



## **RESOURCE AND PATIENT MANAGEMENT SYSTEM**

# **Clinical Reminders (PXRM)**

### **Patch 1002 National Reminder Setup**

**Version 1  
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Albuquerque, New Mexico

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## 1.0 Introduction

National Clinical Reminders are being released as two patches to the clinical reminders package.

- Patch 1002 includes all the immunization reminders. These reminders run with the immunization forecaster and the results should be identical. Giving the immunizations will resolve the reminder.
- The second patch contains the clinical reminders that are used in the HEALTH SUMMARY MAINTENANCE reminders. Converting them over to clinical reminders will make them available to clinicians who are using the electronic health record and not relying on paper.

Site managers and clinical applications coordinators will need to review the manual pxrm\_010m.doc, Clinical Reminders Managers Manual, for information on reminder setup.

At the present time, the reminders are resolved by lab tests, medications, codes, and entry of items on the vitals component, Triage tab, or Wellness tab. In the future, you use reminder dialogs to resolve reminders. Reminder dialogs are NOT included in these two patches. The dialogs will be released in a later patch when better ways to resolve the reminders exist in the electronic health record.

Sites need to review the list of reminders that are being sent in the two patches. This list is in the next section and details what turns the reminder on and what turns it off.

If a site does not use the reminder (i.e., the site does not have a MICROALBUMIN test), PLEASE do not add those reminders to the EHR because they will always show up as being DUE.

The steps for setup of national clinical reminders are:

1. Install the KIDS build that runs a post-init to install the reminders.
2. Fix and/or manually install any reminder that does not install using REMINDER EXCHANGE. A site might need to manually create taxonomies if there are errors in the sites ICD9 file.
3. Map the local terms to the REMINDER TERM file. Failure to do this will result in MANY reminders being due all the time.
4. Review all the reminders and determine which ones should be activated at a site.
5. Use the options to setup the Electronic Health Record to display the reminders. Sites can choose to activate the reminders just for specific individuals during a testing phase.
6. If needed, add the REMINDER COMPONENTS to the health summary so they can be seen and printed on the Reports tab.

The main reminders menu is called:

## REMINDER MANAGER MENU – PXRМ MANAGERS MENU

All setup is done from this menu.

Reminder Managers Menu	
CF	Reminder Computed Finding Management ...
RM	Reminder Definition Management ...
SM	Reminder Sponsor Management ...
TXM	Reminder Taxonomy Management ...
TRM	Reminder Term Management ...
RX	Reminder Exchange
RT	Reminder Test
OS	Other Supporting Menus ...
	**> Out of order: NOT USED BY IHS
INFO	Reminder Information Only Menu ...
DM	Reminder Dialog Management ...
CP	CPRS Reminder Configuration ...
RP	Reminder Reports ...
MST	Reminders MST Synchronization Management ...
	**> Out of order: NOT USED BY IHS

## 2.0 Reminder Definitions

Besides installing reminders and doing the setup so they appear in the EHR, reminder testing means checking each reminder with several patients to see if the reminder is working correctly.

### 2.1 Reminder Definition Menu (RM)

```

Reminder Managers Menu
CF      Reminder Computed Finding Management ...
RM    Reminder Definition Management ...
SM      Reminder Sponsor Management ...
TXM     Reminder Taxonomy Management ...
TRM     Reminder Term Management ...
RX      Reminder Exchange
RT      Reminder Test
OS      Other Supporting Menus ...
        **> Out of order:  NOT USED BY IHS
INFO    Reminder Information Only Menu ...
DM      Reminder Dialog Management ...
CP      CPRS Reminder Configuration ...
RP      Reminder Reports ...
MST     Reminders MST Synchronization Management ...
        **> Out of order:  NOT USED BY IHS

```

This menu lets view, edit, and copy reminders.

A site cannot edit national reminders; they will not show up on the list. However, they can be viewed using the option RI.

```

RL      List Reminder Definitions
RI      Inquire about Reminder Definition
RE      Add/Edit Reminder Definition
RC      Copy Reminder Definition
RA      Activate/Inactivate Reminders

```

#### 2.1.1 Inquire about Reminder Definitions (RI)

Choose the reminder and display the data.

```

-----
IHS-ALCOHOL SCREEN                      No.  68
-----
Print Name:                             Alcohol Screen
Class:                                   NATIONAL
Sponsor:
Review Date:
Usage:                                   CPRS, DATA EXTRACT, REPORTS
Related VA-* Reminder:

```

```
Reminder Dialog:                IHS-ALCOHOL SCREEN

Priority:

Reminder Description:
    Patients are screened annually for alcohol use starting at age 13

Technical Description:

Edit History:

    Edit date:  May 17, 2005@16:02:25    Edit by:    HAGER,MARY G
    Edit Comments:

    Edit date:  May 12, 2005@08:35:46    Edit by:    HAGER,MARY G
    Edit Comments:

Baseline Frequency:

    Do In Advance Time Frame:  Do if DUE within 3 months
    Sex Specific:
    Ignore on N/A:
    Frequency for Age Range:  1 year for ages 13Y to 110Y
    Match Text:

    No Match Text:  Patient not in age range for alcohol
                    screening

Findings:

    Finding Item: ALCOHOL SCREEN  (FI(1)=RT(43))
    Finding Type: REMINDER TERM
    Use in Resolution Logic: OR
    Found Text: Alcohol screen found in the computer within
                the past year
    Not Found Text: Alcohol screen not found within the past year.
                   Patients should have yearly alcohol screening

General Patient Cohort Found Text:

General Patient Cohort Not Found Text:

General Resolution Found Text:

General Resolution Not Found Text:
    All people over the age of 13 should have a yearly alcohol screen done
    using the CAGE test.  The computer was unable to find this data within
    the last year.

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

Expanded Patient Cohort Logic:
    (SEX)&(AGE)

Default RESOLUTION LOGIC defines findings that resolve the Reminder:
    FI(1)

Expanded Resolution Logic:
```



FI (ALCOHOL SCREEN)

Web Sites:

## 2.1.2 Copy Reminder Definition (RC)

RL	List Reminder Definitions
RI	Inquire about Reminder Definition
RE	Add/Edit Reminder Definition
<b>RC</b>	<b>Copy Reminder Definition</b>
RA	Activate/Inactivate Reminders

You can copy a national reminder and then edit that reminder. This allows you to change the ages, frequencies, or findings.

Select Reminder Definition Management Option: **rc Copy Reminder Definition**

Select the reminder item to copy: IHS-ALCOHOL SCREEN      NATIONAL  
PLEASE ENTER A UNIQUE NAME: **ALCOHOL SCREEN**

The original reminder IHS-ALCOHOL SCREEN has been copied into ALCOHOL SCREEN.  
Do you want to edit it now? YES

Select one of the following:

A	All reminder details
G	General
B	Baseline Frequency
F	Findings
L	Logic
D	Reminder Dialog
W	Web Addresses

Select section to edit:

NAME: ALCOHOL SCREEN//

PRINT NAME: Alcohol Screen//

CLASS: LOCAL//

SPONSOR:

REVIEW DATE:

USAGE: \*//

RELATED REMINDER GUIDELINE:

INACTIVE FLAG:

REMINDER DESCRIPTION:

Patients are screened annually for alcohol use starting at age 13

Edit? NO//

TECHNICAL DESCRIPTION:

No existing text

Edit? NO//

PRIORITY:

Baseline Frequency

DO IN ADVANCE TIME FRAME: 3M//

SEX SPECIFIC:

IGNORE ON N/A:

Baseline frequency age range set

Select REMINDER FREQUENCY: 1Y// ← Can change

REMINDER MINIMUM AGE: 13Y// ← Can change

MAXIMUM AGE: 110Y// ← Can change

AGE MATCH TEXT:

No existing text

Edit? NO//

AGE NO MATCH TEXT:

Patient not in age range for alcohol screening

Edit? NO//R FREQUENCY: 1Y//

Findings:

Choose from:

RT ALCOHOL SCREEN

Select FINDING:

Patient Cohort and Resolution Logic

CUSTOMIZED PATIENT COHORT LOGIC (OPTIONAL):

GENERAL PATIENT COHORT FOUND TEXT:

No existing text

Edit? NO//

GENERAL PATIENT COHORT NOT FOUND TEXT:

No existing text

Edit? NO//

CUSTOMIZED RESOLUTION LOGIC (OPTIONAL):

GENERAL RESOLUTION FOUND TEXT:

No existing text

Edit? NO//

GENERAL RESOLUTION NOT FOUND TEXT:

All people over the age of 13 should have a yearly alcohol screen done using the CAGE test.

The computer was unable to find this data within the last year

Edit? NO//

Reminder Dialog

LINKED REMINDER DIALOG: ← No dialogs for now

Web Addresses for Reminder Information

Select URL:

## 2.2 National Reminder Definitions

### 2.2.1 IMMUNIZATION FORECASTER

This reminder is only used to run the forecaster. This reminder MUST be NUMBER 1 in the GUI.

**2.2.2 IHS-HEP A ADULT**

Immunization for adults

Cohort: all adults 18 to 100, determined by computed finding to check immunization forecaster

Resolution: Determined by a Hep A immunization in the immunization file

**2.2.3 IHS-HEP B ADULT**

Immunization for adults

Cohort: all adults 18 to 100, determined by computed finding to check immunization forecaster

Resolution: Documentation of a Hep B immunization in the immunization file

**2.2.4 IHS-INFLUENZA IMMUNIZATION**

Yearly immunization for adults over 65 and all patients with high risk conditions, also children ages 6 months – 23 months.

Frequency: yearly

Cohort: (1) Adult over 50, (2) anyone with high risk condition determined by taxonomy of ICD9 codes, (3) children ages 6 mos. to 23 mos. Determined by computed finding to check immunization forecaster.

