



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Clinical Reminders

(PXRМ)

Addendum to Installation Guide

Version 2.0 Patch 1014
October 2024

Office of Information Technology
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Preface

This documentation applies to those reminders distributed in v2.0, p1014 of Clinical Reminders.

1.0 Introduction

This guide was designed to supplement the patch installation notes and provide guidance in setting up the Clinical Reminders contained in the PXRМ v2.0 p1014. We strongly recommend reviewing this entire document before installing and setting up Clinical Reminders p1014.

This guide is intended to be used by the following individuals who are responsible for installing, supporting, maintaining, and testing this package:

- Information Resources Management (IRM)
- Clinical Application Coordinator (CAC)

1.1 Clinical Reminders Resources

This guide is intended to be used by individuals who have previous experience with Clinical Reminders. Additional and more comprehensive information related to Clinical Reminders can be found in the following locations:

1.1.1 Reminder User Manual

A comprehensive guide to the Clinical Reminders application can be downloaded here:

<https://www.ihs.gov/rpms/packagedocs/PXRМ/pxrm020u.pdf>

Additional addendums and guides can be found here under VA Clinical Reminders:

<https://www.ihs.gov/rpms/applications/clinical/>

1.1.2 Reminder Course Materials – Recorded Training Repository

Search under Application—choose VA Clinical Reminders.

<https://www.ihs.gov/rpms/training/recording-and-material-library>

1.1.3 Clinical Reminders Office Hours

Office hours are announced periodically on the EHR and Reminders Listservs.

1.1.4 Clinical Reminders Listserv

Send a question to the EHR Reminders Listserv.

https://www.ihs.gov/listserv/topics/signup/?list_id=159

2.0 What's New

This section provides an overview of what is being delivered in the Clinical Reminders p1014.

2.1 New Reminders

This patch contains:

- One reminder definition without a reminder dialog:
 - IHS-Implantable Device (GYN) Removal

3.0 Installation Checklist

Review the patch notes and this guide. The following steps should be performed by the appropriate IRM or CAC staff in the order that it is presented.

1. Install the KIDS build by appropriate IRM personnel (See Section 5.0).
2. Install the reminders in Reminder Exchange that will be used at the facility (See Section 6.0).
3. Configure the Electronic Health Record to display the reminders.
 - Sites may choose to activate the reminders just for specific individuals during a testing phase. If needed, add the REMINDER COMPONENTS to the health summary so they can be seen and printed on the Reports tab (See Section 7.0).
4. Review the installed reminders and dialogs (See Appendix A).

4.0 Review National Reminder Definitions

The following provides information about all the National Reminder Definitions.

4.1 IHS-Implantable Device (GYN) Removal

Reminder will identify patients who have an active entry in the Implantable Device List component with a category of Contraceptive/GYN, which has an Effective Until Date documented that is within 90 days from the reminder evaluation date.

- **Applicable To:**
 - Patient has an active Contraceptive/Gyn Implantable Device entered via the Implantable Device component in EHR.
 - Has an Effective Until Date within 90 days from the reminder evaluation date.

Note: Patient is removed from cohort if the Implantable Device is either inactive or an active device without an Effective Until Date documented.

- **Reminder Due:** If patient has an active Contraceptive/GYN device, and the Effective Until Date of this implant is within 90 days from today's date.
- **Frequency:** Daily.
- **Resolution:** Reminder resolved by entering an inactivation status for that device via the Implantable Device List component in EHR.
- **Bibliographic Citation:** Healthy People 2030-Family Planning
 - Developer: IHS Office of Information Technology.
 - Funding Source: Indian Health Service.
 - Release: 2024.

5.0 Install the KIDS Build

Installation of PXRM p1014 should be done by the appropriate IRM personnel using the instructions in the patch notes.

Installation of p1014 will put the reminders into the REMINDER EXCHANGE file. It does *not* install them. The new reminders will not work until they are installed and activated.

6.0 Install the Reminder

Follow these instructions to install the national reminders. The Clinical Application Coordinator (CAC) or other designated person should then install them using REMINDER EXCHANGE.

6.1 Programmer Access

Programmer access is required to install the reminders that contain a new, computed finding. If you do not have programmer access (@ level FileMan access) you will see the following messages (Figure 6-1) when you are installing reminders that contain a new computed finding:

```
Only programmers can install routines
Only programmers can install Reminder Computed Findings
```

Figure 6-1: Reminder Installation messages screen

If there are no new computed findings packed in the reminder, then ignore the message and continue through the installation process. If the computed finding was previously installed, there will be an **X** under the **Exists** column on the right of the **Reminder Computed Finding** in the **Reminder Exchange** (Figure 6-2).

Component	Category	Exists
HUNGER VITAL SIGN (HVS) QUESTION 1		X
HVS QUESTION 1-SOMETIMES TRUE		X
HVS QUESTION 1-OFTEN TRUE		X
HVS QUESTION 1-NEVER TRUE		X
HVS QUESTION 1-DON'T KNOW OR REFUSED		X
REMINDER COMPUTED FINDINGS		
VA-IS INPATIENT		X
REMINDER TERM		
8 IHS-SDOH UTILITIES		X
9 IHS-SDOH TRANSPORTION		X
10 IHS-SDOH INTERPERSONAL SAFETY		X
11 IHS-SDOH HOUSING		X
12 IHS-SDOH FOOD		X

Exchange File Components Jun 25, 2024 18:33:45 Page: 5 of 7

+ Next Screen - Prev Screen ?? More Actions >>>

IA Install all Components IS Install Selected Component

Select Action: Next Screen//

Figure 6-2: Reminder Components in Exchange screen

If there are new computed findings and the CAC does not have @ access, follow these steps to complete the installation:

1. Ask the site manager or other personnel who has Programmer Access to log in under their credentials,
2. Navigate to the **Reminder Exchange** and use **Install Selected (IS)**.
3. Install the new **Computed Findings** following the instructions in the next section.

Important: NEVER OVERWRITE A ROUTINE!

After the Computed Findings are installed, the CAC may then install the new reminders.

6.2 Installing the Reminder

1. Select **Reminder Exchange** from the **Reminder Configuration** menu. You will be presented with a list (Figure 6-3) of packed reminders that reside in the RPMS file system.

Item	Entry	Source	Date Packed
1	IHS-ADULT COVID IMMUNIZATION ORDERS 2024	RAPOPORT@2017 DEMO CL	05/23/2024@09:29
2	IHS-IMPLANTABLE DEVICE (GYN) EXP	RAPOPORT@2017 DEMO CL	06/21/2024@11:03
3	IHS-IMPLANTED DEVICE (GYN) ACTIVE	RAPOPORT@2017 DEMO CL	05/23/2024@09:26
4	IHS-IMPLANTED DEVICE (GYN) EFFECTIVE DATE	RAPOPORT@2017 DEMO CL	05/23/2024@09:27
5	IHS-IMPLANTED DEVICE (GYN) INACTIVE	RAPOPORT@2017 DEMO CL	05/23/2024@09:27

+	+ Next Screen	- Prev Screen	?? More Actions	>>>
CFE	Create Exchange File Entry	LHF	Load Host File	
CHF	Create Host File	LMM	Load MailMan Message	
CMM	Create MailMan Message	LR	List Reminder Definitions	
DFE	Delete Exchange File Entry	LWH	Load Web Host File	
IFE	Install Exchange File Entry	RI	Reminder Definition Inquiry	
IH	Installation History			

Select Action: Next Screen// █

Figure 6-3: List of Reminders in Reminder Exchange

Tip: Use the **Up** and **Down** arrows to scroll through the list. If you are searching for a specific reminder, use the command **SL** (Figure 6-4) to search for the reminder name.

