Health Summary

Technical Manual

Version 2.7

October 2023

Department of Veterans Affairs (VA)

Office of Information and Technology (OIT)

Preface

The Health Summary package integrates clinical data from Veterans Health Administration Information Systems Architecture (VistA) ancillary packages into patient health summaries which can be viewed online or printed as reports.

This manual is intended to be used as a technical reference guide for IRM Service, ADPACs, and Clinical Coordinators.

NOTE: This manual has been revised to describe changes that have been made, through patches, to Health Summary V. 2.7 since its release in 1994.

Revision History

Revision Date	Page or Chapter	Description	Author
10/2023	23-24	GMTS*2.7*144: • Updates to GMTSU Routine - Updated NAME and GETRANGE comments, added FORMAT and LINE Entry Points	Department of Veterans Affairs
	48	• Deleted Appendix C - CPRS Program Oprations and Maintenance Responsible, Accountable, Consulted and Informed (RACI). Appendix C is now called Patch Overviews.	
	48	• Added Patch GMTS*2.7*144 Cleanup for Multiple Releases to Appendix C-Patch Overviews.	
09/2022	49	GMTS*2.7*115: • Added a description of Patch GMTS*2.7*115 to Appendix D-Patch Overviews	Department of Veterans Affairs
		• Under Released Patches for Health Summary 2.7, added GMTS*2.7*115	
	Global	• Updated Title page, TOC, and footers	
08/2022	49	GMTS*2.7*141: • Renamed Appendix D—Historical Documentation to Appendix D—Patch Overviews	
		• From Appendix D—Patch Overviews, removed Heading 'New Features in Health Summary'	
	76	• Added a description of Patch GMTS*2.7*141 to Appendix D—Patch Overviews	
	Global	• Updated Title page, TOC, and footers	
03/16/2020	Title, i, ii, Appendix D, all	GMTS*2.7*133: • Moved the section, **New Features in Health Summary**, into **Appendix D** for historical purposes • Updated the Title page, Revision History, and Footers	
12/31/2019	Title, 1, 72	GMTS*2.7*129: • Updated Title page, TOC, and f • ooters • Removed instances of Social Work	

06/14/2019	3, 30, 81, global	GMTS*2.7*125: Pg. 3, Under New Features in Health Summary, added description of GMTS*2.7*125 Pg. 30, under Released Patches for Health Summary 2.7, added GMTS*2.7*125 Pg. 81 Added RACI Reworded paragraph under 'Patch GMTS*2.7*125 Updates for Health Summary Components.' Revised date on Title page and in footers
09/14/2018	49, 75, 14, 45	Updated for GMTS*2.7*94. Added a summary of the patch. Added to a steps that discusses the availability of HS components and the menu option GMTS PS PS MED RECON CONFIG CHECK.
11/03/2017	i, i, ii, iii, 58, and 60	Updated for GMTS*2.7*120
09/08/2015	73	Updated for GMTS*2.7*111
June 2014	73	Edit per Release Coordinator (added ICD-10 screen example)
March 2014	71	Added description of GMTS*2.7*101
December, 2013	11, 14	Added description of GMTS*2.7*107
Sept 2012	Throughout manual	Edits per Release Coordinators
Apr-June 2012	68	Added description of GMTS*2.7*104
Nov 2011	68	Added description of GMTS*2.7*102
Aug. 2011	58, 6, misc	Added description of GMTS*2.7*88 and documented new SHORT HS BY LOCATION FIELD
April 2011	7, 10	Added description of GMTS*2.7*92
November 2010	n/a	Added description of GMTS*2.7*90
December 2002	Edits throughout manual.	Edits per SQA and NVS review.
October 2002	Updates throughout manual.	Added documentation covering functionality exported in patches GMTS*2.7*56 and GMTS*2.7*58.
March 2002	Pages 7-8	Resolved E3R list updated
February 2002	Pgs 22-24	New menu of options enabling managers to control HS types on the reports tab in CPRS
January 2002	Throughout	Changes made by patches to version 2.7 since its release in 1994, and specifically for patches 29, 45, 47, and 49

Table of Contents

Introduction to Health Summary

Definition of a Health Summary

A health summary is a user-customized, clinical summary report consisting of patient information *components*. Each component presents the most currently available summary data from one of the ancillary packages listed below, for a given patient, with optional limits by time, number of occurrences, and selection items. These summaries can be viewed online or printed.

Packages Providing Data

Automated Med Info
  Exchange (AMIE)
Allergy Tracking System
Clinical Reminders
Consults
Dietetics
Discharge Summary
Inpatient Medications
Lab
Medicine
Mental Health
Nursing (Vital Signs)

OE/RR (Order Entry/Results Reporting
Outpatient Pharmacy
Patient Care Encounter (PCE)
Problem List
Progress Notes
Radiology
Registration
Scheduling
Surgery
VISTA Imaging

Components and Types

Components and their behavior are specified by records in the Health Summary Component file (142.1). When a "permanent" Health Summary is created, its *type*, as defined by the owner/creator, is saved in the Health Summary Type file (142).

Definitions

Component	Summarized patient data extracted from various DHCP software packages.
Type	A structure or template containing defined components and unique characteristics.

Printing Health Summaries

Permanent or pre-defined health summaries may be run or printed for a single patient or all patients at a given hospital location (Patient Health Summary and Hospital Location Health Summary options). If a *clinic or operating room location* is selected (instead of a ward) in the Hospital Location Health Summary option, the user will be prompted to enter a beginning and ending visit or surgery date. Only those patients with visits or surgeries scheduled for the specified date will have health summaries generated.

PDX Transmission of Health Summaries

Health Summaries (except components with selection items or unique local components) can be transmitted by PDX–Patient Data Exchange–which transfers patient data between VA facilities using the MailMan electronic mail utility. See PDX V. 1.5 documentation for more information.

Health Summary Implementation & Maintenance

The Health Summary Maintenance Menu contains the following options for implementing and maintaining Health Summary.

Option	Description
Disable/Enable Health Summary Component	Selectively enable or disable Health Summary Components. A disable action may be identified as either temporary or permanent. When a component is temporarily disabled, an "OUT OF ORDER MESSAGE" may be entered and displayed with the component. When permanently disabled, the component is not displayed.
Create/Modify Health Summary Components	Create/modify new Health Summary components, either by duplication and renaming of existing components or by entering all appropriate fields for a component created on-site.
Edit Ad Hoc Health Summary Type	Enter/edit a component's default parameters (Time and Occurrence limits, Selection Items, Hospital Location Displayed, ICD Text Displayed, Provider Narrative Displayed, Header names, and whether to print component headers if no data is available) or delete components of the Ad Hoc Health Summary Type.
Rebuild Ad Hoc Health Summary Type	Reloads the Ad Hoc Health Summary Type with ALL (previously defined) components, including any defined by the site, and, optionally, all DISABLED components sequenced alphabetically by name. Disabled components

	will not be displayed, but when they are re-enabled will automatically show up in the Ad Hoc Health Summary if they are included in the rebuild.
Resequence a Health Summary Type	Resequence the components of a given Health Summary Type from 5, in increments of 5 (e.g., 5, 10, 15, 20,...,$5n$ where n is the total number of components).

Option	Description
Create/Modify Health Summary Type	Create a new or modify an existing health summary type. New types created by this option automatically define the type's owner as the creator, unless the creator holds the GMTSMGR security key. If the creator has this key, the GMTSMGR holder may designate anyone as the owner.
Health Summary Objects Menu	Use this option to access utilities to add/edit a Health Summary Object, display the characteristics of a Health Summary Object, test a Health Summary Object, or export/import a Health Summary Object.
Edit Health Summary Site Parameters	Edit six Health Summary parameters to local specifications. 1) PROMPT FOR ACTION PROFILE; editing this parameter to YES allows users to be prompted for printing a patient's Outpatient Pharmacy Action Profile in tandem with a health summary. 2) INCLUDE BAR CODE ON ACTION PROFILES; editing this parameter to YES allows bar codes to be printed with Action Profiles. 3) INCLUDE COMMENTS ON LABS; editing this parameter to YES causes comments to be printed in the Chemistry and Hematology, the Lab Test Selected, and the Lab Cumulative components. 4) SPOOL DEVICE; specify spool device name to which Health Summary output can be directed during a PDX request. 5) SHORT HS BY LOCATION COVER; allow the number of times each location prints on the cover sheet to change from 6 to 1. 6) ERROR MESSAGE RECIPIENT: This is the user or mail group that will receive error messages from the Health Summary Package when they are sent. Instances of when error messages are sent would be when a tasked batch print job needs to exit without producing a report.

Set Up Site Parameters

Use the Edit Health Summary Site Parameters option in the Health Summary Maintenance Menu [GMTS IRM/ADPAC MAINT MENU] to review and set up the site parameters. These parameters allow users to:

- Print an Outpatient Pharmacy Action Profile in tandem with a Health Summary.

- Print bar codes when Action Profiles are printed.

- Present Lab comments at display indicating comments are available for the Lab Chemistry and Hematology, the Lab Cumulative Selected, and the Lab Tests Selected components, or present the !! symbol to indicate comments are available for the Chemistry and Hematology and Lab Tests Selected components.

- Specify a spool device where PDX requests will be stored.

- Change the number of times each location prints on the cover sheet from 6 times to 1 time.

See example on next page.

Example

```
Select Health Summary Maintenance Menu Option: 7  Edit Health Summary Site
Parameters
Select HEALTH SUMMARY PARAMETERS: ?
 ANSWER WITH HEALTH SUMMARY PARAMETERS NAME:
   HOSPITAL
       YOU MAY ENTER A NEW HEALTH SUMMARY PARAMETERS, IF YOU WISH
       NAME MUST BE HOSPITAL
Select HEALTH SUMMARY PARAMETERS: HOSPITAL
PROMPT FOR ACTION PROFILE: YES// ??
       If this parameter is set to Y or YES, the user will be prompted to
       include the Outpatient Pharmacy Action Profile when printing Health
       Summaries by location (both interactive and batch mode) and by patient.
       CHOOSE FROM:
           Y       yes
           N       no
PROMPT FOR ACTION PROFILE: YES// Y  YES
INCLUDE BAR CODES ON ACTION PROFILES: ?
       Enter YES to include bar codes when Action Profiles are printed by
       Health Summary
       Choose from:
           Y       yes
           N       no
INCLUDE BAR CODES ON ACTION PROFILES: YES// <RET>   YES
INCLUDE COMMENTS FOR LABS: YES// ??
       If this parameter is set to Y or YES, the Chemistry & Hematology, the
       Lab Tests Selected, and the Lab Cumulative Selected components will
       present comments for results. For the Chemistry & Hematology and the
       Lab Tests Selected components, the comments will be displayed
       immediately following the results. For the Lab Cumulative Selected
       components, a lower-case letter will be displayed to the left of the
       date for entries with comments. Comments will be displayed after all
       the results are displayed , with the comments linked by the lower-case
       letter. Up to 26 comments can be included.
       If blank, N or NO, the Chemistry & Hematology and the Lab Tests
components    will present the symbol "!!" next to tests which include
       comments, and a footnote referring the user to the Lab Interim Report.
       CHOOSE FROM:
           Y       yes
           N       no
INCLUDE COMMENTS FOR LABS: YES// <RET>  YES
SPOOL DEVICE: SPOOL// ??
       This is the SPOOL DEVICE to which Health Summary output can be directed
       during a PDX request for one or more Health Summary components.
Choose from:
       SPOOL         SPOOL TO VMS        DSAB:[MUMPS,DEVMGR]

SPOOL DEVICE : SPOOL
SHORT HS BY LOC COVERS: Yes// ??
        This parameter is to be used in conjunction with the Hospital Location
        Health Summary [GMTS HS BY LOC] report to shorten the cover page for
        each location.  When printing in standard Letter (8.5 x 11) format, the
        name of the hospital location is printed six times which results in an
        overflow onto the next page.  If this parameter is set to 'Y' the name
        will only print one time, thus saving paper.

     Choose from:
       N       No
       Y       Yes
SHORT HS BY LOC COVERS: Yes//
Select HEALTH SUMMARY PARAMETERS: <RET>
```

Ad Hoc Health Summaries

Temporary (Ad hoc) health summaries can be created "on-the-fly" and run for individual patients, as follows.

1. First, select a combination of components from a menu of all available components.
2. Next, (if applicable) specify time limits, occurrence limits, hospital location, ICD text display, provider narrative display, and selection items for any of the components, or accept site-defined defaults.
3. Then, select a patient and run the resulting health summary.

Both pre-defined and Ad hoc health summaries may be run interactively on your terminal or directed to any printer. Pre-defined health summary types can also be queued to run nightly for all patients at any specified location(s). Either interactive or batch-mode print-by-location health summaries may also be printed "in tandem" with the Outpatient Pharmacy Action Profile (including bar codes) for each of the patients at the selected location.

CPRS Interface

Health Summary V. 2.7 interfaces with the Computerized Patient Record System (CPRS) to provide Order Entry users with an integrated view of both *orders* (from CPRS) and *results* (from Health Summary). This interface, in turn, enhances Health Summary by allowing Health Summary users:

- *Multiple Patient Selection*.
  You can select multiple patients from ward, clinic, treating specialty, attending physicians, personal or team lists. Health Summary uses enhanced patient look-up routines in CPRS for reporting results.

Relationship to Integrated Billing's Encounter Form Utilities

The Integrated Billing package (Encounter Form Utilities) includes a Print Manager that allows sites to define reports that should print along with encounter forms for a specific clinic or division and for specified appointments. One of the options, "Define Available Health Summary", allows a health summary to be made available for use by the print manager. See the *IB Encounter Form Utilities User Manual* for further information.

Nightly Batch Processing

The Health Summary package allows coordinators to schedule batch processing of health summaries for patients in a particular ward, or to schedule batch processing of health summaries a specified number of days before patients are scheduled for clinic visits or operating rooms. The benefits of batch processing are.

1) It enables the clinic to have the most currently available clinical information when the patient arrives for the appointment, and

2) Processing of the prints takes place during non-peak computer hours.

To use this, feature the IRM Service must first use the option Schedule/Unschedule Options on the TaskMan menu, and schedule the GMTS TASK STARTUP option to initiate nightly batch printing. (See page 31 in the *Health Summary Installation Guide*.) Each time this option runs, it uses the parameters set up by the Health Summary Coordinator in the Set-up Batch Print Locations option. For Version 2.7 of Health Summary, this option has been updated to recognize non-workdays. For clinics and operating rooms, if it is set up to print two days in advance, Tuesday's clinics will print on Friday rather than on Sunday. If Tuesday happens to be a holiday, the Wednesday clinics will print on Friday.

Health Summary Components Headers and Abbreviations

Use the Information Menu option (available in all three Health Summary user menus) to get an online listing of the information contained in each health summary component or health summary type.

Customized Health Summary Types

A user with access to the Coordinator's or Enhanced menu can create a customized health summary type. Use the Create/Modify Health Summary Type menu option located on the Health Summary Enhanced Menu or the Build Health Summary Type submenu of the Health Summary Coordinator's menu. Select the desired components, and (depending on the data required by the selected components) apply time limits or maximum occurrence limits to components which are date-sensitive. You may also apply ICD text, provider narrative, selection items, and header names for components that allow these to be specified.

Users who do not have access to the enhanced or coordinator's menus can request a customized health summary type from their IRMS or Health Summary coordinator. The form entitled "Request for Health Summary Type", located in

Appendix A of the *Health Summary User Manual,* is a convenient way to submit such requests.

Customizing the Ad Hoc Health Summary Type

You can also customize the Ad Hoc Health Summary Type with the Edit Ad Hoc Health Summary Type option on the Maintenance Menu. This option lets you modify time and/or occurrence limits, hospital location displayed, ICD text displayed, provider narrative displayed, header names, or assign selection items (tests like WBC, Glucose) to the *selected* health summary components (Lab Cumulative Selected, Lab Cumulative Selected 1-4, Lab Tests Selected, Measurement Selected, Vital Signs Selected, and Radiology Impression Selected, etc.). Consult with your clinical coordinator and/or users about which selection items they would like to have on their Health Summaries.

You may select individual components and edit their default parameters or use the ^LOOP feature at the Select COMPONENT: prompt to loop through all of the components, editing the default values as you go.

NOTE: When selecting components from the Ad Hoc Health Summary menu, entering "ALL" allows all components to be selected. If the first three characters of a HEADER NAME for a component are designated as "All", however, then only the defined component will be selected. Avoid conflicts and loss of functionality by not using "all" at the front of new header names.