Resolution: Documentation of an immunization in the immunization file

**2.2.5 IHS-PED DTAP IMMUN**

Childhood immunization

Cohort: Determined by computed finding to check immunization forecaster, ages: 6 weeks to 7 years

Resolution: Documentation of immunization in the immunization file

**2.2.6 IHS-PED HEPA IMMUN**

Childhood immunization

Cohort: Determined by computed finding to check immunization forecaster, ages: 24m to 18 years

Resolution: Documentation of immunization in the immunization file

**2.2.7 IHS-PED FLU**

Childhood immunization

Cohort: Determined by computed finding to check immunization forecaster, ages: 6m to 23 months

Resolution: Documentation of immunization in the immunization file

**2.2.8 IHS-PED HEPB IMMUN**

Childhood immunization

Cohort: Determined by computed finding to check immunization forecaster, ages: Birth to 18years

Resolution: Documentation of immunization in the immunization file

**2.2.9 IHS-PED HIBTITER IMMUN**

Childhood immunization

Cohort: Determined by computed finding to check immunization forecaster, ages: 6 weeks to 59 months

Resolution: Documentation of immunization in the immunization file

**2.2.10 IHS-PED MMR IMMUN**

Childhood immunization

Cohort: Determined by computed finding to check immunization forecaster, ages: 12mos to 18years

Resolution: Documentation of immunization in the immunization file

**2.2.11 IHS PED-PEDVAXHIB**

Childhood immunization

Cohort: Determined by computed finding to check immunization forecaster, ages: 6 weeks to 59 months

Resolution Documentation of immunization in the immunization file

**2.2.12 IHS-PED PNEUMOVAX IMMUNIZATION**

Childhood immunization

Cohort: Determined by computed finding to check immunization forecaster, ages: 2 months to 60 months

Resolution: Documentation of immunization in the immunization file

### 2.2.13 IHS-PED POLIO IMMUN

Childhood immunization for IVP

Cohort: Determined by computed finding to check immunization forecaster, ages: 6 weeks to 10 years

Resolution: Documentation of immunization in the immunization file

### 2.2.14 IHS-PED TD IMMUNIZATION

Childhood immunization

Cohort: Determined by computed finding to check immunization forecaster, ages: 6 months to 7 years

Resolution: Documentation of immunization in the immunization file

### 2.2.15 IHS-PED VARICELLA IMMUN

Childhood immunization

Cohort: Determined by computed finding to check immunization forecaster, ages: 12 month to 18years

Resolution: Documentation of immunization in the immunization file

### 2.2.16 IHS-PNEUMOVAX IMMUNIZATION

Immunization for the elderly

Cohort: Determined by computed finding to check immunization forecaster, ages: >65

Resolution: Documentation of immunization in the immunization file

### 2.2.17 IHS-TD IMMUNIZATION

Adult immunization

Frequency: Every 10 years

Cohort: Determined by computed finding to check immunization forecaster, ages 10 to 100

Resolution: Documentation of immunization in the immunization file

### 3.0 Reminder Taxonomy Management (TXM)

TL	List Taxonomy Definitions
TI	Inquire about Taxonomy Item
TE	Edit Taxonomy Item
TC	Copy Taxonomy Item

Sites might need to make their own taxonomies if the import does not work.

A taxonomy is a selection of ICD0, ICD9, or CPT codes. The user inputs them from the starting code to the ending code. One taxonomy can have multiple selection lists of codes. There is a secondary file that stores every entry between the starting and ending codes. Therefore an error in any code in the interval could cause the install to fail. If a site has two entries of the same code, the install will fail.

#### 3.1 Inquire about Taxonomy Item (TI)

Below is the list for diabetes:

REMINDER TAXONOMY INQUIRY	May 18, 2005 2:07:01 pm	Page 1
-----		
NUMBER: 48		
IHS-DIABETES DX		
-----		
Brief Description:		
Codes for diabetes		
Class:	NATIONAL	
Sponsor:		
Review Date:		
Edit History:		
Edit Date:	MAY 17,2005 09:27	Edit By: HAGER,MARY G
Edit Comments:	Exchange Install	
Patient Data Source:	EN,PL	
Use Inactive Problems:		
ICD9 Codes:		
Range	250.00-250.90	
Code	ICD Diagnosis	
----	-----	
250.00	DM UNCOMPL/T-II/NIDDM,NS UNCON	
250.01	DM UNCOMPL/T-I/IDDM,NS UNCONT	
250.02	DM UNCOMPL/T-II/NIDDM,UNCONTR	
250.03	DM UNCOMP T-I/IDDM,UNCONTR	
250.10	DM KETOACI/T-II/NIDDM,NS UNCON	
250.11	DM KETOACID/T-I/IDDM,NS UNCONT	
250.12	DM KETOACID/T-II/NIDDM,UNCONTR	

```

250.13   DM KETOACID/T-I/IDDM,UNCONTR
250.20   DM HYPEROSMO/T-II/NIDDM,NS UNC
250.21   DM HYPEROSMOL/T-I/IDDM,NS UNC
250.22   DM HYPEROSMOLAR/T-II/NIDDM,UNC
250.23   DM HYPEROSMOLAR/T-I/IDDM,UNC
250.30   DM COMA NEC/T-II/NIDDM,NS UNC
250.31   DM COMA NEC/T-I/IDDM/NS UNCONT
250.32   DM COMA NEC/T-II/NIDDM,UNC
250.33   DM COMA NEC/T-I/IDDM,UNCONTR
250.40   DM RENAL/T-II/NIDDM,NS UNCON
250.41   DM RENAL/T-I/IDDM,NS UNCONTR
250.42   DM RENAL MANIF/T-II/NIDDM,UNC
250.43   DM RENAL MANIF/T-I/IDDM,UNC
250.50   DM OPTH/T-II/NIDDM/NS UNCONTR
250.51   DM OPTH/T-I/IDDM,NS UNCONT
250.52   DM OPTH MANIF/T-II/NIDDM,UNC
250.53   DM OPTH MANIF/T-I/IDDM,UNCONT
250.60   DM NEURO/T-II/NIDDM,NS UNCONT
250.61   DM NEURO/T-I/IDDM,NS UNCONT
250.62   DM NEURO MANIF/T-II/NIDDM,UNC
250.63   DM NEURO MANIF/T-I/IDDM,UNCONT
250.70   DM CIRCULA/T-II/NIDDM,NS UNCON
250.71   DM CIRCULA/T-I/IDDM,NS UNCONT
250.72   DM PERIPH CIRC/T-II/NIDDM,UNC
250.73   DM PERIPH CIRC/T-I/IDDM,UNCONT
250.80   DM/MANIF NEC/T-II/NIDDM,NS UNC
250.81   DM/MANIF NEC/T-I/IDDM,NS UNCON
250.82   DM W MANIF NEC/T-II/NIDDM,UNC
250.83   DM W MANIF NEC/T-I/IDDM,UNC
250.90   DM COMPL NOS/T-II/NIDDM,NS UNC

```

## 3.2 Edit Taxonomy Item (TE)

Choose Edit Taxonomy Item to build a taxonomy.

```

NAME: IHS-PAP//
BRIEF DESCRIPTION: Codes for Pap Smears  Replace

```

```

CLASS: LOCAL//
SPONSOR:
REVIEW DATE:

```

```
PATIENT DATA SOURCE: EN//
```

This is a list of comma separated patient data sources.  
You may use any combination of valid entries.  
Valid entries are:

```

IN - inpatient from PTF
INDXLS - inpatient DXLS diagnosis only
INPR - inpatient primary diagnosis  only
EN - encounter PCE data
ENPR - encounter PCE data primary diagnosis only
PL - Problem List
RA - radiology CPT only

```

```

USE INACTIVE PROBLEMS:
INACTIVE FLAG:

```



```

ICD0 Range of Coded Values
Select ICD0 LOW CODED VALUE: 91.46//
    ICD0 LOW CODED VALUE: 91.46//
    ICD0 HIGH CODED VALUE: 91.46//
Select ICD0 LOW CODED VALUE:

ICD9 Range of Coded Values
Select ICD9 LOW CODED VALUE: V76.2//
    ICD9 LOW CODED VALUE: V76.2//
    ICD9 HIGH CODED VALUE: V76.2//
Select ICD9 LOW CODED VALUE:

CPT Range of Coded Values                ← Multiple sets of CPT codes
Select CPT LOW CODED VALUE: Q0091// ?
    Answer with CPT RANGE OF CODED VALUES CPT LOW CODED VALUE
    Choose from:
    88141
    Q0091
    88174

```

### 3.3 Taxonomies Used in Reminders

A reminder can use codes as part of the:

Cohort: diabetes codes for reminders due only for diabetics

Resolution: CPT codes to document a mammogram

Clinical reminders sets up taxonomies to contain these codes. The taxonomies are part of the national reminders patches, but occasionally a taxonomy might not load because of a problem with the ICD9 file at a site.

If a site needs to create a taxonomy because of a problem with their ICD9 file, the list includes codes for immunizations.

#### 3.3.1 Example

Start in the Reminder Manager menu. Choose Reminder Taxonomy Management (TXM).

```

CF      Reminder Computed Finding Management ...
RM      Reminder Definition Management ...
SM      Reminder Sponsor Management ...
TXM    Reminder Taxonomy Management ...
TRM     Reminder Term Management ...
RX      Reminder Exchange
RT      Reminder Test
OS      Other Supporting Menus ...
        **> Out of order: NOT USED BY IHS
INFO    Reminder Information Only Menu ...
DM      Reminder Dialog Management ...
CP      CPRS Reminder Configuration ...
RP      Reminder Reports ...
MST     Reminders MST Synchronization Management ...
        **> Out of order: NOT USED BY IHS

```

## Choose Edit Taxonomy Item (TE).

TL	List Taxonomy Definitions
TI	Inquire about Taxonomy Item
<b>TE</b>	<b>Edit Taxonomy Item</b>
TC	Copy Taxonomy Item

## General Taxonomy Data

NAME: IHS-MAMMOGRAM //

BRIEF DESCRIPTION: Mammogram codes//

CLASS: VISN//

SPONSOR:

REVIEW DATE:

PATIENT DATA SOURCE: EN,PL

USE INACTIVE PROBLEMS:

INACTIVE FLAG:

