON")=PATIENT DECISION FIEVAL("REFUSED",2,2,"REASON")=PATIENT DECISION FIEVAL("REFUSED",2,2,"WUDT")=0

In the REFUSED example above, finding 2 has two refusals, the first one on January 11, 2022 and the other on February 10, 2022.

The subscripts are:

DATE - the date the C/R was recorded.

REASON – the reason for the C/R. For contraindications this is an entry from file #920.4, IMM CONTRAINDICATION REASONS. For refusals this is an entry from file #920.5, IMM REFUSAL REASONS.

COMMENTS – comments added by the provider when they recorded the C/R.

GROUP REFUSAL – if there was a group refusal for the immunization, this subscript is set with the text "Patient has refused all vaccines in the group."

WUDT – the warn until date, the C/R is active until the WUDT has been passed. If the WUDT is 0 the C/R is permanent. Note, that when recording a C/R in CPRS, the label for WARN UNTIL DATE is "Cancel Series and Stop Forecasting", this is because the Office of Nursing Services wanted the same label as in Cerner.

A section for displaying contraindications, precautions, and refusals has been added to the Clinical Maintenance output. This is how they appear for the above FIEVAL arrays:

Contraindications

Immunization: HEP A, ADULT

05/14/2021@09:00 Reason: SEVERE REACTION PREVIOUS DOSE, is permanent.

Precautions

Immunization: HEP A, ADULT 10/22/2018@09:02:11 Reason: CURRENT FEVER, expires 10/23/2018.

Refusals

Immunization: INFLUENZA, INJECTABLE, QUADRIVALENT 01/11/2022@09:00 Reason: PATIENT DECISION, is permanent. Patient has refused all vaccines in the group. 02/10/2022@07:00 Reason: PATIENT DECISION, is permanent. Patient has refused all vaccines in the group.

CONTRAINDICATED LOGIC and REFUSED LOGIC

A CONTRAINDICATED LOGIC string and a REFUSED LOGIC string have been added, they are used to determine if the evaluation status should be CONTRA or REFUSED. They work just like the CUSTOMIZED PATIENT COHORT LOGIC and CUSTOMIZED RESOLUTION LOGIC. If the

CONTRAINDICATED LOGIC is true, the evaluation status is CONTRA. If the CONTRAINDICATED LOGIC is false and the REFUSED LOGIC is true, the evaluation status is REFUSED.

Note that precautions cannot be used in the CONTRAINDICATED LOGIC or REFUSED LOGIC; therefore, they will not change the evaluation status. Their purpose is to provide patient information, to the provider, that should be taken into consideration when deciding whether or not the immunization should be given to the patient.

Contraindications and Refusals in Function Findings

The following function finding functions have been enhanced so they can use the data in the FIEVAL("CONTRA") and FIEVAL("REFUSED") nodes. This provides the mechanism to use C/Rs in the CONTRAINDICATED LOGIC and REFUSED LOGIC.

COUNT DIFF_DATE DTIME_DIFF DUR FI MAX_DATE MIN_DATE MRD VALUE

For these functions, when you want to use CONTRA or REFUSED data, precede the finding number with a C or R, respectively.

In this example: DTIME_DIFF(C1,1,"DATE",R2,2,"DATE","M"), the first date is the when the first contraindication for finding 1 was recorded. The second date is when the second refusal for finding 2 was recorded.

The following functions are only applicable for numeric values, so they were not changed and cannot use CONTRA or REFUSED data.

MAX_VALUE MIN_VALUE NUMERIC

CONTRAINDICATED LOGIC and REFUSED LOGIC Examples

Consider the simple case of a reminder that is resolved by a single immunization, let's say it is finding 2. To determine if it is contraindicated: The function string for function finding 1 is: FI(C2)

The CONTRAINDICATED LOGIC is: FF(1)

To determine if it is refused: The function string for function finding 1 is: FI(R2) The REFUSED LOGIC is: FF(2)

The way sites want refusals for FLU to work requires more complex logic than in the simple examples shown above.

1. During flu season, it takes 2 recorded refusals in a 30-day period to resolve the reminder until the 30 days had elapsed from the first entry

2. At the end of flu season, which is usually in April or May, and the sites record that date in a term in the reminder, then after that date, any prior single refusal during flu season resolves the reminder until the date that the new flu season starts.

For this example, we assume finding 1 is the immunization finding that resolves the reminder, the date of finding 2 is the flu season start date, and the date of finding 3 is the flu season end date. PXRMDATE is the global reminder variable equal to the reminder evaluation date and time. The REFUSED LOGIC can be written using two function findings, one for during flu season and one for after flu season.