Select Action: Next Screen// SL
 Search for: //SDOH

Figure 6-4: Further Instructions

2. Select **IFE–Install Exchange File Entry** to install the reminder.
3. Enter the **number** of the reminder (Figure 6-5) to install.

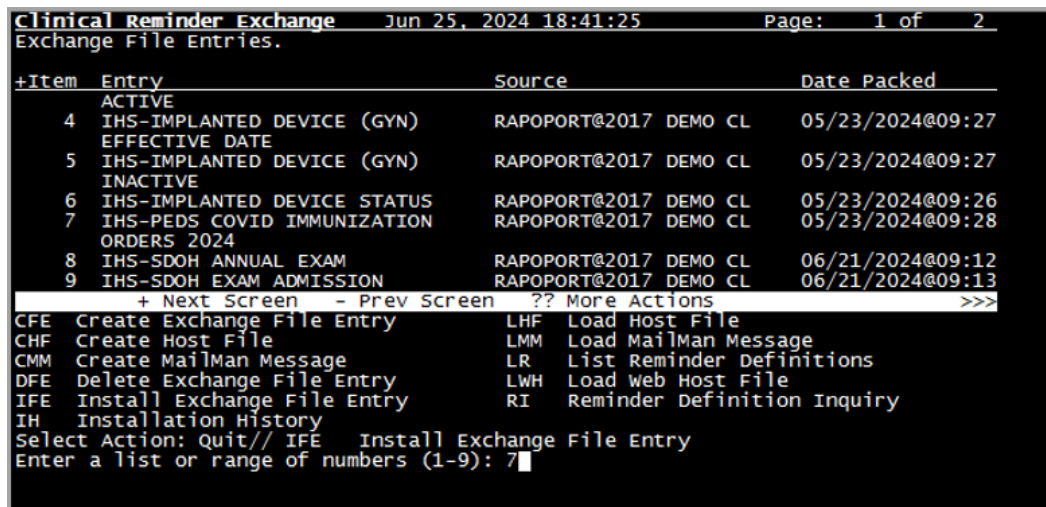


Figure 6-5: Installing Reminders dialog

- Use the **Up** and **Down** arrows to view the individual components of the reminder.

Before starting an installation, you should examine the list of components in the packed reminder (Figure 6-6) and determine which ones already exist on your system. You should decide what to do with each component and have a plan of action.

REMINDER TAXONOMY			
26	CPT IMM COVID19 90480 (FOR ALL VAC)		X
27	CPT IMM COVID19 5MCG/0.5ML (12YRS-OLDER)		X
28	CPT IMM COVID19 PFIZER 30MCG/0.3ML (12YR - OLDER)		X
29	CPT IMM COVID19 PFIZER (5YRS - 11YRS)		X
30	CPT IMM COVID19 PFIZER (6MON - 4YRS)		X
31	CPT IMM COVID19 MODERNA (12YRS - OLDER)		X
32	CPT IMM COVID19 MODERNA (6MON - 11YRS)		X
REMINDER DIALOG			
33	IHS-PEDS COVID IMMUNIZATION ORDERS 2024		X
TIU DOCUMENT DEFINITION			
	LAST # COVID IMMUNIZATION		X
	ALLERGIES/ADR	X	
	PATIENT SEX	X	
	PATIENT AGE	X	
	PATIENT HRCN-NO DASHES		X
	PATIENT DATE OF BIRTH		X
	VISIT DATE	X	
	PATIENT NAME		X

Figure 6-6: List of Components in Reminder

- Proceeding with the installation (Figure 6-7).

```

Exchange File Components      Jun 27, 2024 14:14:54      Page: 7 of 8
+ Component                      Category      Exists
tris-sucrose
COVID-19 vaccine, mRNA, spike prot, LNP,
bivalent, PF, 3 mcg/0.2mL dose, tris-sucr , ages
6mo-4yrs
COVID-19, mRNA, LNP-S, PF, 3 mcg/0.2 mL dose,
tris-sucrose
REMINDER TAXONOMY
26 CPT IMM COVID19 90480 (FOR ALL VAC)
27 CPT IMM COVID19 5MCG/0.5ML (12YRS-OLDER)
28 CPT IMM COVID19 PFIZER 30MCG/0.3ML (12YR - OLDER)
29 CPT IMM COVID19 PFIZER (5YRS - 11YRS)
30 CPT IMM COVID19 PFIZER (6MON - 4YRS)
31 CPT IMM COVID19 MODERNA (12YRS - OLDER)
32 CPT IMM COVID19 MODERNA (6MON - 11YRS)
+ + Next Screen - Prev Screen ?? More Actions >>>
IA Install all Components IS Install Selected Component
Select Action: Next Screen//

```

Figure 6-7: Exchange File Components screen

- Install computed Finding Only (Figure 6-8). There are two choices, **IA** or **IS**. Choose **IS** to install selected components.

Users will notice that for each item in the reminder, a check is now made and displayed to indicate if the item in exchange matches the item in the file. Users are not asked about the elements if there is a match.

In the past asking users to make a selection even when the selection matched the element it was importing, made the installation much slower. With this updated method, installation is much quicker.

```

REMINDER COMPUTED FINDINGS entry IHS-DEPRESSION 2009 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//

```

Figure 6-8: Computed Finding Installation example

- Install Reminder and Dialog—There are two choices, **IA** or **IS**. Choose **IA** to install all components.

During installation, a routine will compare the checksum of the item on your system to the one in exchange. If they are identical, it will not update the item on your database.

If it is not identical, the application will ask you what you want to do about all the elements in this reminder. If it is new, the default is to install it.

Take all the defaults as you load the reminder unless you have loaded a previous version of reminders. If you have loaded a previous version of the reminders, always re-install the reminder definition itself but not any of the other elements.