## ICD0 Range of Coded Values

Select ICD0 LOW CODED VALUE: 87.36//

ICD0 LOW CODED VALUE: 87.36//

←Enter the start code

ICD0 HIGH CODED VALUE: 87.36//

←Enter the end code

Select ICD0 LOW CODED VALUE: 87.37

ICD0 LOW CODED VALUE: 87.37//

ICD0 HIGH CODED VALUE: 87.37//

If low and high are the same, one code is  
Stored

Select ICD9 LOW CODED VALUE: V76.11//

ICD9 LOW CODED VALUE: V76.11//

ICD9 HIGH CODED VALUE: V76.12//

Select ICD9 LOW CODED VALUE:

Select CPT LOW CODED VALUE: 76090//

CPT LOW CODED VALUE: 76090//

←Range of codes

CPT HIGH CODED VALUE: 76092//

## 3.3.2 Taxonomies Used in Immunization Reminders

IHS-INFLUENZA IMMUNIZATION, IHS-PNEUMONIA IMMUNIZATION, IHS-PED FLU

## IHS-HIGH RISK DISEASES

NAME	ICD9 RANGE		ICD0 RANGE		CPT RANGE	
	LOW	HIGH	LOW	HIGH	LOW	HIGH
490.		496.				
250.00		250.90				
V42.0		V42.9				
V58.1		V58.1				
011.00		011.96				
038.2		038.2				
042.0		044.9				
093.0		093.9				
112.81		112.81				
130.3		130.3				

140.00	208.91
235.0	235.9
280.0	289.9
303.00	303.93
305.00	305.03
331.7	331.7
391.0	391.0
393.	398.99
401.0	405.91
410.0	414.9
415.0	417.9
420.0	438.9
440.1	440.1
500.	508.9
510.0	519.0
570.	572.8
580.0	589.9
590.00	599.9
710.0	710.9
714.0	714.9
720.0	721.41
759.0	785.3
865.00	865.19
996.80	996.89
V08.	V08.

## 4.0 Reminder Term Management (TRM)

Reminder terms are very similar to taxonomies except that they involve other files such as drugs, labs, exams, immunizations, etc. The reminder terms for immunizations are populated, but a site might need to add other immunizations, if necessary, when using immunizations that are not standard.

TL	List Reminder Terms
TI	Inquire about Reminder Term
TE	Reminder Term Edit
TC	Copy Reminder Term

### 4.1 Inquire about Reminder Term (TI)

Review the term first.

REMINDER TERM INQUIRY	May 18, 2005 2:17:20 pm	Page 1
-----		
IHS-HGBA1C	No.67	
-----		
Class:	VISN	
Sponsor:		
Date Created:		
Review Date:		
Description:	The lab tests at a site that are the hemoglobin Alc test	
Edit History:		
Edit Date:	NOV 11,2004 11:50	Edit By: HAGER,MARY G
Edit Comments:		
Findings:	← The findings will be blank	

### 4.2 Reminder Term Edit (TE)

Select Reminder Term Management Option: te	Reminder Term Edit
Select Reminder Term: IHS-HIBTITER IMMUNIZATION	VISN
...OK? Yes//	(Yes)
NAME: IHS-HIBTITER IMMUNIZATION//	
CLASS: VISN//	
REVIEW DATE:	
DESCRIPTION:	Hibtiter from the vaccination file
Edit? NO//	
Select FINDING ITEM: IM.HIB	
**** ENTER THE NAME OF THE IMMUNIZATION THAT IS A HIBTITER AT YOUR SITE ****	
The choices for reminder terms are:	

```

You may enter a new FINDINGS, if you wish
Enter a new finding item
Enter one of the following:
  DR.EntryName to select a DRUG
  ED.EntryName to select a EDUCATION TOPIC
  EX.EntryName to select a EXAM
  HF.EntryName to select a HEALTH FACTOR
  IM.EntryName to select a IMMUNIZATION
  LT.EntryName to select a LABORATORY TEST
  MT.EntryName to select a MEASUREMENT TYPE
  OI.EntryName to select a ORDERABLE ITEM
  RP.EntryName to select a RADIOLOGY PROCEDURE
  CF.EntryName to select a REMINDER COMPUTED FINDING
  TX.EntryName to select a REMINDER TAXONOMY
  ST.EntryName to select a SKIN TEST
  DC.EntryName to select a VA DRUG CLASS
  DG.EntryName to select a VA GENERIC
  VM.EntryName to select a VITAL MEASUREMENT
  MEA.EntityName to select a MEASUREMENT TYPE

```

**Important:** If there is more than one test that will satisfy the reminder, enter each one!!!

```

FINDING ITEM: HIB, NOS//
EFFECTIVE PERIOD:
USE INACTIVE PROBLEMS:
WITHIN CATEGORY RANK:
EFFECTIVE DATE:
MH SCALE:
CONDITION:
CONDITION CASE SENSITIVE:
RX TYPE:
Select FINDING ITEM:
Input your edit comments.
Edit? NO//

```

### 4.3 Reminder Terms in National Reminders

Reminder terms can map to several files in RPMS. In many cases, the term can be created and sent nationally because each site will have the indicated items. An example is Health Factors, where each Indian Health facility has the same health factors.

However for some items, such as lab tests, each site can have different tests because there is no national standard. Sites therefore must MAP their local lab tests to the reminder terms. Below is a listing of the reminders terms sent in patch 1002 and 1003 that need to be mapped and an example of how to do the mapping.

## 5.0 Reminder Exchange

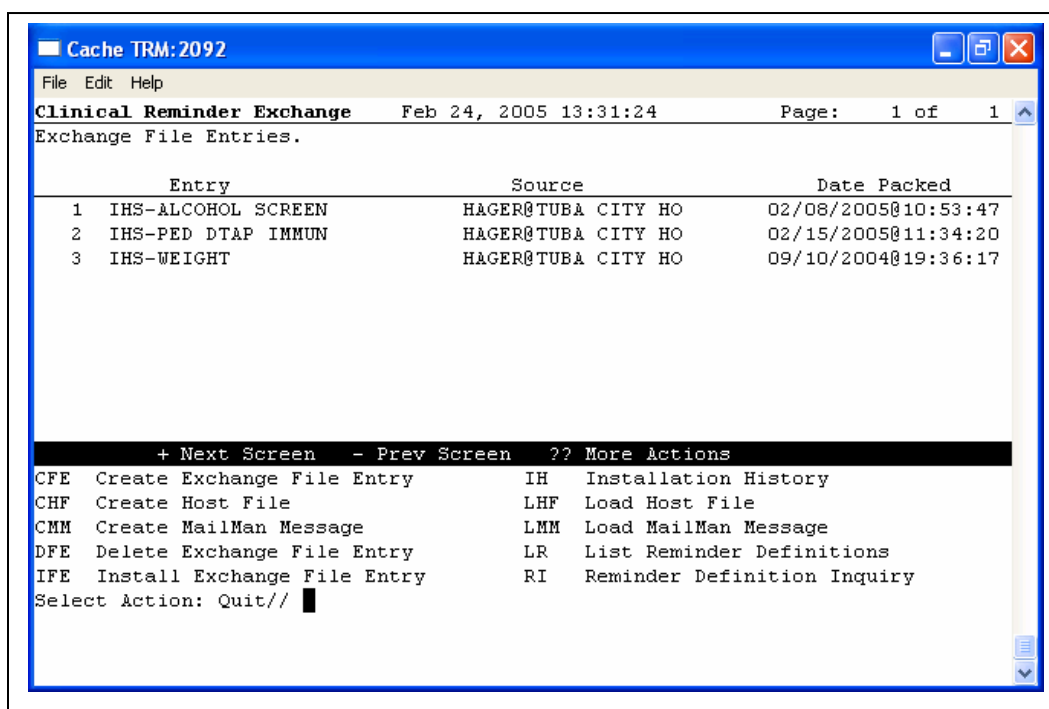
Reminders were automatically installed. However, a site can reinstall a reminder if there was an error. The instructions below are on how to install the national reminders that do NOT have dialogs.

Start in the Reminder Manager menu. Choose Reminder Exchange (RX)

```

CF      Reminder Computed Finding Management ...
RM      Reminder Definition Management ...
SM      Reminder Sponsor Management ...
TXM     Reminder Taxonomy Management ...
TRM     Reminder Term Management ...
RX      Reminder Exchange
RT      Reminder Test
OS      Other Supporting Menus ...
        **> Out of order: NOT USED BY IHS
INFO    Reminder Information Only Menu ...
DM      Reminder Dialog Management ...
CP      CPRS Reminder Configuration ...
RP      Reminder Reports ...
MST     Reminders MST Synchronization Management ...
        **> Out of order: NOT USED BY IHS

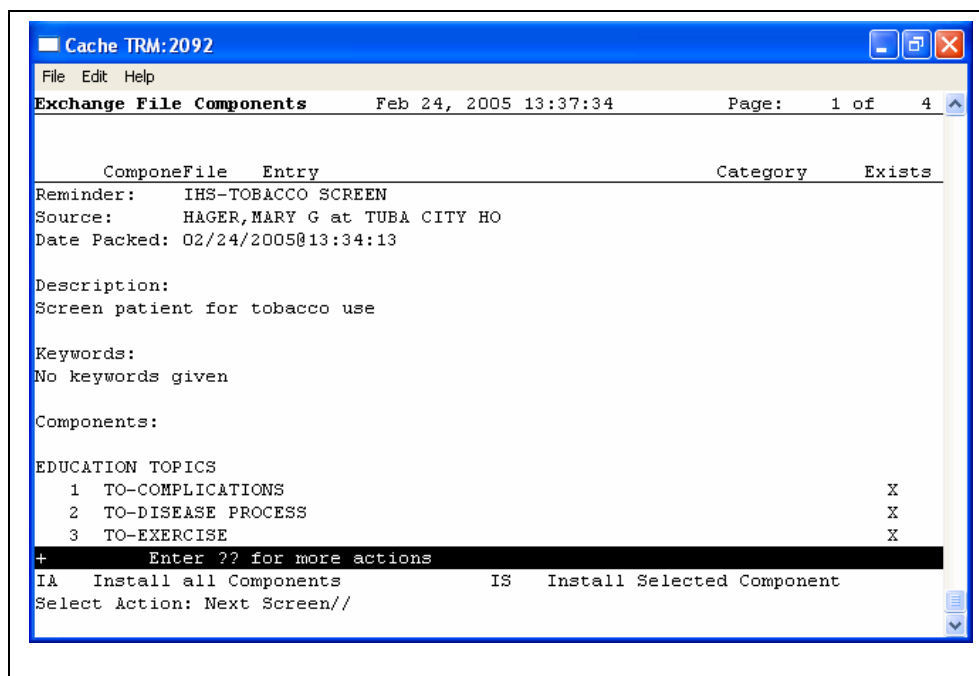
```



The reminder should be visible in exchange. Use IFE – Install Exchange File Entry.