The function finding for during flu season (assume it is FF10) is:

(PXRMDATE'>FLU END)&(PXRMDATE'<FLU START)&(COUNT(R1)>1) &(DTIME DIFF(R1,1,"DATE",R1,2,"DATE","D","A")<31)

Replacing FLU START and FLU END with the corresponding findings:

(PXRMDATE'>MRD(3))&(PXRMDATE'<MRD(2))&(COUNT(R1)>1) &(DTIME DIFF(R1,1,"DATE",R1,2,"DATE","D","A")<31)

The function finding for after flu season (assume it is FF11) is:

(MRD(R1)'>MRD(3))&(MRD(R1)'<MRD(2))&(PXRMDATE>MRD(3))&(COUNT(R1)>0)

The REFUSED LOGIC is FF(10)!FF(11)

DUE DATE When CONTRAINDICATED LOGIC or REFUSED LOGIC is True

When the C/R is permanent, then the DUE DATE is NEVER.

When the C/R is not permanent:

If the calculated due date is after the C/R has expired, The DUE DATE is the calculated due date. If the C/R expiration date is after the calculated due date, then the DUE DATE is the date the C/R is no longer active.

How Contraindications and Refusals are Applied to Immunizations

Some contraindications apply to more than one immunization. The immunizations a contraindication applies to can be found by examining the IMMUNIZATIONS LIMITED TO multiple in the IMM CONTRAINDICATION REASONS FILE, #920.4. For example, the contraindication LATEX ALLERGY applies to the following immunizations:

IMMUNIZATIONS LIMITED TO: HEP B, ADOLESCENT OR PEDIATRIC IMMUNIZATIONS LIMITED TO: DTAP IMMUNIZATIONS LIMITED TO: ANTHRAX IMMUNIZATIONS LIMITED TO: HEP B, ADULT IMMUNIZATIONS LIMITED TO: HEP B, DIALYSIS IMMUNIZATIONS LIMITED TO: HIB (PRP-OMP) IMMUNIZATIONS LIMITED TO: HEP A, ADULT IMMUNIZATIONS LIMITED TO: HEP A, PED/ADOL, 2 DOSE IMMUNIZATIONS LIMITED TO: HEP A-HEP B IMMUNIZATIONS LIMITED TO: DTAP-HEP B-IPV IMMUNIZATIONS LIMITED TO: TD (ADULT), 5 LF TETANUS TOXOID, PRESERVATIVE FREE, AD SORBED

IMMUNIZATIONS LIMITED TO: TDAP IMMUNIZATIONS LIMITED TO: ROTAVIRUS, MONOVALENT IMMUNIZATIONS LIMITED TO: DTAP-IPV

If a patient has a LATEX ALLERGY contraindication recorded for HEP A, ADULT they will have a LATEX ALLERGY contraindication for all the immunizations shown above, even though the contraindication was recorded only for HEP A, ADULT.

A refusal can be for a single immunization or for all the immunizations in the vaccine group. When there is a group refusal then all immunizations in the vaccine group will also be refused. The HepA group contains the following immunizations:

HEP A, UNSPECIFIED FORMULATION HEP A, ADULT HEP A, PED/ADOL, 2 DOSE HEP A, PED/ADOL, 3 DOSE HEP A-HEP B HEP A, PEDIATRIC, UNSPECIFIED FORMULATION HEP A-HEP B, PEDIATRIC/ADOLESCENT

If the patient has a group refusal recorded for HEP A, UNSPECIFIED FORMULATION, they will have a refusal for all the other immunizations in this group.

The vaccine groups an immunization belongs to can be found in the VACCINE GROUP NAME multiple of the IMMUNIZATION FILE, #9999999.14.

Some immunizations belong to more than one group. The immunization DTP-HIB belongs to the groups: HIB and DTAP. There are 14 immunizations in the HIB vaccine group and 14 in the DTAP vaccine group. A group refusal for DTP-HIB will apply to all the vaccines in both the HIB and DTAP vaccine groups.

The IMMUNIZATION FILE, #9999999.14 and the IMM CONTRAINDICATION REASONS FILE, #920.4 are both standardized and locked down, they are updated by NTRT data pushes. Therefore, both the Vaccine Group(s) an immunization belongs to can change as well as the immunizations in the IMMUNIZATIONS LIMITED TO multiple for a contraindication. The examples given above were current when this is written, but they could be changed at some point by an NTRT push.