Caution: Never overwrite a routine!

```

Routine BPXRMPCC already EXISTS, <NEVER overwrite a routine through the
exchange!
but packed routine is different, 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// < SKIP DO NOT REINSTALL THIS ENTRY. Never overwrite the
routine!

REMINDER COMPUTED FINDINGS entry IHS-DEPRESSION 2009 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// Take the default. If this is a new component, it will
default to "install".

TIU TEMPLATE FIELD entry IHS ADDL SIGN 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// Take the default. If this is a new component, it will
default to "install".

REMINDER DEFINITION entry IHS-DEPRESSION SCREEN 2011 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// If you have loaded a previous version of the reminders before, install/overwrite the reminder definition. If this is the first time you have loaded this reminder, accept the default of I to install.

Figure 6-9: Reminder Installation example

7.0 EHR Reminder Configuration

This section describes how to configure the Electronic Health Record to display the reminders. Sites can choose to activate the reminders just for specific users during a testing phase. If needed, add the **REMINDER COMPONENTS** to the health summary so they can be seen and printed on the **Reports** tab.

This section describes how to remove the old reminders from the EHR and add the new ones. If your site does not use the reminder, then do not add the reminder to EHR because it will always show up as due.

Follow these steps to remove the old reminders from the display:

1. From **EHR**, click the **reminder clock** (🕒).
2. Select **Action > Edit Cover Sheet Reminder List** (Figure 7-1). Reminders can be edited for the **System, Division, Service, Location, User Class, or User**.

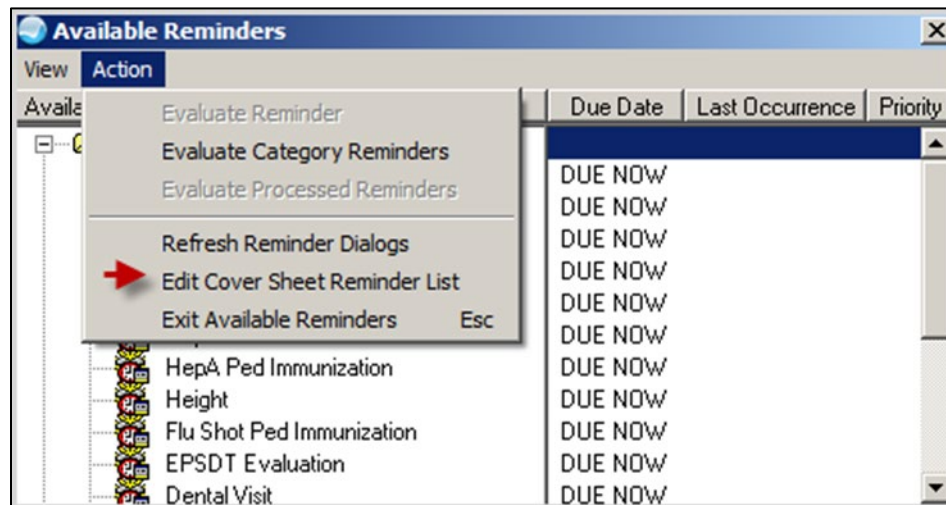


Figure 7-1: Reminder Configuration dialog

Note: Sites can choose to activate the reminders for specific users during a testing phase.

3. Remove old reminders from the **System Level** once they are ready to deploy the new reminders across the facility. Double-click the old reminders listed in the bottom-right pane to remove it from the cover sheet list.
4. Select the reminder(s) from the **Available Reminders & Categories** column.
5. Double-click to add them to the **System Level Reminders** column.

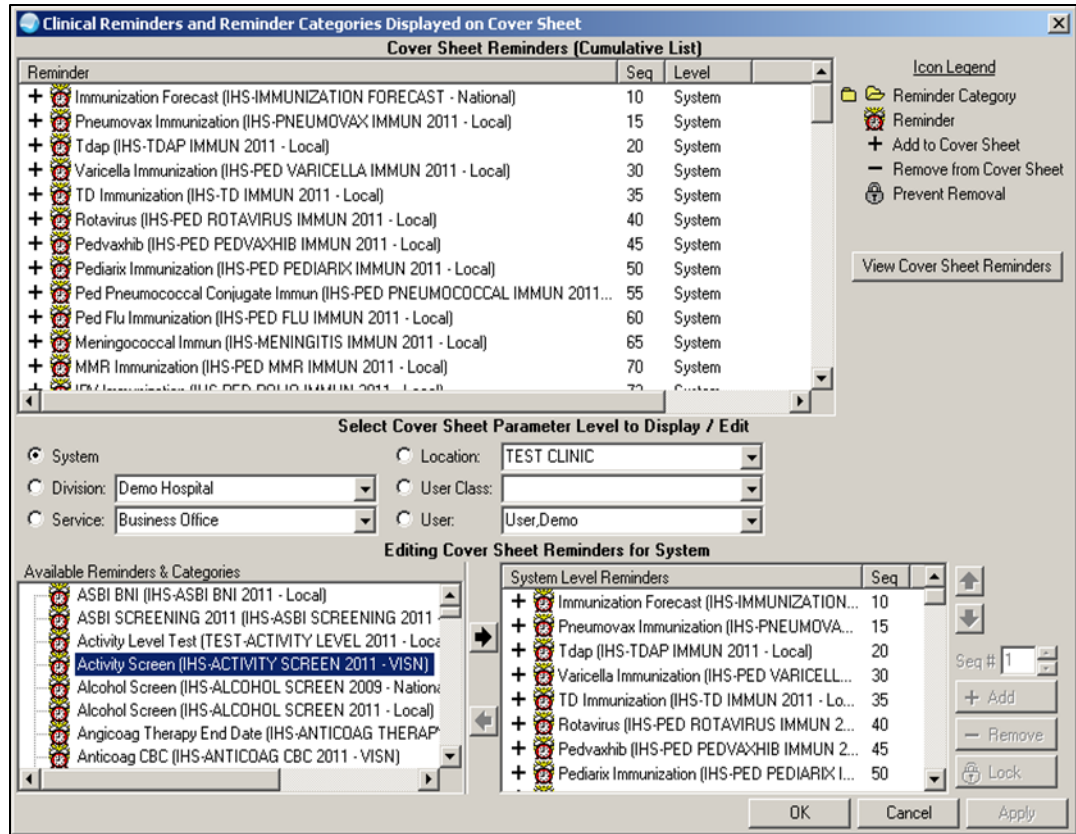


Figure 7-2: Clinical Reminders and Reminder Categories Displayed on Cover Sheet window

8.0 Reviewing the Reminder

This section describes how to review the reminder.

8.1 Reminder Test

Refer to *RPMS Clinical Reminders Managers Manual Setup and Maintenance Guide* for instructions on testing reminders.

1. Select **Reminder Test (TST)** from the Reminder Configuration menu.
2. Enter a **patient name** and the **reminder**.
3. Use the **scroll bar** to scroll backwards and view the data.

This is an example (Figure 8-1) of a reminder test for the **IHS-IMPLANTABLE DEVICE (GYN) Removal** reminder.

```
Select Reminder Managers Menu <TEST ACCOUNT> Option:  Reminder Test
Select Patient:
  DEMO,PATIENT ACFIVE                <WA>    F 09-13-2003 XXX-XX-3765    DB 11156

Enter date for reminder evaluation: Jul 22, 2024//    (JUL 22, 2024)

Display step-by-step function finding evaluation? N// YES
Browse or Print? P// rint
DEVICE: HOME// ;;999999  TELNET

Reminder: IHS-IMPLANTABLE DEVICE(GYN) EXP
Patient: DEMO,ADULT ALPHA
The elements of the FIEVAL array are:
FIEVAL(1)=0
FIEVAL(1,"BDT")=
FIEVAL(1,"BDTE")=0
FIEVAL(1,"EDT")=
FIEVAL(1,"EDTE")=3240722.235959
FIEVAL(1,"FINDING")=121;PXRMD(811.4,
FIEVAL(2)=1
FIEVAL(2,1)=1
FIEVAL(2,1,"CSUB","DATE")=3240722.162931
FIEVAL(2,1,"CSUB","EFF UNTIL")=3240501
FIEVAL(2,1,"DATE")=3240722.162931
FIEVAL(2,1,"EFF UNTIL")=3240501
FIEVAL(2,1,"TEXT")=THE DEVICE IS EFFECTIVE UNTIL May 01,2024
FIEVAL(2,"BDT")=
FIEVAL(2,"BDTE")=0
FIEVAL(2,"CSUB","DATE")=3240722.162931
FIEVAL(2,"CSUB","EFF UNTIL")=3240501
FIEVAL(2,"DATE")=3240722.162931
FIEVAL(2,"EDT")=
FIEVAL(2,"EDTE")=3240722.235959
FIEVAL(2,"EFF UNTIL")=3240501
FIEVAL(2,"FILE NUMBER")=811.4
FIEVAL(2,"FINDING")=130;PXRMD(811.4,
FIEVAL(2,"TEXT")=THE DEVICE IS EFFECTIVE UNTIL May 01,2024
FIEVAL(3)=1
```