Enter the number of the DTAP IMMUNIZATION to install.

Select Action: (IFE/DFE/IH): **IFE//**



Two choices, IA or IS. Choose **IA** to install all components.

As you install, you will be asked what you want to do about all the elements in this reminder. If the item exists on your system, the default will be to skip installing it again. If it is new, the default is to install it.

Take all the defaults as you load the reminder.

EXAMPLE: Computed finding already exists on the system.

COMPUTED FINDING entry IHS-DTAP already EXISTS, what do you want to do?

Select one of the following:

- C Create a new entry by copying to a new name
- I Install or Overwrite the current entry
- Q Quit the install
- S Skip, do not install this entry

Enter response: S//

EXAMPLE: NEW REMINDER TERM

REMINDER TERM entry IHS-DTAP IMMUN is NEW,  
what do you want to do?

Select one of the following:

- C Create a new entry by copying to a new name
- I Install or Overwrite the current entry
- Q Quit the install
- S Skip, do not install this entry

Enter response: I//

## 6.0 EHR Reminder Configuration

On the main menu, choose CP – CPRS Reminders Configuration.

```

CF      Reminder Computed Finding Management ...
RM      Reminder Definition Management ...
SM      Reminder Sponsor Management ...
TXM     Reminder Taxonomy Management ...
TRM     Reminder Term Management ...
RX      Reminder Exchange
RT      Reminder Test
OS      Other Supporting Menus ...
        **> Out of order:  NOT USED BY IHS
INFO    Reminder Information Only Menu ...
DM      Reminder Dialog Management ...
CP    CPRS Reminder Configuration ...
RP      Reminder Reports ...
MST     Reminders MST Synchronization Management ...
        **> Out of order:  NOT USED BY IHS

```

### 6.1 Activate Reminders

```

CA      Add/Edit Reminder Categories
CL      CPRS Lookup Categories
CS    CPRS Cover Sheet Reminder List
MH      Mental Health Dialogs Active
PN      Progress Note Headers
RA    Reminder GUI Resolution Active
DL      Default Outside Location
PT      Position Reminder Text at Cursor
NP      New Reminder Parameters

```

Use **RA** Reminder GUI Resolution Active. This can be set by the user, so set this parameter for the CAC to YES

Reminders Active may be set for the following:

```

1  User      USR      [choose from NEW PERSON]
2  Service   SRV      [choose from SERVICE/SECTION]
3  Division  DIV      [DEMO HOSPITAL]
4  System    SYS      [DEMO.CIAINFORMATICS.COM]

```

Enter selection: **1 User** NEW PERSON

Select NEW PERSON NAME: **HAGER, MARY G** MGH CLINICAL COORDINATOR

### 6.2 Cover Sheet Reminders

Use **CS** – CPRS Cover Sheet Reminder List to start up the reminders just made.

Again, set them up for just the CAC or selected providers.

Select CPRS Reminder Configuration Option: **CS** CPRS Cover Sheet Reminder List

Clinical Reminders for Search may be set for the following:

```

1  User      USR      [choose from NEW PERSON]

```



```

2   Location      LOC   [choose from HOSPITAL LOCATION]
3   Service       SRV   [choose from SERVICE/SECTION]
4   Division      DIV   [DEMO HOSPITAL]
5   System        SYS   [DEMO.CIAINFORMATICS.COM]
6   Package       PKG   [ORDER ENTRY/RESULTS REPORTING]

Enter selection: 1  User    NEW PERSON
Select NEW PERSON NAME:  HAGER,MARY

----- Setting Clinical Reminders for Search  for User: HAGER,MARY G -----
Select Display Sequence: 1
Are you adding 1 as a new Display Sequence? Yes//  YES

Display Sequence: 1//    1
Clinical Reminder:  TEST SENIOR HEIGHT           LOCAL
Select Display Sequence: 2
Are you adding 2 as a new Display Sequence? Yes//  YES

Display Sequence: 2//    2
Clinical Reminder:  TEST LIPID MALE              LOCAL

Select Display Sequence: 3
Are you adding 3 as a new Display Sequence? Yes//  YES

Display Sequence: 3//    3
Clinical Reminder:  IHS-TOBACCO SCREEN           LOCAL

```

**After testing, you can activate the reminders for the system level.**

Below is an sample setup:

```

Display Sequence  Value
-----
1                IHS-IMMUNIZATION FORECAST  ← THIS MUST BE NUMBER 1
8                IHS-PED DTAP IMMUN
9                IHS-PED HEPA IMMUN
10               IHS-PED HEPB IMMUN
11               IHS-PED HIBTITER IMMUN
12               IHS-PED MMR IMMUN
13               IHS-PED PNEUMOVAX IMMUNIZATION
14               IHS-PED POLIO IMMUN
15               IHS-PED TD IMMUNIZATION
16               IHS-PED VARICELLA IMMUN
17               IHS-INFLUENZA IMMUNIZATION
18               IHS-PNEUMOVAX IMMUNIZATION
19               IHS-TD IMMUNIZATION
30               IHS-HEP A ADULT
31               IHS-HEP B ADULT

```

## 7.0 Reminder Test

A site can test the reminder by entering a patient and a reminder and looking at the output. Choose Reminder Test (RT).

```
CF      Reminder Computed Finding Management ...
RM      Reminder Definition Management ...
SM      Reminder Sponsor Management ...
TXM     Reminder Taxonomy Management ...
TRM     Reminder Term Management ...
RX      Reminder Exchange
RT      Reminder Test
OS      Other Supporting Menus ...
INFO    Reminder Information Only Menu ...
DM      Reminder Dialog Management ...
CP      CPRS Reminder Configuration ...
RP      Reminder Reports ...
MST     Reminders MST Synchronization Management ...
**> Out of order: NOT USED BY IHS
```

Select the patient. Then select the Reminder to test.

The data stream that returns is not pretty but the data is valuable.

The elements of the FIEV array are:

```
FIEV(1)=1
FIEV(1,"DATE")=3050308.141159
FIEV(1,"FINDING")=19;AUTTHF(
FIEV(1,"LEVEL")=
FIEV(1,"SOURCE")=1101;AUPNVHF(
FIEV(1,"TERM")=ALCOHOL SCREEN
FIEV(1,"VALUE")=
FIEV(1,"VIEN")=1970963
FIEV("AGE",1)=1
FIEV("DFN")=102519
FIEV("PATIENT AGE")=25
```

The elements of the ^TMP(PXRMID,\$J) array are:

```
^TMP(PXRMID,$J,68,"AGE11A")=1
^TMP(PXRMID,$J,68,"FINDING 1_FOUNDB")=Alcohol screen found in the computer within the
past year
^TMP(PXRMID,$J,68,"HEALTH FACTOR CAGE 0/4")=03/08/2005 Health Factor: CAGE 0/4
^TMP(PXRMID,$J,68,"PATIENT COHORT LOGIC")=1^(SEX)&(AGE)^(1)&(1)
^TMP(PXRMID,$J,68,"REMINDER NAME")=Alcohol Screen
^TMP(PXRMID,$J,68,"RESOLUTION LOGIC")=1^(0)!FI(1)^(0)!1
^TMP(PXRMID,$J,68,"zFREQARNG")=Due every 1 year for ages 13Y to 110Y
```

The elements of the ^TMP("PXRHM",\$J) array are:

```
^TMP("PXRHM",$J,68,"Alcohol Screen")=RESOLVED^3060308.141159^3050308.141159
^TMP("PXRHM",$J,68,"Alcohol Screen","TXT",1)=
^TMP("PXRHM",$J,68,"Alcohol Screen","TXT",2)=Applicable: Due every 1 year for ag
es 13Y to 110Y within cohort.
^TMP("PXRHM",$J,68,"Alcohol Screen","TXT",3)=
^TMP("PXRHM",$J,68,"Alcohol Screen","TXT",4)=Resolution: Last done 03/08/2005
^TMP("PXRHM",$J,68,"Alcohol Screen","TXT",5)=Reminder Term: ALCOHOL SCREEN
^TMP("PXRHM",$J,68,"Alcohol Screen","TXT",6)=03/08/2005 Health Factor: CAGE 0/4
^TMP("PXRHM",$J,68,"Alcohol Screen","TXT",7)=Alcohol screen found in the computer
within the past year
```

- The **bolded lines** are the most important. The number one (1) says that this patient is a candidate for this reminder.
- The second bolded line has a 1 if the reminder is not due and a 0 if it is due.

Another example is below. The patient has diabetes and therefore should have a lipid done yearly.