Edit Ad Hoc Health Summary Type Example

NOTE: Bold-faced text indicates user entries.

```
Select Health Summary Overall Menu Option Name: Health Summary Maintenance Menu
   1       Disable/Enable Health Summary Component
   2       Create/Modify Health Summary Components
   3       Edit Ad Hoc Health Summary Type
   4       Rebuild Ad Hoc Health Summary Type
   5       Resequence a Health Summary Type
   6       Create/Modify Health Summary Type
   7       Edit Health Summary Site Parameters

Select Health Summary Maintenance Menu Option: Edit Ad Hoc Health Summary Type

Edit Ad Hoc Health Summary Type

>>> EDITING the GMTS HS ADHOC OPTION Health Summary Type
SUPPRESS PRINT OF COMPONENTS WITHOUT DATA:

Do you wish to review the Summary Type structure before continuing? NO// <RET>
Select COMPONENT: PROB
     1   PROBLEM LIST ACTIVE          PLA
     2   PROBLEM LIST ALL             PLL
     3   PROBLEM LIST INACTIVE        PLI
CHOOSE 1-3: 1
SUMMARY ORDER: 5//<RET> 5
ICD TEXT DISPLAYED: ??
     This field controls how ICD text is displayed in components where ICD
     Text applies (e.g., PCE Outpatient Encounters, PCE Outpatient Diagnosis
     and Problem List All). The applicable component display/print can be
     customized to include ICD Text in the following format: code and long
```

```
          description, code and short description, code only, long description only
          or nothing. This control is independent of whether provider narrative is
          displayed -- either or both may be specified.
          Choose from:
             L        long text
             S        short text
             C        code only
             T        text only
             N        none
ICD TEXT DISPLAYED: S  short text
PROVIDER NARRATIVE DISPLAYED: ??
          This field controls whether provider narrative is displayed or not. It
          applies to components where provider narrative is applicable (e.g., PCE
          Outpatient Encounters, PCE Outpatient Diagnosis, Problem List All). This
          control is independent of whether or not ICD text is displayed -- either
          or both may be specified. If not specified, provider narrative will be
          displayed by default.
          Choose from:
             Y        yes
             N        no
PROVIDER NARRATIVE DISPLAYED: Y  yes
HEADER NAME: Active Problems// <RET>
Select COMPONENT: <RET>


Do you wish to review the Summary Type structure before continuing? NO// <RET>YES
                    HEALTH SUMMARY TYPE INQUIRY


        Type Name:  GMTS HS ADHOC OPTION
            Title:  Ad Hoc Health Summary Type
            Owner:                           LOCK:  GMTSMGR
SUPPRESS PRINT OF COMPONENTS WITHOUT DATA:


                                 Max          Hosp  ICD   Prov
Abb.  Order   Component Name     Occ   Time   Loc   Text  Narr  Selection
-------------------------------------------------------------------------------
PLA   5       Active Problems                             short yes








              * = Disabled Components
Select COMPONENT:<RET>
```

Routine Descriptions

Namespace: *GMTS*

XUPRROU (List Routines) prints a list of any or all of the Health Summary routines. This option is found on the XUPR-ROUTINE-TOOLS menu on the XUPROG (Programmer Options) menu, which is a sub-menu of the EVE (Systems Manager Menu) option.

```
Select Systems Manager Menu Option: programmer Options

Select Programmer Options Option: routine Tools

Select Routine Tools Option: list Routines
Routine Print
Want to start each routine on a new page: No// [ENTER]

routine(s) ?   > GMTS*
```

The first line of each routine contains a brief description of the general function of the routine. Use the Kernel option XU FIRST LINE PRINT (First Line Routine Print) to print a list of just the first line of each GMTS subset routine.

```
Select Systems Manager Menu Option: programmer Options

Select Programmer Options Option: routine Tools

Select Routine Tools Option: First Line Routine Print
PRINTS FIRST LINES

routine(s) ?   >GMTS*
```

Files and Globals List

The following is a list of the files contained in the Health Summary package, including file number, name, global location, and an indicator if data comes with the file.

Number	Name	Global	Data
142	HEALTH SUMMARY TYPE	^GMT(142,	YES

Description

This file contains the structure of a health summary. Components from the Health Summary Components file (142.1) may be selected and restricted by number of occurrences or time limits. The original creator of a type of Health Summary is the owner of that type. Health summaries that are "owned" may not be modified or deleted by anyone except the Clinical Coordinator. "Owned" Health Summaries may be used by other users to print patient information.

142.1	HEALTH SUMMARY COMPONENT	^GMT(142.1,	YES

Description

This file contains all components which may be used to create a Health Summary. These entries are typically defined by a programmer. Components which represent packages that are not in use may be disabled, so they will not be selected by users to build new types of health summary reports.

142.5	HEALTH SUMMARY OBJECTS	^GMT(142.5,	NO

Description

This file contains Health Summary Types that are to be embedded into another document as an object. The bulk of this file is made up of display flags which control how the object is to be embedded into the other document.

142.98	HEALTH SUMMARY USER PREFERENCES	^GMT(142.98,	YES

Description

This file determines how the list of Health Summary Types for the CPRS GUI report tab is to be organized (APPEND or OVERWRITE) for user selection. There are three major classes of Health Summary types, National (remote data view), user defined and system defined. User and system Health Summary Types are defined in the Kernel Parameters file. Append creates a single list, removing duplicates, and keeps the National Health Summary types group together. Overwrite stops building the list once a single group of Health Summary Types (User or System) is added to the list.

142.99   HEALTH SUMMARY PARAMETERS   ^GMT(142.99,   NO

<u>**Description**</u>

This file contains any site parameters that apply to the Health Summary package. Currently there are six site parameters: 1) PROMPT FOR ACTION PROFILE; 2) INCLUDE BAR CODE ON ACTION PROFILES; 3) INCLUDE COMMENTS ON LABS; 4) SPOOL DEVICE 5) ERROR MESSAGE RECIPIENT; 6) SHORT HS BY LOCATION COVER

Exported Menus, Options, and Function

The Health Summary Overall Menu [GMTS MANAGER] contains four menus.

1. Health Summary Menu [GMTS USER]
2. Health Summary Enhanced Menu [GMTS ENHANCED USER]
3. Health Summary Coordinator's Menu [GMTS COORDINATOR]
4. Health Summary Maintenance Menu [GMTS IRM/ADPAC MAINT MENU]

Assign these menus as follows.

1. Give the Health Summary Menu [GMTS USER] menu to users who only need to print or display health summaries.

2. Give the Health Summary Enhanced Menu [GMTS ENHANCED USER] menu to users who need to create, modify, or delete their *own* health summary types, in addition to printing health summaries.

3. Give the Health Summary Coordinator's Menu [GMTS COORDINATOR] menu to users who need to print or display health summaries, and who will also need to create, modify, or delete health summary types, and set up nightly batch printing at specified locations.

4. Give the Health Summary Maintenance Menu [GMTS IRM/ADPAC MAINT MENU] to IRM staff or the Clinical Coordinator for any implementation and maintenance issues in Health Summary. This menu contains options to disable/enable health summary components for selection/display, create/modify new health summary components, edit and rebuild the Ad Hoc Health Summary Type, resequence the components in a health summary type, create/modify a health summary type, delete a health summary type, and edit health summary site parameters. With the release of GMTS*2.7*94 patch, it also contains a new GMTS PS MED RECON CONFIG CHECK option which will check the HEALTH SUMMARY TYPE 'Essential Med List for Review' to make sure it holds certain HEALTH SUMMARY COMPONENTs for which it was created in the first place.

5. If an IRM staff member or the Clinical Coordinator needs access to all menus, give the Health Summary Overall Menu [GMTS MANAGER] to those users rather than assigning each menu option separately.

Health Summary Overall Menu [GMTS MANAGER]

NOTE: New menus and options (since the original release of v2.7) are highlighted in blue.

1. Health Summary Coordinator's Menu [GMTS COORDINATOR]
      1 Print Health Summary Menu ... [GMTS HS MENU]
            1 Patient Health Summary [GMTS HS BY PATIENT]
            2 Ad Hoc Health Summary [GMTS HS ADHOC]
            3 Range of Dates Patient Health Summary [GMTS HS BY PATIENT & DATE RANG]
            4 Visit Patient Health Summary [GMTS HS BY PATIENT & VISIT]
            5 Hospital Location Health Summary [GMTS HS BY LOC]
            6 Batch Print of All Clinics by Visit Date [GMTS HS FOR ALL CLINICS]
      2 Build Health Summary Type Menu ... [GMTS BUILD MENU]
            1 Create/Modify Health Summary Type [GMTS TYPE ENTER/EDIT]
            2 Delete Health Summary Type [GMTS TYPE DELETE]
      3 Information Menu ... [GMTS INFO ONLY MENU]
            1 Inquire about a Health Summary Type [GMTS TYPE INQ]
            2 List Health Summary Types [GMTS TYPE LIST]
            3 Inquire about a Health Summary Component [GMTS COMP INQ]
            4 List Health Summary Components [GMTS COMP LIST]
            5 List Health Summary Component Descriptions [GMTS COMP DESC LIST]
      4 Print Health Summary Menu ... [GMTS HS MENU]
            1 Patient Health Summary [GMTS HS BY PATIENT]
            2 Ad Hoc Health Summary [GMTS HS ADHOC]
            3 Range of Dates Patient Health Summary [GMTS HS BY PATIENT & DATE RANG]
            4 Visit Patient Health Summary [GMTS HS BY PATIENT & VISIT]
            5 Hospital Location Health Summary [GMTS HS BY LOC]
            6 Batch Print of All Clinics by Visit Date [GMTS HS FOR ALL CLINICS]
      3 Set-up Batch Print Locations [GMTS HS BY LOC PARAMETERS]
      4 List Batch Health Summary Locations [GMTS TASK LOCATIONS LIST]
      5 CPRS Reports Tab 'Health Summary Types List' Menu [GMTS GUI REPORTS LIST MENU]
            1 Display 'Health Summary Types List' Defaults [GMTS GUI HS LIST DEFAULTS]
            2 Precedence of 'Health Summary Types List' [GMTS GUI HS LIST PRECEDENCE]
            3 Method of compiling 'Health Summary Types List' [GMTS GUI HS LIST METHOD]
            4 Edit 'Health Summary Types List' Parameters [GMTS GUI HS LIST PARAMETERS]

2. Health Summary Enhanced Menu [GMTS ENHANCED USER]
      1 Patient Health Summary [GMTS HS BY PATIENT]
      2 Ad Hoc Health Summary [GMTS HS ADHOC]
      3 Range of Dates Patient Health Summary [GMTS HS BY PATIENT & DATE RANG]
      4 Visit Patient Health Summary [GMTS HS BY PATIENT & VISIT]
      5 Hospital Location Health Summary [GMTS HS BY LOC]
      6 Information Menu ... [GMTS INFO ONLY MENU]
            1 Inquire about a Health Summary Type [GMTS TYPE INQ]
            2 List Health Summary Types [GMTS TYPE LIST]
            3 Inquire about a Health Summary Component [GMTS COMP INQ]
            4 List Health Summary Components [GMTS COMP LIST]
            5 List Health Summary Component Descriptions [GMTS COMP DESC LIST]
      7 Create/Modify Health Summary Type [GMTS TYPE ENTER/EDIT]
      8 Delete Health Summary Type [GMTS TYPE DELETE]

9 CPRS Reports Tab 'Health Summary Types List' Menu [GMTS GUI REPORTS LIST MENU]

  1 Display 'Health Summary Types List' Defaults [GMTS GUI HS LIST DEFAULTS]

  2 Precedence of 'Health Summary Types List' [GMTS GUI HS LIST PRECEDENCE]

  3 Method of compiling 'Health Summary Types List' [GMTS GUI HS LIST METHOD]

  4 Edit 'Health Summary Types List' Parameters [GMTS GUI HS LIST PARAMETERS]

3. Health Summary Menu [GMTS USER]
1 Patient Health Summary [GMTS HS BY PATIENT]
2 Ad Hoc Health Summary [GMTS HS ADHOC]
3 Range of Dates Patient Health Summary [GMTS HS BY PATIENT & DATE RANG]
4 Visit Patient Health Summary [GMTS HS BY PATIENT & VISIT]
5 Hospital Location Health Summary [GMTS HS BY LOC]
6 Information Menu ... [GMTS INFO MENU]

  1 Inquire about a Health Summary Type [GMTS TYPE INQ]
  2 List Health Summary Types [GMTS TYPE LIST]
  3 Inquire about a Health Summary Component [GMTS COMP INQ]
  4 List Health Summary Components [GMTS COMP LIST]

7 CPRS Reports Tab 'Health Summary Types List' Menu [GMTS GUI REPORTS LIST MENU]

  1 Display 'Health Summary Types List' Defaults [GMTS GUI HS LIST DEFAULTS]

  2 Precedence of 'Health Summary Types List' [GMTS GUI HS LIST PRECEDENCE]

  3 Method of compiling 'Health Summary Types List' [GMTS GUI HS LIST METHOD]

  4 Edit 'Health Summary Types List' Parameters [GMTS GUI HS LIST PARAMETERS]

4. Health Summary Maintenance Menu [GMTS IRM/ADPAC MAINT MENU]
1 Disable/Enable Health Summary Component [GMTS IRM/ADPAC ENABLE/DISABLE]
2 Create/Modify Health Summary Components [GMTS IRM/ADPAC COMP EDIT]
3 Edit Ad Hoc Health Summary Type [GMTS IRM/ADPAC ADHOC EDIT]
4 Rebuild Ad Hoc Health Summary Type [GMTS IRM/ADPAC ADHOC LOAD]
5 Resequence a Health Summary Type [GMTS IRM/ADPAC TYPE RESEQUENCE]
6 Create/Modify Health Summary Type [GMTS TYPE ENTER/EDIT]
7 Edit Health Summary Site Parameters [GMTS IRM/ADPAC PARAMETER EDIT]
8 Health Summary Objects Menu [GMTS OBJ MENU]

  1 Create/Modify Health Summary Object [GMTS OBJ ENTER/EDIT]
  2 Inquire about a Health Summary Object [GMTS OBJ INQ]
  3 Test a Health Summary Object [GMTS OBJ TEST]
  4 Delete Health Summary Object [GMTS OBJ DELETE]
  5 Export/Import a Health Summary Object [GMTS OBJ EXPORT/IMPORT]

    1 Export a Health Summary Object [GMTS OBJ EXPORT]
    2 Import/Install a Health Summary Object [GMTS OBJ IMPORT/INSTALL]

9 CPRS Reports Tab 'Health Summary Types List' Menu [GMTS GUI REPORTS LIST MENU]

  1 Display 'Health Summary Types List' Defaults [GMTS GUI HS LIST DEFAULTS]

2 Precedence of 'Health Summary Types List' [GMTS GUI HS LIST PRECEDENCE]

3 Method of compiling 'Health Summary Types List' [GMTS GUI HS LIST METHOD]

4 Edit 'Health Summary Types List' Parameters [GMTS GUI HS LIST PARAMETERS]

10 CPRS Health Summary Display/Edit Site Defaults [GMTS GUI SITE DEFAULTS]

1 Display Site Health Summary List Defaults [GMTS GUI SITE DISPLAY DEFAULTS]

2 Edit 'Health Summary Types List' Parameters [GMTS GUI SITE ADD/EDIT LIST]

3 Edit Default HS Type List Compile Method [GMTS GUI SITE COMPILE METHOD]

4 Add/Edit Allowable Entities for HS List [GMTS GUI SITE PRECEDENCE]

5 Resequence Allowable Entities for HS List [GMTS GUI SITE RESEQUENCE]

Function

Health Summary exports a function called GMTS COMPONENT NAME. It is used for writing the HEADER NAME, DEFAULT HEADER NAME, or COMPONENT NAME in Health Summary reports.

Cross-References

The number-space for Health Summary files is 142*. Use the VA FileMan DATA DICTIONARY UTILITIES, option #8 (DILIST, List File Attributes), to print a list of these files. Depending on the FileMan template used to print the list, this option will print out all or part of the data dictionary for the GMTS files. If you choose the "Standard" format, you can see cross-reference information for a specified file(s).

Purging and Archiving

Archiving

The Health Summary package does not provide archiving functionality because data is only stored for the Health Summary Type (#142), Health Summary Component (#142.1), and Health Summary Parameters (#142.99) files.

The Health Summary package does not duplicate storage of VISTA ancillary package data. Data is extracted as needed from the ancillary packages, is temporarily stored in ^TMP(<namespace>,$J, or ^UTILITY($J, and is deleted after the component has been printed or displayed.

Purging

The Delete Health Summary Type option [GMTS TYPE DELETE] is available on both the Coordinator's and the Enhanced menus. The owner of a health summary type may delete it.

Privacy Act laws specifically state that patient information in VISTA which is retrievable by patient identifier is part of the patient medical record. Printed Health Summary information is patient information that is retrievable by patient identifier and is considered part of the patient record. However, since the information on the Health Summary can be found elsewhere in the patient record, administrators in a Medical Center can choose whether or not to file hard copies of health summaries in the medical record. If you choose to file copies in the medical record, be aware that *information in a health summary is only a summary and may not be complete in many cases*.

Callable Routines

Health Summary does not provide any publicly supported entry points. Included below is a list of entry points that are used by the Health Summary package. Use of these entry points by other packages requires a private Data Base Integration Agreement (DBIA) with Health Summary.

Routine: GMTS: *Health Summary Main Routine*

Entry Point	Comments

ENCWA	Entry point for printing without going through Health Summary print options and a pre-defined health summary type.
	