```

FIEVAL(3,1)=1
FIEVAL(3,1,"CHANGED BY")=USER, DEMO
FIEVAL(3,1,"CHANGED ON")=3240718
FIEVAL(3,1,"CSUB","CHANGED BY")=USER, DEMO
FIEVAL(3,1,"CSUB","CHANGED ON")=3240718
FIEVAL(3,1,"CSUB","DATE")=3240722.162931
FIEVAL(3,1,"CSUB","REASON")=EXPIRED/NONFUNCTIONAL
FIEVAL(3,1,"DATE")=3240722.162931
FIEVAL(3,1,"REASON")=EXPIRED/NONFUNCTIONAL
FIEVAL(3,1,"TEXT")=THE DEVICE BECAME INACTIVE ON Jul 18,2024
FIEVAL(3,"BDT")=
FIEVAL(3,"BDTE")=0
FIEVAL(3,"CHANGED BY")=USER, DEMO
FIEVAL(3,"CHANGED ON")=3240718
FIEVAL(3,"CSUB","CHANGED BY")=USER, DEMO
FIEVAL(3,"CSUB","CHANGED ON")=3240718
FIEVAL(3,"CSUB","DATE")=3240722.162931
FIEVAL(3,"CSUB","REASON")=EXPIRED/NONFUNCTIONAL
FIEVAL(3,"DATE")=3240722.162931
FIEVAL(3,"EDT")=
FIEVAL(3,"EDTE")=3240722.235959
FIEVAL(3,"FILE NUMBER")=811.4
FIEVAL(3,"FINDING")=129;PXRMD(811.4,
FIEVAL(3,"REASON")=EXPIRED/NONFUNCTIONAL
FIEVAL(3,"TEXT")=THE DEVICE BECAME INACTIVE ON Jul 18,2024
FIEVAL("AGE")=1
FIEVAL("AGE",1)=1
FIEVAL("DFN")=11096
FIEVAL("EVAL DATE/TIME")=3240722.162931
FIEVAL("FF1")=0
FIEVAL("FF1","DETAIL")=0^DTIME_DIFF(1,1,"DATE",2,1,"EFF
UNTIL","D","A")<90^66961<90
FIEVAL("FF1","FINDING")=12;PXRMD(802.4,
FIEVAL("FF1","NUMBER")=1
FIEVAL("PATIENT AGE")=44
FIEVAL("SEX")=1

```

Step-by-step function finding evaluation:

```

Function finding FF1=0
DTIME_DIFF(1,1,"DATE",2,1,"EFF UNTIL","D","A")<90
= 66961<90
Step Result
1. 66961<90=0

```

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

```

^TMP(PXRМID,$J,178,"N/A","COHORT")=
^TMP(PXRМID,$J,178,"PATIENT COHORT LOGIC")=0^(SEX)&(AGE)&FI(1)&FI(2)&FF(1)^(1)&(
1)&0&1&0
^TMP(PXRМID,$J,178,"REMINDER NAME")=Implantable Device (GYN) Removal
^TMP(PXRМID,$J,178,"RESOLUTION LOGIC")=1^(0)!FI(3)^(0)!1
^TMP(PXRМID,$J,178,"zFREQARNG")=1D^^^Baseline

```

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

```

^TMP("PXRHM",$J,178,"Implantable Device (GYN) Removal")=N/A^^3240722.162931
^TMP("PXRHM",$J,178,"Implantable Device (GYN) Removal","TXT",1)=Frequency: Due e
very 1 day for all ages.
^TMP("PXRHM",$J,178,"Implantable Device (GYN) Removal","TXT",2)=
^TMP("PXRHM",$J,178,"Implantable Device (GYN) Removal","TXT",3)=Cohort:

```

```

^TMP("PXRHM",$J,178,"Implantable Device (GYN) Removal","TXT",4)= Computed Findin
g: IHS-IMPLANTED DEVICE (GYN) EFFECTIVE DATE
^TMP("PXRHM",$J,178,"Implantable Device (GYN) Removal","TXT",5)= 07/22/2024@16:
29:31; THE DEVICE IS EFFECTIVE UNTIL May 01,2024
^TMP("PXRHM",$J,178,"Implantable Device (GYN) Removal","TXT",6)=
^TMP("PXRHM",$J,178,"Implantable Device (GYN) Removal","TXT",7)=
^TMP("PXRHM",$J,178,"Implantable Device (GYN) Removal","TXT",8)= FF(1)=0
^TMP("PXRHM",$J,178,"Implantable Device (GYN) Removal","TXT",9)=
^TMP("PXRHM",$J,178,"Implantable Device (GYN) Removal","TXT",10)=Resolution: Las
t done - 07/22/2024@16:29:31
^TMP("PXRHM",$J,178,"Implantable Device (GYN) Removal","TXT",11)= Computed Findi
ng: IHS-IMPLANTED DEVICE (GYN) INACTIVE
^TMP("PXRHM",$J,178,"Implantable Device (GYN) Removal","TXT",12)= 07/22/2024@16
:29:31; THE DEVICE BECAME INACTIVE ON Jul 18,2024
^TMP("PXRHM",$J,178,"Implantable Device (GYN) Removal","TXT",13)=

Maintenance Output:

                                --STATUS-- --DUE DATE--  --LAST DONE--
Implantable Device (GYN) Removal      N/A                07/22/2024
Frequency: Due every 1 day for all ages.

Cohort:
Computed Finding: IHS-IMPLANTED DEVICE (GYN) EFFECTIVE DATE
  07/22/2024@16:29:31; THE DEVICE IS EFFECTIVE UNTIL May 01,2024