The elements of the ^TMP(PXRMID,\$J) array are:

```
^TMP(PXRMID,$J,2,"FINDING 2_FOUNDB")=Patient is diabetic and should have lipid profile
done yearly
^TMP(PXRMID,$J,2,"ICD9VPOV 250.00","CODE")=250.00
^TMP(PXRMID,$J,2,"ICD9VPOV 250.00","DATE")=3050308.141159
^TMP(PXRMID,$J,2,"ICD9VPOV 250.00","DIAG")=DM UNCOMPL/T-II/NIDDM,NS UNCON
^TMP(PXRMID,$J,2,"ICD9VPOV 250.00","PN")=Diabetes Mellitus Type II or unspecified
^TMP(PXRMID,$J,2,"LAB LIP.PAN")=08/01/2003 Laboratory test: LIP.PAN; value - SEE
SEPARATEREPORT.
^TMP(PXRMID,$J,2,"PATIENT COHORT LOGIC")=1^(SEX)&(AGE)!FI(2)^(1)&(1)!1
^TMP(PXRMID,$J,2,"REMINDER NAME")=P-Lipid Profile Female
^TMP(PXRMID,$J,2,"RESOLUTION LOGIC")=1^(0)!FI(1)^(0)!1
^TMP(PXRMID,$J,2,"zFREQARNG")=Due every 1 year for all ages
```

The elements of the ^TMP("PXRHM",\$J) array are:

```
^TMP("PXRHM",$J,2,"P-Lipid Profile Female")=DUE NOW^3040801.09241^3030801.09241
^TMP("PXRHM",$J,2,"P-Lipid Profile Female","TXT",1)=
^TMP("PXRHM",$J,2,"P-Lipid Profile Female","TXT",2)=Applicable: Due every 1 year
for all ages within cohort.
^TMP("PXRHM",$J,2,"P-Lipid Profile Female","TXT",3)=03/08/2005 Encounter Diagnosis:
250.00 DM UNCOMPL/T-II/NIDDM,NS UNCON
^TMP("PXRHM",$J,2,"P-Lipid Profile Female","TXT",4)= Prov. Narr. - Diabetes Mellitus
Type II or unspecified
^TMP("PXRHM",$J,2,"P-Lipid Profile Female","TXT",5)=Patient is diabetic and should
have lipid profile done yearly
^TMP("PXRHM",$J,2,"P-Lipid Profile Female","TXT",6)=
^TMP("PXRHM",$J,2,"P-Lipid Profile Female","TXT",7)=Resolution: Last done 08/01/2003
^TMP("PXRHM",$J,2,"P-Lipid Profile Female","TXT",8)=Reminder Term: IHS-LIPID LAB TESTS
^TMP("PXRHM",$J,2,"P-Lipid Profile Female","TXT",9)=08/01/2003 Laboratory test:
LIP.PAN; value - SESEPARATEREPORT.
```

## 8.0 Reminders Due

1. Log into the EHR. If you were already logged on, you will need to log off and then log back on again.
2. Pick a patient who would have one of the reminders due.

The reminder alarm clock should be RED in someone with a reminder due.

If you click on the alarm clock, you should see a list of reminders due.

Right-click on the reminder due and review any of the options in the drop-down menu

3. Be sure to check all the reminders before adding them to the system level.

## 8.1 Reminders on Cover Sheet

The screenshot displays the IHS-EHR (EHRC) interface for a patient named Demo, Female, with ID 247650. The patient is associated with ADULT CARDIOLOGY and Primary Care Team Unassigned. The interface includes several tabs: Patient Chart, Communication, Problem List, Adverse Reactions, Alerts, Medications, Reminders, Vital Measurements, Lab Orders, and Appointments and Visits.

**Problem List:**

Problem	Date
Chronic obstructive asthma	09-Nov-2004
Depressive Disorder NOS	13-Jan-2004
Diabetes Mellitus Type II o...	15-Jan-2004
Essential Hypertension	27-Jan-2004
Influenza	26-Jan-2004
Urticaria	13-Jan-2004

**Adverse Reactions:**

Agent	Reaction
MOTRIN	ANXIETY
PENICILLINS	RASH

**Alerts:**

Crisis Alert	Date
CLINICAL WARNING	26-Jan-2004 13:37

**Medications:**

Medication	Status	Issue Date
FERRUS SUL...	ACTIVE	30-Apr-2005
CLOPIDOGREL...	ACTIVE	30-Apr-2005
DIGOXIN 0.125...	ACTIVE	29-Apr-2005
OMEPRazole ...	ACTIVE	29-Apr-2005
FERRUS SUL...	DISCONTINU...	06-Apr-2005
DIGOXIN 0.125...	DISCONTINU...	06-Apr-2005
DIGOXIN 0.25M...	DISCONTINU...	08-Mar-2005
ACETAMINOPH...	EXPIRED	28-Feb-2005
FERRUS SUL...	DISCONTINU...	23-Feb-2005
WARFARIN 2M...	EXPIRED	11-Feb-2005
CLOPIDOGREL...	DISCONTINU...	18-Nov-2004
FUROSEMIDE ...	ACTIVE	02-Nov-2004
DIGOXIN 0.125...	DISCONTINU...	22-Jul-2004
OMEPRazole ...	DISCONTINU...	24-Jun-2004
DIGOXIN 0.25M...	DISCONTINU...	15-Jun-2004
FUROSEMIDE ...	DISCONTINU...	06-May-2004

**Reminders:**

Reminder	Date
Diab Blood Sugar Update	DUE NOW
Diab Dental Exam	DUE NOW
Diab Eye Exam	DUE NOW
Diab Foot Exam	DUE NOW
Diabetes Diagnosis	15-Jan-2005
Flu Shot Immunization	DUE NOW
Hep B adult IMM	DUE NOW
P-Lipid Profile Female	01-Aug-2004 09:24

**Vital Measurements:**

Vital	Value	Date
PA	2	08-Mar-2005 14:15
O2	96 %	08-Mar-2005 14:15
WT	178 lb (80.9 kg)	08-Mar-2005 14:14
BP	130/90 mmHg	08-Mar-2005 14:14
TMP	98.6 F (37 C)	08-Mar-2005 14:14
PU	76 /min	08-Mar-2005 14:14
RS	16 /min	08-Mar-2005 14:14
HT	55 in (139.7 cm)	22-Oct-2004 13:16
BMI	36.66	15-Jun-2004 15:39

**Lab Orders:**

No Lab Orders Found

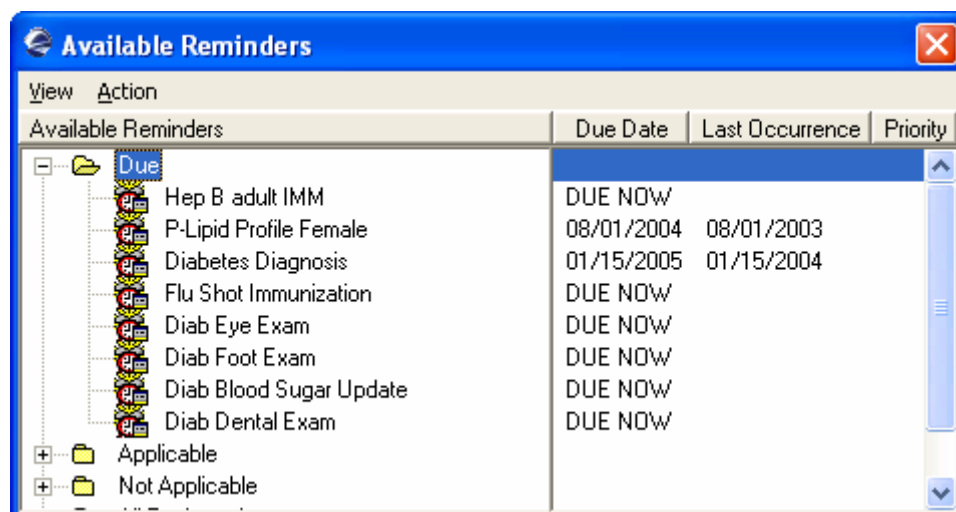
**Appointments and Visits:**

Appointment/Visit	Date	Status
ADULT CARDIOLOGY	13-May-2005 15:45	AMBULATORY
PHARMACY DIALYSIS	09-May-2005 12:00	AMBULATORY
PHARMACY DIALYSIS	30-Apr-2005 12:00	AMBULATORY
ADULT CARDIOLOGY	29-Apr-2005 10:35	AMBULATORY
PHARMACY DIALYSIS	06-Apr-2005 12:00	AMBULATORY
ADULT WALKIN	23-Mar-2005 10:21	AMBULATORY
PHARMACY DIALYSIS	09-Mar-2005 12:00	AMBULATORY
ADULT WALKIN	08-Mar-2005 14:11	AMBULATORY
PHARMACY DIALYSIS	01-Mar-2005 12:00	AMBULATORY
WALK IN-FOLLOW UP	01-Mar-2005 09:41	AMBULATORY
ADULT WALKIN	28-Feb-2005 17:53	AMBULATORY
ADULT WALKIN	25-Feb-2005 13:26	AMBULATORY
ADULT WALKIN	23-Feb-2005 20:15	AMBULATORY
WALK-IN EYE	17-Feb-2005 17:31	AMBULATORY
WALK-IN EYE	16-Feb-2005 15:31	AMBULATORY
WALK-IN EYE	15-Feb-2005 10:00	AMBULATORY
ADULT WALKIN	13-Feb-2005 17:02	AMBULATORY
ADULT CARDIOLOGY	11-Feb-2005 12:03	AMBULATORY
WALK-IN EYE	09-Feb-2005 17:58	AMBULATORY
WALK-IN EYE	03-Feb-2005 08:00	AMBULATORY
ADULT WALKIN	19-Jan-2005 10:55	AMBULATORY
ADULT WALKIN	07-Jan-2005 09:35	AMBULATORY
Adult Walkin	04-Jan-2005 10:13	AMBULATORY
ADULT WALKIN	15-Dec-2004 16:50	AMBULATORY
TELEPHONE TRIAGE	07-Dec-2004 12:24	TELECOMMUNICATIONS
TELEPHONE TRIAGE	06-Dec-2004 12:12	TELECOMMUNICATIONS
ADULT WALKIN	06-Dec-2004 12:05	AMBULATORY
TELEPHONE TRIAGE	01-Dec-2004 14:44	TELECOMMUNICATIONS

## 8.2 Reminder Icon

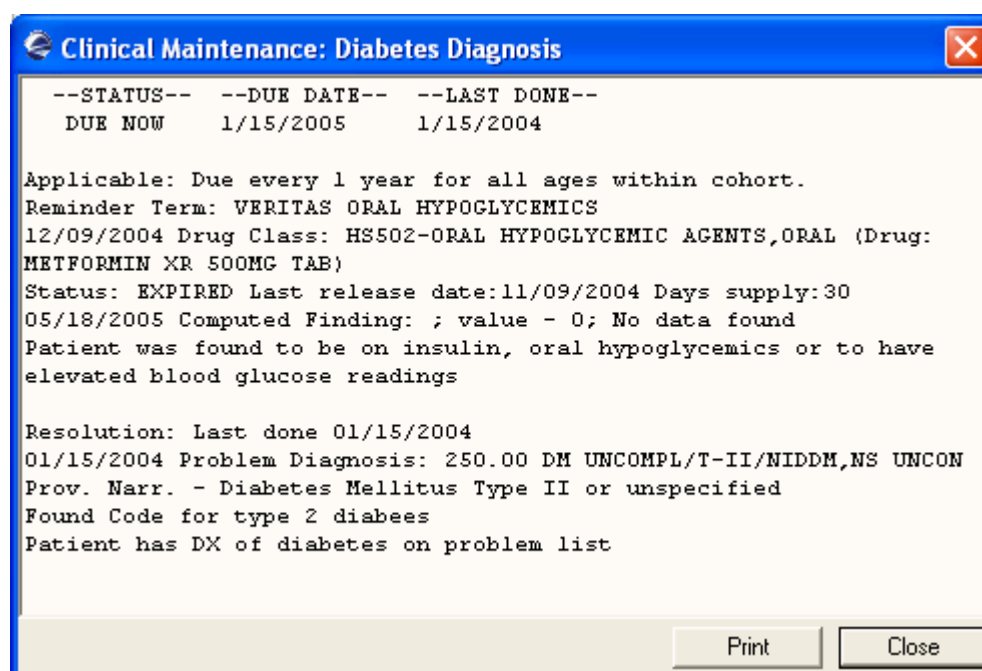
The reminder icon is an alarm clock. The clock appears red if reminders are due and blue if there is nothing due. This displays when a reminder is due and when it was last done.

