



Ischemic Heart Disease (IHD) Clinical Reminders

PXRM*1.5*8

INSTALLATION AND SETUP GUIDE

May 2002

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Department of Veterans Affairs
VISTA SD&D

Preface

Purpose of Installation and Setup Guide

This Installation and Setup Guide describes how to prepare for, install, and implement the IHD reminders and dialogs contained in Clinical Reminders patch PXR*1.5*8.

To get further help information, please enter a NOIS call or call the National Help Desk:

REDACTED

Recommended Users

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

Related Manuals

Clinical Reminders V. 1.5 Installation Guide (PXR*1.5*8.PDF)

Clinical Reminders V. 1.5 Manager Manual (PXR*1.5*8.MAN)

Manuals are available in Portable Document Format (PDF) at the following locations:

- Albany REDACTED REDACTED
- Hines REDACTED REDACTED
- Salt Lake City REDACTED REDACTED

Web Sites

Site	URL	Description
National SD&D Reminders site	http://vista.med.va.gov/reminders	Contains manuals, Powerpoint presentations, and other information about Clinical Reminders
VHA/DoD CPG for Dyslipidemia	http://www.oqp.med.va.gov/cpg/DL/dl_cpg/algo4frameset.htm	The VHA/DoD CPG for Management of Dyslipidemia is a comprehensive guideline incorporating current information and practices for practitioners throughout the DoD and Veterans Health Administration system. See Section S, Table 3b for reference to LDL<120 in the Guideline.

Revision Table

Date	Page #	Description
July 25, 2002	27, 33	Added the following text: “Add the ORDER LIPID PROFILE health factor as an additional finding to Dialog Elements for lipid orders <i>if</i> your site wants the lipid order to satisfy the reminder for 1 month from the date the order is placed. Otherwise, the reminder will be satisfied when the lab results for LDL are entered into VistA. “

Contents

PREFACE.....	III
Purpose of Installation and Setup Guide.....	iii
Recommended Users	iii
Related Manuals.....	iii
Web Sites	iii
INTRODUCTION	1
Impact on Sites	2
Impact on Clinicians.....	3
Release Notes	4
PRE-INSTALLATION	6
Required Software	6
Files installed	6
Routines Installed	6
Estimated Installation Time	6
INSTALLATION	7
1. Retrieve the PXR*1.5*8 build.....	7
2. Install the build first in a training or test account.....	7
3. Load the distribution.	7
4. Unmap any mapped PXR* routines.....	8
5. Disable journaling on the following globals.....	8
6. Install the package	8
7. Build File Print.....	11
8. Install File Print	13
9. Enable journaling, if disabled in installation step 5	14
10. Map PXR routines, if unmapped in a pre-installation step	14
11. Post-installation routine.....	14
SETUP AND MAINTENANCE	15
1. Verify correct installation of the “packed reminders.”	15
2. Print and review the national IHD reminder definitions.	19
3. Map local findings to the national Reminder Terms.	21
4. Run the Reminder Test option after term definition mapping is completed.....	28
5. Use the Reminder Dialog options to edit the national (exported) dialogs	29
6. Verify that the reminders function properly.....	36
7. Add the nationally distributed reminder dialogs to the CPRS Cover Sheet.....	37
8. Verify that the dialogs function properly	39
Q & A – Helpful Hints	44
APPENDICES	49
Appendix A: IHD Reminder Definitions.....	50
Appendix B: IHD Dialogs	61
Appendix C: IHD Reminder Term Descriptions	72
Appendix D: IHD Reminder Taxonomies.....	77
Appendix E: IHD Reminder Health Factors	79
Appendix F: Abbreviated Setup Steps.....	80
Appendix G: Modifying Reminders and Dialogs for a more stringent LDL Level	81

Introduction

Background

The Quality Enhancement Research Initiative (QUERI) is a program within the VA Health Services Research and Development Service (HSR&D). QUERI's mission is to translate research innovations into improved quality of health care for veterans. The goal of the VA IHD• QUERI (Ischemic Heart Disease) group is to lessen the gap between clinical guideline recommended therapies and actual VA practice and to improve the process of evaluating health care delivery for patients with IHD receiving treatment in VA medical centers and outpatient clinics.

The IHD clinical reminders in software patch PXRM*1.5*8 have been developed by the IHD QUERI Clinical Reminders Project and the Office of Information (OI) System Design & Development (SDD) Health Data Systems group. These reminders contain provider interventions for lipid management of patients with known Ischemic Heart Disease (IHD).

The goal of the National IHD Clinical Reminders Project is to develop and nationally distribute clinical reminders that can be used by providers to facilitate lipid management of patients with Ischemic Heart Disease (IHD) and can aid in increasing adherence to national clinical practice guidelines.

VHA Guidelines & Measures Used for IHD Reminders

VHA Clinical Practice Guidelines

- IHD patients should have a lipid profile every 1 to 2 years
- IHD patients taking lipid lowering agents should have a lipid profile at least every year
- The LDL goal for IHD patients is <120 mg/dl

VHA Performance Measures

- Percent of IHD patients at each facility with two qualifying encounters at specified clinic codes who have:
 - LDL in the past 2 years
 - LDL < 120 mg/dl in the past 2 years

A national data repository at the Austin Automation Center is also being developed to house guideline compliance data linked to the IHD clinical reminders. This database will provide facility-level quarterly summary reports for selected IHD performance measures.

QUERI/IHD Project Phases

To meet the time constraints associated with this project, the project will be completed and delivered in two phases.

Phase I:

- Develop two Reminder Definitions and Dialogs for clinical use:
 - Lipid Profile Reminder***
 - For lipid measurement: identifies patients with IHD who have not had a lipid panel w/ LDL in the last year
 - IHD Elevated LDL Reminder***
 - For LDL management: identifies patients with IHD who have had a lipid panel in the last year and the most recent LDL is > 120 mg/dl

Phase II:

- Develop two additional national reminders for lipid measurement/ management of patients with known IHD
 - For performance reports (not present in CPRS)
 - Based on VHA EPRP performance measures
- Develop a national data repository at the Austin Automation Center to house facility-level reminder data
- Develop software to transmit reminder data from each facility to the national repository
- Enhance clinical reminder reporting functionality so that reminder applicable/due counts can be generated for a specified timeframe and diagnosis
- Expected completion -- Fall 2002

Impact on Sites

- **Installation of build**

Two IHD clinical reminders and dialogs are distributed in this patch (PXR*1.5*8). The patch installation takes advantage of the reminder exchange utility and installs the reminders into the host system "silently". An email is generated if some of the reminder terms already exist on the host system and the install does not update the term. (This prevents overwriting any work already done at a site if the reminder or reminder term is being updated).

- **Setup and implementation by local team**

The following steps are required after the reminders have been installed on the system.

1. Map Terms: As with all National Reminders, the IHD reminders are all built with reminder terms instead of individual health factors or other finding types. This allows a site to continue to use findings that already exist on the host system as data elements and to relate these local findings to the national terms. The individual health factors

that match the reminder term are also distributed with the patch, so that a site that does not have a local finding can use the nationally distributed health factors to collect data.

A detailed description of each reminder's term that is distributed is included in the reminder description and in the manual.

NOTE: Data rollup for the second phase of this project will be based on how you map your local findings to the national terms.

2. Edit the reminder dialogs

Once you have mapped the local findings to the national terms, you can then decide if you want to continue to use your local findings as the data elements that are captured or if you want to use the national findings that are already mapped to the national terms.

If you want to continue to use your local findings, be sure to edit the reminder dialog by finding the element that allows for that data element to be collected. Change the finding item for that element to the local finding. The national reminders and dialogs cannot be changed except that you CAN change the finding item in the nationally distributed elements to use your local finding item instead of the nationally distributed one.

Impact on Clinicians

- Use of VA-IHD Reminders (or local equivalent) on cover sheet
- Resolution of reminders through CPRS point-and-click Reminder Resolution tools

Release Notes

The following changes have been made to the Clinical Reminders application, as part of patch 8.

Patient Cohort Logic Changes – Most Recent Date (MRD)

Changes have been made to the Patient Cohort Logic, to help resolve some problems identified by test sites for Patch 8.

1. The reminder term logic will first find the most recent finding and then apply the Effective Period and Condition. This solves the problem where two LDLs have been done, one 6 months ago with a value > 120, and the second LDL done with a different test with a value < 120. The most recent LDL finding within a reminder term will be now be used to determine true or false value, rather than the most recent finding found with a true condition.
2. Functions can now be used in the Patient Cohort Logic. A function called the "Most Recent Date" (MRD) function will return the most recent date from a list of finding items. The function will look something like the following: MRD(F1,F2,F3)

Two MRD functions can be used with a comparison operator (">", "<", "=") between them to compare the most recent date of finding lists. The result of the comparison is a True/False (1 or 0) condition.

This helps resolve the problem with inside and outside tests, and potentially erroneous patient cohort logic.

This is how the MRD function and comparison operation can help in the patient cohort logic:

```
Customized PATIENT COHORT LOGIC to see if the Reminder applies to a patient:  
FI (1) & (MRD (FI (1) ) > MRD (FI (13) ) ) & (FI (5) ! FI (6) ! FI (7) ) &  
(MRD (FI (5) , FI (6) , FI (7) ) > MRD (FI (8) , FI (3) , FI (4) ) )
```

```
Expanded Patient Cohort Logic:  
FI (IHD DIAGNOSIS) & (MRD (FI (IHD DIAGNOSIS) ) >  
MRD (FI (UNCONFIRMED IHD DIAGNOSIS) ) ) & (FI (OUTSIDE LDL 120-129) !  
FI (OUTSIDE LDL >129) ! FI (LDL >119) ) & (MRD (FI (OUTSIDE LDL 120-129) ,  
FI (OUTSIDE LDL >129) , FI (LDL >119) ) > MRD (FI (LDL <120) , FI (OUTSIDE LDL <100) ,  
FI (OUTSIDE LDL 100-119) ) )
```

This means the patient cohort logic must have the following logic be true:

The patient must have an IHD Diagnosis
AND
that a more recent UNCONFIRMED IHD Diagnosis does not exist
AND
the LDL from inside or outside must be 120 or greater
AND
a more recent inside or outside LDL result <120 does not exist.

Managing nationally distributed reminders and dialogs

All nationally distributed reminder dialogs will be distributed with a VA- prefix, and flagged as national. This applies to reminder dialogs, dialog groups, and dialog elements. The only field that will be editable in the national reminder dialog is the finding item in the dialog group and dialog elements. Any additional changes require 1) copying the reminder dialog to a local reminder dialog and 2) copy and replace functionality.

A redistribution of the national reminder dialog will 1) save the dialog element finding items defined on your system, 2) install the dialog components, replacing the old dialog components, and 3) replace the local finding item values into the dialog components. Reminder Terms will not be overridden. If the reminder term already exists on your system, no added updates are made.

National Dialog Findings Management:

The current dialog management has been modified so that if a national reminder dialog is selected, the screen display defaults to a DD view with finding items noted as shown in the example below. You can only edit the finding items in the individual dialog elements. The screen looks more like the exchange screen dialog, but allows selection of an element anywhere in the structure and editing of the FINDING ITEM and ADDITIONAL FINDING fields only.

Previously, you couldn't see the findings in groups in the dialog edit screen, and you had to switch to group edit in order to change the finding on a group.