	Receives: DFN as valid patient internal entry number
	            GMTSPRM = "CD, CN,CW,ADR". These are valid component abbreviations from the "C" cross reference of File 142.1. Does not support components that require selection items.
	            GMTSTITL="Text of Title"
	
	GMTSPX1 - Optional internal FM date for range ending date
	GMTSPX2 - Optional internal FM date for range beginning date
	
	NOTE: Optional date range variables are both required if a date range is desired.
	Returns: Health Summary report for a patient and the specific components defined in GMTSPRM.

Routine: GMTSADOR: *Ad Hoc Summary Driver*

Entry Point	Comments
MAIN	Entry point to allowing the user to define components and defaults through the Ad Hoc menu interface and print health summaries for a programmer-specified patient and device. Receives: DFN as valid patient internal entry number. If DFN is not defined but the ORVP variable is, DFN will be set to the DFN in this variable. This is done to allow this entry point to be called through a protocol in support of OE/RR. If DFN and ORVP don't exist, the user will be prompted to enter a patient.

Routine: GMTSDVR: *Health Summary Alternate Driver (OE/RR V2.5 compatible)*

Entry Point	Comments

ENX(DFN, GMTSTYP, GMTSPX2, GMTSPX1)	Entry point, with parameters, for printing a health summary for a programmer-specified patient and device, without prompting for additional information.
	
	Receives: DFN as valid patient internal entry number
	
	    GMTSTYP as a valid health summary type internal entry number.
	
	    GMTSPX1 and GMTSPX2 are optional Date and Range variables. They allow the time limits to be overridden for components that use time limits. Thus, beginning and ending dates can be specified in order to get only data within that time range.
	
	GMTSPX2 - Internal FileMan date for beginning date range
	GMTSPX1 - Internal FileMan date for ending date range

Routine: GMTSDVR: *Health Summary Alternate Driver (OE/RR V2.5 compatible) cont'd*

Entry Point	Comments
ENXQ	External call for tasked Health Summary printing.
	Receives: DFN as valid patient internal entry number
	GMTSTYP as a valid health summary type IEN
	GMTSPX1 - Optional internal FM date for ending date
	GMTSPX2 - Optional FM date for beginning date
	NOTE: Optional date range variables are both required if a date range is used

Routine: GMTSOBJ: *Health Summary Objects*

Entry Point	Comments
OBJ	Create/Modify Health Summary Object - GMTS OBJ ENTER/EDIT
INQ	Inquire to Health Summary Object - GMTS OBJ INQ
DEL	Delete Health Summary Object - GMTS OBJ DELETE
TEST	Test Health Summary Object - GMTS OBJ TEST

GET(DFN,OBJ)	Get Health Summary Object
	  Input: DFN IEN for Patient (file #2)
	      OBJ IEN for Health Summary Object (file #142.5)
	
	  Output Returns global array of Health Summary data
	      ^TMP("GMTSOBJ",$J,DFN,#)

TIU(DFN,OBJ)	Get Health Summary Object (Entry Point for TIU)
	  Input DFN IEN for Patient (file #2)
	      OBJ IEN for Health Summary Object (file #142.5)
	
	  Output Returns global array of Health Summary data
	      ^TMP("TIUHSOBJ",$J,"FGBL",0)
	      ^TMP("TIUHSOBJ",$J,"FGBL",#)

DIS(DFN,OBJ)	Display Object
	  Input DFN IEN for Patient (file #2)
	      OBJ IEN for Health Summary Object (file #142.5)

Routine: GMTSU: *Health Summary Utilities routine*

Entry Point	Comments
MTIM	Converts time from an internal format to a display format. Receives: X=internal format Date/time as 2900310.1300 Returns: X=printable time as 13:00
REGDT	Gets internal date and formats as MM/DD//YY Receives: X=internal format Date/time as 2900310.1300 Returns: X=03/10/90
REGDTM	Gets regular date and formats with time. Receives: X=internal format Date/time as 2900310.1300 Returns: X=03/10/90 13:00
SIDT	Gets date in SI format as DD MMM YY Receives: X as internal FM date/time, e.g., 2890630.1650 Returns: X=30 JUN 89
FMHL7DTM	Gets HL7 format date/time as CCYYMMDDHHMM Receives: X=internal format 2900310.1300 as Date/time Returns: X=29003101300
DEM	Gets Demographic data from VADPT Receives: DFN Returns: GMTSPNM,GMTSSN,GMTSDOB,SEX, GMTSWARD,GMTSRB,GMTSAGE
NAME	Formats names. Receives: FILE=(200) IFN=(internal file number for above file), NML=(desired length for name to be returned) FNF=0 for FI, 1 for FN (flag to specify first name format) Returns: NM=Lastname,First(name/initial) to specified length.
GETRANGE (Fromdate, Todate)	Receives: Fromdate and Todate which are variables (passed by reference) that will return the From date and To date in inverted order. Returns: Fromdate=Inverted date to be used as stop date for displaying most recent data first. Todate=Inverted date to be used as start date for displaying most recent data first.

Routine: GMTSU: *Health Summary Utilities routine cont'd*

Entry Point	Comments

FORMAT	Wraps long line of text and indents wrapped lines. Can call multiple times without losing previously wrapped text. Use entry point LINE to display the wrapped text.
	Receives: X=text to wrap.
	                       GMTSLABEL=text to insert at the beginning of the first line; a colon and a space are inserted between the label and the text to wrap. Used to calculate amount to indent subsequent lines.
	                       DIWL=left margin for text, specified as an integer that starts at one.
	Returns: Nothing

LINE	Displays all lines of text wrapped with entry point FORMAT. Receives: GMTSCOL=left margin for text, specified as an integer that starts at one; should be the same as DIWL parameter for the FORMAT entry point. Returns: Nothing; text is output to the currently active device.

Routine: GMTSUP: *Pagination Utilities*

Entry Point	Comments

CKP	Called from all component print routines; before printing each line checks $Y and flags form feeds.
	Receives: DFN as valid patient internal entry number
	Returns: GMTSNPG=0; No form feed has been forced
	                       GMTSNPG=1; Form feed has been forced
	                       GMTSQIT=defined when an up-arrow (^) has
	                        been entered to quit summary

CKP1	Help display of the optional components for navigation.
BREAK	Called from CKP before printing the component data and when form feeds are forced. Writes the delimiter of each component.
HEADER	Called from the driver at the beginning of the summary, and from CKP when form feeds are forced. Writes the running head of the summary report.

External Relations

Non-destructive, read-only component routines have been written to present VISTA ancillary package data.

Database Integration Agreements

The Health Summary package interacts with, and extracts data from many other VISTA software packages. Permission for Health Summary to use data from the other packages is obtained by completing a written integration agreement with each of the other packages. Complete integration agreements are under the DBA menu on Forum.

Internal Relations

All Health Summary options are independently invokable.

Generating Online Documentation

KIDS Build and Install Print Options

Print a list of package components

Use the KIDS Build File Print option if you would like a complete listing of package components (e.g., routines and options) exported with this software.

```
>D ^XUP
Setting up programmer environment
Terminal Type set to: C-VT100

Select OPTION NAME: XPD MAIN     Kernel Installation & Distribution System menu

Select Kernel Installation & Distribution System Option: Utilities

Select Utilities Option: Build File Print

Select BUILD NAME: GMTS*2.7*58        HEALTH SUMMARY
DEVICE: HOME// ;;999  ANYWHERE


PACKAGE: GMTS*2.7*58    Dec 30, 2002 8:57 am                          PAGE 1
-------------------------------------------------------------------------------
TYPE: SINGLE PACKAGE
TRACK NATIONALLY: YES
NATIONAL PACKAGE: HEALTH SUMMARY
DESCRIPTION:
The description of this build is found in the National Patch Module under
patch GMTS*2.7*58.

ENVIRONMENT CHECK :
 PRE-INIT ROUTINE :
POST-INIT ROUTINE : POST^GMTSP58
PRE-TRANSPORT RTN :

                                       UP    SEND  DATA                 USER
                                       DATE  SEC.  COMES  SITE   RSLV   OVER
FILE #      NAME                       DD    CODE  W/FILE DATA   PTS    RIDE
-------------------------------------------------------------------------------

142.5      HEALTH SUMMARY OBJECTS      YES   YES   NO


INPUT TEMPLATE:
   GMTS DELETE HLTH SUM TYPE    FILE #142       SEND TO SITE
   GMTS EDIT EXIST HS TYPE     FILE #142       SEND TO SITE
   GMTS EDIT HLTH SUM TYPE     FILE #142       SEND TO SITE

ROUTINE:
   GMTS1                                        SEND TO SITE
   GMTS2                                        SEND TO SITE
   GMTSALG                                      SEND TO SITE
   GMTSCNB                                      SEND TO SITE
   GMTSDEM2                                     SEND TO SITE
   GMTSLRC                                      SEND TO SITE
   GMTSLROB                                     SEND TO SITE
   GMTSLRS                                      SEND TO SITE
```

```
    GMTSLRS7                                        SEND TO SITE
    GMTSLRSC                                        SEND TO SITE
    GMTSLRTE                                        SEND TO SITE
    GMTSOBA                                         SEND TO SITE
    GMTSOBA2                                        SEND TO SITE
    GMTSOBD                                         SEND TO SITE
    GMTSOBE                                         SEND TO SITE
    GMTSOBH                                         SEND TO SITE
    GMTSOBI                                         SEND TO SITE
    GMTSOBJ                                         SEND TO SITE
    GMTSOBL                                         SEND TO SITE
    GMTSOBL2                                        SEND TO SITE
    GMTSOBS                                         SEND TO SITE
    GMTSOBS2                                        SEND TO SITE
    GMTSOBT                                         SEND TO SITE
    GMTSOBU                                         SEND TO SITE
    GMTSOBV                                         SEND TO SITE
    GMTSPXFP                                        SEND TO SITE
    GMTSRASP                                        SEND TO SITE
    GMTSRM                                          SEND TO SITE
    GMTSULT                                         SEND TO SITE
    GMTSULT5                                        SEND TO SITE
    GMTSUP                                          SEND TO SITE
    GMTSVSD                                         SEND TO SITE
    GMTSXAB                                         SEND TO SITE

OPTION:
    GMTS BUILD MENU                                 USE AS LINK FOR MENU ITEMS
    GMTS GUI HS LIST DEFAULTS                       SEND TO SITE
    GMTS GUI HS LIST METHOD                         SEND TO SITE
    GMTS GUI HS LIST PARAMETERS                     SEND TO SITE
    GMTS GUI HS LIST PRECEDENCE                     SEND TO SITE
    GMTS GUI REPORTS LIST MENU                      SEND TO SITE
    GMTS GUI SITE ADD/EDIT LIST                     SEND TO SITE
    GMTS GUI SITE COMPILE METHOD                    SEND TO SITE
    GMTS GUI SITE DEFAULTS                          SEND TO SITE
    GMTS GUI SITE DISPLAY DEFAULTS                  SEND TO SITE
    GMTS GUI SITE PRECEDENCE                        SEND TO SITE
    GMTS GUI SITE RESEQUENCE                        SEND TO SITE
    GMTS IRM/ADPAC MAINT MENU                       USE AS LINK FOR MENU ITEMS
    GMTS OBJ DELETE                                 SEND TO SITE
    GMTS OBJ ENTER/EDIT                             SEND TO SITE
    GMTS OBJ EXPORT                                 SEND TO SITE
    GMTS OBJ EXPORT/IMPORT                          SEND TO SITE
    GMTS OBJ IMPORT/INSTALL                         SEND TO SITE
    GMTS OBJ INQ                                    SEND TO SITE
    GMTS OBJ MENU                                   SEND TO SITE
    GMTS OBJ TEST                                   SEND TO SITE
    GMTS TYPE DELETE                                SEND TO SITE

REQUIRED BUILDS:                                    ACTION:
    GMTS*2.7*49                                     Don't install, leave global
    GMTS*2.7*56                                     Don't install, leave global
```

Print Results of the Installation Process

Use the KIDS Install File Print option if you'd like to print out the results of the installation process.

```
Select Utilities Option:  Install File Print
Select INSTALL NAME: GMTS*2.7*58      Install Completed  2/26/02@09:06:39
     => GMTS*2.7*49 TEST v5
DEVICE: HOME// ;;999  ANYWHERE


PACKAGE: GMTS*2.7*58     Dec 26, 2002 11:09 am                      PAGE 1
                                           COMPLETED        ELAPSED
-------------------------------------------------------------------------
STATUS: Install Completed               DATE LOADED: DEC 25, 2002@12:51:45
INSTALLED BY: MERRILL,DAVID
NATIONAL PACKAGE: HEALTH SUMMARY

INSTALL STARTED: DEC 26, 2002@09:06:33      09:06:39            0:00:06


ROUTINES:                                   09:06:34            0:00:01


PRE-INIT CHECK POINTS:
XPD PREINSTALL STARTED                      09:06:35            0:00:01
XPD PREINSTALL COMPLETED                    09:06:35


PRINT TEMPLATE                              09:06:35
OPTION                                      09:06:37            0:00:02


POST-INIT CHECK POINTS:
XPD POSTINSTALL STARTED                     09:06:38            0:00:01
XPD POSTINSTALL COMPLETED                   09:06:38


INSTALL QUESTION PROMPT                                         ANSWER

XPO1   Want KIDS to Rebuild Menu Trees Upon Completion of Install    YES
XPI1   Want KIDS to INHIBIT LOGONs during the install               NO
XPZ1   Want to DISABLE Scheduled Options, Menu Options, and Protocols NO
MESSAGES:

 Install Started for GMTS*2.7*58 :
            Dec 26, 2002@09:06:33

Build Distribution Date: Mar 14, 2002

 Installing Routines:
            Dec 26, 2002@09:06:34

 Installing PACKAGE COMPONENTS:

 Installing PRINT TEMPLATE

 Installing OPTION
            Dec 26, 2002@09:06:37

 Running Post-Install Routine: POST^GMTSP58
  Updating Routine file...
  Updating KIDS files...
  GMTS*2.7*58 Installed.
            Dec 26, 2002@09:06:39
  Not a production UCI
  NO Install Message sent
  Call MENU rebuild
```

Other Kernel Print Options

Besides using the Kernel Installation & Distribution (KIDS) options to get lists of routines, files, etc., you can also use other Kernel options to print online technical information.

Routines

The namespace for the Health Summary package is GMTS. Use the Kernel option, List Routines [XUPRROU], to print a list of any or all of the Health summary routines. This option is found on the Routine Tools [XUPR-ROUTINE-TOOLS] menu on the Programmer Options [XUPROG] menu, which is a sub-menu of the Systems Manager Menu [EVE] option.

Example:

```
Select Systems Manager Menu Option: programmer Options

Select Programmer Options Option: routine Tools

Select Routine Tools Option: list Routines
Routine Print
Want to start each routine on a new page: No// <RET>

routine(s) ?   > GMTS*
```

The first line of each routine contains a brief description of the general function of the routine. Use the Kernel option, First Line Routine Print [XU FIRST LINE PRINT], to print a list of just the first line of each Health Summary subset routine.

Example:

```
Select Systems Manager Menu Option: programmer Options

Select Programmer Options Option: routine Tools

Select Routine Tools Option: First Line Routine Print
PRINTS FIRST LINES

routine(s) ?   > GMTS*
```

Globals

The globals used in the Health Summary package are:
> ^GMT(142,
> ^GMT(142.1
> ^GMT(142.5,
> ^GMT(142.98,
> ^GMT(142.99,

Use the Kernel option, List Global [XUPRGL], to print a list of any of these globals. This option is found on the Programmer Options menu [XUPROG], which is a sub-menu of the Systems Manager Menu [EVE] option.

Example:
```
Select Systems Manager Menu Option: programmer Options

Select Programmer Options Option: LIST Global
Global ^GMT*
```

Inquire To Option File

The Kernel Inquire option [XUINQUIRE] provides the following information about a specified option(s).
- Option name.
- Menu text.
- Option description.
- Type of option.
- Lock (if any).

In addition, all items on the menu are listed for each menu option.

XINDEX

XINDEX is a routine that produces a report called the VA Cross-Referencer. This report is a technical and cross-reference listing of one routine or a group of routines. XINDEX provides a summary of errors and warnings for routines that do not comply with VA programming standards and conventions, a list of local and global variables and what routines they are referenced in, and a list of internal and external routine calls.

XINDEX is invoked from programmer mode: D ^XINDEX.
When selecting routines, select GMTS* and exclude the routines GMTSI* (the inits), GMTSON* and GMTSO0* (the onits).

Data Dictionaries/ Files

The number-spaces for Health Summary files are 142-. Use the VA FileMan DATA DICTIONARY UTILITIES, option #8 (DILIST, List File Attributes), to print a list of these files. Depending on the FileMan template used to print the list, this option will print out all or part of the data dictionary for the GMTS files.

List File Attributes

The FileMan List File Attributes option [DILIST] lets you generate documentation about files and file structure. If you choose the "Standard" format, you can see the following Data Dictionary information for a specified file(s).
- File name and description.
- Identifiers.
- Cross-references.
- Files pointed to by the file specified.
- Files that point to the file specified.
- Input templates.
- Print templates.
- Sort templates.