Click on the reminder icon to open up the list of items to view.



Right-click on any item in the list and there will be a selection of items from which to choose. This list is explained below.

### 8.2.1 Clinical Maintenance (why it was due)



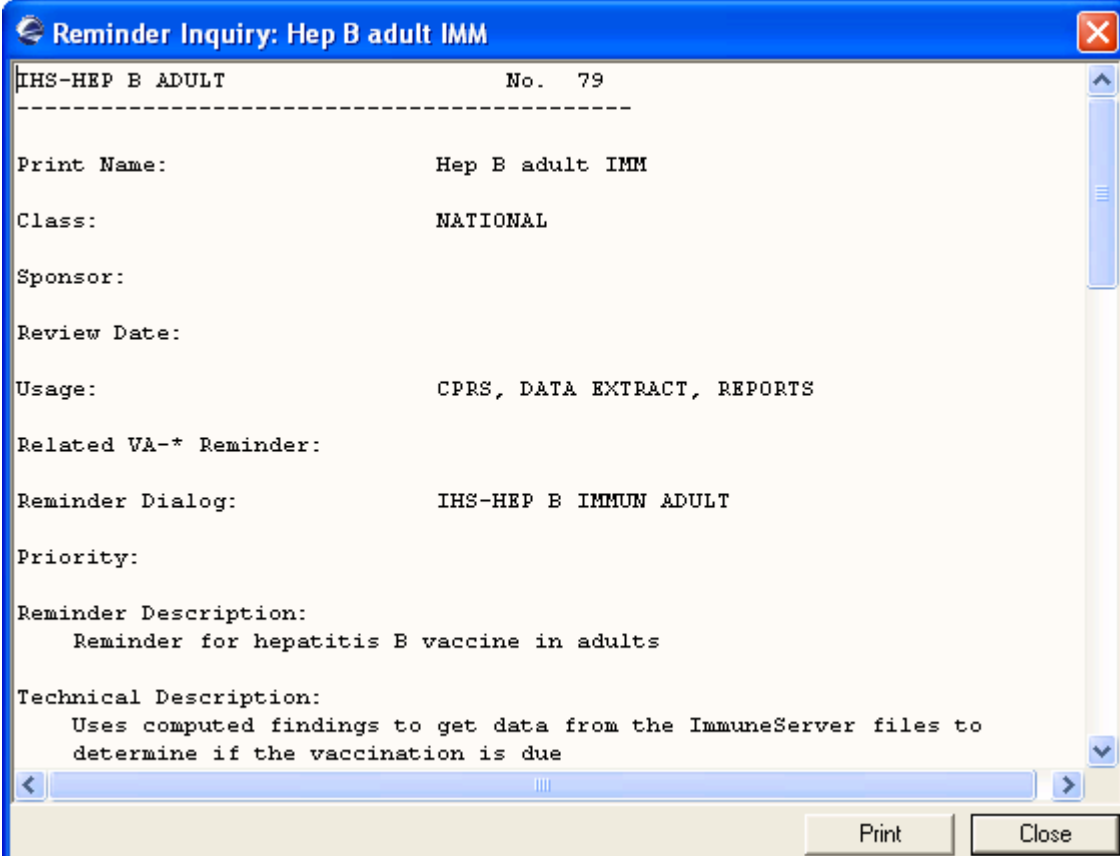
### 8.2.2 Evaluate the reminder again

Generally, you use this after something has been added to PCC and the you want to see if it resolved the reminder

### 8.2.3 Bring up reference material

A Website can be added to a reminder. Clicking on the reference material will link to the associated Website.

### 8.2.4 Do a reminder inquiry

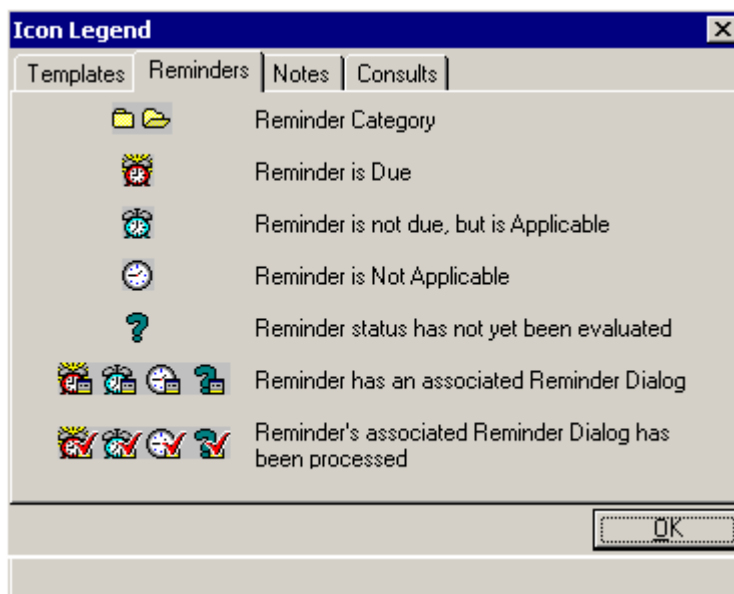


The screenshot shows a window titled "Reminder Inquiry: Hep B adult IMM". The window contains the following information:

IHS-HEP B ADULT		No. 79
Print Name:	Hep B adult IMM	
Class:	NATIONAL	
Sponsor:		
Review Date:		
Usage:	CPRS, DATA EXTRACT, REPORTS	
Related VA-* Reminder:		
Reminder Dialog:	IHS-HEP B IMMUN ADULT	
Priority:		
Reminder Description:	Reminder for hepatitis B vaccine in adults	
Technical Description:	Uses computed findings to get data from the ImmuneServer files to determine if the vaccination is due	

At the bottom of the window, there are "Print" and "Close" buttons.

### 8.2.5 Look at the Reminder Icons



## 8.3 Reminders in Health Summary

You can also view the Reminders in the Health Summary on the Reports tab.

Users can either create a VA Health Summary type for reminders as below, or the VA Health Summary components that already exist can be added to the Ad Hoc report.

Sites will need to have installed the HEALTH SUMMARY COMPONENTS (BHS) package before they can use VA Health Summary. Once created, the summary type is added using the parameter ORWRP HEALTH SUMMARY LIST.

Patent Chart Communication

**Demo, Female**  
247650 05-Apr-1980 (25) F

**Visit not selected**  
HAGER, MARY G

Primary Care Team Unassigned

Postings  
WA

Available Reports

- Clinical Reports
- Health Summary
  - Adhoc Report
  - Adult Regular
  - Adult With PN
  - Alcohol Screen
  - Diabetes Registry
  - Diabetes Standard
  - Diabetic
  - Measurement Panels
  - Patient History
  - Pediatric Test
  - Peds Measurement Panel
  - Pre Diabetes Supplement
  - Prenatal
  - Rcis Referrals
  - Reminders**
  - Reproductive HX
  - Womens Health
- Dept. of Defense Reports
  - Imaging (local only)
  - Lab Status
  - Blood Bank Report
- Anatomic Path Reports
  - Dietetics Profile
  - Nutritional Assessment
  - Procedures (local only)
  - Daily Order Summary
  - Order Summary for a Date Range
  - Chart Copy Summary
  - Outpatient RX Profile
  - Surgery (local only)

Health Summary Reminders

05/24/2005 13:05  
\*\*\*\*\* CONFIDENTIAL Reminders SUMMARY pg. 1 \*\*\*\*\*  
DEMO, FEMALE 247650 DOB: 04/05/1980

----- CR - Reminders Due -----

The following disease screening, immunization and patient education recommendations are offered as guidelines to assist in your practice. These are only recommendations, not practice standards. The appropriate utilization of these for your individual patient must be based on clinical judgment and the patient's current status.

	--STATUS--	--DUE DATE--	--LAST DONE--
P-Lipid Profile Female	DUE NOW	DUE NOW	unknown

----- CM - Reminder Maintenance -----

The following disease screening, immunization and patient education recommendations are offered as guidelines to assist in your practice. These are only recommendations, not practice standards. The appropriate utilization of these for your individual patient must be based on clinical judgment and the patient's current status.

	--STATUS--	--DUE DATE--	--LAST DONE--
P-Lipid Profile Female	DUE NOW	DUE NOW	unknown

Applicable: Due every 1 year for all ages within cohort.  
03/08/2005 Encounter Diagnosis: 250.00 DM UNCOMPL/T-II/NIDDM, NS UNCON  
Prov. Narr. - Diabetes Mellitus Type II or unspecified  
Patient is diabetic and should have lipid profile done yearly  
Patient is over 45. Lipid profiles should be done every five years on females over 45

P-Lipid Profile Male N/A  
Lipid profiles should be done every 5 years on males over 35 or yearly on diabetics. Please consider ordering a lipid profile  
Patient is the wrong sex!

Mammogram N/A  
Patient is in the age range for yearly mammograms. If one has not been ordered, please consider ordering  
Patient does not meet any age criteria!