  FF(1)=0

Resolution: Last done - 07/22/2024@16:29:31
Computed Finding: IHS-IMPLANTED DEVICE (GYN) INACTIVE
  07/22/2024@16:29:31; THE DEVICE BECAME INACTIVE ON Jul 18,2024
Browse

```

Figure 8-1: Reminder Test Output screen

8.2 View Reminders Due

Users will generally report when a reminder is due and should not be. However, they are less likely to notice and report when a reminder is not due, but it should be, or not applicable when it should be.

The CAC must test for this specifically or risk deploying a reminder system that will omit patients erroneously. Doing so results in missed opportunities to screen, monitor, and identify interventions for high-risk patients.

Do the following:

1. Log on to the **RPMS-EHR** application.

Note: If you have installed any new reminders/dialogs, you must log off, and then log back on again.

2. Pick a **patient** who would have one of the reminders applicable and due.
 - The reminder alarm clock should be **RED** for someone with a reminder due.
 - If you click the alarm clock, you should see a list of reminders due.
 - Right-click the reminder due and review any of the options in the drop-down menu.
3. Pick a **patient** who would have one of the reminders applicable, but not due.
 - The reminder alarm clock should be **BLUE** for someone with a reminder resolved.
4. Pick a **patient** who would not have one of the reminders applicable.
 - The reminder clock should be **WHITE** for someone with a reminder that is not applicable to them.
 - Be sure to check all the reminders before adding them to the system level.

8.3 View Reminders on Cover Sheet

The following shows Reminders that are **Due Now** or **Due Soon** on Cover Sheet (Figure 8-2).

Reminders	
Reminder ▲	Date
P-HgbA1c	DUE NOW
Tetanus Shot	DUE NOW

Figure 8-2: Reminders on Cover Sheet

8.4 View Reminders Icon

The reminder icon is an alarm clock (Figure 8-3).



Figure 8-3: Reminder Icon

The clock appears **RED** if reminders are due, and **BLUE** if there is nothing due. Clicking the clock displays when reminders are due, and when it was last done.

1. Click the **Reminder** icon in the toolbar (Figure 8-4) to open up the list of items to view.

Available Reminders	Due Date	Last Occurrence	Priority
Due			
Height	08/20/2009	08/20/2008	
HepA Ped Immunization	DUE NOW		
IPV Immunization	DUE NOW		
Lipid Profile Female	DUE NOW		
MMR Immunization	DUE NOW	08/20/2008	
Weight	02/19/2009	08/20/2008	
TD Immunization	DUE NOW		
Varicella Immunization	DUE NOW		
Asthma Management Plan	DUE NOW		
Asthma Primary Provider	DUE NOW		
Asthma Severity	DUE NOW		
Asthma-on steroids	DUE NOW		
Asthma Control	DUE NOW		
DM Dental Exam	DUE NOW		
EPSDT Evaluation	DUE NOW		
Dental Visit	DUE NOW		
Applicable			
Not Applicable			
All Evaluated			
Other Categories			

Figure 8-4: Available Reminders example

2. Right-click any item in the list and a selection of items from which to choose appears.

8.4.1 Clinical Maintenance

The **Clinical Maintenance** dialog shows why the reminder is due. For the new reminders with computed findings, it will display only the item returned in the PCC reminder call.

The clinical maintenance displays in two places:

1. Right-click the **reminder** and select **Clinical Maintenance**.
2. While processing the reminder, select the **Clinical Maintenance** button from the bottom of the screen (Figure 8-5).

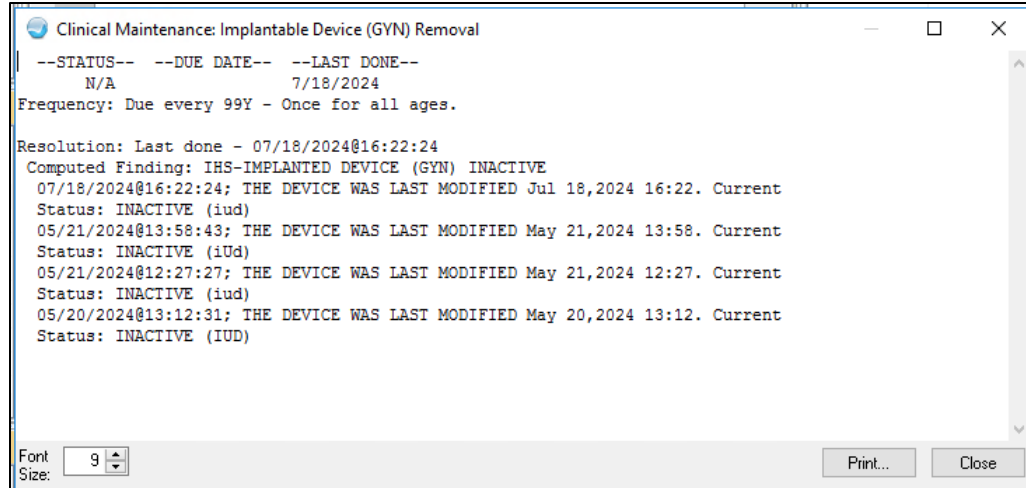
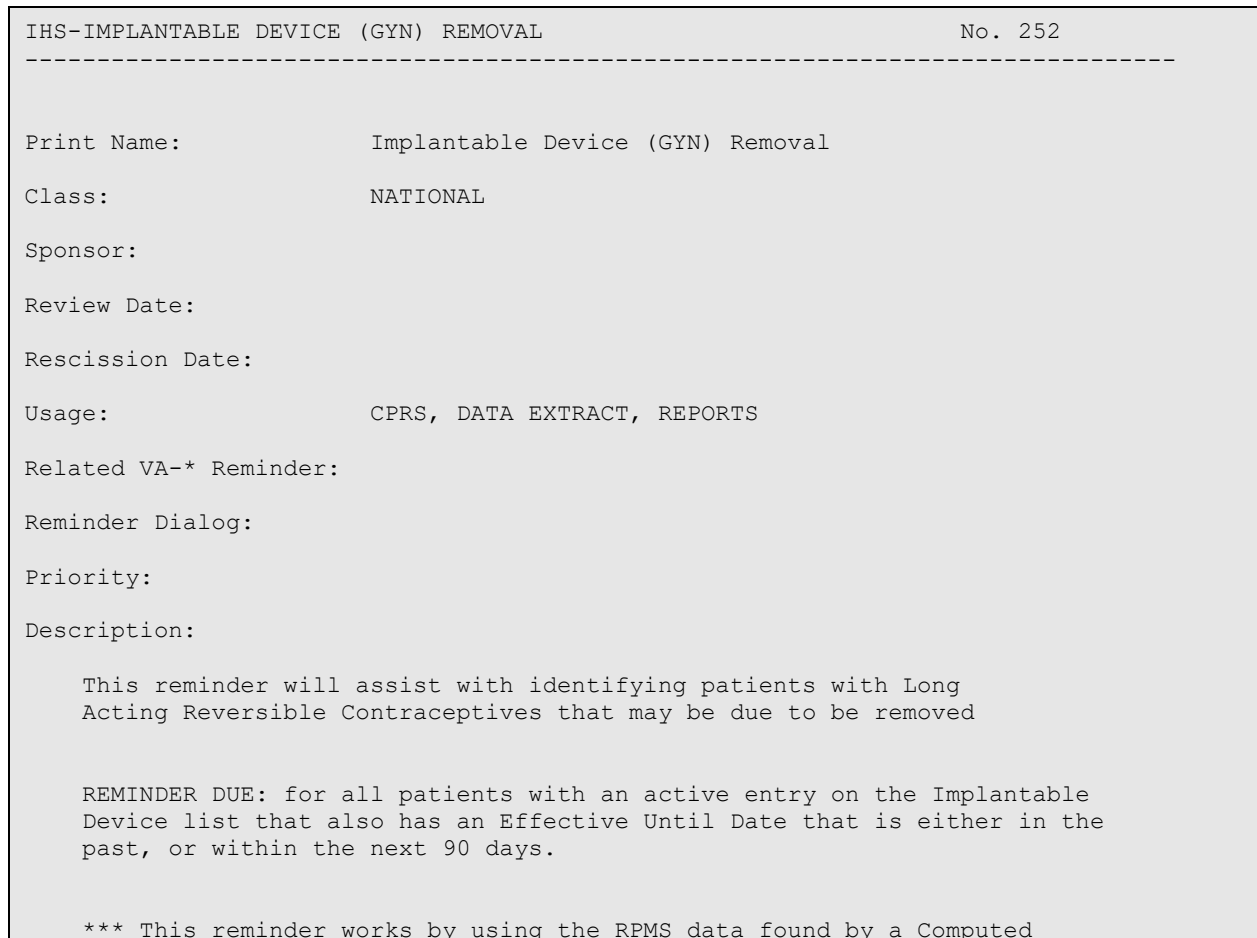


Figure 8-5: Clinical Maintenance screen

8.4.2 Do a Reminder Inquiry

A reminder inquiry displays the reminder logic. Reminder Inquiry data can be displayed by right-clicking on the reminder and selecting **Reminder Inquiry**.



Finding for data entered via the Implantable Device Component
in EHR.***