Example:

```
>D P^DI
VA FileMan 21.0
Select OPTION: DATA DICTIONARY UTILITIES
Select DATA DICTIONARY UTILITY OPTION: LIST FILE ATTRIBUTES
 START WITH WHAT FILE: 8925
                                        (1 entry)
     GO TO WHAT FILE: 8925// 8926*
Select LISTING FORMAT: STANDARD// [Enter]
DEVICE: PRINTER
```

In addition, the following applicable data is supplied for each field in the file: field name, number, title, global location, description, help prompt, cross-reference(s), input transform, date last edited, and notes.

The "Global Map" format of this option generates an output that lists all cross-references for the file selected, global location of each field in the file, input templates, print templates, and sort templates.

?, ??, and ??? Online Help

?   Enter one question mark to see helpful information about the components of the health summary type used in the health summary and the options available.

??   Enter two question marks to see a list of available health summary components.

???   Enter three question marks for detailed help, if available.

Glossary

Ad Hoc Summary	This is a temporary health summary that allows you to select health summary components, time and occurrence limits, and selection items for a particular patient.
Components	Elements of data from DHCP packages that make up the health summary report (e.g., Demographics).
DHCP	Decentralized Hospital Computer Program—previously the name for the VA program responsible for installing an integrated computer system in all DVA medical facilities. Now known as VISTA.
Default	Prompts that have an answer followed by double slashes (//) are called defaults; this means a response has been pre-selected, based on the most likely response or the previous response to this prompt. For example, the prompt "Time Limit:" may have a default of 1 year for Lab Orders and would appear as: Time Limit: 1Y//. Defaults save you time by allowing you to just hit return rather than typing an answer.
Device	A printer or a computer terminal screen. See the *DHCP Users Guide to Computing* for basic DHCP computer skills, including printing information.
Hospital Location Displayed	For some PCE components, when this flag is enabled, the Hospital Location abbreviation will be displayed.
ICD Text Displayed	For some components, Diagnosis Text can be customized (e. g., long form, short form, code only, or no form of ICD Diagnosis).
IB Encounter Form Utilities	The Integrated Billing Package (Encounter Form Utilities) includes a Print Manager that allows sites to define reports that should print along with the encounter forms for a specific clinic or division and for specified appointments. One of the options, "Define Available Health Summary", allows a

Health Summary to be made available for use by the print manager. See the *IB Encounter Form Utilities User Manual* for further information.

Lock Restricts edit access for a given health summary type to the holders of any valid security key. For example, the GMTSMGR key is required to edit summary types that are locked by the GMTSMGR lock.

Non-destructive Health Summary components are non-destructive, meaning that the Health Summary package does not edit the data from the DHCP package where it extracts its information.

Occurrence Limits The number of past occurrences that will be reported on a health summary (e.g., the last five occurrences).

Owner The creator of a health summary type. Owners and holders of the GMTSMGR security key have sole access to modify their health summary type(s).

Provider Narrative Displayed For some components, when this flag is enabled and a provider enters narrative text, the text will be displayed.

Summary Order The order in which components appear in a health summary, as defined by the creator of a Summary Type.

Summary Type The structure or template containing defined components and the unique characteristics with occurrence and time limits, and selection items. Used to print health summaries for patients.

Time Limits The time period of reference included on a health summary for a particular component (e.g., 2D, 1M, 1Y for two days, one month and one year).

VISTA The name for the VHA program responsible for installing an integrated computer system in all VHA medical facilities.

Appendix A—Defining New Components

We encourage sites to submit E3Rs for new components (or enhancements to existing components) that they believe will be useful on a national basis. The Health Summary Expert Panel (EP) will evaluate these requests. If the EP approves the request, these new components will be provided as patches or in a future version of the Health Summary package, depending on the priority that is given to the request.

Sites have the option to create new components for Health Summary to provide for their site-specific needs. This may be an enhancement to one of the components that Health Summary provides, it can be a totally new one that accesses DHCP data that Health Summary currently doesn't provide a component for, or it can be one to access non-DHCP supported (Class III software) packages.

NOTE: Please be aware that locally created components are not supported by National VISTA Service (NVS) or Systems Design and Development (SD&D).

A Health Summary basket has been set up on SHOP, ALL where sites can put their locally developed component routines, in order to share this information with the rest of the DHCP community. We encourage you to take a look at what has already been done, as this may save you some time.

To access SHOP,ALL from FORUM:
1. Enter SHOP,ALL at your menu prompt and you'll be "logged" on to SHOP,ALL
2. Enter SURROGATE NAME: **SHOP,ALL**
3. Select Mailman Option: **Read Mail**
4. Enter the Health Summary mail basket.

We would also like you to add any components you have created locally to SHOP,ALL .

Format for Adding Components to SHOP,ALL

If you have components you would like to share, please use the following instructions/format.

1. Start the subject of the message with:

   HS Vx.x -- brief subject/component name, where x.x will be the version

2. Include a description, sample of the report, and the routines to produce the report. The routine should be under the name-space assigned to your station; e.g., Madison=ALW, Cincinnati=AFR.

3. The message will go to the IN Basket at SHOP,ALL. The SHOP,ALL administrators will read the IN basket daily and save the message to a basket called Health Summary.

Hints for Developing local site components

Before writing your own components, review some of the existing routines that have been written. Some good examples are the Patient Care Encounter, the Discharge Summary, or the Compensation and Pension components with the display routines in the Health Summary name space and the extract routines in the custodial package's name-space. We suggest that when creating new components, you write two separate routines, one to extract the data and one to display the data. The display routine will call the extract routine and then display the data that was extracted.

Put any local routines you develop in your site's routine name-space.
Local site components will be entered into the Health Summary Component (File #142.1) file with an internal file number beginning with your site number plus an additional 3 digits (e.g. At Salt Lake VAMC the first number would be 660001). This is to assure that nationally developed components are not overlaid by local site-developed components or vice versa. You will be prompted with a valid number when you enter a new component via the
Create/Modify Health Summary Components option on the Health Summary Maintenance Menu.

For the extract routine, we recommend that you set the data to the
^TMP("name",$J) global. The display routine will get the data from this global and display/print it. For the extract routine, you call it with the DFN (Patient Internal File Number) variable. Optionally, you could set it up for time and occurrence limits. GMTSEND (FileMan date to be used as the ending date for displaying data, GMTSBEG (FileMan date to be used as the beginning date for displaying data, and GMTSNDM (Maximum number of occurrences to display) are the variables to use to allow for time and occurrence limits. In your extract

routine, make sure the date of the data is between the dates in the GMTSBEG and GMTSEND variables. Use the GMTSNDM variable to make sure you only get the maximum number of records that were entered for the occurrence limits.

Depending on how the cross-references are set up in the file you are extracting data from, you may want to use the reverse $ORDER M command or a cross-reference with an inverted FileMan date to get the most recent data first. When putting the data into the ^TMP global, you can invert the date (9999999-Date) as one of the subscripts. Or you can just include the date. When displaying the data, you will need to use the Reverse $ORDER M command to get the most recent data to display first, if you don't use an inverted date subscript.

NOTE: Inverted FileMan dates mean that the date (e.g. 2950630) will be subtracted from 9999999. This would give you 7049369. Inverted FileMan dates are used to order the data from most recent data to oldest data. With the Reverse $ORDER command, this convention won't necessarily need to be followed in the future. Prior to the Reverse $ORDER M command, it was necessary to put the retrieved data in the ^TMP array with a subscript in Inverted FileMan Date/time in order that the user would see the most current data first in the Health Summary display.

Once you have extracted the data, you can print or display it. To allow for page breaks (and in the interactive display the capability to terminate or jump to another component), it is important that you issue the following commands before printing a line of data.
    D CKP^GMTSUP Q:$D(GMTSQIT)

If this isn't done before each line is written, the length of the document may exceed the length of the page or screen. You also will not get the component header to display before displaying the data. It is important that no lines are written, and the above commands are not issued if there is no data. For version 2.7 of Health Summary we implemented the capability to suppress component headers and "No Data Available" messages for Health Summary Types. In order to make this work, the CKP^GMTSUP routine was updated to set a flag that data was printed for a component. After the Health Summary driver processes each component for a Health Summary Type, the system checks to see if data was displayed for the component. If no data was displayed, the driver determines whether or not to display the component header and "No Data Available" messages.

NOTE: For any local site components that were written prior to version 2.7, if you want to be able to suppress component headers and "No Data Available" messages, you will need to evaluate them and remove calls to BREAK^GMTSUP. This command should not be executed within your routines and you should not display the message that there was no data available. You also want to be sure not to execute CKP^GMTSUP until you have data to display.

Setting up a component to allow selection of specific items

If you want to set up a component to allow selection of specific items, review one of the existing components that allows this capability, then follow these steps.

1. Add "GMTS" to the Application Group field for the file you want to select items from. You can do this through FileMan with the Edit File option under the Utility Functions option.
2. Add the pointed to file to the variable pointer Selection Item (field #4) sub-field in the multiple Structure (Field #1) field in the Health Summary Type (file #142) file. Do this through FileMan with the Modify File Attributes option.
3. When entering a new component to the Health Summary Component (file #142.1), be sure to enter the File to the Selection Item field. This can be done through the Create/Modify Health Summary Components option on the Health Summary Maintenance Menu.
4. In your application code, access the GMTSEG variable to determine the Selection Items for the file. The format of this array is GMTSEG(GMTSEGN,file number,Selection Item internal file number). GMTSEGN is the internal file number for the component. You can $ORDER on the third subscript of the array and get the Selection Item's internal file number. In your extract routine you will then limit the extract to only retrieve records for the specified Selection Items.

NOTE: Typically, users at sites should not modify files. However, in order to include new components with selection items, it is necessary to modify a file's structure. Therefore, we recommend extreme caution while following the procedures above.

Create/Modify Health Summary Components

The following sample dialogue can assist you in creating your own local health summary components.

NOTE: When selecting components from the Ad Hoc Health Summary menu, entering "ALL" allows all components to be selected. If the first three characters of a HEADER NAME for a component are designated as "All", however, then only the defined component will be selected. Avoid conflicts and loss of functionality by not using "all" at the front of new header names.

```
Select Health Summary Maintenance Menu Option: 2 Create/Modify Health
Summary Components
Select COMPONENT: CHEM 7
  Are you adding 'CHEM 7' as a new HEALTH SUMMARY COMPONENT? Y  (Yes)
   HEALTH SUMMARY COMPONENT NUMBER: 5000001//
Do you wish to duplicate an existing COMPONENT? YES//
```

```
CD     Advance Directive   CY    Cytopathology       RXNV  Non VA Meds
BADR   Brief Adv React/All EM    Electron Microscopy ONC   Oncology
ADR    Adv React/Allerg    MIC   Microbiology        ORC   Current Orders
BNC    BRAND NEW COMPONENT BMIC  Brief Microbiology  ED    Education
CPB    Clin Proc   Brief   LO    Lab Orders          EDL   Education Latest
CMB    Reminder Brief      BLO   Brief Lab Orders    EXAM  Exams Latest
CR     Reminders Due       SP    Surgical Pathology  HF    Health Factors
CF     Reminders Findings  SLT   Lab Tests Selected  SHF   Health Factor Select
CLD    Reminders Last Done MAGI  MAG Imaging         IM    Immunizations
CM     Reminder MaintenanceADC   Admission/Discharge OD    Outpatient Diagnosis
CRS    Reminders Summary   ADT   ADT History         OE    Outpatient Encounter
CW     Clinical Warnings   EADT  ADT History ExpandedST    Skin Tests
CP     Comp. & Pen. Exams  CVF   Fut Clinic Visits   RXIV  IV Pharmacy
CNB    Brief Consults      CVP   Past Clinic Visits  RXOP  Outpatient Pharmacy
CN     Crisis Notes        CON   Patient Contacts    RXUD  Unit Dose Pharmacy
DI     Dietetics           DEM   Demographics        PLA   Active Problems
DCS    Discharge Summary   BDEM  Brief Demographics  PLL   All Problems
BDS    Brief Disch Summary DS    Disabilities        PLI   Inactive Problems
ENV    Full Environment    DD    Discharge Diagnosis       PROBLEM LSIT
FR     Fred                DC    Discharges          PN    Progress Notes
AVC    GEC                 MHFV  MH Clinic Fut VisitsBPN   Brief Progress Notes

Press RETURN to continue or '^' to exit:

GECC   Referral Count      PRC   ICD Procedures      SPN   Selected Prog Notes
GECH   Referral Categories OPC   ICD Surgeries
GAF    Global Assess Funct TR    Transfers           SCD   Spinal Cord Dysfunct
HS     HS Environment      TS    Treating Specialty  NSR   NON OR Procedures
II     Imaging Impression  MEDA  Med Abnormal        SRO   Surgery Only Reports
SII    Sel Image ImpressionMEDB  Med Brief Report    SR    Surgery Rpt (OR/NON)
IP     Imaging Profile     MEDC  Med Full Captioned  BSR   Brief Surgery Rpts
IS     Imaging Status      MEDF  Med Full Report     SNSR  Selected NON OR Proc
                           MEDS  Med (1 line) SummaryTC    TRAINING COMPONENT
                           MHPE  MH Physical Exam    URIN  URINALYSIS
BA     Blood Availability  MHRF  MH Suicide PRF Hx   VS    Vital Signs
BT     Blood Transfusions  MHTC  MH Treatment Coor   VSD   Detailed Vitals
CH     Chem & Hematology   MHAL  MHA Admin List      VSO   Vital Signs Outpat.
SCLU   Lab Cum Selected    MHAS  MHA Score           SVS   Vital Signs Selected
SCL1   Lab Cum Selected 1  MHVD  Detail Display      SVSO  Vital Select Outpat.
SCL2   Lab Cum Selected 2  MHVS  Summary Display
SCL3   Lab Cum Selected 3  MRT2  Medication Worksheet
SCL4   Lab Cum Selected 4  NOK   Next of Kin
```

```
Enter COMPONENT to Duplicate: SCLU   Lab Cum Selected
NAME: CHEM 7// <RET>
ABBREVIATION: CH7
DESCRIPTION:. . .
  1>This component contains information extracted from the Lab package. Not
  2>only do time and maximum occurrence limits apply to this component, but
  3>the user is allowed to select any number of atomic Lab tests. Data
  4>presented include:  collection date/time, specimen, test names with
  5>results and reference flags in columnar (horizontal) format. Comments will
  6>also be conditionally displayed, depending on the value of the DISPLAY
  7>COMMENTS ON LABS Health Summary Site Parameter. When comments are
  8>displayed, a lower case letter will be displayed to the left of the date
  9>for entries with comments. Comments will be displayed after all the
 10>results are displayed with comments being linked by the lower case letter.
 11>Up to 26 comments can be included.
EDIT Option: <RET>
PRINT ROUTINE: MAIN;GMTSLRSC// ??
     This is the entry point and routine to be called when the component is
     run for a given health summary type.  Enter the line label, followed by
     a semi-colon, followed by the routine name (e.g., MAIN;GMTSLRC).
PRINT ROUTINE: MAIN;GMTSLRSC// <RET>
TIME LIMITS APPLICABLE: yes// ??
     This field is set up by the programmer to indicate whether the routine to
     print this component will allow a time range to be applied to the data
     to be displayed in the Health Summary.
     Choose from:
       Y        yes
TIME LIMITS APPLICABLE: yes// <RET>
MAXIMUM OCCURRENCES APPLICABLE: yes// ??
     This field is used by the programmer to indicate whether the routine
     which prints this component is set up to handle maximum occurrence limits
     on the Health Summary.
     Choose from:
       Y        yes
MAXIMUM OCCURRENCES APPLICABLE: yes// <RET>
HOSPITAL LOCATION APPLICABLE: ??
     This field is used by the programmer to indicate whether the routine
     which prints this component is set up to handle the display of the
     hospital location abbreviation on the Health Summary.
     Choose from:
       Y        yes
HOSPITAL LOCATION APPLICABLE: <RET>
ICD TEXT APPLICABLE: ??
     This field is used by the programmer to indicate whether the routine
     which prints this component is set up to handle the display of
     standardized ICD text on the Health Summary.
     Choose from:
       Y        yes
ICD TEXT APPLICABLE:<RET>
PROVIDER NARRATIVE APPLICABLE: ??
     This field is used by the programmer to indicate whether the routine
     which prints this component is set up to handle the display of the
     provider narrative on the Health Summary.
     Choose from:
       Y        yes
PROVIDER NARRATIVE APPLICABLE: <RET>
LOCK: ??
     To be used for components such as psychology test results
     Restricts viewing access under Print Health Summary Menu
LOCK: <RET>
DEFAULT HEADER NAME: ??
     The DEFAULT HEADER NAME will appear in menus and component headers in
     preference to the COMPONENT NAME, but NOT in preference to the local
```

```
        HEADER NAME, if it is defined for that component within a given Health
        Summary Type.  If defined the local HEADER NAME will have precedence
        within a given Health Summary Type.
DEFAULT HEADER NAME: Chem 7
Select SELECTION FILE: ??

Choose from:
    LABORATORY TEST

        Enter the names or numbers of the files from which selection items
        (e.g., lab tests (file 60), radiology procedures (file 71), or vital
        signs (file 120.51)) may be chosen for this component.

Choose from:
    60              LABORATORY TEST
    71              RADIOLOGY PROCEDURES
    120.51          VITAL TYPE
    811.9           PCE REMINDER/MAINTENANCE ITEM
    9001017         HEALTH SUMMARY MEAS PANEL
    9999999.64      HEALTH FACTORS

Select SELECTION FILE: 60  LABORATORY TEST
        ...OK? Yes// <RET>  (Yes)

  SELECTION FILE: LABORATORY TEST// <RET>
  SELECTION COUNT LIMIT: ??
      Enter the MAXIMUM number of selection items which may be selected for
      any single appearance of this component in a given health summary type.
      That is, a value of 7 will allow the user to select as many as seven
      items, etc.
  SELECTION COUNT LIMIT: 7
Select SELECTION FILE: <RET>

ADD new Component to the AD HOC Health Summary? NO// y  YES

>>> EDITING the GMTS HS ADHOC OPTION Health Summary Type
SUPPRESS PRINT OF COMPONENTS WITHOUT DATA: ??
      This field allows health summary types to be set up to suppress printing
      of components that contain no data when health summaries are printed from
      a device. When health summary types are displayed on the screen,
      components that contain no data will still be displayed with a "No data
      available" message. This is done to eliminate any confusion that may
      occur when jumping between components.
      Choose from:
        Y         yes
        N         no
SUPPRESS PRINT OF COMPONENTS WITHOUT DATA: y  yes

Do you wish to review the Summary Type structure before continuing? NO// <RET>
Select COMPONENT: CHEM 7//  <RET>   CH7
SUMMARY ORDER: 395// 395
OCCURRENCE LIMIT: 5
TIME LIMIT: 21d
HOSPITAL LOCATION DISPLAYED: y  yes
ICD TEXT DISPLAYED: ??
      Indicate whether the long form, short form, code only, text only, or no
      form of ICD diagnosis text should appear in applicable components.
      Choose from:
        L         long text
        S         short text
        C         code only
        T         text only
        N         none
```

```
ICD TEXT DISPLAYED: c  code only
PROVIDER NARRATIVE DISPLAYED: y  yes
HEADER NAME: Chem 7// <RET>

No selection items chosen.

Select new items one at a time in the sequence you want them displayed.
You may select up to 7 items.

Select SELECTION ITEM: CHEM 7

     Searching for a LABORATORY TEST  CHEM 7
        ...OK? Yes// <RET>  (Yes)

              Select the tests which you wish to include, in the
                 sequence in which you wish them to appear.

                          -- CHEM 7 --

1    CREATININE                      5    CHLORIDE
2    UREA NITROGEN                   6    CO2
3    SODIUM                          7    GLUCOSE
4    POTASSIUM                       8    ANION GAP

Select 1 - 7 LAB TEST(s): 1-7// 1-5,8   CREATININE   UREA NITROGEN   SODIUM
                                         POTASSIUM   CHLORIDE   ANION GAP
Select SELECTION ITEM:
Please hold on while I resequence the summary
order...........................
...............................................

>>> Returning to Create/Modify Health Summary Component Option.

Select COMPONENT: <RET>
```