Dialog Edit List		Jan 30, 2002@09:36:44		Page: 1 of 3	
REMINDER DIALOG NAME: VA-IHD LIPID PROFILE [NATIONAL]					
Item	Seq.	Dialog Details/Findings		Type	
1	5	VA-IHD LIPID PROFILE HEADER Finding: *NONE*		element	
2	10	VA-IHD LIPID ORDER GROUP Finding: *NONE*		group	
3	10.5	VA-IHD FASTING LIPID ORDERED Finding: *NONE*		element	
4	10.10	VA-IHD DIRECT LDL ORDERED Finding: *NONE*		element	
5	15	VA-IHD LIPID DONE ELSEWHERE GROUP Finding: *NONE*		group	
6	15.10	VA-IHD LIPID <100 DONE ELSE Finding: OUTSIDE LDL <100 (HEALTH FACTOR)		element	
+ + Next Screen - Prev Screen ?? More Actions >>>					
CO	Copy Dialog	DP	Progress Note Text	INQ	Inquiry/Print
DD	Detailed Display	DT	Dialog Text	RI	Reminder Inquiry
DF	Dialog Findings	ED	Edit/Delete Dialog	QU	Quit
Select Item: Next Screen// 10					
CURRENT DIALOG ELEMENT/GROUP NAME: VA- IHD LIPID ORDER GROUP					
Used by: VA-IHD LIPID PROFILE (Current Reminder Dialog)					
VA-IHD ELEVATED LDL (Reminder Dialog)					
A COPY OF VA-ELEVATED LDL (Reminder Dialog)					
FINDING ITEM: REFUSED LIPID PROFILE//					
Select ADDITIONAL FINDINGS:					

Notice that the prompt is **Select Item**, not **Select Sequence**

Pre-Installation

Clinical Reminders patch PXRM*1.5*8 adds two new reminders, two new dialogs, one new reminder taxonomy, and several new reminder terms and health factors to support the IHD project.

Required Software

Package/Patch	Namespace	Version	Comments
Clinical Reminders	PXRM	1.5	Fully patched (PXRM*1.5*7)
HL7	HL	1.6	Fully patched
Kernel	XU	8.0	Fully patched
MailMan	XM	7.1	Fully patched
VA FileMan	DI	22	Fully patched

Files installed

811.8 REMINDER EXCHANGE FILE

Adds entries to Reminder Definition, Health Factor, Reminder Taxonomy, Reminder Sponsor, and Reminder Dialog files.

Routines Installed

PRE-INIT ROUTINE : PRE^PXRMP8I

POST-INIT ROUTINE : POST^PXRMP8I

Estimated Installation Time

Installation

About 5 minutes

Setup after installation by the Reminder Manager or CAC to address local implementation

Approximately two-four hours (depending partly on the number of local lab tests or number of facilities within a health care system)

Installation

This build can be loaded with users on the system. Updating of cross-references for the new data added to the files will occur during the install.

The install needs to be done by a person with programmer access set to "@."

1. Retrieve the PXRM*1.5*8 build

Use FTP to access the build, PXRM_1_5_8.KID, from one of the following locations:

SITE	IP ADDRESS	DIRECTORY
Albany	REDACTED	REDACTED
Hines	REDACTED	REDACTED
Salt Lake City	REDACTED	REDACTED

2. Install the build first in a training or test account.

Installing in a non-production environment will give you time to get familiar with new functionality and complete the setup for reminders and dialogs prior to installing the software in production.

3. Load the distribution.

In programmer mode, do ^XUP, select the Kernel Installation & Distribution System menu (XPD MAIN), then the Installation option, then the option LOAD a Distribution. Enter your directory name and PXRM_1_5_8.KID at the Host File prompt.

Example

```
Select Installation Option: LOAD a Distribution
Enter a Host File: C:\anonymous\ PXRM_1_5_8.KID

KIDS Distribution saved on Feb 21, 2002@10:57:42

This Distribution contains Transport Globals for the following Package(s):

Distribution OK!

Want to Continue with Load? YES// <Enter>
Loading Distribution...
```

From the Installation menu, you may elect to use the following options (when prompted for INSTALL NAME, enter).

a. Backup a Transport Global

This option will create a backup message of any routines exported with the patch. It will NOT back up any other changes such as DDs or templates.

b. Compare Transport Global to Current System

This option will allow you to view all changes that will be made when the patch is installed. It compares all components of the patch (routines, DDs, templates, etc.).

c. Verify Checksums in Transport Global

This option will allow you to ensure the integrity of the routines that are in the transport global. If there are any discrepancies, do not run the Install Package(s) option. Instead, run the Unload a Distribution option to remove the Transport Global from your system. Retrieve the file again from the anonymous directory (in case there was corruption in FTPing) and Load the Distribution again. If the problem still exists, log a NOIS and/or call the national Help Desk (1-888-596-HELP) to report the problem.

d. Print Transport Global

This option will allow you to view the components of the KIDS build.

4. Unmap any mapped PXR* routines.

5. Disable journaling on the following globals:

6. Install the package.

The install needs to be done by a person with programmer access set to "@."

From the Installation menu on the Kernel Installation and Distribution System (KIDS) menu, run the option Install Package(s). Select the package PXR*1.5*8 and proceed with the install. If you have problems with the installation, log a NOIS and/or call the National Help Desk to report the problem.

```
Select Installation & Distribution System Option: Installation
Select Installation Option: INSTALL PACKAGE(S)
Select INSTALL NAME: PXR*1.5*8
```

■ Answer "NO" to the following prompts:

Want KIDS to INHIBIT LOGONs during install? YES// **NO**

Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// **NO**

Installation Example

```
Setting up programmer environment
Terminal Type set to: C-VT220

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

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

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

Select Kernel Installation & Distribution System Option: Installation

Select Installation Option: 1 Load a Distribution
Enter a Host File: PXRM_1_5_8.KID

KIDS Distribution saved on Feb 21, 2002@10:25:19
Comment: PXRM*1.5*8 Build 02/21/2002

This Distribution contains Transport Globals for the following Package(s):
Build PXRM*1.5*8 has been loaded before, here is when:
    PXRM*1.5*8    Install Completed
                  was loaded on Feb 13, 2002@15:34:54
OK to continue with Load? NO// YES

Distribution OK!

Want to Continue with Load? YES// <Enter>
Loading Distribution...

    PXRM*1.5*8
Use INSTALL NAME: PXRM*1.5*8 to install this Distribution.

Select Installation Option: Verify Checksums in Transport Global
Select INSTALL NAME: PXRM*1.5*8      Loaded from Distribution 2/21/02@11:53:14
    => PXRM*1.5*8 Build 02/21/2002    ;Created on Feb 21, 2002@10:25:19

This Distribution was loaded on Feb 21, 2002@11:53:14 with header of
    PXRM*1.5*8 Build 02/21/2002    ;Created on Feb 21, 2002@10:25:19
It consisted of the following Install(s):
    PXRM*1.5*8
DEVICE: HOME// <Enter> ANYWHERE

PACKAGE: PXRM*1.5*8      Feb 21, 2002 11:53 am      PAGE 1
-----

    25 Routine checked, 0 failed.

Select Installation Option: Install Package(s)
Select INSTALL NAME: PXRM*1.5*8      Loaded from Distribution 2/21/02@11:53:14
    => PXRM*1.5*8 Build 02/21/2002    ;Created on Feb 21, 2002@10:25:19

This Distribution was loaded on Feb 21, 2002@11:53:14 with header of
    PXRM*1.5*8 Build 02/21/2002    ;Created on Feb 21, 2002@10:25:19
It consisted of the following Install(s):
    PXRM*1.5*8
```

Checking Install for Package PXRM*1.5*8

Install Questions for PXRM*1.5*8

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// **NO**

Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// **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// **<Enter>** ANYWHERE

Install Started for PXRM*1.5*8 :
Feb 21, 2002@11:53:35

Build Distribution Date: Feb 21, 2002

Installing Routines:
Feb 21, 2002@11:53:35

Running Pre-Install Routine: PRE^PXRM*1.5*8

Saving local mappings for term LIPID LOWERING MEDS INITIAL ORDER

Saving local mappings for term LIPID LOWERING MEDS ADJUSTED

Saving local mappings for term NO CHANGE IN IHD LIPID TREATMENT

Saving local mappings for term OTHER DEFER ELEVATED LDL THERAPY

Saving local mappings for term LIPID MGMT PROVIDED OUTSIDE

Installing Data Dictionaries:
Feb 21, 2002@11:53:36

Installing Data:
Feb 21, 2002@11:53:45

Installing PACKAGE COMPONENTS:

Installing PRINT TEMPLATE

Installing INPUT TEMPLATE

PXRM*1.5*8

Feb 21, 2002@11:53:45

Running Post-Install Routine: POST^PXRM*1.5*8

Installing reminder VA-IHD ELEVATED LDL

Installing reminder VA-IHD LIPID PROFILE

Updating Routine file...

```

Updating KIDS files...

PXRM*1.5*8 Installed.
      Feb 21, 2002@11:54:30

Install Message sent Feb 21, 2002@11:54:30

```

```

-----
100%      +-----+
|          | 25      | 50      | 75      |
| Complete+-----+

```

NOTE: Some sites have received error messages when installing patch 8, because the orderable item B index was incomplete, probably due to an OR patch that killed this index. If you have these problems installing patch 8, the 101.43 ORDERABLE ITEMS file needs re-indexing.

The problem only appears if the IHD terms have been mapped to local orderable items. It should not affect new sites receiving the patch for the first time.

Example:

```

The update failed, UPDATE^DIE returned the following error message:
MSG("DIERR")=1^1
MSG("DIERR",1)=701
MSG("DIERR",1,"PARAM",0)=3
                                PXRM*1.5*8
-----
MSG("DIERR",1,"PARAM",3)=OI.LDL, DIRECT
MSG("DIERR",1,"PARAM","FIELD")=.01
MSG("DIERR",1,"PARAM","FILE")=811.52
MSG("DIERR",1,"TEXT",1)=The value 'OI.LDL, DIRECT' for field FINDING ITEM in FI.
MSG("DIERR","E",701,1)=

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

```

7. Build File Print

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

```

Select Utilities Option: Build File Print
Select BUILD NAME: PXRM*1.5*8          CLINICAL REMINDERS
DEVICE: HOME// ;;999  ANYWHERE

PACKAGE: PXRM*1.5*8      Mar 25, 2002 7:56 am          PAGE 1
-----
TYPE: SINGLE PACKAGE
TRACK NATIONALLY: YES
NATIONAL PACKAGE: CLINICAL REMINDERS
DESCRIPTION:
This patch contains national reminders for the IHD QUERI project:

VA-IHD ELEVATED LDL
VA-IHD LIPID PROFILE

```

See national patch module for details.