```
=====
Bibliographic citation: Healthy People 2030 - Family Planning
Developer: IHS Office of Information Technology
Funding Source: Indian Health Service
Release: 2024
Other Attributes: None reported for this decision support tool
=====
```

Technical Description:

This reminder uses a computed finding to get data from the Patient
Implanted Device file, which is populated through the use of the
Implantable Device component in EHR

Baseline Frequency:

```
Do In Advance Time Frame: Do if DUE within 90 days
Sex Specific:
Ignore on N/A:
Frequency for Age Range: 99Y - Once for all ages
Match Text:
No Match Text:
```

Findings:

```
---- Begin: IHS-IMPLANTED DEVICE (GYN) ACTIVE (FI(1)=CF(121)) -----
      Finding Type: REMINDER COMPUTED FINDING
Use in Patient Cohort Logic: AND
      Occurrence Count: 99
      Computed Finding Parameter: Contraceptive/GYN
---- End: IHS-IMPLANTED DEVICE (GYN) ACTIVE -----

---- Begin: IHS-IMPLANTED DEVICE (GYN) EFFECTIVE DATE (FI(2)=CF(130)) ----
      Finding Type: REMINDER COMPUTED FINDING
Use in Patient Cohort Logic: AND
      Occurrence Count: -99
      Computed Finding Parameter: Contraceptive/GYN
---- End: IHS-IMPLANTED DEVICE (GYN) EFFECTIVE DATE -----

---- Begin: IHS-IMPLANTED DEVICE (GYN) INACTIVE (FI(3)=CF(129)) -----
      Finding Type: REMINDER COMPUTED FINDING
Use in Resolution Logic: AND
      Occurrence Count: 99
      Computed Finding Parameter: Contraceptive/GYN
---- End: IHS-IMPLANTED DEVICE (GYN) INACTIVE -----
```

General Patient Cohort Found Text:

Patient has an active Implantable Device (GYN) entered on the EHR
Implantable Device List and it may be due for removal.

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

Expanded Patient Cohort Logic:

(SEX)&(AGE)&FI(IHS-IMPLANTED DEVICE (GYN) ACTIVE)&
FI(IHS-IMPLANTED DEVICE (GYN) EFFECTIVE DATE)

```

Default RESOLUTION LOGIC defines findings that resolve the Reminder:
FI(3)

Expanded Resolution Logic:
FI(IHS-IMPLANTED DEVICE (GYN) INACTIVE)

Custom Date Due:
RANK_DATE(2+0D)

Expanded Custom Date Due:
RANK_DATE(IHS-IMPLANTED DEVICE (GYN) EFFECTIVE DATE+0D)

Web Sites:

FI(IHS-IMPLANTED DEVICE (GYN) INACTIVE)
    
```

Figure 8-6: Reminder Inquiry of a Reminder screen

8.4.3 Look at the Reminder Icons

The following (Figure 8-7) explains the various **Reminder** icons.



Figure 8-7: Reminders Tab on Icon Legend window

8.5 View Reminders on the Health Summary

You can also view the Reminders in a Health Summary on the **Reports** tab (Figure 8-8). Users can either create a VA Health Summary type for reminders or the VA Health Summary components that already exist can be added to the Ad Hoc report.

Once created, the summary type is added using the parameter **ORWRP HEALTH SUMMARY LIST**.

If you have already added reminders to health summaries, these will need to be updated by removing the old reminders and adding in the ones that came with this patch.

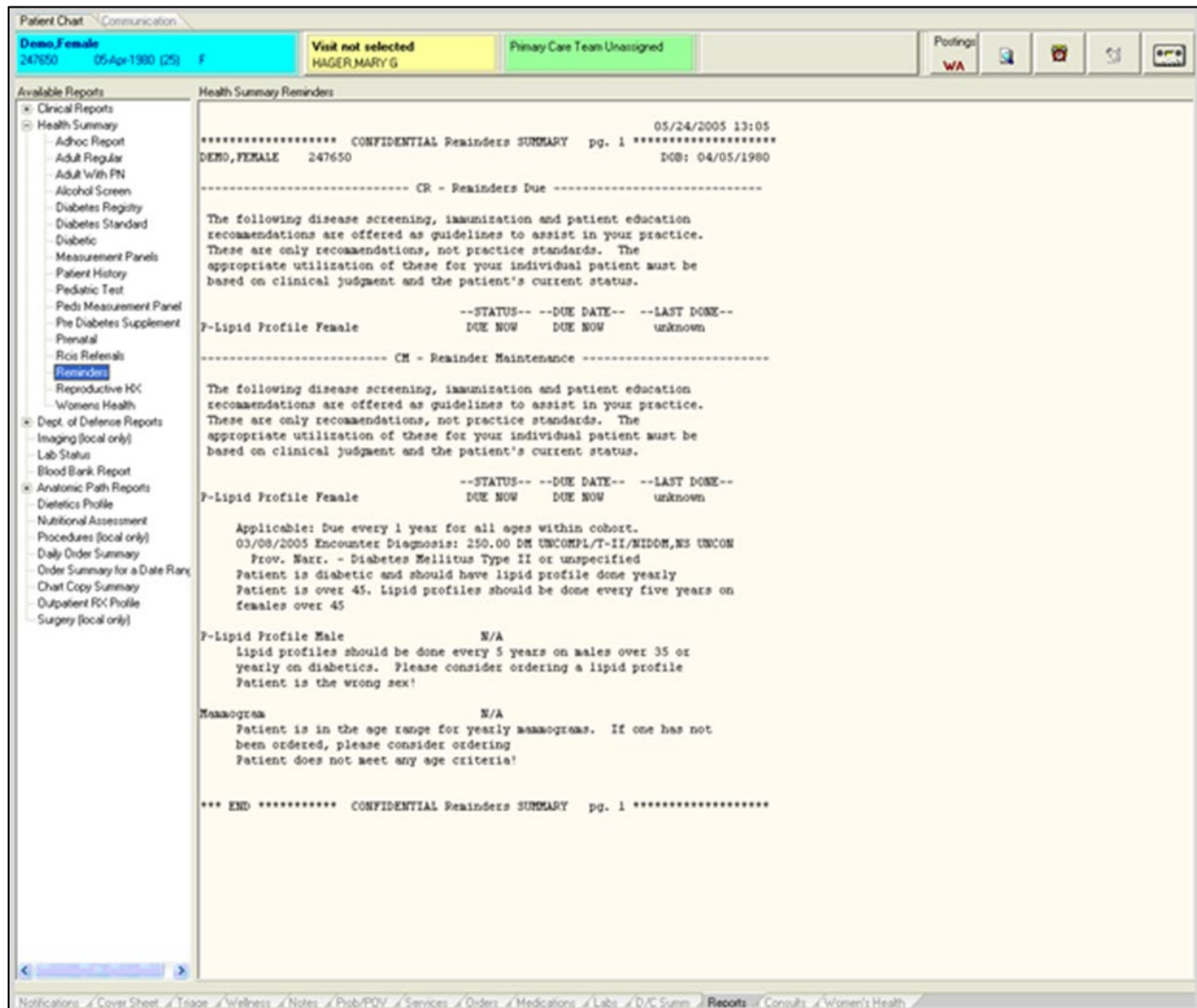


Figure 8-8: Health Summary Reminders on Report tab

Appendix A Common Install Questions/Issues

This section describes common install issues, questions, and solutions.

A.1 Programmer Access Message During Installation

Programmer access is required to install the reminders that contain a new computed finding.

If you do not have programmer access (**@ fileman access**) you will see the following messages (Figure A-1) when you are installing reminders that contain a new computed finding:

```
Only programmers can install routines.  
Only programmers can install Reminder Computed Findings.
```

Figure A-1: Messages screen

If there are no new computed findings packed in the reminder, ignore the message and continue through the installation process. If the computed finding was previously installed there will be an **X** under the **Exists** column on the right of the **Reminder Computed Finding** in the **Reminder Exchange**. Detailed instructions are available in the Programmer Access section of this guide.

Reinstall the **reminder** dialog and the error will be gone.

A.2 After Installed in Reminder Exchange Findings Say None

It can be confusing when you first look at your dialog definitions. Here is an example (Figure A-2) where the dialog definition looks like the finding items did not load correctly. In the exchange file, it looks like the finding did not load. This is because some components of dialogs do not have findings and this is expected. (Refer to Figure A-3).

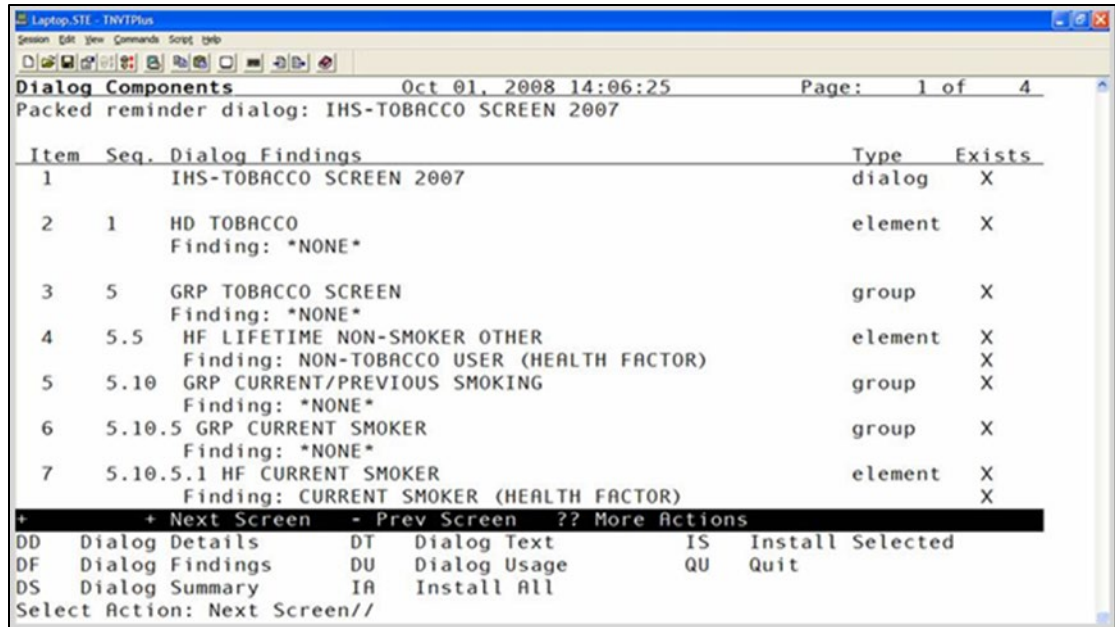


Figure A-2: List of Findings screen

In the example above (Figure A-2), you will notice that the Groups (under Type) do not have findings. This is expected. If you navigate to the Group Edit screen and look at the detail of the Group (Figure A-3), you will see that each element in the group has an appropriate finding.

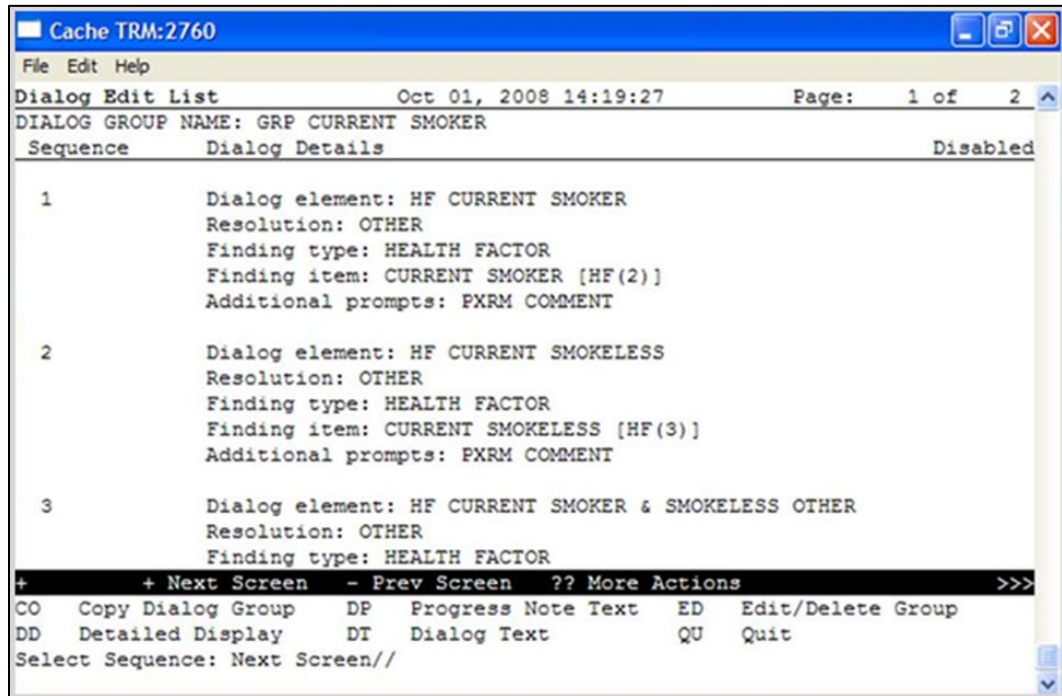


Figure A-3: Group Edit screen

A.3 Access Violation Error When Processing Dialogs

An Access Violation Error occurs if you are processing a dialog (Figure A-4) and you select the **Clinical Maintenance** button from within the dialog.

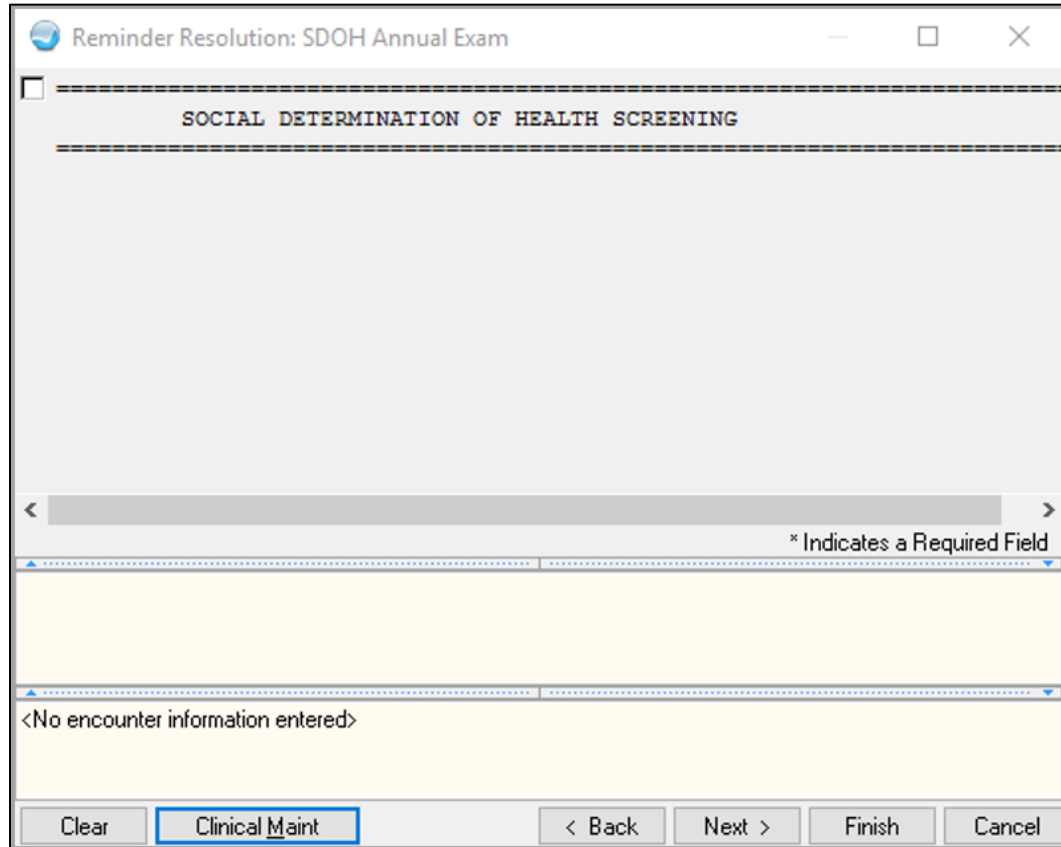


Figure A-4: Reminder dialog

When you exit/save the dialog, you will receive this error message (Figure A-5):

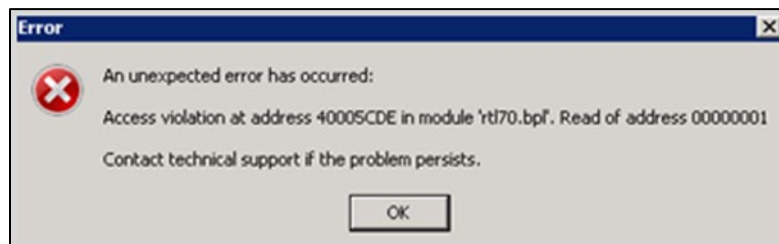


Figure A-5: Access Violation Error

This is a known issue that will be fixed in a future RPMS-EHR patch. If you receive this error, log out of RPMS-EHR and log back on again. We recommend that you do not use the **Clinical Maintenance** button when processing dialogs. Instead, right-click a reminder or reminder dialog and select **Clinical Maintenance**.

Appendix B Computed Findings

Computed Findings is a custom MUMPS routine used to find some specific patient characteristics or data piece necessary for reminder logic. They are used when none of the standard findings would work. These Computed Findings cannot be locally modified. However, some Computed Findings are design to be customizable by means of parameters. The IHS-Implantable Device (GYN) Removal was exclusively designed using Computed Findings and is not editable.

B.1 IHS-IMPLANTED DEVICE (GYN) ACTIVE