Next, we'll illustrate the case where a Nuclear Medicine component, created on site, is to be added to the component file and Ad Hoc Summary Type.

```
Select Health Summary Maintenance Menu Option: 2 Create/Modify Health Summary
Components

Create/Modify Health Summary Components
Select COMPONENT: NUCLEAR MEDICINE
  Are you adding 'NUCLEAR MEDICINE' as
    a new HEALTH SUMMARY COMPONENT? Y  (Yes)
   HEALTH SUMMARY COMPONENT NUMBER: 5000002// <RET>
Do you wish to duplicate an existing COMPONENT? YES// NO
NAME: NUCLEAR MEDICINE//  <RET>
PRINT ROUTINE: ??
     This is the entry point and routine to be called when the component is
     run for a given health summary type.  Enter the line label, followed by
     a semi-colon, followed by the routine name (e.g., MAIN;GMTSLRC).
PRINT ROUTINE: NUC;A5AMED
ABBREVIATION: NUC
DESCRIPTION:
  1>This component, created at <site name>, prints nuclear medicine
  2>report data, including: Study date time, Radiologist, Report Status,
  3>Impression, and Report text.
  4> <RET>
EDIT Option: <RET>
TIME LIMITS APPLICABLE: y  yes
MAXIMUM OCCURRENCES APPLICABLE: y  yes
```

```
HOSPITAL LOCATION APPLICABLE: <RET>
ICD TEXT APPLICABLE:<RET>
PROVIDER NARRATIVE APPLICABLE: <RET>
LOCK:  <RET>
DEFAULT HEADER NAME: Nuclear Medicine
Select SELECTION FILE:  <RET>


ADD new Component to the AD HOC Health Summary? NO// y  YES

>>> EDITING the GMTS HS ADHOC OPTION Health Summary Type
SUPPRESS PRINT OF COMPONENTS WITHOUT DATA: yes//  <RET>

Do you wish to review the Summary Type structure before continuing? NO//<RET>
Select COMPONENT: NUCLEAR MEDICINE//  <RET>  NUC
SUMMARY ORDER: 400// 400
OCCURRENCE LIMIT: 5
TIME LIMIT: 21d
HOSPITAL LOCATION DISPLAYED: y  yes
ICD TEXT DISPLAYED: ??
     Indicate whether the long form, short form, code only, text only, or no
     form of ICD diagnosis text should appear in applicable components.
     Choose from:
       L         long text
       S         short text
       C         code only
       T         text only
       N         none
ICD TEXT DISPLAYED: c  code only
PROVIDER NARRATIVE DISPLAYED: y  yes
HEADER NAME: Nuclear Medicine// <RET>
Please hold on while I resequence the summary order..........................
...................................................

>>> Returning to Create/Modify Health Summary Component Option.
Select COMPONENT: <RET>
```

Appendix B—Health Summary Security

Health summaries produced by this package are highly confidential and should be treated with the same security precautions as a patient's medical record.

Menu Access

The Health Summary Overall Menu [GMTS MANAGER] contains four menus.

1. GMTS USER
2. GMTS ENHANCED USER
3. GMTS COORDINATOR
4. GMTS IRM/ADPAC MAINT MENU

Assign these menus as follows. (See the *Health Summary User Manual* for complete user descriptions of menus and options).

1. Give the Health Summary Menu [GMTS USER] menu to users who only need to print or display health summaries.

2. Give the Health Summary Enhanced Menu [GMTS ENHANCED USER] menu to users who need to create, modify, or delete their *own* health summary types, in addition to printing health summaries.

3. Give the Health Summary Coordinator's Menu [GMTS COORDINATOR] menu to users who need to print or display health summaries, and who will also need to create, modify, or delete health summary types, and set up nightly batch printing at specified locations.

5. Give the Health Summary Maintenance Menu [GMTS IRM/ADPAC MAINT MENU] to IRM staff or the Clinical Coordinator for any implementation and maintenance issues in Health Summary. This menu contains options to disable/enable health summary components for selection/display, create/modify new health summary components, edit and rebuild the Ad Hoc Health Summary Type, re-sequence the components in a health summary type, create/modify a health summary type, delete a health summary type, and edit health summary site parameters. With the release of GMTS*2.7*94 patch, it also contains a new GMTS PS MED RECON CONFIG CHECK option which will check the HEALTH SUMMARY TYPE 'Essential Med List for Review' to make sure it holds certain HEALTH SUMMARY COMPONENTs for which it was created in the first place.

Security

Security is established via a combination of the GMTSMGR and GMTS VIEW ONLY security keys and the OWNER and LOCK fields in File 142 (Health Summary Type file).

GMTSMGR Security Key

The GMTSMGR security key allows holders to override the LOCK and OWNER access restrictions for editing health summary types. The IRM Chief and Health Summary Coordinators are likely holders of this key.

This security key allows the holder to edit general usage health summary types which are locked with the GMTSMGR key. It also provides master edit access to all other health summary types.

GMTS VIEW ONLY Security Key

The GMTS VIEW ONLY key allows holders to view a health summary on the CRT. Holders may use all of the familiar Health Summary options but will not be prompted for a device for printing paper copies of the health summary.

Health Summary Type File

Owner

Owners of health summary types have edit access to health summary types they have created. The owner is designated when a health summary type is created. Usually the creator of a health summary type is automatically designated as its owner. However, if creators of heath summary types hold the GMTSMGR key, they may designate another person as the owner. If you are assigned the GMTSMGR key, you are *not* automatically designated as the owner. You may, however, enter your name as the "owner."

Lock

This field can be used to specify a security key and is designated when the health summary type is created. This lock gives edit access for that health summary type to anyone who holds the matching security key. For example, someone creating a Pathology Health Summary Type may want to enter LRSUPER as the lock, thereby giving edit access to any holder of the LRSUPER security key. The four health summary types exported with the Health Summary package have the GMTSMGR lock.

A lock does not restrict an owner —the lock gives permission. If a health summary type is locked, the owner of the health summary type is not required to have the key to access it; however, all other users must have the key.

Health Summary Object File

Creator

Creators of health summary objects have edit access to health summary objects they have created. The creator is designated when a health summary object is created.

Health Summary Component File

Lock

You may restrict any component from view by entering the name of a valid security key in the LOCK field for a given component. For example, if your site decides that only holders of the LRSPUSER key should be allowed to view the Surgical Pathology Health Summary component, then entering the name of that security key in the LOCK field of that component's record will enforce that policy.

VA FileMan File Protection

The Health Summary package files are exported with the following file protection provided by VA FileMan.

File Number	Name	DD	RD	WR	DEL	LAYGO	AUDIT
File 142	Health Summary Type	@				@	@
File 142.1	Health Summary Components	@		@	@	@	@
File 142.5	Health Summary Objects	@	@	@	@	@	@
File 142.98	Health Summary User Preferences	@	@	@	@	@	@
File 142.99	Health Summary Parameters	@	@	@	@	@	@

Appendix C: Patch Overviews

Patch GMTS*2.7*144 Cleanup for Multiple Releases

This patch and its associated supporting patches correct post-deployment issues with Sexual Orientation 1.0, CPRS v32b, and Self-Identified Gender Identity (SIGI). The following issues are addressed:

1. The MAS DEMOGRAPHICS OTHER (DEMC) component is renamed to MAS DEM. SEXUAL ORIENTATION (DEMS), so users know what information the component displays.

2. A new type named VA-MAS DEM SEXUAL ORIENTATION and a new object named VA-MAS DEM SEXUAL ORIENTATION (TIU) are created, which allows other packages to use the MAS DEM. SEXUAL ORIENTATION component.

3. A new component named MAS DEMOGRAPHICS PRONOUNS (DEMP) is created, which will display a patient's preferred pronouns. Additionally, a new type named VA-MAS DEM PRONOUNS and a new object named VA-MAS DEM PRONOUNS (TIU) are created, which allow other packages to use the new component.

4. A new component named MAS DEMOGRAPHICS GENDER ID (DEMG) is created , which will display a patient's gender identity. Additionally a new type named VA-MAS DEM GENDER IDENTITY and a new object named VA-MAS DEM GENDER IDENTITY (TIU) are created, which allow other packages to use the new component.

5. Contraindication and refusal information are added to the following components:

    PCE IMMUNIZATIONS (IM)

    PCE IMMUNIZATIONS DETAILED (DIM)

    PCE IMMUNIZATIONS SELECT CHRON (SIMC)

    PCE IMMUNIZATIONS SELECTED (SIM)

    PCE IMMUN SELECT REVERSE CHRON (SIMR)

Patch GMTS*2.7*115 Updates for Indication for Use on EMLR Health Summary Ad hoc Reports

GMTS*2.7*115 is installed as part of the CPRS v32b release. This patch introduces the support for New Service Request (NSR) 20100101, related to Essential Medication List for Review (EMLR) Health Summary Ad hoc Reports MRR1, MRT1, RXOP, RXDC and RXOI. The indication for use for the medication orders, if available, will display now on these health summary objects/reports.

Patch GMTS*2.7*141 update releases an Ad-Hoc Health Summary Component that will display sexual orientation data from the PATIENT (#2) file. Specifically, the SEXUAL ORIENTATION (#.025) multiple field and the SEXUAL ORIENTATION DESCRIPTION (#.0251) field, where appropriate.

Patch GMTS*2.7*125 Updates for Health Summary Components
GMTS*2.7*125 will be installed with patches PSN*4*567 and PSS*1*234, to release two new national Health Summary components that can be used to create objects or in Ad hoc reporting.

The components will allow selecting Outpatient prescriptions by drug class (VA classification) or by Pharmacy Orderable Item name. The component names are RXDC for drug classes and RXOI for Orderable Items.

Patch GMTS*2.7*94 Updates for the Essential Med List for Review
GMTS*2.7*94 will be installed with PSO*7*314 to correct issues reported with the Tool #1: Medication Reconciliation. The Health Summary patch GMTS*2.7*94 will create a national entry in the HEALTH SUMMARY COMPONENT file (#142.1) for Tool #1: Med. Reconciliation (the abbreviation is MRT1).

Furthermore, a replica of the Tool #1 Medication Reconciliation called Medication Reconciliation No Glossary Tool #1 (the abbreviation is MRR1) will be created. The only difference between the two components is whether the Health Summary has a glossary. In the Essential Med List for Review Health Summary type, the site can use either the MRT1 component if they want the glossary at the end of the Health Summary, or if the site uses the MRR1 component, the same Health Summary will be displayed without the glossary at the end of the report.

Another feature recently added was to include all Dispense Drug data, including BCMA Last Action, into the report for Inpatient Medication data which incorporates Dosage information as well.

The GMTS*2.7*94 patch changes include the following:

1. Usage of data from other VA pharmacies via Remote Data Interoperability (RDI) updated to include prescriptions where the status is "HOLD".

2. The Essential Med List for Review was upated to retrieve all necessary BCMA actions, particularly for large volume IVs.

3. Corrected the service for Clinic Medications that used to show the service as "INPT". The service for Clinic Medications now reads "CLIN".

4. Ensured that the most recent order information was being correctly gathered. The change involved looking at the correct field in the prescription information and no longer infer that the latest expiration date implied the latest prescription.

5. The tool was modified to display multiple line provider comments in a more readable fashion.

6. The program was updated to assume that DoD prescriptions with an issue date more than 1 year in the past must be, by definition, now expired or discontinued and will no longer be considered "ACTIVE" even though that is precisely what is returned by the CHDR data.

7. The section of the report that showed "Other medications previously dispensed in the last year" was misleading. For example, prescriptions with no refills that were over 120 days old would not display at all. In some cases, this led to the belief that the Sig that was displaying was incorrect. The section in question has been removed from the report and the medications needed for the report were incorporated into the main body of the report.