ENVIRONMENT CHECK :

PRE-INIT ROUTINE : PRE^PXRMP8I
POST-INIT ROUTINE : POST^PXRMP8I
PRE-TRANSPORT RTN :

FILE #	NAME	UP DATE DD	SEND SEC. CODE	DATA COMES W/FILE	SITE DATA	RSLV PTS	USER OVER RIDE
811.8	REMINDER EXCHANGE FILE	NO	NO	YES	REPL	YES	NO
DATA SCREEN: I (Y=3)!(Y=5)							

PRINT TEMPLATE:

PXRM DEFINITION INQUIRY FILE #811.9 SEND TO SITE

INPUT TEMPLATE:

PXRM EDIT NATIONAL DIALOG FILE #801.41 SEND TO SITE

ROUTINE:

PXRMCF	SEND TO SITE
PXRMDLG	SEND TO SITE
PXRMDLG3	SEND TO SITE
PXRMDRUG	SEND TO SITE
PXRMEDU	SEND TO SITE
PXRMEXAM	SEND TO SITE
PXRMEXU5	SEND TO SITE
PXRMHF	SEND TO SITE
PXRMIMM	SEND TO SITE
PXRMLAB	SEND TO SITE
PXRMLLOG	SEND TO SITE
PXRMLLOGF	SEND TO SITE
PXRMLLOGX	SEND TO SITE
PXRMMEAS	SEND TO SITE
PXRMMH	SEND TO SITE
PXRMORDR	SEND TO SITE
PXRMP8I	SEND TO SITE
PXRMP8IA	SEND TO SITE
PXRMP8IB	SEND TO SITE
PXRMP8TDF	SEND TO SITE
PXRMP8TL	SEND TO SITE
PXRMRAD	SEND TO SITE
PXRMSKIN	SEND TO SITE
PXRMTAX	SEND TO SITE
PXRMTerm	SEND TO SITE

REQUIRED BUILDS:

PXRM*1.5*9

ACTION:

Don't install, leave global

8. Install File Print

Use the KIDS Install File Print option to print out the results of the installation process.

```
Select Utilities Option: Install File Print
Select INSTALL NAME: PXRM*1.5*8          Install Completed 1/18/02@16:03:30
=> PXRM PATCH 8 TEST ;Created on Jan 18, 2002@16:01:22
DEVICE: HOME// ;;999 ANYWHERE

PACKAGE: PXRM*1.5*8      Mar 25, 2002 7:57 am          PAGE 1
                                COMPLETED              ELAPSED
-----
STATUS: Install Completed          DATE LOADED: JAN 18, 2002@16:01:45
INSTALLED BY: HARTLEY,PETER
NATIONAL PACKAGE: CLINICAL REMINDERS

INSTALL STARTED: JAN 18, 2002@16:02:16      16:03:30      0:01:14

ROUTINES:                                16:02:16

PRE-INIT CHECK POINTS:
XPD PREINSTALL STARTED                  16:02:17      0:00:01
XPD PREINSTALL COMPLETED                16:02:17

FILES:
REMINDER EXCHANGE FILE                  16:02:17

PRINT TEMPLATE                          16:02:28      0:00:11
INPUT TEMPLATE                          16:02:28

POST-INIT CHECK POINTS:
XPD POSTINSTALL STARTED                  16:03:29      0:01:01
XPD POSTINSTALL COMPLETED                16:03:29

INSTALL QUESTION PROMPT                                ANSWER

XPI1  Want KIDS to INHIBIT LOGONs during the install      NO
XPZ1  Want to DISABLE Scheduled Options, Menu Options, and Protocols NO
MESSAGES:

  Install Started for PXRM*1.5*8 :
        Jan 18, 2002@16:02:16

Build Distribution Date: Jan 18, 2002

  Installing Routines:
        Jan 18, 2002@16:02:16

  Running Pre-Install Routine: PRE^PXRM*1.5*8I

Saving local mappings for term LIPID LOWERING MEDS INITIAL ORDER
Saving local mappings for term LIPID LOWERING MEDS ADJUSTED
Saving local mappings for term NO CHANGE IN IHD LIPID TREATMENT
Saving local mappings for term OTHER DEFER ELEVATED LDL THERAPY
Saving local mappings for term LIPID MGMT PROVIDED OUTSIDE
```

```
Installing Data Dictionaries:
      Jan 18, 2002@16:02:17

Installing Data:
      Jan 18, 2002@16:02:28

Installing PACKAGE COMPONENTS:

Installing PRINT TEMPLATE

Installing INPUT TEMPLATE
      Jan 18, 2002@16:02:28

Running Post-Install Routine: POST^PXRMP8I

Installing reminder VA-IHD ELEVATED LDL

Installing reminder VA-IHD LIPID PROFILE

Updating Routine file...

Updating KIDS files...

PXRMP8I*1.5*8 Installed.
      Jan 18, 2002@16:03:30

Not a production UCI

NO Install Message sent
```

9. Enable journaling, if disabled in installation step 5.

10. Map PXRMP routines, if unmapped in a pre-installation step.

11. Post-installation routine

The post-install routine, PXRMP8I, installs the two VA-IHD “packed” reminders into your Exchange File.

After the installation has finished, if you discover that the reminder didn’t get installed correctly, for some reason, you can use the Exchange options on the Reminders Manager Menu to install the “packed” reminders.

Setup and Maintenance

After installing PXR*1.5*8, follow the steps below to implement your IHD reminders and dialogs for this project. Setup may require as much as four hours, depending on your experience with reminders, whether you're an integrated or single site, and on the number of lab tests your site(s) uses. Gathering relevant information, such as lists of lab tests and quick orders that will be mapped, will facilitate implementation.

As with all national reminders, the IHD reminders are built with reminder terms instead of individual health factors or other finding types. This allows sites to continue to use findings that already exist on the host system as data elements and to relate these local findings to the national terms. The individual health factors that match the reminder term are also distributed with the patch, so that a site that doesn't have a local finding can use the nationally distributed health factors to collect data.

A detailed description of each reminder's terms is included in the reminder description and also in Appendix C of this manual.

Setup Steps

1. Verify correct installation of the "packed reminders."

- a. Using *Inquire about Reminder Definition* on the Reminder Management Menu, ensure that VA-IHD LIPID PROFILE and VA-IHD ELEVATED LDL have been installed.

```
Select Reminder Managers Menu Option: RM  Reminder Definition Management

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

Select Reminder Definition Management Option: RI  Inquire about Reminder
Definition
Select Reminder Definition: VA-IHD LIPID PROFILE

VA-IHD LIPID PROFILE      NATIONAL
DEVICE: ;;999  ANYWHERE      Right Margin: 80// <Enter>
REMINDER DEFINITION INQUIRY      Apr 05, 2002 3:07:01 pm  Page 1
-----

VA-IHD LIPID PROFILE      No.  70
-----

Print Name:      IHD Lipid Profile

Class:      NATIONAL

etc.
```

```

Select Reminder Definition on: VA-IHD ELEVATED LDL

VA-IHD LIPID PROFILE      NATIONAL
DEVICE: ;;999 ANYWHERE    Right Margin: 80// <Enter>
REMINDER DEFINITION INQUIRY                               Apr 05, 2002 3:07:19 pm Page 1
-----

VA-IHD ELEVATED LDL                                     No. 73
-----

Print Name:                                             IHD Elevated LDL
Class:                                                  NATIONAL
Sponsor:                                                Office of Quality & Performance
Review Date:
Usage:                                                  CPRS
Related VA-* Reminder:
Reminder Dialog:                                       VA-IHD ELEVATED LDL
Etc.

```

b. Using FileMan Inquiry, verify that the following health factors are on your system:

Health factors have been grouped by categories, using generic names where possible so the health factor can be used for lipid management beyond the IHD diagnosis, where appropriate (e.g., DM, etc.). The following Health Factors are distributed pre-mapped to the Reminder Terms:

Health Factor Category	Health Factor
OUTSIDE LDL	OUTSIDE LDL 100-119
	OUTSIDE LDL 120-129
	OUTSIDE LDL <100
	OUTSIDE LDL >129
LIPID PROFILE INTERVENTIONS	ORDER LIPID PROFILE
	REFUSED LIPID PROFILE
	OTHER DEFER LIPID PROFILE
LIPID MED INTERVENTIONS	LIPID LOWERING MEDS INITIAL ORDER
	LIPID LOWERING MEDS ADJUSTED
	NO CHANGE IN IHD LIPID TREATMENT
	LIPID MEDS CONTRAINDICATED
	LIPID MGMT PROVIDED OUTSIDE
	REFUSED ELEVATED LDL THERAPY
	OTHER DEFER ELEVATED LDL THERAPY
UNCONFIRMED DIAGNOSIS	UNCONFIRMED IHD DIAGNOSIS

```

>D P^DI

VA FileMan 22.0

Select OPTION: INQUIRE TO FILE ENTRIES

OUTPUT FROM WHAT FILE: REMINDER DEFINITION// HEALTH FACTOR
    1  HEALTH FACTOR RESOLUTION          (-1 entries)
    2  HEALTH FACTORS                     (283 entries)
CHOOSE 1-2: 2 HEALTH FACTORS           (283 entries)
Select HEALTH FACTORS: OUTSIDE LDL
    1  OUTSIDE LDL
    2  OUTSIDE LDL 100-119
    3  OUTSIDE LDL 120-129
    4  OUTSIDE LDL <100
    5  OUTSIDE LDL >129
CHOOSE 1-5:
.
.
Select HEALTH FACTORS: LIPID
    1  LIPID LOWERING MEDS ADJUSTED
    2  LIPID LOWERING MEDS INITIAL ORDER
    3  LIPID MED INTERVENTIONS
    4  LIPID MEDS CONTRAINDICATED
    5  LIPID MGMT PROVIDED OUTSIDE
Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5:
    6  LIPID PROFILE INTERVENTIONS
CHOOSE 1-6:
.
.
etc.

```

c. Using the Term Inquiry option on the Term Management Menu, verify that the following terms are on your system:

```

ALANINE AMINO (ALT) (SGPT)
IHD DIAGNOSIS
LDL
LDL <120
LDL >119
LIPID LOWERING MEDS
LIPID LOWERING THERAPY MGMT - 2M
LIPID LOWERING THERAPY MGMT - 6M
LIPID MEDS CONTRAINDICATED
LIPID PROFILE ORDERABLE
ORDER LIPID PROFILE HEALTH FACTOR
OTHER DEFER LIPID PROFILE
OUTSIDE LDL <100
OUTSIDE LDL >129
OUTSIDE LDL 100-119
OUTSIDE LDL 120-129
REFUSED ELEVATED LDL THERAPY
REFUSED LIPID PROFILE
TRANSFERASE (AST) (SGOT)
UNCONFIRMED IHD DIAGNOSIS

```

```

Select Reminder Managers Menu Option: TRM  Reminder Term Management

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

Select Reminder Term Management Option: TI  Inquire about Reminder Term
Select Reminder Term: ALANINE AMINO (ALT) (SGPT)

```

VA FileMan Print from the Reminder Term File

You can also run a VA FileMan Print from the Reminder Term File (#811.5) that just sorts by name, and then prints name, finding, and condition. This is a useful list, especially when needing to map so many tests and you're not sure what values have been defined.

Example

```

Print File Entries

OUTPUT FROM WHAT FILE: REMINDER TERM
SORT BY: NAME// <Enter>
START WITH NAME: FIRST// <Enter>

FIRST PRINT FIELD:

READ ACCESS: @// <Enter>
WRITE ACCESS: @// <Enter>
FIRST PRINT FIELD: NAME// <Enter>
THEN PRINT FIELD: FINDINGS//<Enter>      (multiple)
    THEN PRINT FINDINGS SUB-FIELD: FINDING ITEM// <Enter>
    THEN PRINT FINDINGS SUB-FIELD: CONDITION// <Enter>
    THEN PRINT FINDINGS SUB-FIELD: <Enter>
THEN PRINT FIELD:
Heading (S/C): REMINDER TERM LIST// <Enter>
STORE PRINT LOGIC IN TEMPLATE:
DEVICE: 0;;99 TELNET      Right Margin: 80//<Enter>

REMINDER TERM LIST                                Apr 30, 2002  11:03    PAGE 1
NAME
    FINDING ITEM                                CONDITION
-----
ALANINE AMINO (ALT) (SGPT)
    ALT
BILIRUBIN
    BILIRUBIN, TOTAL
Etc.