\*\*\* END \*\*\*\*\* CONFIDENTIAL Reminders SUMMARY pg. 1 \*\*\*\*\*

Notifications Cover Sheet Triage Wellness Notes Prob/POV Services Orders Medications Labs D/C Summ Reports Consults Women's Health



## 9.0 Taxonomy Error Example

This section describes an error on install and how to fix the error.

### 9.1 Error on Install

Below is an example of an install that produced the taxonomy error. If this error occurs because:

1. The site is installing the patch a second time, nothing needs to be done.
2. The site is installing the patch the first time.

Make the taxonomy manually.

Install the reminder manually from reminder exchange.

You can see which reminder had the error and you can read which code caused the error.

This will scroll by quickly so we **STRONGLY RECOMMEND** to print out your install or log it as it occurs.

```
Select IHS Kernel Option: ^kids    Kernel Installation & Distribution System

Edits and Distribution ...
Utilities ...
Installation ...

You have 20 PENDING ALERTS
Enter "VA to jump to VIEW ALERTS option

Select Kernel Installation & Distribution System Option: installation

1      Load a Distribution
2      Verify Checksums in Transport Global
3      Print Transport Global
4      Compare Transport Global to Current System
5      Backup a Transport Global
6      Install Package(s)
Restart Install of Package(s)
Unload a Distribution

You have 20 PENDING ALERTS
Enter "VA to jump to VIEW ALERTS option

Select Installation Option: 1  Load a Distribution
Enter a Host File: pxrm0150.1002k

KIDS Distribution saved on Jun 13, 2005@10:41:20
Comment: immunization reminders

This Distribution contains Transport Globals for the following Package(s):
Build PXRM*1.5*1002 has been loaded before, here is when:
```

```
PXRМ*1.5*1002   Install Completed
                  was loaded on Jun 08, 2005@06:38:44
OK to continue with Load? NO// y  YES

Distribution OK!

Want to Continue with Load? YES//
Loading Distribution...

Build PXRМ*1.5*1002 has an Environmental Check Routine
Want to RUN the Environment Check Routine? YES//
    PXRМ*1.5*1002
Will first run the Environment Check Routine, BPXRMP2I

Use INSTALL NAME: PXRМ*1.5*1002 to install this Distribution.


1      Load a Distribution
2      Verify Checksums in Transport Global
3      Print Transport Global
4      Compare Transport Global to Current System
5      Backup a Transport Global
6      Install Package(s)
      Restart Install of Package(s)
      Unload a Distribution


You have 20 PENDING ALERTS
      Enter  "VA to jump to VIEW ALERTS option

Select Installation Option: 6  Install Package(s)
Select INSTALL NAME:      PXRМ*1.5*1002      Loaded from Distribution      Loaded from
Distribution 6/15/05@06:51:48
      => immunization reminders ;Created on Jun 13, 2005@10:41:20

This Distribution was loaded on Jun 15, 2005@06:51:48 with header of
immunization reminders ;Created on Jun 13, 2005@10:41:20
It consisted of the following Install(s):
    PXRМ*1.5*1002
Checking Install for Package PXRМ*1.5*1002
Will first run the Environment Check Routine, BPXRMP2I

Install Questions for PXRМ*1.5*1002

Incoming Files:

    811.8      REMINDER EXCHANGE FILE (including data)
Note: You already have the 'REMINDER EXCHANGE FILE' File.
I will REPLACE your data with mine.

Want KIDS to INHIBIT LOGONS during the install? YES// n  NO

Enter the Device you want to print the Install messages.
You can queue the install by enter a 'Q' at the device prompt.
Enter a '^' to abort the install.

DEVICE: HOME//

Install Started for PXRМ*1.5*1002 :
```

```
Jun 15, 2005@06:51:54
Build Distribution Date: Jun 13, 2005

Installing Routines:
    Jun 15, 2005@06:51:54

Running Pre-Install Routine: PRE^BPXRMP2I

Installing Data Dictionaries:
    Jun 15, 2005@06:51:55

Installing Data:
    Jun 15, 2005@06:51:57

Running Post-Install Routine: POST^BPXRMP2I

Installing reminder IHS-HEP A ADULT

Installing reminder IHS-HEP B ADULT

Installing reminder IHS-IMMUNIZATION FORECAST

Installing reminder IHS-INFLUENZA IMMUNIZATION
The update failed, UPDATE^DIE returned the following error message:
MSG("DIERR")=1^1
MSG("DIERR",1)=701
MSG("DIERR",1,"PARAM",0)=3
MSG("DIERR",1,"PARAM",3)=043.9
MSG("DIERR",1,"PARAM","FIELD")=.01
MSG("DIERR",1,"PARAM","FILE")=811.23102
MSG("DIERR",1,"TEXT",1)=The value '043.9 ' for field SELECTABLE DIAGNOSIS in SEL
ECTABLE DIAGNOSIS SUB-FIELD in file REMINDER TAXONOMY is not valid.
MSG("DIERR","E",701,1)=

REMINDER TAXONOMY entry did not get installed!
Examine the above error message for the reason.

Installing reminder IHS-PED DTAP IMMUN

Installing reminder IHS-PED HEPA IMMUN

Installing reminder IHS-PED HEPB IMMUN

Installing reminder IHS-PED HIBTITER IMMUN

Installing reminder IHS-PED MMR IMMUN

Installing reminder IHS-PED PEDIARIX IMMUN

Installing reminder IHS-PED PEDVAXHIB IMMUN

Installing reminder IHS-PED PNEUMOVAX IMMUNIZATION

Installing reminder IHS-PED POLIO IMMUN

Installing reminder IHS-PED TD IMMUNIZATION

Installing reminder IHS-PED VARICELLA IMMUN

Updating Routine file...
```

```
Updating KIDS files...
```

```
PXRM*1.5*1002 Installed.
```

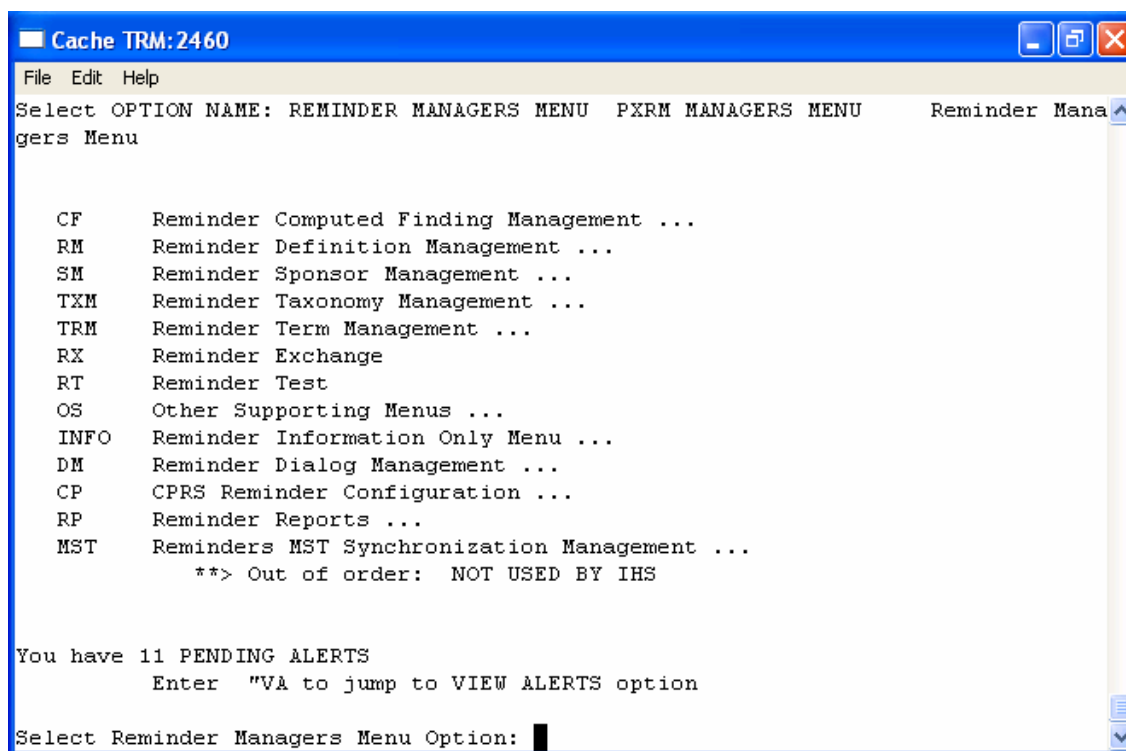
```
Jun 15, 2005@06:52:02
```

## 9.2 Fixing the Error

This section describes how to create the taxonomy manually and how to install the reminder manually.

### 9.2.1 Create the Taxonomy Manually

1. Find the name of the taxonomy:



Use the main Reminder Menu, and choose RX Reminder Exchange.

Cache TRM:2460			
File Edit Help			
<b>Clinical Reminder Exchange</b>		Jun 16, 2005 11:14:11	Page: 3 5
Exchange File Entries.			
+	Entry	Source	Date Packed
21	IHS-HEP A ADULT	HAGER@TUBA CITY HO	06/11/2005@17:48:59
22	IHS-HEP B ADULT	HAGER@TUBA CITY HO	06/11/2005@17:49:20
23	IHS-IMMUNIZATION FORECAST	HAGER@TUBA CITY HO	06/11/2005@17:49:37
24	IHS-INFLUENZA IMMUNIZATION	HAGER@TUBA CITY HO	06/15/2005@08:33:29
25	IHS-LIPID FEMALE	HAGER@TUBA CITY HO	06/11/2005@17:59:30
26	IHS-LIPID MALE	HAGER@TUBA CITY HO	06/11/2005@17:59:46
27	IHS-MAMMOGRAM	HAGER@TUBA CITY HO	06/13/2005@16:37:50
28	IHS-PAP SMEAR	HAGER@TUBA CITY HO	06/13/2005@16:38:17
29	IHS-PED DTAP IMMUN	HAGER@TUBA CITY HO	06/11/2005@17:50:19
30	IHS-PED HEP A IMMUN	HAGER@TUBA CITY HO	06/11/2005@17:50:35
+    + Next Screen    - Prev Screen    ?? More Actions			
CFE	Create Exchange File Entry	IH	Installation History
CHF	Create Host File	LHF	Load Host File
CMM	Create MailMan Message	LMM	Load MailMan Message
DFE	Delete Exchange File Entry	LR	List Reminder Definitions
IFE	Install Exchange File Entry	RI	Reminder Definition Inquiry
Select Action: Next Screen//			

Search the list until you find the reminder that had the error. Then, choose IFE (Install Exchange File Entry).