8. The code was modified to recognize the On Call property flag for IV types of admixtures.

9. The following changes were also made:
   - Introductory text changed to describe what the report contains, what is does not contain, and that it specify what remote data is shown
   - Remote data warnings that give some information about why remote data may not display
   - Changes in the status names (Hold changed to On Hold, Suspended changed to Active/Suspended, etc)
   - Rx# added to active outpatient prescriptions
   - QTY added to days supply for outpatient
   - Status added to inpatient entries
   - Additive strength added to Intravenous Piggyback (IVPB) orders
   - Added pending orders to inpatient and outpatient
   - INP changed to INPT and OPT changed to OUTPT
   - Added additive strength and bags/day to inpatient IV Adm
   - Added status, admin rate, dose and freq to IVPBs, including number of bags per order
   - Added volume and rate of infusion to IV Adms
   - Supplies now separated from medications list

Example of the Essential Med List for Review with the medication reconciliation information, allergy information, and the glossary of terms

```
                                        08/16/2018 11:01
*********  CONFIDENTIAL Essential Med List for Review SUMMARY   pg. 1
**********
PLJH,YDJEXALT    000-00-6671                               DOB: 00/08/1957

------------------------- MRT5 - Allergies/ADRs -------------------------
```

```
FACILITY                             ALLERGY/ADR
--------                             ----------
*** WARNING: Remote Data from HDR not available ***
------------------------ MRT1 - Med Reconciliation ------------------------


INCLUDED IN THIS LIST:  Alphabetical list of active outpatient
prescriptions dispensed from this VA (local) and dispensed from another
VA or DoD facility (remote) as well as inpatient orders (local pending and
active), local clinic medications, locally documented non-VA medications,
and local prescriptions that have expired or been discontinued in the past
90 days.

Non-VA Meds Last Documented On: ** Data not found **
*************************************************************************

***NOTE*** The display of VA prescriptions dispensed from another VA or
DoD facility (remote) is limited to active outpatient prescription entries
matched to National Drug File at the originating site and may not include
some items such as investigational drugs, compounds, etc.

NOT INCLUDED IN THIS LIST: Medications self-entered by the patient into
personal health records (i.e. My HealtheVet) are NOT included in this
list. Non-VA medications documented outside this VA, remote inpatient
orders (regardless of status) and remote clinic medications are NOT
included in this list. The patient and provider must always discuss
medications the patient is taking, regardless of where the medication was
dispensed or obtained.


-------------------------------------------------------------------------
OUTPT AMITRIPTYLINE HCL 10MG TAB (Status = Active)
       TAKE TWO TABLETS BY MOUTH AT BEDTIME *MAY CAUSE DROWSINESS-AVOID
       ALCOHOL*
          Rx# 1002453 Last Released:          Qty/Days Supply: 60/30
          Rx Expiration Date: 8/15/19         Refills Remaining: 11


OUTPT CEPHALEXIN 250MG CAP (Status = Active/Suspended)
       TAKE SIX CAPSULES MOUTH BEFORE MEALS AND AT BEDTIME ** TAKE ON AN
       EMPTY STOMACH **
          Rx# 1002437 Last Released:          Qty/Days Supply: 720/30
          Rx Expiration Date: 8/25/18         Refills Remaining: 0


OUTPT DIAZEPAM 5MG TAB (Status = Pending)
       TAKE ONE-HALF TABLET BY MOUTH TWICE A DAY *MAY CAUSE
       DROWSINESS-AVOID ALCOHOL*
          Login Date: 8/15/18                 Qty/Days Supply: 30/30
                                              Refills Ordered: 0

OUTPT DIGOXIN TAB (Status = Pending)
       TAKE 0.25MG BY MOUTH DAILY
          Login Date: 1/3/18                  Qty/Days Supply: 30/30
                                              Refills Ordered: 3

OUTPT DIPHENHYDRAMINE HCL 50MG CAP (Status = Pending)
       TAKE 1 CAPSULE subcutaneous EVERY EVENING *MAY CAUSE
       DROWSINESS-AVOID ALCOHOL*
          Login Date: 4/26/18                 Qty/Days Supply: 30/30
                                              Refills Ordered: 0
```

```
OUTPT FENTANYL 25UG/H PATCH (Status = Active)
        APPLY 1 PATCH AS DIRECTED EVERY THIRD DAY *MAY CAUSE
        DROWSINESS-AVOID ALCOHOL*
            Rx# 1002452 Last Released:            Qty/Days Supply: 10/30
            Rx Expiration Date: 9/13/18           Refills Remaining: 0


OUTPT GABAPENTIN 300MG CAP (Status = Pending)
        TAKE 2 CAPSULES subcutaneous TWICE A DAY
            Login Date: 4/26/18                   Qty/Days Supply: 120/30
                                                  Refills Ordered: 0

OUTPT GLIPIZIDE 10MG TAB (Status = Pending)
        TAKE ONE TABLET BY MOUTH TWICE A DAY
            Login Date: 1/3/18                     Qty/Days Supply: 60/30
                                                  Refills Ordered: 0

OUTPT MONTELUKAST NA 10MG TAB (Status = Pending)
        TAKE ONE TABLET BY MOUTH FOUR TIMES A DAY
            Login Date: 1/3/18                     Qty/Days Supply: 120/30
                                                  Refills Ordered: 0

OUTPT SIMVASTATIN 20MG TAB (Status = Pending)
        TAKE ONE TABLET subcutaneous DAILY AT BEDTIME
            Login Date: 4/26/18                    Qty/Days Supply: 30/30
                                                  Refills Ordered: 0



-----------------------------------------------------------------------
                             SUPPLIES
-----------------------------------------------------------------------


==========PHARMACY TERMS AND POSSIBLE PATIENT ACTIONS==========

INPT = VA inpatient order
IV = VA intravenous medication
OUTPT = VA outpatient prescription

PHARMACY                                    POSSIBLE PATIENT
TERMS       EXPLANATION                     ACTIONS
--------    ------------------------------  -----------------

ACTIVE      A prescription that can be      If you have refills,
            filled at the local VA pharmacy. you may request a
                                            refill of this
                                            prescription from
                                            your VA pharmacy.

CLINIC      A medication you received during If you have questions
            a visit to a VA clinic or       about this medication
            emergency department.           contact your VA
            healthcare team.

DISCONTINUED A prescription your provider has Contact your VA
            stopped. It is no longer        healthcare team if you
            available to be sent to you or  need more of this
            picked up at the VA pharmacy    medication.
            window.

EXPIRED     A prescription which is too old  Contact your VA
            to fill. This does not refer to  healthcare team if you
```

```
                 the expiration date of the        need more of this
                 medication in the container.       medication.

NON-VA           A medication that came from        If this medication is
                 someplace other than a VA          medication information
                 pharmacy. This may be a            is incorrect or out of
                 prescription from either the VA    date, please tell your
                 other providers that was filled    VA healthcare team.
                 outside the VA. Or, it may be an
                 over-the-counter (OTC), herbal,
                 dietary supplement or sample
                 medication.

ON HOLD          An active prescription that will   Contact your VA
                 not be filled until pharmacy       pharmacy when you need
                 resolves the issue.                more of this
                                                    medication.

PENDING          This prescription order has been   If you have been
                 sent to the pharmacy for review    instructed to start the
                 and is not ready yet.              this medication now,
                                                    contact your VA
                                                    pharmacy.

SUSPENDED        An active prescription that is     Contact your VA
                 not scheduled to be filled yet.    pharmacy if you need
                 You should receive it before you   this medication
                 run out.                           now.


=================================================================
*** END *  CONFIDENTIAL Essential Med List for Review SUMMARY   pg. 1 *********
```

Example of the Essential Med List for Review showing Rx# for existing and renewed medications

Example of the Essential Med List for Review showing an active/suspended medication and more information for IVPB for both Clinic and Inpatient medications. The second item that is highlighted is a medication with a long SIG.

Example of the Essential Med List for Review showing several medications from different sources, such as Inpatient (INPT), Non-VA, Oupatient (OUTPT), and Clinic (CLIN). The report shows medication statuses of Pending and Active. The report now provides more information for Non-VA meds.

Example of the Essential Med List for Review showing a remote medication on hold

Health Summary Essential Med List For Review

NOT INCLUDED IN THIS LIST: Medications self-entered by the p
personal health records (i.e. My HealtheVet) are NOT include
list. Non-VA medications documented outside this VA, remote
orders (regardless of status) and remote clinic medications
included in this list. The patient and provider must always
medications the patient is taking, regardless of where the m
dispensed or obtained.

Non-VA ABACAVIR SULFATE 300MG TAB
        TAKE ONE TABLET BY MOUTH 5XD

Non-VA ACACIA POWDER
        USE 1MG MOUTH TWICE A DAY Medication prescribed by
        Non-VA provider.

Non-VA ACARBOSE 25MG TAB
        TAKE ONE TABLET BY MOUTH EVERY 4 HOURS TODAY SOME
        COMMENTS

Non-VA ACARBOSE 50MG TAB
        TAKE ONE TABLET BY MOUTH TWICE A DAY Non-VA
        medication not recommended by VA provider.

OUTPT ACETAMINOPHEN 160MG/5ML LIQUID (Status = Pending)
        TAKE ?TAB BY MOUTH EVERY 4 HOURS
             Login Date: 6/28/16   Qty/Days S
                                                  Refills Or

Remote ACETAMINOPHEN TAB
        500MG BY MOUTH EVERY SIX HOURS AS NEEDED
             Last Filled: 09/09/17 (Hold at SALT LAKE VA PHARM)
             Rx Expiration Date: 12/31/17   Days :

CLIN ACETAMINOPHEN TAB (Status=Pending)
        500MG BY MOUTH EVERY SIX HOURS AS NEEDED

INPT ACETAMINOPHEN TAB (Status=Pending)
        650MG BY MOUTH EVERY SIX HOURS AS NEEDED

CLIN ACETAZOLAMIDE INJ (Status=Pending)
        ACETAZOLAMIDE BY INJECTION 1 MG, ALDESLEUKIN BY
        INJECTION 2 MU, AMIKACIN INJ,SOLN 3 MG in AMINO ACIDS
        7% BY INJECTION 500 ml IV 30 ml/hr

Available Reports panel (left side):
- Adhoc Report
- Brief Clinical
- Inpatient
- Outpatient
- Camp Cprs Health Summary
- Patient Education
- Comprehensive Med List
- Remote Clinical Data (4y)
- Immunizations/Skin Tests
- Exams And Health Factors
- Remote Clinical Data (1y)
- Reminders Due
- Remote Dis Sum/Surg/Prod (12y)
- Remote Labs All (1y)
- Remote Labs All (3m)
- Remote Clinical Data (3m)
- Remote Labs Long View (12y)
- Med List
- Med List
- Remote Oncology View
- Remote Text Reports (3m)
- Medication Reconciliation
- Essential Med List For Review
- Medication Worksheet
- Remote Meds/Labs/Orders (1y)
- Surgery Reports
- Remote Outpatient Meds (6m)
- Cardiology Reports
- Diabetic Teleretinal Imaging
- Remote Data 10y
- Ptf Icd10 Change Testing
- HDR Reports
- Dept. of Defense Reports
- Imaging
- Graphing (local only)
- GRAPHS
- Lab Status
- Blood Bank Report
- Anatomic Pathology
- Dietetics Profile
- Nutritional Assessment

Example of the Essential Med List for Review showing a new inpatient and outpatient medication status abbreviations and how there is additional information for IV Infusions
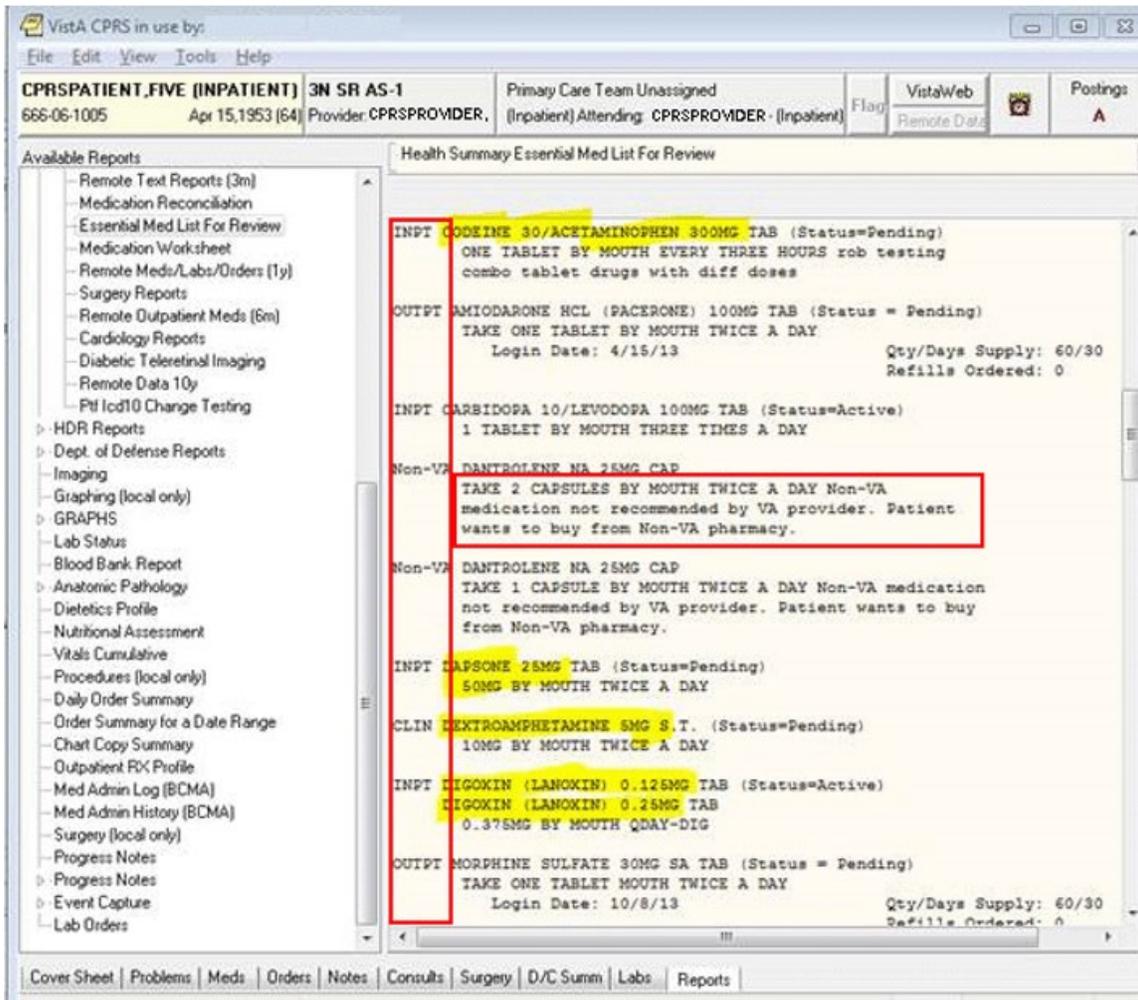
Patch GMTS*2.7*120 – HEALTH SUMMARY UPDATE FOR MEDICATION RECONCILIATION TOOL #2 (MRT2)

Currently, on the MRT2 non-VA medications do not display in the same manner as VA-prescribed medications. Patch GMTS*2.7*120 removes the inconsistencies in the display on the patient-facing report generated from the Health Summary data and given to the patient when admitted, discharged, or transferred. Per the Joint Commission's NPSG.03.06.01, a medication summary must be given to a patient upon each admission, discharge or transfer. The document used currently does not display non-VA medication information as thoroughly as it does VA medications. Even when all information is available, the MRT2 report does not present the Non-VA meds consistently. In fact, there is no 'worksheet space' available for the non-VA medications.

Note that non-VA medication orders are not required to have all the same fields as a VA prescribed medication.

An example of a complete patient-facing report using health summary information is as follows:

```
*********** CONFIDENTIAL Medication Worksheet SUMMARY pg. 1 ***********
BCMA,FIFTEEN-PATIENT   666-33-0015                  DOB: 04/07/1935
                        3 NORTH GU

--------------- MWS - Medication Worksheet (Tool #2) ---------------


Date: Jul 24, 2017        PATIENT MEDICATION INFORMATION      Page: 1
          PRINTED BY THE VA MEDICAL CENTER AT: CAMP MASTER
            FOR PRESCRIPTION REFILLS CALL (518) 472-4307

Name: BCMA,FIFTEEN-PATIENT      PHARMACY - ALBANY DIVISION

|-------------------------------------------------------------------|
|            |MORNING| NOON    |EVENING|BEDTIME|     COMMENTS        |
|~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~|
|                                                                   |
|**PENDING**  ACARBOSE  25MG  TAB                                   |
|     TAKE ONE TABLET BY MOUTH 3XW                                  |
|     Quantity: 5 Refills: 0                                        |
|-------------------------------------------------------------------|


|~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~|
|                                                                   |
|**PENDING**  ACETAMINOPHEN 325MG                                   |
|     TAKE ONE TABLET BY MOUTH EVERY 4 HOURS AS NEEDED              |
|     Quantity: 180 Refills: 0                                      |
|-------------------------------------------------------------------|
| UNITS PER DOSE: |       |       |       |       |                 |
|~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~|
|                                                                   |
|**NON-VA** ACARBOSE 25MG TAB                                       |
|     TAKE ONE TABLET BY MOUTH 3ID Do not take medication when      |
|     consuming alcohol. Take with a full glass of water only. Take on|
|     a full stomach. Do not mix with aspirin. Contact your provider |
|     if you experience dizziness, excessive thirst, or hunger.     |
|-------------------------------------------------------------------|
| UNITS PER DOSE: |       |       |       |       |                 |
|-------------------------------------------------------------------|
```

Any medication items listed as "pending" are those that have just been written by your provider(s). These medication orders will be reviewed by your pharmacist, prior to the prescription(s) being dispensed. When you receive your new prescription(s), by mail or from the pharmacy window, be sure to follow the instructions on the prescription label. If you have any question about your medication, please call your provider or your pharmacist.

Any medication items listed as "NON-VA" are Medications you do not get from a VA pharmacy that your provider recorded in your medical record. This includes medication prescribed by VA or non-VA providers, over the counter medications, herbals, samples or other medications you take.