```

d. Using the Dialog Management option, verify that the VA-IHD LIPID PROFILE and VA-IHD ELEVATED LDL dialogs are installed on your system.

```
Select Reminder Managers Menu Option: DM  Reminder Dialog Management
    DP    Dialog Parameters ...
    DI    Reminder Dialogs
Select Reminder Dialog Management Option: DI  Reminder Dialogs

Dialog List                               Apr 3, 2002@10:34:07           Page:    1 of    14
REMINDER VIEW (ALL REMINDERS BY NAME)

Item Reminder Name                        Linked Dialog Name & Dialog Status
-----
14  BLOOD PRESSURE CHECK                  COPY OF BLOOD PRESSURE CHEC    Disabled
16  CFTEST                               CFTEST                         Disabled

+      Enter ?? for more actions      >>>
AR  All reminders                        LR  Linked Reminders           QU  Quit
CV  Change View                        RN  Name/Print Name
Select Item: Next Screen// SL  SL
Search for: VA-IHD

Dialog List                               Apr 30, 2002@10:34:07           Page:   12 of   14
REMINDER VIEW (ALL REMINDERS BY NAME)

+Item Reminder Name                        Linked Dialog Name & Dialog Status
-----
186  VA-IHD ELEVATED LDL                  VA-IHD ELEVATED LDL
187  VA-IHD LIPID PROFILE                 VA-IHD LIPID PROFILE
188  VA-INFLUENZA VACCINE                 VA-INFLUENZA VACCINE          Disabled
189  VA-MAMMOGRAM
190  VA-MST SCREENING                    VA-MST SCREENING
191  VA-NATIONAL EPI LAB EXTRACT

+      Enter ?? for more actions      >>>

Find Next 'va-ihd'? Yes// no
```

2. Print and review the national IHD reminder definitions.

Option: Inquire about Reminder Definition on the Reminder Management Menu.

You need to review the definitions in order to understand how they use reminder terms.

Do not make any changes to these reminders. You may copy the national reminder to a local reminder and make any changes necessary.

These two Clinical Reminders are designed for use by clinicians and are recommended for use in Primary Care Clinics (Primary Care/Medicine, GMC, Geriatric, Women's) Cardiology Clinics, Cholesterol Screening Clinics and any other specialty clinics where primary care is given. These reminders take into consideration the day-to-day activities that can resolve the reminder, including temporary reminder resolutions such as placing an order.

VA-IHD LIPID PROFILE

Patients with a diagnosis of IHD should have a Lipid Profile every one to two years. Those taking a lipid agent should have a lipid profile at least every year. The VHA/DOD Clinical Practice Guideline for Management of Dyslipidemia recommends that patients with Ischemic Heart Disease have a lipid profile/LDL every one to two years; and that patients taking lipid-lowering medications have a lipid profile/LDL at least every year

This national reminder identifies patients with known IHD (i.e., a documented ICD-9 code for IHD on or after 10/01/99) who have not had a serum lipid panel within the last year. If a more recent record of an UNCONFIRMED IHD DIAGNOSIS is found, the reminder will not be applicable to the patient.

- A completed LDL lab test (calculated LDL or direct LDL) or documented outside LDL satisfies the reminder for 12 months from the lab test date.
- A documented order lipid profile health factor satisfies the reminder for 1 month.
- A patient's refusal to have an LDL level drawn satisfies the reminder for 6 months.
- Deferring the lipid profile for other reasons satisfies the reminder for 6 months.

NOTES:

If your site has been using a more stringent LDL goal of <100 mg/dl, see Appendix G for steps to take to change the reminder definitions and dialogs.

If your site already has an LDL reminder for all patients, both the “all patient LDL” reminder and the “IHD Lipid Profile” reminder could become due for the same patient. To eliminate the possibility of redundant reminders appearing, modify the patient cohort logic in the “all patient LDL reminder,” as follows:

- Include the IHD Diagnosis Reminder Term as a finding, with USE INPATIENT COHORT LOGIC with the AND NOT Boolean operator.

If you have an LDL reminder for Diabetes patients, the redundancy could still occur if the patient also has an IHD Diagnosis. Decide which reminder should take precedence, and add the change above to the reminder definition of the reminder that should *not* become due.

VA-IHD ELEVATED LDL

Patients with a diagnosis of IHD should have a Lipid Profile every one to two years. Those taking a lipid agent should have a lipid profile at least every year. The DOD/VHA Clinical Practice Guideline for the Management of Dyslipidemia in Primary Care recommends an LDL goal of <120 mg/dl for patients with IHD, and the NCEP Adult Treatment Panel II recommends a more stringent goal of <100 mg/dl.

This national reminder identifies patients with known IHD (i.e., a documented ICD-9 code for IHD on or after 10/01/99) who have had a serum lipid panel within the last year, where the most recent LDL lab test (or documented outside LDL) is greater than or equal

to 120 mg/dl. If a more recent record of an UNCONFIRMED IHD DIAGNOSIS is found, the reminder will not be applicable to the patient.

- Documenting an outside LDL <120 mg/dl satisfies the reminder for 12 months from the lab test date.
- Ordering initial lipid-lowering medications or adjusting current lipid lowering medications satisfies the reminder for 2 months. (This is tracked by Health Factors, not the order.)
- A patient's refusal of lipid-lowering therapy satisfies the reminder for 6 months.
- Documenting that no treatment change is needed based on patient's current clinical status, that lipid management is provided by another VA or non-VA facility, or deferring lipid treatment for other reasons satisfies the reminder for 6 months.
- Documenting that lipid-lowering medications are contraindicated satisfies the reminder for 12 months.

NOTE: If your site has been using a more stringent LDL goal of <100 mg/dl, see Appendix G for a description of how to change the reminder definitions and dialogs.

3. Map local findings to the national Reminder Terms.

Option: Reminder Term Management on the Reminder Management Menu.

Before using IHD reminders, map the local findings your site uses to represent the national reminder terms.

The IHD reminders use reminder terms instead of individual health factors or other finding types, which lets you continue to use findings that may already exist in your system as data elements. These local findings can then be linked to the national terms. The individual health factors that match the reminder term are also distributed with the patch, so that a site that doesn't have local findings can use the nationally distributed health factors to collect data.

Purpose of National Terms

- ◆ Terms are used to define a general concept that can be used on a national level
- ◆ Terms allow sites the ability to link existing local or VISN findings to the national term.
- ◆ Data rollup for the second phase of this project will be based on how you map your local findings to the national terms.

Example:

General term: **Unconfirmed IHD Diagnosis**

Specific findings:

National HF: **Unconfirmed IHD Diagnosis**

Existing VISN HF: **Erroneous IHD Diagnosis**

Existing Local HF: **No known CAD**

- Prepare a list of your local findings – lab tests, health factors, etc. that you use to represent IHD terms.

- Review the national term definitions (see Appendix C or use the options on the Reminder Term Management menu), to compare these to what you are using locally to represent IHD terms.

IHD terms that *must* be mapped (no mapping included with distributed terms).

Term	Mapping Instructions	Local Lab Tests or Orderables to Map
LDL	Enter the Laboratory Test names from the Lab Package for calculated LDL and direct LDL.	
LDL >119	Enter the Laboratory Test names from the Lab Package for calculated LDL and direct LDL with a CONDITION to identify LDL values > 119. Although the condition is defined in the reminder, also define the condition in the term so the term can be used for uses that don't involve the reminder definition. If your site uses comments frequently you may want to change the condition to check for specific text.	
LDL < 120	Enter the Laboratory Test names from the Lab Package for calculated LDL and direct LDL with a CONDITION to identify LDL values < 120. Although the condition is defined in the reminder, also define the condition in the term so the term can be used for purposes that don't involve the reminder definition. If your site uses comments frequently you may want to change the condition to check for specific text.	
LIPID PROFILE ORDERABLE	Add local orderable items that your site uses to order direct LDL and calculated LDL lab tests (including lipid profiles with an LDL). Add the order dialog item to the reminder dialog definition.	

Pre-mapped Terms (additional mapping optional)

If desired, add local Health Factors or findings representing these terms.

Term	Description	Local Health Factors to Map
ALANINE AMINO (ALT) (SGPT)	This term was distributed originally with the Hepatitis C Risk Assessment reminder. ALT tests should already be mapped at your site. The ALT lab test is an informational finding in this reminder.	
IHD DIAGNOSIS	No mapping is necessary. This term is distributed pre-mapped to the VA• ISCHEMIC HEART DISEASE taxonomy. The Active Problem list, Inpatient Primary Diagnosis and Outpatient Encounter Diagnosis are used to search for ICD9 diagnoses.	

Term	Description	Local Health Factors to Map
LIPID LOWERING MEDS	This term is distributed pre-mapped to VA Generic Drug Names. Add any investigational drug names that are used but not mapped to the VA-Generic Drug. Enter the formulary drug names for investigation drugs. Mapping non-investigative formulary drugs to the VA-GENERIC drugs in the Pharmacy Package will ensure the lipid lowering agents are found. The medications are informational findings for this reminder.	
LIPID LOWERING THERAPY MGMT – 2M	The LIPID LOWERING MEDS INITIAL ORDER and LIPID LOWERING MEDS ADJUSTED health factors are distributed pre-mapped to this term. If necessary, add local health factors representing these terms. Do not add orders or pharmacy medications as findings for this term.	
LIPID LOWERING THERAPY MGMT – 6M	The NO CHANGE IN IHD LIPID TREATMENT, OTHER DEFER ELEVATED LDL THERAPY, and LIPID MGMT PROVIDED OUTSIDE health factors are distributed pre-mapped to this term. Add any local health factors, such as life expectancy < 6 months, that your site is using that should defer the lipid lowering management.	
LIPID MEDS CONTRAINDICATED	Use the LIPID MEDS CONTRAINDICATED health factor distributed with this term or add any local health factors representing contraindication to lipid lowering medications	
ORDER LIPID PROFILE HEALTH FACTOR	Distributed with Health Factor: ORDER LIPID PROFILE. Add any local health factor representing the order action. Do not add orderable items to this reminder term (see LIPID PROFILE ORDERABLE).	
OTHER DEFER LIPID PROFILE	Distributed with Health Factor: OTHER DEFER LIPID PROFILE	
OUTSIDE LDL <100	Distributed with Health Factor: OUTSIDE LDL <100	
OUTSIDE LDL >129	Distributed with Health Factor: OUTSIDE LDL >129	
OUTSIDE LDL 100-119	Distributed with Health Factor: OUTSIDE LDL 100-119	

Term	Description	Local Health Factors to Map
OUTSIDE LDL 120-129	Distributed with Health Factor: OUTSIDE LDL 120-129	
REFUSED ELEVATED LDL THERAPY	Distributed with Health Factor: REFUSED ELEVATED LDL THERAPY	
REFUSED LIPID PROFILE	Distributed with Health Factor: REFUSED LIPID PROFILE	
TRANSFERASE (AST) (SGOT)	This term was distributed originally with the Hepatitis C Risk Assessment reminder. AST tests should already be mapped at your site.	
UNCONFIRMED IHD DIAGNOSIS	Use the UNCONFIRMED IHD DIAGNOSIS health factor distributed with this term or add any local health factor representing an unconfirmed or incorrect IHD diagnosis.	

NOTE: It isn't necessary to enter an Effective Period when mapping terms, as this is already in the reminder definition. Enter an Effective Period only if you want to override the entry in the definition.

Example: Mapping a Local Finding to the LDL Reminder Term

Determine all labs tests that mean "LDL"

LDL (CALCULATED)

DIRECT LDL

Is there only one of each?

No panels: only individual tests

Examples:

LDL CHOLESTEROL

LDL CHOLESTEROL, PASCO

LDL, DIREC

NOTE: The reminder definition "LDL" finding contains the condition "I+V>0." The "+" causes the result to be treated as a number. If it's only text, it will treat it as a zero. This condition can be added to the reminder term also, if desired, but it isn't necessary.

Select Reminder Term Management Option: **TE** Reminder Term Edit

Select Reminder Term: **LDL**

1	LDL	NATIONAL
2	LDL <120	NATIONAL
3	LDL >119	NATIONAL

CHOOSE 1-3: 1 LDL NATIONAL

Select FINDING ITEM: **LT.LDL**

Searching for a LABORATORY TEST, (pointed-to by FINDING ITEM)

Searching for a LABORATORY TEST

This is the local finding that is mapped to the national term. Note that it must use a prefix (LT for Lab test, HF for Health Factor, etc.).

```

1   LDL CHOLESTEROL
2   LDL-CHOL CALCULATION
3   LDL/HDL RATIO
CHOOSE 1-3: 1   LDL CHOLESTEROL
Are you adding 'LDL CHOLESTEROL' as a new FINDING TERM)? No// Y (Yes)
EFFECTIVE PERIOD: <Enter>
USE INACTIVE PROBLEMS: NO
WITHIN CATEGORY RANK: <Enter>
EFFECTIVE DATE: <Enter>
MH SCALE: <Enter>
CONDITION:
CONDITION CASE SENSITIVE: <Enter>
RX TYPE: <Enter>
Select FINDING ITEM: <Enter>

Input your edit comments.
Edit? NO// <Enter>

```

It isn't necessary to enter an Effective Period when mapping terms, as this is already in the reminder definition. Enter an Effective Period only if you want to override the entry in the definition.

