RESOURCES AND PATIENT MANAGEMENT SYSTEM

Clinical Reminders
(PXRM)

Patch 1002 National Reminder Setup

Version 1
July 2005

Office of Information Technology
Albuquerque, New Mexico
## DOCUMENT REVISION HISTORY

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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 – PXRM MANAGERS MENU

All setup is done from this menu.

<table>
<thead>
<tr>
<th>Reminder Managers Menu</th>
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<tbody>
<tr>
<td>CF</td>
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<tr>
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<tr>
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<td>TXM</td>
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<td>RX</td>
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<tr>
<td>RT</td>
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<tr>
<td>OS</td>
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<tr>
<td>INFO</td>
</tr>
<tr>
<td>DM</td>
</tr>
<tr>
<td>CP</td>
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<tr>
<td>MST</td>
</tr>
<tr>
<td>**&gt; Out of order: NOT USED BY IHS</td>
</tr>
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</table>
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)

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.

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

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:
2.1.2 Copy Reminder Definition (RC)

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:
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 18 years
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 TaxonomyDefinitions
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:

<table>
<thead>
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<th>NUMBER: 48</th>
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<tbody>
<tr>
<td>IHS-DIABETES DX</td>
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</table>

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

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<tr>
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<th>ICD Diagnosis</th>
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<tbody>
<tr>
<td>250.00</td>
<td>DM UNCOMPL/T-II/NIDDM,NS UNCON</td>
</tr>
<tr>
<td>250.01</td>
<td>DM UNCOMPL/T-I/IDDM,NS UNCONT</td>
</tr>
<tr>
<td>250.02</td>
<td>DM UNCOMPL/T-II/NIDDM,UNCONTR</td>
</tr>
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<td>250.03</td>
<td>DM UNCOMP T-I/IDDM,UNCONTR</td>
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<tr>
<td>250.10</td>
<td>DM KETOACI/T-II/NIDDM,NS UNCON</td>
</tr>
<tr>
<td>250.11</td>
<td>DM KETOACID/T-I/IDDM,NS UNCONT</td>
</tr>
<tr>
<td>250.12</td>
<td>DM KETOACID/T-II/NIDDM,UNCONTR</td>
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</table>
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:
### 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).

---

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

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

**CPT Range of Coded Values**
- Select CPT LOW CODED VALUE: Q0091/
- Answer with CPT RANGE OF CODED VALUES CPT LOW CODED VALUE
  - Choose from:
    - 88141
    - Q0091
    - 88174

---
Choose Edit Taxonomy Item (TE).

TL List Taxonomy Definitions
TI Inquire about Taxonomy Item
TE Edit Taxonomy Item
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
ICD0 HIGH CODED VALUE: 87.36
ICD0 LOW CODED VALUE: 87.37
ICD0 HIGH CODED VALUE: 87.37
Enter the start code
Enter the end code
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
CPT HIGH CODED VALUE: 76092
Range of codes

3.3.2 Taxonomies Used in Immunization Reminders
IHS-INFLUENZA IMMUNIZATION, IHS-PNEUMONIA IMMUNIZATION, IHS-PED FLU

<table>
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<th>ICD9 RANGE</th>
<th>ICD0 RANGE</th>
<th>CPT RANGE</th>
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<tr>
<td>996.80</td>
<td>996.89</td>
<td></td>
<td></td>
</tr>
<tr>
<td>V08.</td>
<td>V08.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>TL</th>
<th>List Reminder Terms</th>
</tr>
</thead>
<tbody>
<tr>
<td>TI</td>
<td>Inquire about Reminder Term</td>
</tr>
<tr>
<td>TE</td>
<td>Reminder Term Edit</td>
</tr>
<tr>
<td>TC</td>
<td>Copy Reminder Term</td>
</tr>
</tbody>
</table>

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 A1c 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:       Hibtitier 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)

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

------- Setting Clinical Reminders for Search for User: HAGER, MARY -------
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:

<table>
<thead>
<tr>
<th>Display Sequence</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>IHS-IMMUNIZATION FORECAST</td>
</tr>
<tr>
<td>8</td>
<td>IHS-PED DTAP IMMUN</td>
</tr>
<tr>
<td>9</td>
<td>IHS-PED HEPA IMMUN</td>
</tr>
<tr>
<td>10</td>
<td>IHS-PED HEPB IMMUN</td>
</tr>
<tr>
<td>11</td>
<td>IHS-PED HIBTITER IMMUN</td>
</tr>
<tr>
<td>12</td>
<td>IHS-PED MMR IMMUN</td>
</tr>
<tr>
<td>13</td>
<td>IHS-PED PNEUMOVAX IMMUN</td>
</tr>
<tr>
<td>14</td>
<td>IHS-PED POLIO IMMUN</td>
</tr>
<tr>
<td>15</td>
<td>IHS-PED TD IMMUNIUN</td>
</tr>
<tr>
<td>16</td>
<td>IHS-PED VARICELLA IMMUN</td>
</tr>
<tr>
<td>17</td>
<td>IHS-INFLUENZA IMMUN</td>
</tr>
<tr>
<td>18</td>
<td>IHS-PNEUMOVAX IMMUN</td>
</tr>
<tr>
<td>19</td>
<td>IHS-TD IMMUNIUN</td>
</tr>
<tr>
<td>30</td>
<td>IHS-HEP A ADULT</td>
</tr>
<tr>
<td>31</td>
<td>IHS-HEP B ADULT</td>
</tr>
</tbody>
</table>
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).

Select the patient. Then select the Reminder to test.

The data stream that returns is not pretty but the data is valuable.
• 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 \(^{\text{TMP(PXRMID,$J)}}\) array are:

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

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

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

![Reminder Inquiry: Hep B adult IMM](image)
8.2.5 Look at the Reminder Icons

![Icon Legend Table]

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.
**Clinical Reminders (PXRM)**

---

**Patch 1002 National Reminder Setup**

**Reminders Due**

**July 2005**
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.
Load a Distribution
Verify Checksums in Transport Global
Print Transport Global
Compare Transport Global to Current System
Backup a Transport Global
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:  PXRM*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):
PXRM*1.5*1002
Checking Install for Package PXRM*1.5*1002
Will first run the Environment Check Routine, BPXRMP2I

Install Questions for PXRM*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 PXRM*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,"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)=

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

<table>
<thead>
<tr>
<th>Entry</th>
<th>Source</th>
<th>Date Parsed</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHE-HEP A ADULT</td>
<td>HAGERSTUEA CITY MO</td>
<td>06/11/2005 17:48:59</td>
</tr>
<tr>
<td>IHE-HEP B ADULT</td>
<td>HAGERSTUEA CITY MO</td>
<td>06/11/2005 17:49:20</td>
</tr>
<tr>
<td>IHE-IMMUNIZATION FORECAST</td>
<td>HAGERSTUEA CITY MO</td>
<td>06/11/2005 17:49:37</td>
</tr>
<tr>
<td>IHE-INFLUENZA IMMUNIZATION</td>
<td>HAGERSTUEA CITY MO</td>
<td>06/11/2005 17:49:37</td>
</tr>
<tr>
<td>IHE-LIPOID FEMALE</td>
<td>HAGERSTUEA CITY MO</td>
<td>06/11/2005 17:58:30</td>
</tr>
<tr>
<td>IHE-LIPOID MALE</td>
<td>HAGERSTUEA CITY MO</td>
<td>06/11/2005 17:58:46</td>
</tr>
<tr>
<td>IHE-MAMMOGRAM</td>
<td>HAGERSTUEA CITY MO</td>
<td>06/10/2005 16:37:60</td>
</tr>
<tr>
<td>IHE-PAP SMEAR</td>
<td>HAGERSTUEA CITY MO</td>
<td>06/10/2005 16:38:17</td>
</tr>
<tr>
<td>IHE-PED DTAP IMMUN</td>
<td>HAGERSTUEA CITY MO</td>
<td>06/11/2005 17:50:19</td>
</tr>
<tr>
<td>IHE-PED HEP A IMMUN</td>
<td>HAGERSTUEA CITY MO</td>
<td>06/11/2005 17:50:35</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Entry</th>
<th>Category</th>
<th>Exists</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMMUNIZATION</td>
<td>INFLUENZA, NOS</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>REMINDER COMPUTED FINDINGS</td>
<td>IHE-FLU</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>REMINDER TAXONOMY</td>
<td>IHE-HIGH RISK FOR FLU/PNEUMONIA</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>REMINDER TERM</td>
<td>IHE-INFLUENZA</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>REMINDER DEFINITION</td>
<td>IHE-INFLUENZA IMMUNIZATION</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>
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 |
   | TE | Edit Taxonomy Item |
   | 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
   BRIEF DESCRIPTION: Flu/pneumonia risk codes
   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 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
2. Choose IFE to install the reminder manually.

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 BPXRMIM1 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
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