The screenshot below shows an example of a new and improved 'NON-VA' medication. It now has any entered comments listed with the medication.
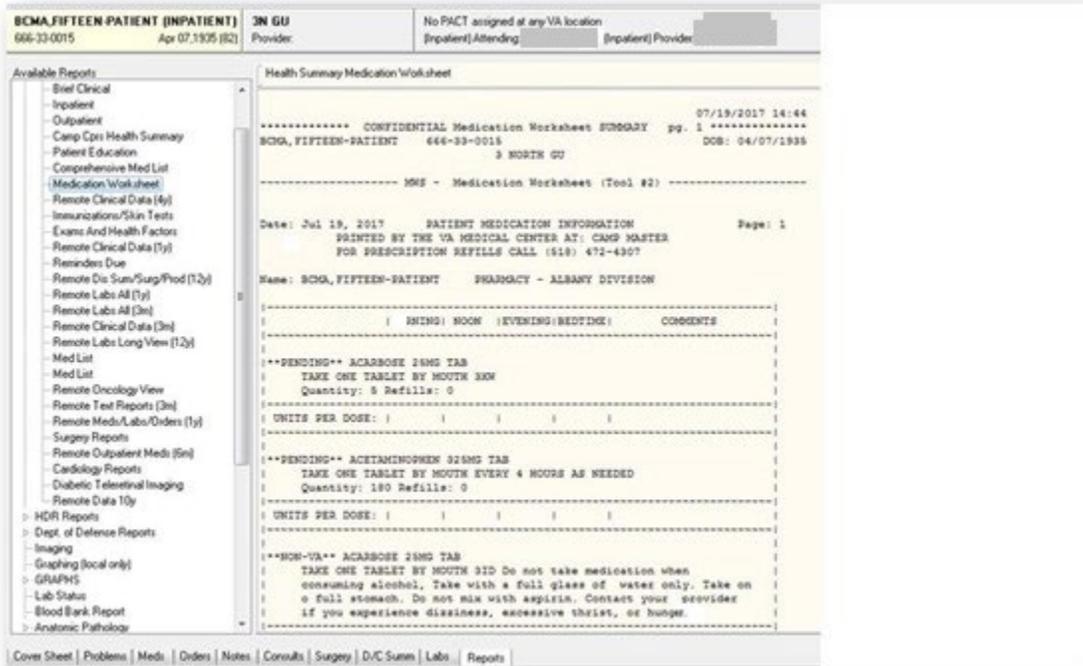
Patch GMTS*2.7*111 – HEALTH SUMMARY UPDATE FOR ICD-10 PTF PROJECT

Patch GMTS*2.7*111 updates the following Health Summary Components (#142.1) to include an expanded number of diagnosis codes (1 primary and up to 24 secondary diagnoses), operation/surgery codes (up to 25), and procedure codes (up to 25) that may be present in the Patient Treatment File (PTF):

- MAS ADMISSIONS/DISCHARGES
- MAS ADT HISTORY EXPANDED
- MAS DISCHARGE DIAGNOSIS
- MAS PROCEDURES ICD CODES
- MAS SURGERIES ICD CODES

Any of the following **locally created** items will also be affected by the newly updated display capability included in this patch **if** those items leverage any of the affected

components to generate output:

- Health Summary Types
- Health Summary Objects
- TIU/Health Summary Objects
- OE/RR Reports

Objects may be of particular interest as the newly expanded display would be more noticeable when an object is embedded in areas such as boilerplate text, note templates, and reminder dialog templates.

Patch GMTS*2.7*111 also updates the following reports that utilize one or more of the aforementioned Health Summary Components and will therefore now display the expanded data fields as appropriate:

- HEALTH SUMMARY (#142)
  - REMOTE DEMO/VISITS/PCE (1Y)
  - REMOTE DEMO/VISITS/PCE (3M)
  - REMOTE DIS SUM/SURG/PROD (12Y)
- OE/RR REPORT (#101.24)
  - ORRPW ADT ADM DC
  - ORRPW ADT DC DIAG
  - ORRPW ADT EXP
  - ORRPW ADT ICD PROC
  - ORRPW ADT ICD SURG
  - ORRPW DOD ADT EXP

GMTS*2.7*29 – REMOTE DATA VIEWS
GMTS*2.7*48 – REMOTE ONCOLOGY VIEW

Health Summary patches 29 and 48 export components for using Remote Data Views. With all the proper patches installed, you may view remote patient data through CPRS. Before you can do this, you must have Master Patient Index/Patient Demographics (MPI/PD) and several other patches installed. Once these are in place and the proper parameters have been set, you can access remote data from other VA facilities.

Currently, remote data views are limited to predefined, nationally exported Health Summary Types. Remote data may not be viewed by either the Ad Hoc Health Summary type or locally/user developed Health Summary types.

You can view remote clinical data using any Health Summary Type that has an identically named Health Summary Type installed at both the local and remote sites.

However, for non-nationally exported health summary reports, the content of the report is subject to the report structure and configuration defined at the remote site.

```
REMOTE DEMO/VISITS/PCE (3M)
REMOTE MEDS/LABS/ORDERS (3M)
REMOTE TEXT REPORTS (3M)
REMOTE CLINICAL DATA (3M)
REMOTE CLINICAL DATA (1Y)
REMOTE DEMO/VISITS/PCE (1Y)
REMOTE MEDS/LABS/ORDERS (1Y)
REMOTE TEXT REPORTS (1Y)
REMOTE CLINICAL DATA (4Y)
REMOTE LABS LONG VIEW (12Y)
REMOTE LABS ALL (1Y)
REMOTE LABS ALL (3M)
REMOTE DIS SUM/SURG/PROD (12Y)
REMOTE OUTPATIENT MEDS (6M)
REMOTE ONCOLOGY VIEW
```

See Chapter 3, section 2 in the Health Summary User Manual for more information on using Remote Data Views.

GMTS*2.7*45 – INTERDISCIPLINARY PROGRESS NOTES

The purpose of this patch is to allow the Health Summary components 'Progress Notes' and 'Selected Progress Notes' to display the new interdisciplinary progress notes and all of the entries associated with the interdisciplinary note. The interdisciplinary note and all of the associated entries will be marked in the progress note components as follows.

Note Type	Marked as
Primary Note	Interdisciplinary Note
Addendum to Primary	Interdisciplinary Note (addendum)
Child Note	Interdisciplinary Note Entry
Addendum to Child	Interdisciplinary Note Entry (addendum)

Patch GMTS*2.7*47 - CPRS Report Tab/NDBI/Misc Fixes

A menu of options has been added, CPRS Reports Tab "Health Summary Types List," that allows users to control the Health Summary Types and the order that the Health Summary Types are listed in the Health Summary Types box on the Reports Tab of CPRS. This menu option has four menu items to edit and display the users' preferences.

Patch GMTS*2.7*48 - REMOTE ONCOLOGY VIEW
This patch exports the REMOTE ONCOLOGY VIEW Health Summary Type and
  installs it in the HEALTH SUMMARY TYPE file (#142), providing Remote
  Data Views of Oncology Data. It also conducts a check to make sure
  the Oncology Component is installed in the Patient Data Exchange's (PDX)
  VAQ - DATA SEGMENT file (#394.71). This provides two methods for health
  care providers and cancer registrars to request and view oncology data
  on a patient seen at multiple sites: Remote Data Views for CPRS (GUI)
  users and Patient Data Exchange for List Manager users.

Patch GMTS*2.7*49 - Demographics/HS Types List

A menu of options has been added, "CPRS Health Summary Display/Edit Site Defaults," that allows IRM/Managers to control which Health Summary Types are on the reports tab and the order that the Health Summary Types appear in for the site. These site defaults will be used for users who do not have personal preferences set. This menu has four menu items to edit and display defaults for the site.

GMTS*2.7*50   Spinal Cord Dysfunction Update
GMTS*2.7*51   Radiology fixes
GMTS*2.7*52   Problem List HNC/MST Changes
GMTS*2.7*53   Demographics/Progress Notes Fixes
GMTS*2.7*54   Oncology ICD-O-3 Implementation
GMTS*2.7*55   Demographics/Progress Note Fixes
GMTS*2.7*56   DIVISION PARAMETER/DEMOGRAPHICS AND OTHER FIXES

GMTS*2.7*57   SURGERY DATA EXTRACTS

Patch GMTS*2.7*58   HS Objects and CNB/ADR/NOK/SII Components

A menu of options has been added, "Health Summary Objects Menu" that allows IRM/Managers to create Health Summary Objects to be used inside other documents. This menu also includes the ability to view, test, and export/import the Health Summary Objects. This patch also exports the new file HEALTH SUMMARY OBJECTS field #142.5, to store the Health Summary Object characteristics.

GMTS*2.7*59   BLOOD BANK COMPONENTS
GMTS*2.7*60   Race and Ethnicity (Demographics)
GMTS*2.7*61   Remote Medicine Report Fix
GMTS*2.7*62   MED/RXIV/HF/Miscellaneous
GMTS*2.7*63   Selection of Individual Health Factors
GMTS*2.7*64   TWEAK TO STANDARD REMOTE HEALTH SUMMARIES
GMTS*2.7*65   Non VA Medications
GMTS*2.7*66   CPRS HS REPORT ALLOCATION ERRORS
GMTS*2.7*67   NOT USED
GMTS*2.7*68   TRANSITIONAL PHARMACY HS OBJECT/TYPE
GMTS*2.7*69   Health Summary Resequencing/Medicine Correction
GMTS*2.7*7   HS Utilities, MXSTR Error
GMTS*2.7*70   GMTS SCHEDULING REPLACEMENT UPDATE
GMTS*2.7*71   CTD - HS Code Text Descriptors
GMTS*2.7*72   ONCOLOGY FORDS IMPLEMENTATION
GMTS*2.7*73   CORRECT BRANCH OF SERVICE IN DEMOGRAPHIC DISPLA
GMTS*2.7*74   HEALTH SUMMARY GAF COMPONENT
GMTS*2.7*75   RESTORE DISPLAY OF CLINICAL REMINDERS DISCLAIME
GMTS*2.7*76   ALPHA MODIFIERS NOT SHOWING AND COMMENTS PRINTI
GMTS*2.7*77   MENTAL HEALTH COMPONENTS
GMTS*2.7*78   NEW VITALS API AND OUTPATIENT PHARMACY API
GMTS*2.7*79   CORRECT REFERENCE RANGES ON REPORT TABS
GMTS*2.7*8   HS - PCE Components
GMTS*2.7*80   PHARMACY ENCAPSULATION
GMTS*2.7*81   VHA Enterprise Standard Title Display in Health C
GMTS*2.7*82   E-SIG BLOCK/HEALTH FACTORS/CLINICAL REMINDERS F
GMTS*2.7*83   DIETETICS COMPONENT UPDATE
GMTS*2.7*84   ADDING REASON FOR STUDY DISPLAY TO RADIOLOGY RE
GMTS*2.7*85   RESTRICT SENSITIVE DATA ON HEALTH SUMMARY PRINT
GMTS*2.7*87   NATIONAL HEALTH SUMMARY TYPES FOR SKIN RISK ASSMT

GMTS*2.7*88   LAB REFORMAT/142.1 UPDATE/SII COMP/HS BY LOC REPORT

Display column headers of TIU-Health Summary (HS) Object components when pulled up in succession.

Update Lab references range displays on HS report to coincide with format introduced by LR*5.2*356.

Update default value of fields TIME LIMITS and MAXIMUM OCCURRENCES for HS components MHA Admin List [MHAL] and MHA Score [MHAS] HS components.

Add new field, SHORT HS BY LOCATION COVER to the HEALTH SUMMARY PARAMETERS FILE (#142.99) to change the number of times each location prints on the cover sheet from 6 to 1.

GMTS*2.7*89   SUPPORT OF CLINICAL REMINDERS ENHANCEMENTS

Patch GMTS*2.7*90 - ADD EARLIEST APPROPRIATE DATE TO HS ADHOC REPORT

Addition of the EARLIEST APPROPRIATE DATE (New Service Request 20051008) to the Health Summary Ad hoc CNB - Brief Consults Report.

The EARLIEST APPROPRIATE DATE is the earliest appropriate date that the patient should be seen. This data field was added with CPRS v28.

GMTS*2.7*91 - MHAL AND MHAS COMPONENTS NOT SHOWING ALL ADMININISTRATIONS

This patch will correct a defect in the MHAL and MHAS Health Summary components where all Mental Health instruments administered through the CPRS GUI do not display.

GMTS*2.7*92 - CORRECTIONS TO MEDICATION WORKSHEET (TOOL #2)

This patch will correct a defect in the HEALTH SUMMARY COMPONENT file (#142.1) and creates a national entry for Tool #2: Medication Worksheet. Hard-coding of patient Social Security number has been removed and now all control of patient identifiers is controlled by the parameters set at the Health Summary Type level, consistent with other Class I software.

This patch also resolves the issue of the wrong pharmacy division printing on report headers by modifying internal programming. The internal programming that selects the name of the pharmacy division shown at the top of the worksheet and the pharmacy phone number associated with it has been revised. At facilities where there are multiple entries in OUTPATIENT SITE file (#59) that share the same SITE NUMBER, the Medication Worksheet is unable to distinguish between these entries in order to choose

the correct pharmacy name and phone number for display in the report header. In these cases, the result may be that the displayed name and phone number are for a division other than the pharmacy's preferred phone number for patient calls.

It also corrects a known issue from the initial release of Medication Reconciliation by adding status of HOLD to the Medication Worksheet.

GMTS*2.7*93 - COMBINE UNITS ON TRANSFUSION REPORT
This patch fixes a problem with the Blood Transfusion Report when using the report on a system running VBECS (Vista Blood Establishment Computer Software). The problem reported is that multiple units transfused on the same day were not being totaled but were rather displayed as separate lines for each transfused unit.

This patch corrects the problem by correctly totaling the units the way it did prior to VBECS.

This patch also adds Legacy Vista Data to the Blood Transfusion report. Prior to this change only transfusion data newly entered into VBECS were showing in the report. To see Legacy Vista Data, on the report, the parameter OR VBECS LEGACY REPORT has to be set to YES.

GMTS*2.7*95 – CORRECT B CROSS-REFERENCE
The NAME field (.01) of the HEALTH SUMMARY OBJECTS file (#142.5) had a 'B' cross-reference that only stored the first 30 characters of the name. When attempting to install a TIU/HS Object in Clinical Reminder Exchange, a FileMan error: "The update failed, UPDATE^DIE returned the following error message" would occur when the receiving site has multiple Health Summary Object entries that are not unique until after the 30-character length.

 This patch corrects this problem by modifying the 'B' cross-reference to store the full 60 characters.

GMTS*2.7*99 – HIGH RISK MENTAL HEALTH PATIENT – NATIONAL REMINDER AND FLAG

This patch is in support of the Improve Veteran Mental Health (IVMH) initiative, High Risk Mental Health (HRMH) - National Reminder & Flag. This patch will install four Health Summary Components, two Health Summary Types, a single Health Summary Object, and a single TIU/Health Summary object. The TIU/HS object will be used in the VA-MH HIGH RISK NO SHOW FOLLOW-UP Reminder Dialog distributed in PXRM*2*18.

New Components, Types, and Objects in GMTS*2.7*99

Four new entries are added to HEALTH SUMMARY COMPONENT (#142.1).

1. MAS CONTACTS - This component will display contact phone numbers for the patient along with contact information for emergency and NOK contacts, if available.

2. MAS MH CLINIC VISITS FUTURE - This component uses a Reminder Location List to help find the next appointment for the patient in any mental health clinic.

3. MH HIGH RISK PRF HX - This component will display current assignment status and assignment history of the Category II (local) High Risk for Suicide Patient Record Flag.

4. MH TREATMENT COORDINATOR - This component will display the Mental Health Treatment Coordinator assigned to this patient.

Two new entries are added to HEALTH SUMMARY TYPE (#142).

1. VA-MH HIGH RISK PATIENT - This Type contains the four Health Summary Components mentioned above and is the basis for creating the VA-MH HIGH RISK PATIENT (TIU) Health Summary Object.

2. REMOTE HIGH RISK MH PATIENT - This Type contains the same components as #1 and allows viewing the aforementioned information from remote sites.

One new entry is added to HEALTH SUMMARY OBJECT (#142.5).

1. VA-MH HIGH RISK PATIENT (TIU) - This object is created from the VA-MH HIGH RISK PATIENT Health Summary Type and allows embedding the aforementioned information into a document. Its primary use here is to allow creation of the VA-MH HIGH RISK PATIENT TIU/HS object for use in the VA-MH HIGH RISK NO SHOW FOLLOW-UP Reminder Dialog.

One new entry is added to TIU DOCUMENT DEFINITION (#8925.1).

1. VA-MH HIGH RISK PATIENT - This object makes the information found in the VA-MH HIGH RISK PATIENT Health Summary Type available for use in Reminder Dialogs and other documents.

GMTS*2.7*100 -PROBLEM WITH NEW MED WORKSHEET REPORT
The Medication Worksheet report in CPRS displayed a patient's previous prescription Patient Instruction Signature comments in subsequent prescriptions, displaying incorrect Patient Instruction Signature comments for that prescription.

Routine GMTSPST2 has been modified to clear a prescription's signature lines before displaying a subsequent prescription.

Patch GMTS*2.7*102 – MENTAL HEALTH CLEANUP
The Mental Health package version 5.01 patch 60 (YS*5.01*60) removes
functionality from the Mental Health package that is no longer in use.
Specifically, patch YS*5.01*60 removes the MEDICAL RECORD file (file
#90), which the MENTAL HEALTH PHYSICAL EXAM health summary component
relies upon. Patch GMTS*2.7*102 will accomplish the following.