Enter the CONDITION here, if desired.

Defining the CONDITION:

Two LDL laboratory test reminder terms need a CONDITION value added to the finding:
 LDL >119 should have a CONDITION of “I V>119” (not in quotes) (*See example below*)
 LDL <120 should have a CONDITION of “(I V<120)&(V>0)” (not in quotes) (*See example below*)

The condition is on the reminder definition if you forget, but the CONDITION should also be added to the CONDITION field in the mapped finding items. This will allow the reminder term to stand alone, without requiring the reminder definition to further define what the term represents.

The CONDITION is not mandatory on all finding items mapped to reminder terms. The CONDITION field needs to be defined for laboratory finding items requiring additional logic to identify positive and negative results. The CONDITION for a finding item mapped to a Reminder Term must be written in M code based on very specific Boolean formatting (e.g., I V[“POS”). If the finding value is text, enclose the Boolean logic comparison value in quotes (e.g., "positive"). If the finding value is numeric, do not use quotes. Use VA FileMan Help for a detailed explanation of the CONDITION field. For details about allowed CONDITIONS for each finding item, see the *Clinical Reminders Manager Manual*.

LDL >119 Mapping Example

No tests are distributed for this term. Add direct and calculated LDL test names. The Reminder definition has a CONDITION of I V>119. Add this condition for the individual findings in the reminder term also.

```

Select Reminder Term Management Option: TE   Reminder Term Edit
Select Reminder Term: LDL >119
Select FINDING ITEM: LT.LIPIDS, QUALITATIVE
Are you adding 'LIPIDS, QUALITATIVE' as a new FINDINGS (the 1ST for this REMINDER TERM)? No// Y
(Yes)
EFFECTIVE PERIOD: 1Y
USE INACTIVE PROBLEMS: N NO
WITHIN CATEGORY RANK: <Enter>

```

```

EFFECTIVE DATE: T (NOV 29, 2001)
MH SCALE: <Enter>
CONDITION: I V>119
CONDITION CASE SENSITIVE: <Enter>
RX TYPE: <Enter>
Select FINDING ITEM: <Enter>
Input your edit comments.
Edit? NO// <Enter>
Select Reminder Term: <Enter>

```

Enter the
CONDITION
here.

LDL <120 Mapping Example

```

Select Reminder Term: LDL <120      NATIONAL
Select FINDING ITEM: LT.LDL
    Searching for a LABORATORY TEST, (pointed-to by FINDING ITEM)
    Searching for a LABORATORY TEST
    1 LDL CHOLESTEROL
    2 LDL-CHOL CALCULATION
    3 LDL/HDL RATIO
CHOOSE 1-3: 1 LDL CHOLESTEROL
Are you adding 'LDL CHOLESTEROL' as a new FINDINGS (the 1ST for this REMINDER
TERM)? No// Y (Yes)
EFFECTIVE PERIOD: <Enter>
USE INACTIVE PROBLEMS: <Enter>
WITHIN CATEGORY RANK: <Enter>
EFFECTIVE DATE: <Enter>
MH SCALE: <Enter>
CONDITION: I (V<120) & (+V>0)
CONDITION CASE SENSITIVE:
RX TYPE: <Enter>
Select FINDING ITEM: <Enter>
Input your edit comments.
Edit? NO//<Enter>

```

Example: Mapping Terms with Health Factors

LIPID LOWERING THERAPY MGMT - 6M

Use the health factors distributed with this reminder term or enter any local health factors or other findings that should defer the reminder for 6 months. Health Factors distributed with this reminder term are:

NO CHANGE IN IHD LIPID TREATMENT
OTHER DEFER ELEVATED LDL THERAPY
LIPID MGMT PROVIDED OUTSIDE

Add Local health factor: ELEVATED HEPATIC ENZYMES

```

Select Reminder Term Management Option: TE Reminder Term Edit
Select Reminder Term: LIPID LOWERING THERAPY MGMT - 6M
Select FINDING ITEM: LIPID MGMT PROVIDED OUTSIDE// <Enter>
    FINDING ITEM: LIPID MGMT PROVIDED OUTSIDE// <Enter>
    EFFECTIVE PERIOD:
Select FINDING ITEM: HF.ELEVATED HEPATIC ENZYMES
Are you adding ' HF.ELEVATED HEPATIC ENZYMES' as a new FINDINGS (the 4th for this
REMINDER TERM)? No// Y (Yes)
EFFECTIVE PERIOD: 1Y
USE INACTIVE PROBLEMS: N NO
WITHIN CATEGORY RANK: <Enter>
EFFECTIVE DATE: T (APR 29, 2002)

```

```

MH SCALE: <Enter>
CONDITION:
CONDITION CASE SENSITIVE: <Enter>
RX TYPE: <Enter>
Select FINDING ITEM: <Enter>
Input your edit comments.
Edit? NO// <Enter>
Select Reminder Term: <Enter>

```

Example: Mapping Drug Findings

LIPID LOWERING MEDS

Enter the formulary drug names for investigation drugs.

Mapping non-investigative formulary drugs to the VA-GENERIC drugs in the Pharmacy Package will ensure the lipid lowering agents are found. The medications are informational findings for this reminder.

Examples:

NIACIN	CHOLESTYRAMINE	LOVASTATIN
PRAVASTATIN	SIMVASTATIN	FLUVASTATIN
ATORVASTATIN	FENOFIBRATE	CERIVASTATIN
COLESEVELAM	COLESTIPOL	CLOFIBRATE GEMFIBROZIL

```

Finding Item:  SIMVASTATIN  (FI(10)=DG(2708))
Finding Type:  VA GENERIC
Effective Period:  OD
Rx Type:  BOTH

```

Effective Period: the amount of time the finding will remain valid.

BOTH: inpatient & outpatient medications

Example: Mapping LIPID PROFILE ORDERABLE

This term is not distributed with any mappings. Enter orderable items for lipid panels that include LDL tests (calculated LDL and direct LDL). The orderable items are informational findings for this reminder. The order will not resolve the reminder, but it will display in the clinical maintenance. Ideally, the clinician will look at the clinical maintenance display to avoid entering duplicate orders. This reminder term is not used in the resolution logic since the future order could be far in the future. (Copy this reminder and add LIPID PROFILE ORDERABLE to the resolution findings if you want the next due date to be calculated based on the future date the order is to be done. NOTE: This may be a problem if your site allows lab ordering far into the future; e.g., 6 months. **SEE THE CAUTION ON PAGE 33.**)

Local Findings Examples:

Finding Item: LDL, DIRECT (FI(1)=OI(2463))

Finding Type: ORDERABLE ITEM

Finding Item: CARDIAC PROFILE, PASCO (FI(2)=OI(7397))

Finding Type: ORDERABLE ITEM

Finding Item: CARDIAC RISK PANEL (FI(3)=OI(6873))

Finding Type: ORDERABLE ITEM

Lipid Profile Mapping Example

```
Select Reminder Term Management Option: TE  Reminder Term Edit
Select Reminder Term: Lipid Profile Orderable
Select FINDING ITEM: OI.LIP
    Searching for a ORDERABLE ITEM, (pointed-to by FINDING ITEM)
    Searching for a ORDERABLE ITEM

    1  LIPASE
    2  LIPID PHENOTYPE EVAL.
    3  LIPID PROFILE
    4  LIPIDS, QUALITATIVE
    5  LIPIDS, TOTAL

Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5: 3  LIPID PROFILE
Are you adding 'LIPID PROFILE' as a new FINDINGS (the 1ST for this REMINDER
TERM)? No// Y  (Yes)
EFFECTIVE PERIOD: <Enter>
USE INACTIVE PROBLEMS: <Enter>
WITHIN CATEGORY RANK: <Enter>
EFFECTIVE DATE: <Enter>
MH SCALE: <Enter>
CONDITION: <Enter>
CONDITION CASE SENSITIVE: <Enter>
RX TYPE: <Enter>
```

4. **Run the Reminder Test option after term definition mapping is completed.**
Review the results of patient data with each of the findings mapped to the term.
Option: Reminders Test on the Reminder Managers Menu

```
Select Reminder Managers Menu Option: RT  Reminder Test
Select Patient: APPLESEED, JOHNNY      4-30-44      466680999      YES      EMPLOYEE
Enrollment Priority: GROUP 5      Category: IN PROCESS      End Date:

Select Reminder: VA-IHD LIPID PROFILE      NATIONAL

The elements of the FIEV array are:
FIEV(1)=1
FIEV(1,"CODEP")=2500
FIEV(1,"DATE")=3000328.2121
FIEV(1,"FINDING")=14;PXD(811.2,
FIEV(1,"SOURCE")=2094;AUPNVPOV
FIEV(1,"TERM")=IHD DIAGNOSIS^^^3010723
FIEV(1,"VIEN")=3898
FIEV(2)=0
FIEV(3)=0
FIEV(4)=0
FIEV(5)=0
FIEV(6)=1
FIEV(6,"DATE")=3011119.1534
FIEV(6,"FINDING")=82;AUTTHF(
FIEV(6,"LEVEL")=
FIEV(6,"SOURCE")=448;AUPNVHF(
FIEV(6,"TERM")=OUTSIDE LDL >129^^^3011113
FIEV(6,"VALUE")=
FIEV(6,"VIEN")=5370
FIEV(7)=0
FIEV(8)=1
FIEV(8,"DATE")=3011119.1534
FIEV(8,"FINDING")=85;AUTTHF(
FIEV(8,"LEVEL")=
FIEV(8,"SOURCE")=450;AUPNVHF(
FIEV(8,"TERM")=REFUSED LIPID PROFILE^^^3011022
```

NOTE: See the Clinical Reminders Manager Manual for descriptions of the different elements of the test output.

```

FIEV(8,"VALUE")=
FIEV(8,"VIEN")=5370
FIEV(9)=0
FIEV(10)=0
FIEV(12)=0
FIEV(13)=0
FIEV(14)=0
FIEV("DFN")=37
FIEV("PATIENT AGE")=57

```

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

```

^TMP(PXRMD,$J,70,"FINDING 12 NOT_FOUNDB")=No active lipid lowering agents on file.
^TMP(PXRMD,$J,70,"FINDING 2 NOT_FOUNDB")=Patient with IHD and no LDL lab results on file in
the past year.
^TMP(PXRMD,$J,70,"HEALTH FACTOR OUTSIDE LDL >129")=11/19/2001 Health Factor: OUTSIDE LDL
>129
^TMP(PXRMD,$J,70,"HEALTH FACTOR REFUSED LIPID PROFILE")=11/19/2001 Health Factor: REFUSED
LIPID PROFILE
^TMP(PXRMD,$J,70,"ICD9VPOV 411.1","CODE")=411.1
^TMP(PXRMD,$J,70,"ICD9VPOV 411.1","DATE")=3000328.2121
^TMP(PXRMD,$J,70,"ICD9VPOV 411.1","DIAG")=INTERMED CORONARY SYND
^TMP(PXRMD,$J,70,"ICD9VPOV 411.1","PN")=Angina pectoris, unstable
^TMP(PXRMD,$J,70,"PATIENT COHORT LOGIC")=1^FI(1)&($$MAX^PXRMLLOGF("FI(1,"DATE")"
)>$$MAX^PXRMLLOGF("FI(10,"DATE")")^1&($$MAX^PXRMLLOGF("3000328.2121")>$$MAX^PXRMLLOGF(""))
^TMP(PXRMD,$J,70,"REMINDER NAME")=IHD Lipid Profile
^TMP(PXRMD,$J,70,"RESOLUTION LOGIC")=1^(0)!FI(2)!FI(3)!FI(4)!FI(5)!FI(6)!FI(7)!
FI(8)!FI(9)^(0)!0!0!0!0!1!0!1!0
^TMP(PXRMD,$J,70,"WARNING","DIAT")=Warning no do in advance time
^TMP(PXRMD,$J,70,"WARNING","NOFI")=Warning no findings items in reminder term L
IPID PROFILE ORDERABLE
^TMP(PXRMD,$J,70,"zFREQARNG")=Due every 6 months for all ages