Cache TRM:2460

File Edit Help

Exchange File ComponentsJun 16, 2005 11:22:02Page: 2 of 2

+	ComponenFile	Entry	Category	Exists
	IMMUNIZATION			
		INFLUENZA, NOS		X
	REMINDER COMPUTED FINDINGS			
	2	IHS-FLU		X
	REMINDER TAXONOMY			
	3	IHS-HIGH RISK FOR FLU/PNEUMONIA		X
	REMINDER TERM			
	4	IHS-INFLUENZA		X
	REMINDER DEFINITION			
	5	IHS-INFLUENZA IMMUNIZATION		X

+ Next Screen - Prev Screen ?? More Actions

IA Install all ComponentsIS Install Selected Component

Select Action: Quit//

You will see the name of the taxonomy. If it was not installed there will NOT be an X in the Exists column. The example above does have the taxonomy.

2. Use the taxonomy option to create the taxonomy.
  - a. Return to the main menu and use TXM (Reminder Taxonomy Management). Choose TE (Edit Taxonomy Item).

TL	List Taxonomy Definitions
TI	Inquire about Taxonomy Item
<b>TE</b>	<b>Edit Taxonomy Item</b>
TC	Copy Taxonomy Item

- b. Enter the name of the taxonomy you found from reminder exchange.

**NOTE:** Make sure the name is identical to the one in reminder exchange.

```

NAME: IHS-HIGH RISK FOR FLU/PNEUMONIA  Replace
BRIEF DESCRIPTION: Flu/pneumonia risk codes  Replace

CLASS: LOCAL//
SPONSOR:
REVIEW DATE:

PATIENT DATA SOURCE: EN,PL//
USE INACTIVE PROBLEMS:
INACTIVE FLAG:

ICD0 Range of Coded Values
Select ICD0 LOW CODED VALUE:

ICD9 Range of Coded Values
Select ICD9 LOW CODED VALUE: V08.//
  ICD9 LOW CODED VALUE: V08.//
  ICD9 HIGH CODED VALUE: V08.//
Select ICD9 LOW CODED VALUE:

CPT Range of Coded Values
Select CPT LOW CODED VALUE:

```

- c. Use the descriptions of the taxonomies found in the document entitled “Taxonomies” to enter all the grouping of ICD0, ICD9, and/or CPT codes that apply to this taxonomy.
  - d. For a single entry, the low value and the high value are the same entry.
  - e. For ranges, enter the lowest entry in the range and then the highest. The computer will all codes in that range.

## 9.2.2 Install the Reminder Manually

1. Return to Reminder Exchange

Go back into reminder exchange and again find the reminder

Cache TRM:2460			
File Edit Help			
<b>Clinical Reminder Exchange</b>		Jun 16, 2005 11:31:09	Page: 3 of 5
Exchange File Entries.			
	Entry	Source	Date Packed
21	IHS-HEP A ADULT	HAGER@TUBA CITY HO	06/11/2005@17:48:59
22	IHS-HEP B ADULT	HAGER@TUBA CITY HO	06/11/2005@17:49:20
23	IHS-IMMUNIZATION FORECAST	HAGER@TUBA CITY HO	06/11/2005@17:49:37
24	IHS-INFLUENZA IMMUNIZATION	HAGER@TUBA CITY HO	06/16/2005@11:20:37
25	IHS-LIPID FEMALE	HAGER@TUBA CITY HO	06/11/2005@17:59:30
26	IHS-LIPID MALE	HAGER@TUBA CITY HO	06/11/2005@17:59:46
27	IHS-MAMMOGRAM	HAGER@TUBA CITY HO	06/13/2005@16:37:50
28	IHS-PAP SMEAR	HAGER@TUBA CITY HO	06/13/2005@16:38:17
29	IHS-PED DTAP IMMUN	HAGER@TUBA CITY HO	06/11/2005@17:50:19
30	IHS-PED HEPA IMMUN	HAGER@TUBA CITY HO	06/11/2005@17:50:35
+      + Next Screen    - Prev Screen    ?? More Actions			
CFE	Create Exchange File Entry	IH	Installation History
CHF	Create Host File	LHF	Load Host File
CMM	Create MailMan Message	LMM	Load MailMan Message
DFE	Delete Exchange File Entry	LR	List Reminder Definitions
IFE	Install Exchange File Entry	RI	Reminder Definition Inquiry
Select Action: Next Screen//			

2. Choose IFE to install the reminder manually.

Cache TRM:2460			
File Edit Help			
<b>Exchange File Components</b>		Jun 16, 2005 11:31:53	Page: 1 of 2
ComponenFile	Entry	Category	Exists
Reminder:	IHS-INFLUENZA IMMUNIZATION		
Source:	HAGER,MARY G at TUBA CITY HO		
Date Packed:	06/16/2005@11:20:37		
Description:			
Flu shot reminder is due for patients over the age of 50 and for those with high			
This reminder uses a taxonomy to find those high risk diagnoses and the immuniza			
This reminder should be inactivated when it is not flu season			
Keywords:			
No keywords given			
Components:			
ROUTINE			
1	BPXRМIM1		X
+      Enter ?? for more actions			
IA	Install all Components	IS	Install Selected Component
Select Action: Next Screen//			

Choose IA (Install all Components).

- If the component already exists, the default will be to skip.

- If the component does not exist, the default will be to install.

### TAKE ALL THE DEFAULTS.

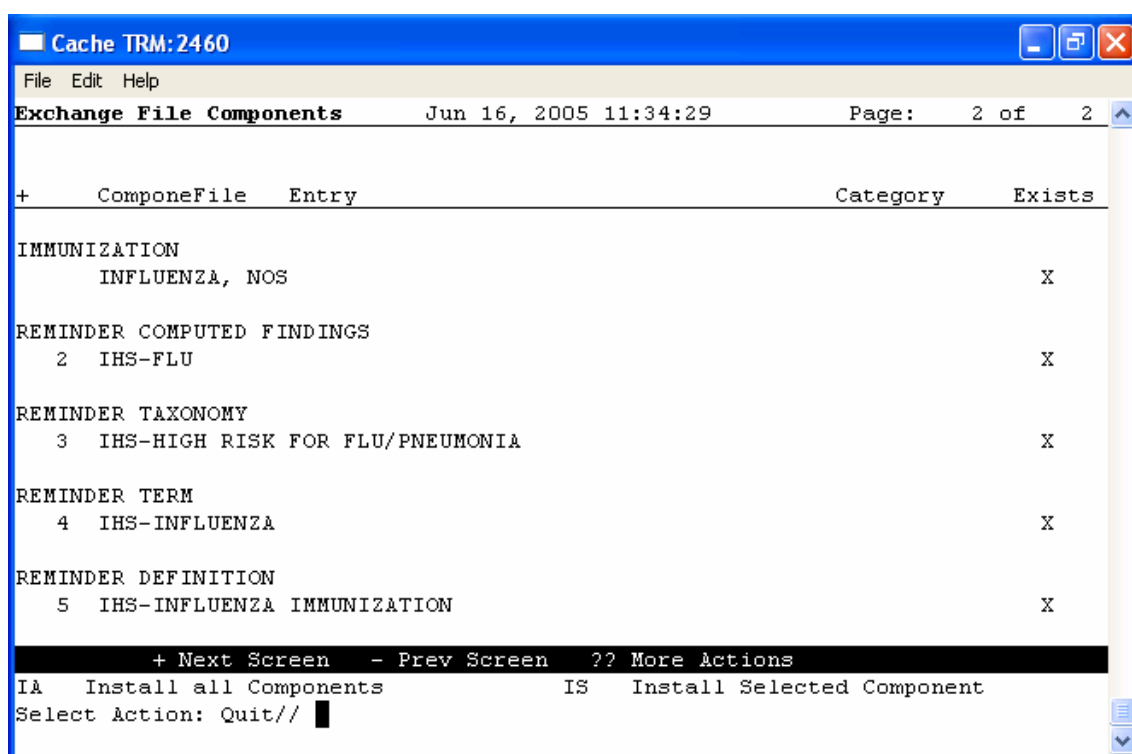
Routine BPXRМIM1 already EXISTS,  
what do you want to do?

Select one of the following:

C	Create a new entry by copying to a new name
I	Install or Overwrite the current entry
Q	Quit the install
S	Skip, do not install this entry

Enter response: S//

When finished, all of the items should have an X in the Exists column



The screenshot shows a window titled "Cache TRM:2460" with a menu bar (File, Edit, Help) and a status bar. The main area displays a table of components with columns: Component, Entry, Category, and Exists. The table lists several immunization-related components, all of which have an 'X' in the 'Exists' column. At the bottom, there are navigation buttons (+ Next Screen, - Prev Screen, ?? More Actions) and a section for actions (IA Install all Components, IS Install Selected Component) with a prompt "Select Action: Quit//".

Component	Entry	Category	Exists
IMMUNIZATION			
INFLUENZA, NOS			X
REMINDER COMPUTED FINDINGS			
2 IHS-FLU			X
REMINDER TAXONOMY			
3 IHS-HIGH RISK FOR FLU/PNEUMONIA			X
REMINDER TERM			
4 IHS-INFLUENZA			X
REMINDER DEFINITION			
5 IHS-INFLUENZA IMMUNIZATION			X

+ Next Screen   - Prev Screen   ?? More Actions

IA   Install all Components                      IS   Install Selected Component

Select Action: Quit//



## 10.0 Contact Information

If you have any questions or comments regarding this distribution, please contact the OIT Help Desk by:

**Phone:** (505) 248-4371 or  
(888) 830-7280

**Fax:** (505) 248-4199

**Web:** <http://www.rpms.ihs.gov/TechSupp.asp>

**Email:** [ITSCHelp@mail.ihs.gov](mailto:ITSCHelp@mail.ihs.gov)