1. Deactivate the MENTAL HEALTH PHYSICAL EXAM health summary
   component.
2. Rebuild the Health Summary Ad hoc Report (the GMTS HS ADHOC OPTION
   health summary type).
3. Email a usage report containing the following listings.
   a. Health summary types that contain the MENTAL HEALTH PHYSICAL
      EXAM health summary component
   b. Health summary objects that contain the health summary types listed in (a)

Patch GMTS*2.7*104 – MHTC & CAT 1 PRF UPDATE TO HIGH RISK MH
PATIENT HEALTH SUMMARY REPORT
This patch is in support of Phase II of the Improve Veteran Mental Health (IVMH)
initiative, High Risk Mental Health Patient (HRMHP) - National Reminder & Flag
project.

This patch will modify 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.

Additionally, the VA-MH HIGH RISK PATIENT Health Summary is embedded in the
VA-MH HIGH RISK NO SHOW FOLLOW-UP Clinical Reminder Dialog which was
released in Phase I of this project.

The MH HIGH RISK PRF HX component includes the assignment history
for the newly created Category I Patient Record Flag (HIGH RISK FOR SUICIDE). The
assignment history in Health Summary displays both Category II (local) and Category I
(National) assignments for High Risk for Suicide. Once all local entries have been
converted to the national flag, you should only see the Category I Patient Record Flag.

The MH TREATMENT COORDINATOR component has been activated with this patch
and will display the Mental Health treatment Team, Mental Health Treatment4
Coordinator (MHTC), and the MHTC contact information.

Sample output from the updated components.

```
Health Summary Coordinator's Menu
```

```
    1        Print Health Summary Menu ...
    2        Build Health Summary Type Menu ...
    3        Set-up Batch Print Locations
    4        List Batch Health Summary Locations
    5        CPRS Reports Tab 'Health Summary Types List' Menu ...

Select Health Summary Coordinator's Menu Option: 1 Print Health Summary Menu

    1        Patient Health Summary
    2        Ad Hoc Health Summary
    3        Range of Dates Patient Health Summary
    4        Visit Patient Health Summary
    5        Hospital Location Health Summary
    6        Batch Print of All Clinics by Visit Date

Select Print Health Summary Menu Option: 1 Patient Health Summary
Select Health Summary Type: VA-Mh High Risk Patient (VA-MH HIGH RISK PATIENT)
Loading Ward Patient List...

                            1A(1&2) ward list

1    AWHPATIENT, F    (0001)
2    MHPATIENT, F     (0005)
3    MHPATIENT, F     (0014)
4    MHPATIENT, F     (0012) ~

Select Patient(s): 1 AWHPATIENT,FEMALETWO


                                                      09/13/2012 09:55
****************  CONFIDENTIAL MH HIGH RISK PATIENT SUMMARY  *****************
AWHPATIENT,FEMALETWO    000-00-0001                       DOB: 05/11/1969
                              1A(1&2)

 ----------------------- MHRF - MH Suicide PRF Hx ------------------

   CATEGORY I (NATIONAL) PRF: HIGH RISK FOR SUICIDE
    Current Status: ACTIVE
    Date Assigned: Jan 18, 2012@08:49:28
    Next Review Date: APR 17, 2012
    Owner Site: SALT LAKE CITY HCS
    Originating Site: SALT LAKE CITY OIFO
    Assignment History:
      Date: JAN 18, 2012@08:49:28
      Action: NEW ASSIGNMENT
      Approved By: CPRSPROVIDER,TWENTY-SIX

   CATEGORY II (LOCAL) PRF: HIGH RISK FOR SUICIDE
    Current Status: INACTIVE
    Date Assigned: Dec 08, 2011@09:28:23
    Next Review Date: JAN 20, 2012
    Owner Site: SALT LAKE CITY HCS
    Originating Site: SALT LAKE CITY HCS
    Assignment History:
      Date: DEC 08, 2011@09:28:23
      Action: NEW ASSIGNMENT
      Approved By: CPRSPROVIDER,TWENTY-SIX


      Date: JAN 12, 2012@15:46:32
      Action: INACTIVATE
      Approved By: CPRSPROVIDER,TWENTY-SIX
```

```
------------------------ MHTC - MH Treatment Coor ------------------

          MH Treatment Team:  HRMH TEST TEAM
 MH Treatment Coordinator:  MHPROVIDER,TWENTY-SEVEN
             Office Phone:  555-123-4567
             Analog Pager:  12345
            Digital Pager:  98765
```

Patch GMTS*2.7*107 – BUG FIXES - iMED NOTE, IMPORT HS OBJECT, VITALS TEXT

This patch will resolve the following issues in the Health Summary package.

1. INC000000418117 - Imed Consent note shows as unsigned

a. Problem

The problem occurs when the user selects either Heath summary component "SPN" (Selected Progress notes) or "PN" (Progress notes). If the user selects a "scanned document," VistA will append the text "< THE ABOVE NOTE IS UNSIGNED >" and "* DRAFT COPY *" to the bottom of the report even though scanned documents do not require a signature and are not drafts.

b. Resolution

Stopped the text from being appended on scanned documents that have an administrative closure date.

Routine GMTSPN2 has been modified to check the TIU Document File. If the "ADMINISTRATIVE CLOSURE MODE" (1613) field is set to 'S' FOR scanned document, and "ADMINISTRATIVE CLOSURE DATE" (1606) has a value, the note will be excluded from having the unwanted text appended.

2. INC000000752225 - ADHOC HS Vital Signs Detailed Display issue

a. Problem

When pain value of 99 is entered in vitals, the ADHOC Health Summary components ([VS] "Vital Signs," [VSD] "Vital Signs Detailed Display," and [SVS] "Vital Signs Selected") show the text "No Response." When you view the same info via the Vitals Cumulative report, it correctly shows the text as "Unable to Respond." No response to pain and unable to respond are two clinically different things.

b. Resolution

Changed the components to display "Unable to Respond"

Routines GMTSVS, GMTSVSD, and GMTSVSS have been modified to write "Unable to Respond." GMTSVS was also modified to move Pain score to a new third line. GMTSVSS was also modified to allot more space (18 characters) for Pain score.

3. INC000000784073 - Importing HS Object Questions

a. Problem

When using the [GMTS OBJ EXPORT] option in VistA, if one of the components used in the Health Summary type is a local component or has selected Items, the process completes with no error reported. However, when the receiving CAC tries to use the imported object, it fails to work. If VistA identifies the component as a local component or one that has selected Items, it simply omits the component without any type of error or warning.

b. Resolution

Modified VistA to return an error message and abort the export if the CAC tries to export a Health Summary Object that is associated with a Health Summary Type with a local component or selected items component. The following error messages were approved by the CPRS Clinical Workgroup.

• "Cannot export a Health Summary Object using a Health Summary Type that contains Local Health Summary Components"
• "Health Summary Type <TYPE> contains Local Health Summary Component <COMPONENT>"

Patch GMTS*2.7*101 - ICD-10 - Health Summary Updates
This patch is part of the Computerized Patient Records System CPRSv30 project. This project will modify the Computerized Patient Record System, Text Integration Utilities, Consults, Health Summary, Problem List, Clinical Reminders, and Order Entry/Results Reporting to meet the requirements proposed by the Dept. of Health and Human Services to adopt ICD-10 code set standards Clinic Orders. This patch makes all changes to Health Summary that are required to move from the ICD-9 coding version to ICD-10.

• Health Summary reports will differentiate between ICD-9 and ICD-10 diagnosis and procedure codes for diagnosis information that was coded using the ICD-9 or ICD-10 code set (not entered via free text) in CPRS. Ad hoc reports allow the user to choose the Health Summary Components to include in the report. These reports can also display diagnosis information that users entered via other CPRS packages.

• Health Summary Reports will print the ICD-9 or ICD-10 diagnosis or procedure diagnosis that was captured for the patient at the time the diagnosis was entered in CPRS and in the online report users entered via other CPRS packages.

Example: Display of Outpatient Diagnosis and Outpatient Encounter Components
ICD-9 Example

ICD-10 Example

Patch GMTS*2.7*111 - ICD-10 PTF Modifications - Health Summary Updates

As part of the ICD-10 remediation effort for the VistA Admissions Discharge Transfer (ADT) module, DG*5.3*884 increased the maximum number of diagnosis, procedure, and operation codes that could be stored with a given entry in the PTF file (#45). This Health Summary patch will update the following Health Summary Components (#142.1) to include the expanded fields as indicated. Any Health Summary Type, Health Summary Object, TIU/HS Object, or OE/RR REPORT (#101.24) that uses these components as a basis for data will see the expanded fields (if populated) in the report output.

- MAS ADMISSIONS/DISCHARGES – Updated to display up to 25 diagnosis codes with each occurrence.
- MAS ADT HISTORY EXPANDED – Updated to display up to 25 diagnosis codes, up to 25 procedure codes, and up to 25 operation codes.
- MAS DISCHARGE DIAGNOSIS – Updated to display up to 25 diagnosis codes with each occurrence.
- MAS PROCEDURES ICD CODES – Updated to display up to 25 procedure codes with each occurrence.
- MAS SURGERIES ICD CODES – Updated to display up to 25 operation codes with each occurrence.

Released Patches for Health Summary 2.7

Patch #	Description	Release Date
GMTS*2.7*1	Syntax Error in GMTS	12/28/95
GMTS*2.7*2	Visit Dates, Task &	02/29/96
GMTS*2.7*3	LAB Anatomic Path Ac	09/06/96
GMTS*2.7*4	Medicine Data w/ Quo	04/12/96
GMTS*2.7*5	CVP, EADT, Nightly T	05/13/96
GMTS*2.7*6	Patient Selection	06/06/96
GMTS*2.7*7	HS Utilities, MXSTR	11/24/96
GMTS*2.7*8	HS - PCE Components	08/22/96
GMTS*2.7*9	Lab Orders/Surgical	11/08/96
GMTS*2.7*10	PCE Components	03/04/97
GMTS*2.7*11	SURGERY COMPONENT FI	10/23/98
GMTS*2.7*12	TIU-COMPATIBLE COMPO	09/29/97
GMTS*2.7*13	Spinal Cord Dysfunct	01/06/97
GMTS*2.7*14	Updated Rad/Nuc Med	05/15/97
GMTS*2.7*15	Pharmacy & Current O	06/05/98
GMTS*2.7*16	Health Summary Fixes	10/07/97
GMTS*2.7*17	Blood Bank Component	10/07/97
GMTS*2.7*18	Code change to accom	03/27/98
GMTS*2.7*19	Duplicates on CVP co	10/10/97
GMTS*2.7*20	UPDATED COMPONENTS f	06/05/98
GMTS*2.7*21	Report headings and	03/30/98
GMTS*2.7*22	Reminders-historical	11/10/97
GMTS*2.7*23	NEW REMINDER COMPONE	02/05/98
GMTS*2.7*24	Patient selection &	03/30/98
GMTS*2.7*25	Component fixes	09/10/98
GMTS*2.7*26	Imaging Component	09/09/99
GMTS*2.7*27	Y2K COMPLIANCE CHANG	04/17/98
GMTS*2.7*28	Y2K, NKA, LAB, VITAL	03/05/99
GMTS*2.7*29	Remote Data View/Pri	05/17/01
GMTS*2.7*30	HS Type Lookup/Concu	08/06/99
GMTS*2.7*31	Inactive Clinics	10/12/99
GMTS*2.7*32	Fix HS Type Lookup	09/28/99
GMTS*2.7*33	Progress Notes by Vi	10/13/99
GMTS*2.7*34	Clinical Reminder Di	06/21/00
GMTS*2.7*35	Vitals/GAF/Oncology/	05/19/00
GMTS*2.7*36	Oncology/Lab/Ad Hoc	12/06/99
GMTS*2.7*37	CPT Modifiers and RX	07/28/00
GMTS*2.7*40	Undefined Variable D	09/01/00
GMTS*2.7*42	Oncology Component C	12/21/00
GMTS*2.7*43	HFS/Window Print Fix	05/07/01
GMTS*2.7*44	Error in GAF Score	12/27/00
GMTS*2.7*45	Interdisciplinary Pr	04/20/01
GMTS*2.7*46	Consults Brief Component	06/28/01
GMTS*2.7*47	CPRS Report Tab/NDBI	10/04/01
GMTS*2.7*48	Remote Oncology View	09/05/01
GMTS*2.7*50	Spinal Cord Dysfunct	02/01/02
GMTS*2.7*49	Demographics/HS Type	03/05/02
GMTS*2.7*51	Radiology fixes	04/25/02
GMTS*2.7*54	Oncology ICD-O-3 Impleme	05/07/02

GMTS*2.7*55	Demographics/Progress No	05/23/02
GMTS*2.7*52	Problem List HNC/MST Cha	05/24/02
GMTS*2.7*56	Division Parameter/Demog	09/10/02
GMTS*2.7*57	Surgery Data Extracts	9/7/04
GMTS*2.7*58	HS Objects and Components	1/03
GMTS*2.7*59	BLOOD BANK COMPONENTS	12/6/02
GMTS*2.7*60	Race and Ethnicity (Demographics)	1/15/03
GMTS*2.7*61	Remote Medicine Report Fix	12/10/02
GMTS*2.7*62	MED/RXIV/HF/Miscellaneous	9/23/03
GMTS*2.7*63	Selection of Individual Health Factors	2/15/05
GMTS*2.7*64	TWEAK TO STANDARD REMOTE HEALTH SUMMARIES	10/7/03
GMTS*2.7*65	Non VA Medications	5/20/04
GMTS*2.7*66	CPRS HS REPORT ALLOCATION ERRORS	7/29/04
GMTS*2.7*67	NOT USED	
GMTS*2.7*68	TRANSITIONAL PHARMACY HS OBJECT/TYPE	9/12/03
GMTS*2.7*69	Health Summary Resequencing/Medicine Correction	2/23/04
GMTS*2.7*70	GMTS SCHEDULING REPLACEMENT UPDATE	12/27/06
GMTS*2.7*71	CTD - HS Code Text Descriptors	12/08/04
GMTS*2.7*72	ONCOLOGY FORDS IMPLEMENTATION	4/01/05
GMTS*2.7*73	CORRECT BRANCH OF SERVICE IN DEMOGRAPHIC DISPLAY	7/18/05
GMTS*2.7*74	HEALTH SUMMARY GAF COMPONENT	11/21/05
GMTS*2.7*75	RESTORE DISPLAY OF CLINICAL REMINDERS DISCLAIMER	10/24/06
GMTS*2.7*76	ALPHA MODIFIERS NOT SHOWING AND COMMENTS PRINTI	5/04/06
GMTS*2.7*77	MENTAL HEALTH COMPONENTS	1/07/08
GMTS*2.7*78	NEW VITALS API AND OUTPATIENT PHARMACY API	4/24/06
GMTS*2.7*79	CORRECT REFERENCE RANGES ON REPORT TABS	12/22/05
GMTS*2.7*80	PHARMACY ENCAPSULATION	8/20/08
GMTS*2.7*81	VHA Enterprise Standard Title Display in Health	5/08/06
GMTS*2.7*82	E-SIG BLOCK/HEALTH FACTORS/CLINICAL REMINDERS F	9/19/08
GMTS*2.7*83	DIETETICS COMPONENT UPDATE	9/28/07
GMTS*2.7*84	ADDING REASON FOR STUDY DISPLAY TO RADIOLOGY RE	8/20/08
GMTS*2.7*85	RESTRICT SENSITIVE DATA ON HEALTH SUMMARY PRINT	3/19/08
GMTS*2.7*87	NATIONAL HEALTH SUMMARY TYPES FOR SKIN RISK ASSESSMENT	10/30/07
GMTS*2.7*88	LAB REFORMAT/142.1 UPDATE/SII COMP/HS BY LOC REPORT	10/28/11
GMTS*2.7*89	SUPPORT OF CLINICAL REMINDERS ENHANCEMENTS	9/16/09
GMTS*2.7*90	ADD EARLIEST APPROPRIATE DATE TO HS ADHOC REPORT	3/11
GMTS*2.7*91	MHAL AND MHAS COMPONENTS NOT SHOWING ALL ADMINISTRATIONS	6/26/09
GMTS*2.7*92	Corrections to Medication Worksheet (Tool #2)	4/11
GMTS*2.7*93	COMBINE UNITS ON TRANSFUSION REPORT	6/22/10
GMTS*2.7*94	Updates for the Essential Med List for Review	9/2018
GMTS*2.7*99	HIGH RISK MENTAL HEALTH PATIENT – NATIONAL REMINDER AND FLAG	4/12
GMTS*2.7*101	ICD-10 UPDATES	5/14
GMTS*2.7*102	MENTAL HEALTH CLEANUP	9/12
GMTS*2.7*104	MHTC & CAT 1 PRF UPDATE TO HIGH RISK MH PATIENT HEALTH SUMMARY REPORT	10/12
GMTS*2.7*107	BUG FIXES - iMED NOTE, IMPORT HS OBJECT, VITALS TEXT	11/2013
GMTS*2.7*111	ICD-10 PTF MODIFICATIONS	8/2015
GMTS*2.7*115	UPDATES FOR HEALTH SUMMARY COMPONENTS	8/2022
GMTS*2.7*125	HEALTH SUMMARY COMPONENTS	5/2019

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