```

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

```

^TMP("PXRHM",$J,70,"IHD Lipid Profile")=RESOLVED^3020521.1534^3011119.1534
^TMP("PXRHM",$J,70,"IHD Lipid Profile","TXT",1)=
^TMP("PXRHM",$J,70,"IHD Lipid Profile","TXT",2)=Applicable: Due every 6 months for all ages
within cohort.
^TMP("PXRHM",$J,70,"IHD Lipid Profile","TXT",3)=Reminder Term: IHD DIAGNOSIS
^TMP("PXRHM",$J,70,"IHD Lipid Profile","TXT",4)=03/28/2000 Encounter Diagnosis:
411.1 INTERMED CORONARY SYND
^TMP("PXRHM",$J,70,"IHD Lipid Profile","TXT",5)= Prov. Narr. - Angina pectoris,
unstable
^TMP("PXRHM",$J,70,"IHD Lipid Profile","TXT",6)=
^TMP("PXRHM",$J,70,"IHD Lipid Profile","TXT",7)=Resolution: Last done 11/19/2001
^TMP("PXRHM",$J,70,"IHD Lipid Profile","TXT",8)=Patient with IHD and no LDL lab
results on file in the past year.
^TMP("PXRHM",$J,70,"IHD Lipid Profile","TXT",9)=Reminder Term: OUTSIDE LDL >129
^TMP("PXRHM",$J,70,"IHD Lipid Profile","TXT",10)=11/19/2001 Health Factor: OUTSIDE LDL >129
^TMP("PXRHM",$J,70,"IHD Lipid Profile","TXT",11)=Reminder Term: REFUSED LIPID PROFILE
^TMP("PXRHM",$J,70,"IHD Lipid Profile","TXT",12)=11/19/2001 Health Factor: REFUSED LIPID
PROFILE
^TMP("PXRHM",$J,70,"IHD Lipid Profile","TXT",13)=
^TMP("PXRHM",$J,70,"IHD Lipid Profile","TXT",14)=Information:
^TMP("PXRHM",$J,70,"IHD Lipid Profile","TXT",15)=No active lipid lowering agents on file.

```

5. Use the Reminder Dialog options to edit the national (exported) dialogs.

Once you have mapped the local findings to the national terms, you can then decide if you want to continue to use your local findings as the data elements that are captured, or if you want to use the national findings that are already mapped to the national terms.

If you want to continue to use your local findings, then be sure to edit the reminder dialog by identifying the element that allows for that data element to be collected. Change the finding item for that element to the local finding. The national reminders and dialogs can

only be changed by changing the finding item in the nationally distributed elements to use your local finding item instead of the nationally distributed one.

Elements are distributed for ordering the lipid panel, liver enzymes, and the drugs most often used in treatment. You must enter quick order names or menus into the reminder dialog as the finding item for these elements, if the ordering functions are to work at your site. If you don't want to use the ordering functions from the reminder dialogs, you will need to copy the national reminder dialog and remove the elements that you don't want to use from the copy.

VA-IHD LIPID PROFILE

Review dialog elements in the national reminder dialog and change any health factors to local health factors, if desired. Refer to the reminder term mapping section for distributed vs. local health factors.

If your site has a Lipid Panel TIU Object, add this TIU Object to the dialog element header text. The Lipid Panel TIU Object should include Chol, Trigly, HDL, LDL-C, and direct LDL values and dates. If your site has developed TIU objects to display lipid panel results, we recommend adding these before the dashed line in the dialog header.

Add the Order Dialog entries to the Dialog elements used for ordering a calculated LDL and/or direct LDL.

The OTHER DEFER LIPID PROFILE term is where sites can add items such as "Life Expectancy < 1 year", "Life Expectancy < 6 months" that they may be collecting.

Some sites have clinicians order a consult to send to a service that corrects unconfirmed diagnoses the clinician finds in a patient's record. If your site has this method in place, copy the reminder dialog to a local reminder dialog and add the existing dialog element to the reminder dialog so that this practice can continue.

Steps to add or edit dialog elements:

- a. Select Dialog management (DM) from the Reminders Manager Menu, then select Dialog (DI):

- b. Use the Search List (SL) action to get to the IHD–named dialogs, then enter the number of the reminder.

Dialog List		Mar 22, 2002@09:30:16		Page: 12 of 14	
REMINDER VIEW (ALL REMINDERS BY NAME)					
+Item	Reminder Name	Linked Dialog Name & Dialog Status			
188	VA-IHD ELEVATED LDL	VA-IHD ELEVATED LDL			
189	VA-IHD LIPID PROFILE	VA-IHD LIPID PROFILE			
190	VA-INFLUENZA VACCINE	VA-INFLUENZA VACCINE			Disabled
191	VA-MAMMOGRAM				
192	VA-MST SCREENING	VA-MST SCREENING			
193	VA-NATIONAL EPI LAB EXTRACT				
194	VA-NATIONAL EPI RX EXTRACT				
195	VA-NUTRITION/OBESITY EDUCATION				
196	VA-PAIN SCREENING	VA-PAIN SCREEN AND HX			
197	VA-PAP SMEAR				
198	VA-PNEUMOVAX	VA-PNEUMOVAX			
199	VA-PPD	VA-PPD			Disabled
200	VA-PSA	VA-PSA			
201	VA-QUERI REPORT IHD ELEVATED LDL				
202	VA-QUERI REPORT LIPID STATUS				
203	VA-SEATBELT EDUCATION	VA-SEATBELT EDUCATION			Disabled
+ + Next Screen - Prev Screen ?? More Actions >>>					
AR	All reminders	LR	Linked Reminders	QU	Quit
CV	Change View	RN	Name/Print Name		
Select Item: Next Screen// 189					

- c. Select the dialog number to see details.

Dialog Selection List		Mar 22, 2002@09:30:16		Page: 1 of 1	
REMINDER NAME: VA-IHD LIPID PROFILE					
Item Dialog Name		Latest Update		Linked Reminders	
This reminder is linked to dialog:					
1 VA-IHD LIPID PROFILE		VA-IHD LIPID PROFILE			
+ + Next Screen - Prev Screen ?? More Actions >>>					
AD Autogenerate Dialog		QU Quit			
LR Link Reminder					
Select Item: Quit// 1					
1	5	VA-IHD LIPID PROFILE HEADER		element	
		Finding: *NONE*			
2	10	VA-IHD LIPID ORDER GROUP		group	
		Finding: *NONE*			
3	10.5	VA-IHD FASTING LIPID ORDERED		element	
		Finding: *NONE*			
4	10.10	VA-IHD DIRECT LDL ORDERED		element	
		Finding: *NONE*			
5	15	VA-IHD LIPID DONE ELSEWHERE GROUP		group	
		Finding: *NONE*			
6	15.10	VA-IHD LIPID <100 DONE ELSE		element	
		Finding: OUTSIDE LDL <100 (HEALTH FACTOR)			
7	15.15	VA-IHD LIPID 100-119 DONE ELSE		element	
		Finding: OUTSIDE LDL 100-119 (HEALTH FACTOR)			

```

Select Item: Next Screen//      NEXT SCREEN
8    15.20 VA-IHD LIPID 120-129 DONE ELSE                      element
      Finding: OUTSIDE LDL 120-129 (HEALTH FACTOR)
9    15.25 VA-IHD LIPID >129 DONE ELSE                        element
      Finding: OUTSIDE LDL >129 (HEALTH FACTOR)

10   20    VA-IHD LIPID REFUSED                                element
      Finding: REFUSED LIPID PROFILE (HEALTH FACTOR)

11   25    VA-IHD LIPID OTHER DEFER                           element
      Finding: OTHER DEFER LIPID PROFILE (HEALTH FACTOR)

12   30    VA-IHD SPACER                                       element
      Finding: *NONE*

DP   Progress Note Text    INQ Inquiry/Print
Select Item: Next Screen// <Enter>  NEXT SCREEN

Dialog Edit List                               Mar 22, 2002@09:30:16      Page: 3 of 3
REMINDER DIALOG NAME: VA-IHD LIPID PROFILE [NATIONAL]
+Item  Seq.      Dialog Details/Findings                                     Type
13     35      VA-IHD UNCONFIRMED DIAGNOSIS                               element
      Finding: UNCONFIRMED IHD DIAGNOSIS (HEALTH FACTOR)

+      + Next Screen  - Prev Screen  ?? More Actions  >>>
CO   Copy Dialog      DT   Dialog Text      RI   Reminder Inquiry
DD   Detailed Display  ED   Edit/Delete Dialog  QU   Quit
DP   Progress Note Text  INQ Inquiry/Print
Select Item: Quit//

```

d. Select the Item # of the dialog element you wish to add or edit a finding for.

- At some sites, clinicians order a consult that corrects unconfirmed diagnoses the clinician finds in a patient's record. If your site has this method in place, copy the reminder dialog to a local reminder dialog, and add the existing dialog element to the reminder dialog, so that this practice can continue.

CAUTION: Add the ORDER LIPID PROFILE health factor as an additional finding to Dialog Elements for lipid orders *if* your site wants the lipid order to satisfy the reminder for 1 month from the date the order is placed. Otherwise, the reminder will be satisfied when the lab results for LDL are entered into Vista.

EXAMPLE: Below is a VISN 12 screen capture of adding the health factor to the dialog that is in use at Hines. Use option “DI” Reminder Dialogs [PXRMDIALOG/COMPONENT EDIT]. You’ll need to “CV” (change view) to “E” for elements, and then locate VA-IHD FASTING LIPID ORDERED. In this example, that corresponds to ELEMENT item #583.

You may also need to do the same to the element called “VA-IHD DIRECT LDL ORDERED” if you are using the exported dialog. The number 583 is Hines-specific – it will likely be different at other sites.

```
Select Item: Next Screen// 583
Dialog Name:  VA-IHD FASTING LIPID ORDERED

CURRENT DIALOG ELEMENT/GROUP NAME: VA-IHD FASTING LIPID ORDERED
Used by:  HINES VA-IHD LIPID ORDER GROUP (Dialog Group)
         VA-IHD LIPID ORDER GROUP (Dialog Group)
         VA-IHD LIPID/ALT/AST ORDER GROUP (Dialog Group)

FINDING ITEM: 80061//
Select ADDITIONAL FINDINGS: LRT LIPID PROFILE SERUM SST
// HF.ORDER LIPID PROFILE

    Searching for a HEALTH FACTORS, (pointed-to by ADDITIONAL FINDINGS)

    Searching for a HEALTH FACTORS
ORDER LIPID PROFILE
...OK? Yes//    (Yes)

Select ADDITIONAL FINDINGS:
Input your edit comments.
Edit? NO// YES

Adding ORDER LIPID PROFILE health factor per email discussion.
```

VA-IHD ELEVATED LDL

- If your site has a Lipid Panel and AST/ALT TIU Object, add this TIU Object to the dialog element header text. The TIU Object should include Chol, Trigly, HDL, LDL-C, direct LDL, AST, and ALT values and dates. If your site has developed TIU objects to display these lab tests, we recommend adding these before the dashed line in the dialog header.
- Add the Order Dialog entries to the Dialog elements used for ordering a calculated LDL and/or direct LDL, and AST/ALT.
- The VA-IHD LIPID LOWER AGENT ORDER GROUP contains a sampling of orders related to starting the patient on lipid lowering medication, which includes future lab orders to monitor liver function and lipid levels. The distributed group contains:
 - Order Simvastatin -- Note: Sites using a different first-line lipid lowering agent should replace Simvastatin with that medication (e.g., Pravastatin).
 - Order baseline LFTs today (if not available w/in past year).
 - Order LFTs in 60 days after starting therapy.
 - Order fasting Lipid Profile in 60 days.
- The dialog elements in the VA-IHD LIPID LOWER AGENT ORDER GROUP need to have order dialogs added that represent the level of order detail,
or
- Remove the dialog elements from the group and add an order dialog menu or order dialog items that will help the clinician place the initial lipid lowering medications.
- The VA-IHD LIPID LOWER AGENT ADJUST GROUP contains a dialog element that recommends using the meds tab to cancel old and order new medications. It also includes dialog elements for future lab orders to monitor liver function and lipid levels.