This finding returns the date and reason of active contraceptive/gyn device. The computed finding will accept an optional parameter designating the device Category. This corresponds to the CATEGORY field in the PATIENT IMPLANTED DEVICES file (which is a pointer to the CATEGORY NAME field in the IMPLANTABLE DEVICE CATEGORIES file. The optional parameter is case-sensitive. If a parameter value is NOT passed, then the Category will default to “Contraceptive/GYN”.

B.2 IHS-IMPLANTED DEVICE (GYN) EFFECTIVE DATE

This finding returns an effective until date for contraceptive/gyn device. The computed finding will accept an optional parameter designating the device Category. This corresponds to the CATEGORY field in the PATIENT IMPLANTED DEVICES file (which is a pointer to the CATEGORY NAME field in the IMPLANTABLE DEVICE CATEGORIES file. The optional parameter is case-sensitive. If a parameter value is NOT passed, then the Category will default to “Contraceptive/GYN”.

B.3 IHS-IMPLANTED DEVICE (GYN) INACTIVE

This finding returns dates and reasons for inactive contraceptive/gyn devices. It was designed to bring multiple findings. The computed finding will accept an optional parameter designating the device Category. This corresponds to the CATEGORY field in the PATIENT IMPLANTED DEVICES file (which is a pointer to the CATEGORY NAME field in the IMPLANTABLE DEVICE CATEGORIES file. The optional parameter is case-sensitive. If a parameter value is NOT passed, then the Category will default to “Contraceptive/GYN”.

Appendix C Custom Due Date

This reminder utilizes a custom due date. When a CUSTOM DATE DUE is defined, it takes precedence over the standard date due calculation. This means the normal date due calculation that is based on the dates of the resolution findings and the final frequency is not done. Only the dates of the findings and the frequencies specified in the Custom Date Due string are used. Any finding that is in the reminder definition can be used in the Custom Date Due string; it is not limited to those defined as resolution findings.

The general form for a Custom Date Due string is:

```
FUNCTION (ARG1,ARG2,...,ARGN)

FUNCTION can be one of the following:
MAX_DATE - return the maximum date from the argument list
MIN_DATE - return the minimum date from the argument list
RANK_DATE - going from left to right return the first non-zero date
             from the argument list
```

Figure C-1: Custom Date Due string

In this reminder:

```
Custom Date Due:
RANK_DATE (2+0D)

Expanded Custom Date Due:
RANK_DATE (IHS-IMPLANTED DEVICE (GYN) EFFECTIVE DATE+0D)
```

Figure C-2: Custom Date Due reminder

This function is used to identify the date in which the implanted device is actually Effective Until. This will allow users to see that date inside an iCare panel. When Custom Date is set, reminder frequency will be ignored.

Contact Information

If you have any questions or comments regarding this distribution, please contact the IHS IT Service Desk.

Phone: (888) 830-7280 (toll free)

Web: <https://www.ihs.gov/itsupport/>

Email: itsupport@ihs.gov