NOTE: Use the Meds tab to discontinue the current lipid agent and order a new lipid agent.

- Order LFTs today (if not available within the past year).
- Order LFTs in 60 days after starting therapy.
- Order fasting Lipid Profile in 60 days.
- The dialog elements for lab orders in the VA-IHD LIPID LOWER AGENT ADJUST GROUP are the same as the VA-IHD LIPID LOWER AGENT ORDER GROUP. The dialog elements in the dialog group need to have order dialogs added that represent the level of order detail, or remove the dialog elements from the group and add an order dialog menu or order dialog items that will help the clinician place new lipid-lowering medications.

- Review dialog elements in the national reminder dialog and change any health factors to local health factors—refer to the reminder term mapping for distributed vs. local health factors.
- At some sites, clinicians order a consult to send to a service, which corrects unconfirmed diagnoses the clinician finds in a patient's record. If your site has this method in place, copy the reminder dialog to a local reminder dialog and add the existing dialog element to the reminder dialog so this practice can continue.

Dialog Selection List		Mar 22, 2002@09:30:16	Page: 1 of 1
REMINDER NAME: VA-IHD ELEVATED LDL			
Item	Dialog Name	Latest Update	Linked Reminders
This reminder is linked to dialog:			
1	VA-IHD ELEVATED LDL		VA-IHD ELEVATED LDL BACKUP-IHD ELEVATED L
<div> <div>+</div> <div>+ Next Screen</div> <div>- Prev Screen</div> <div>?? More Actions</div> <div>>>></div> </div>			
AD	Autogenerate Dialog	QU	Quit
LR	Link Reminder		
Select Item: Quit// 1			
1	5	VA-IHD ELEVATED LDL HEADER	element
		Finding: *NONE*	
2	10	VA-IHD LIPID LOWER AGENT ORDER GROUP	group
		Finding: LIPID LOWERING MEDS INITIAL ORDER (HEALTH FACTOR)	
3	10.5	VA-IHD SIMVASTATIN ORDERED	element
		Finding: *NONE*	
4	10.10	VA-IHD ORDER BASELINE LFTS TODAY	element
		Finding: *NONE*	
5	10.15	VA-IHD ORDER FUTURE LFTS 60 DAYS	element
		Finding: *NONE*	
6	10.20	VA-IHD ORDER FUTURE LIPID PROFILE 60 DAYS	element
		Finding: *NONE*	
7	15	VA-IHD LIPID LOWER AGENT ADJUST GROUP	group
		Finding: LIPID LOWERING MEDS ADJUSTED (HEALTH FACTOR)	
DP		Progress Note Text	INQ Inquiry/Print
Select Item: Next Screen//NEXT SCREEN			
8	15.5	VA-IHD LIPID LOWER AGENT ADJUST TEXT	element
		Finding: *NONE*	
9	15.10	VA-IHD ORDER BASELINE LFTS TODAY	element
		Finding: *NONE*	
10	15.15	VA-IHD ORDER FUTURE LFTS 60 DAYS	element
		Finding: *NONE*	
11	15.20	VA-IHD ORDER FUTURE LIPID PROFILE 60 DAYS	element
		Finding: *NONE*	
12	20	VA-IHD LIPID TREATMENT NO CHANGE	element
		Finding: NO CHANGE IN IHD LIPID TREATMENT (HEALTH FACTOR)	
13	25	VA-IHD LIPID MEDS CONTRAINDICATED	element
		Finding: LIPID MEDS CONTRAINDICATED (HEALTH FACTOR)	
14	30	VA-IHD LIPID LOWER AGENT ELSEWHERE	element
DP		Progress Note Text	INQ Inquiry/Print
Select Item: Next Screen// NEXT SCREEN			

		Finding: LIPID MGMT PROVIDED OUTSIDE (HEALTH FACTOR)	
15	35	VA-IHD SPACER Finding: *NONE*	element
16	40	VA-IHD LIPID DONE ELSEWHERE <120 GROUP Finding: *NONE*	group
17	40.5	VA-IHD LIPID DONE ELSEWHERE TEXT Finding: *NONE*	element
18	40.10	VA-IHD LIPID <100 DONE ELSE Finding: OUTSIDE LDL <100 (HEALTH FACTOR)	element
19	40.15	VA-IHD LIPID 100-119 DONE ELSE Finding: OUTSIDE LDL 100-119 (HEALTH FACTOR)	element
20	45	VA-IHD LIPID/ALT/AST ORDER GROUP Finding: *NONE*	group
DP Progress Note Text INQ Inquiry/Print			
Select Item: Next Screen//NEXT SCREEN			
21	45.5	VA-IHD FASTING LIPID ORDERED Finding: *NONE*	element
22	45.10	VA-IHD DIRECT LDL ORDERED Finding: *NONE*	element
23	45.15	VA-IHD ALT/AST ORDERED Finding: *NONE*	element
24	50	VA-IHD ELEVATED LDL REFUSED Finding: REFUSED ELEVATED LDL THERAPY (HEALTH FACTOR)	element
25	55	VA-IHD ELEVATED LDL OTHER DEFER Finding: OTHER DEFER ELEVATED LDL THERAPY (HEALTH FACTOR)	element
26	60	VA-IHD SPACER Finding: *NONE*	element
Select Item: Next Screen// <Enter> NEXT SCREEN			
Dialog Edit List Mar 22, 2002@09:30:16 Page: 5 of 5			
REMINDER DIALOG NAME: VA-IHD ELEVATED LDL [NATIONAL]			
+Item	Seq.	Dialog Details/Findings	Type
	27	65 VA-IHD UNCONFIRMED DIAGNOSIS Finding: UNCONFIRMED IHD DIAGNOSIS (HEALTH FACTOR)	element
+ + Next Screen - Prev Screen ?? More Actions >>>			
CO	Copy Dialog	DT	Dialog Text
DD	Detailed Display	ED	Edit/Delete Dialog
DP	Progress Note Text	INQ	Inquiry/Print
Select Item: Quit//			

6. Verify that the reminders function properly.

- Run a Reminders Due Report to determine if the IHD Clinical Reminder statuses reported are correct.

Option: Reminders Due on the Reminder Reports menu

This report can be displayed at the beginning of the day for patients being seen that day. Reminder reports offer a way to review how the mapping and the local data will

potentially be viewed by the extracts that will be sent to the Austin database from the reminders.

- Each of the reminders can be used in a reminder report to evaluate clinics or stop codes on their adherence/compliance with that reminder.
- The reports can be run to list individual patient names for chart review on reasons that the guideline was not or could not be achieved.
- Clinics, stop codes, or divisions can be identified by summary reports using these reminders where there are differences in compliance or poor adherence to the guideline.

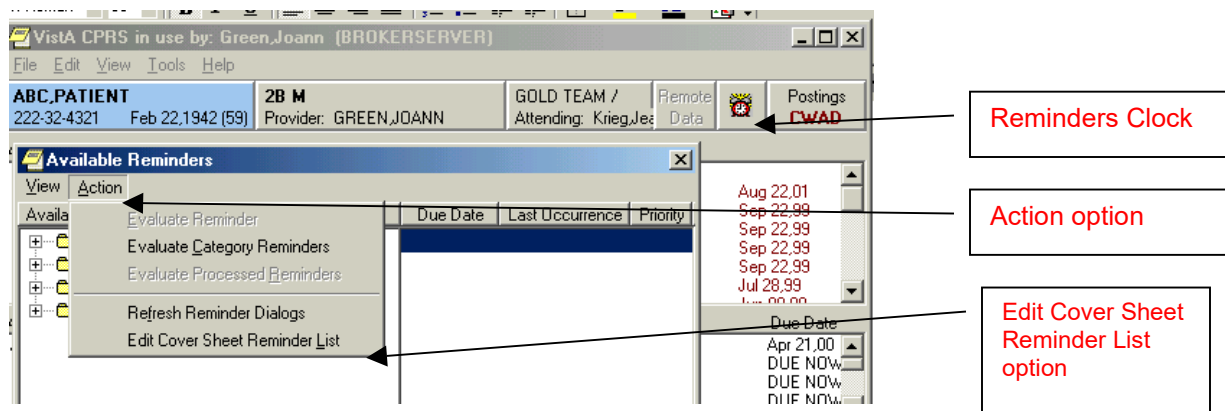
b. Use the Reminder Test option to test the reminders.

Option: Reminders Test on the Reminder Management menu

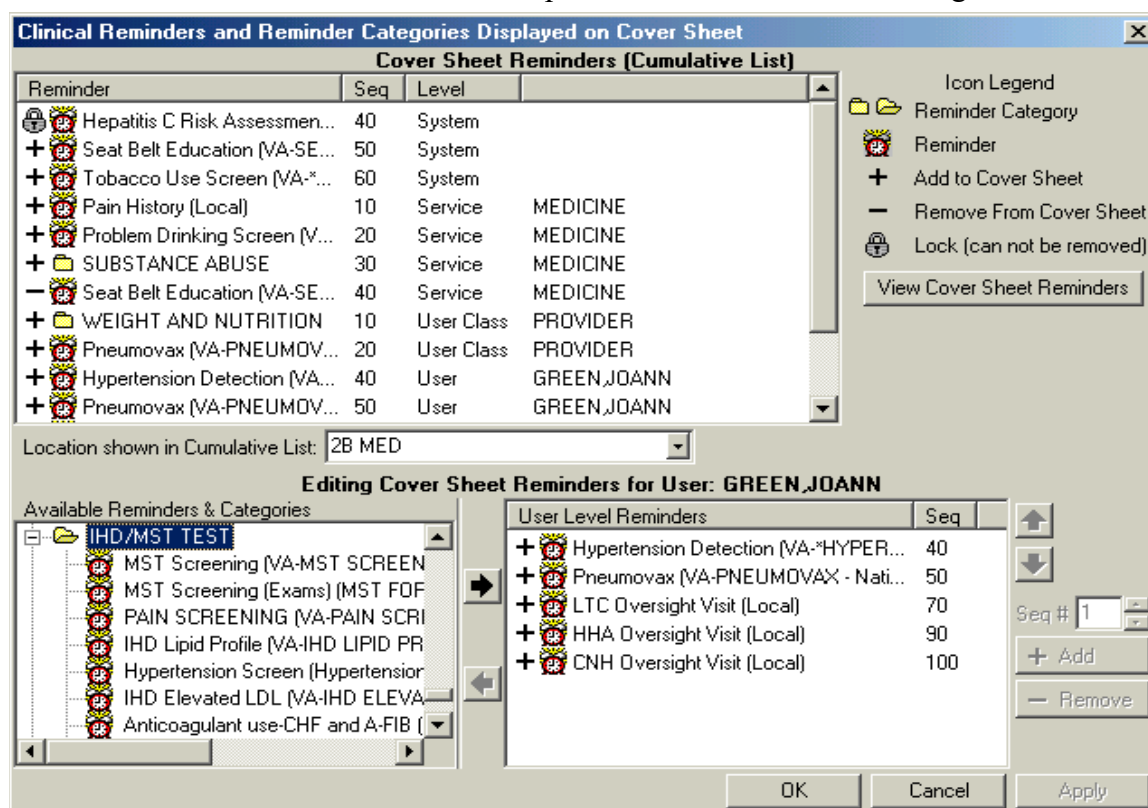
- 1) Select a patient who has an IHD diagnosis and an LDL test done within the last year, and using the Reminder Test option, run the VA-IHD LIPID PROFILE reminders for this patient. The status of the reminder should be “DONE.”
- 2) Select a patient who has an IHD diagnosis and has not had an LDL test done within the last year, and using the Reminder Test option, run the VA-IHD LIPID PROFILE reminders for this patient. The status of the reminder should be “DUE.”
- 3) Select a patient who does not have an IHD diagnosis. Run the VA-IHD LIPID PROFILE and VA-IHD ELEVATED LDL reminders for this patient. The status of both the reminders should be “NOT APPLICABLE” (even if they have an LDL).
- 4) Select a patient who has an IHD diagnosis and an LDL test done within the last year, where the LDL <120, and using the Reminder Test option, run the VA-IHD ELEVATED LDL reminders for this patient. The status of the reminder should be “Not Applicable.”
- 5) Select a patient who has an IHD diagnosis and an LDL test done within the last year, where the LDL > 119, and using the Reminder Test option, run the VA-IHD ELEVATED LDL reminders for this patient. The status of the reminder should be “DUE.”

7. Add the nationally distributed reminder dialogs to the CPRS Cover Sheet

- VA-IHD LIPID PROFILE
 - VA-IHD ELEVATED LDL
- a. Open a patient chart, click on the reminders clock, and when the available Reminders window opens, click on Action, and then select “Edit Cover Sheet Reminder List.”

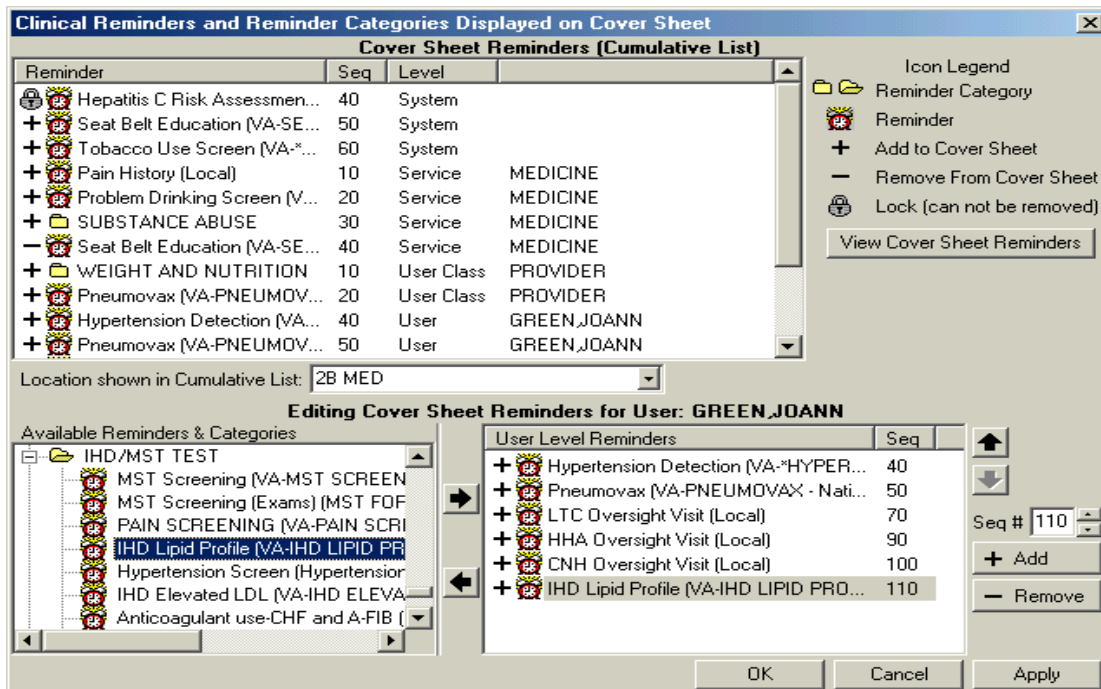


b. When the Cover Sheet Reminder List opens, find the IHD-named dialogs.



c. Click on the IHD Lipid Profile dialog and click the Add button (or double-click the dialog).

d. Click on the IHD Elevated LDL dialog and click the Add button (or double-click the dialog).



8. Verify that the dialogs function properly

Test the IHD Reminder dialogs in CPRS, using either the exported dialogs or your locally created dialogs. Using point-and-click reminder resolution processing through CPRS GUI, verify the following:

- Correct Progress Note text is posted
- Finding Item gets sent to PCE
- Reminder is satisfied

Check the Clinical Maintenance component display in CPRS after testing dialogs to ensure all activities tested are reflected in the clinical maintenance display.

Steps to test dialogs:

1. On the cover sheet, click on the Reminders icon.
2. Click on reminders in the Reminders box to see details of a reminder
3. Open the Notes tab and select New Note. Enter a title.
4. Open the Reminders drawer and review the contents. Comment on what you see and what you expect. Try opening and closing folders.
5. Locate the VA-IHD LIPID PROFILE reminder dialog and open it.

Reminder Resolution: IHD Lipid Profile

The VHA/DOD Clinical Practice Guideline for Management of Dyslipidemia recommends that patients with Ischemic Heart Disease have a lipid profile/LDL every one to two years; and that patients taking lipid lowering medications have a lipid profile/LDL at least every year.

Click on the 'Clinical Maint' button below to display IHD diagnosis, lab results and current lipid lowering medications.

☐ Order lipid profile.
☐ Outside lipid profile in past year at another VA or non-VA facility.
☐ Patient refuses lipid profile testing.
☐ Defer lipid profile.
☐ Unable to confirm diagnosis of Ischemic Heart Disease. Inactivate IHD reminders.

Clear Clinical Maint Visit Info < Back Next > Finish Cancel

CLINICAL REMINDER ACTIVITY

IHD Elevated LDL:
Patient reports a more recent outside LDL <120.

<No encounter information entered>

* Indicates a Required Field

6. In the dialog box, check relevant actions.

Reminder Resolution: IHD Lipid Profile

Patients with Ischemic Heart Disease should have a lipid profile every one to two years. Those taking a lipid agent should have a lipid profile at least every year. The DOD/VHA Clinical Practice Guideline for the Management of Dyslipidemia recommends a LDL goal of <120 mg/dl for patients with IHD.

Click on the 'Clinical Maint' button below to display IHD diagnosis, lab results and current lipid lowering medications.

☒ Order lipid profile.
 ☒ Order Fasting lipid profile with calculated LDL
 ☐ Order Direct LDL
☐ Outside lipid profile in past year at another VA or non-VA facility.
☐ Patient refuses lipid profile testing.
☐ Defer lipid profile.
☐ Unable to confirm diagnosis of Ischemic Heart Disease. Inactivate IHD reminders.

Clear Clinical Maint Visit Info < Back Next > Finish Cancel

GREEN NOTES

IHD Lipid Profile:
Ordered fasting lipid profile with calculated LDL.

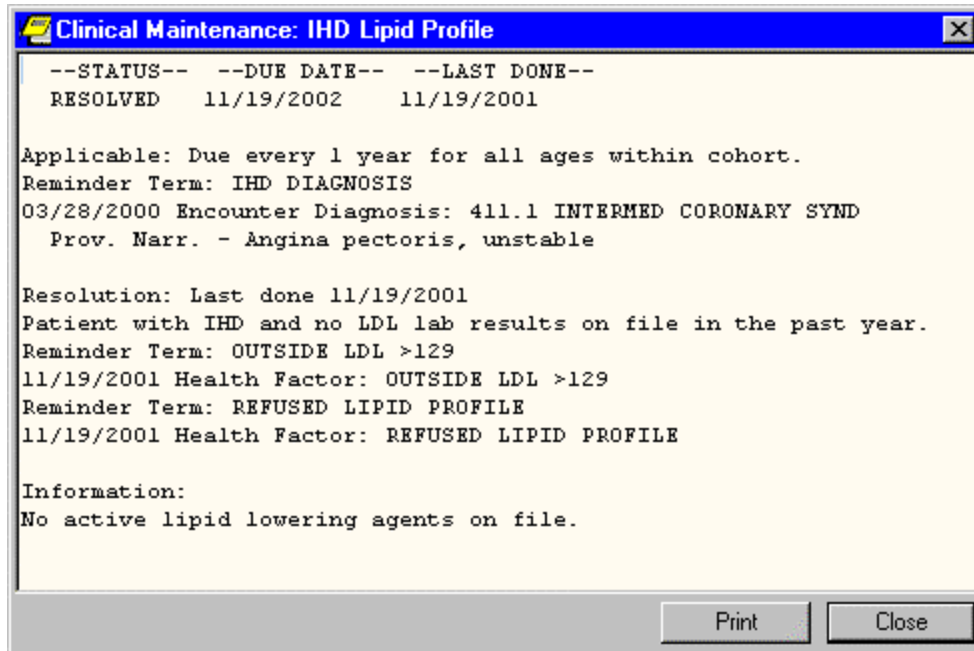
<No encounter information entered>

* Indicates a Required Field

7. Finish the reminder processing.

8. Review the text added to the note to assure its correctness.

9. Ensure that the reminder can be satisfied by the individual finding items that were mapped to the reminder terms.
10. Check the Clinical Maintenance component display in Health Summaries and CPRS after the reminder dialog is complete.



11. Locate the VA-IHD ELEVATED LDL reminder dialog and open it.

Reminder Resolution: IHD Elevated LDL

The DOD/VHA Clinical Practice Guideline for the Management of Dyslipidemia recommends a LDL goal of <120 mg/dL for patients with IHD. Consider initiating or adjusting lipid lowering treatment.

Click on 'Clinical Maint' button below to display IHD Diagnosis, LDL lab results and current lipid lowering medications.

☐ Order initial lipid lowering medication.
☐ Adjust lipid lowering medication(s).
☐ No lipid treatment change is needed based on patient's current status.
☐ Lipid lowering medications are contraindicated.
☐ Lipid lowering management provided by another VA or non-VA facility.

☐ Patient reports a more recent outside LDL <120.
☐ Order lipid profile or LFTs.
☐ Patient refuses lipid lowering therapy.
☐ Defer lipid lowering medications

<No encounter information entered>

* Indicates a Required Field

12. In the dialog box, check relevant actions.

Reminder Resolution: IHD Elevated LDL

The DOD/VHA Clinical Practice Guideline for the Management of Dyslipidemia recommends a LDL goal of <120 mg/dL for patients with IHD. Consider initiating or adjusting lipid lowering treatment.

Click on 'Clinical Maint' button below to display IHD Diagnosis, LDL lab results and current lipid lowering medications.

☒ Order initial lipid lowering medication.
☐ Order Simvastatin
☒ Order baseline LFTs today (if not available w/in past year).
☐ Order LFTs in 60 days after starting therapy.
☐ Order fasting Lipid Profile in 60 days.
☐ Adjust lipid lowering medication(s).
☐ No lipid treatment change is needed based on patient's current status.
☐ Lipid lowering medications are contraindicated.
☐ Lipid lowering management provided by another VA or non-VA facility.

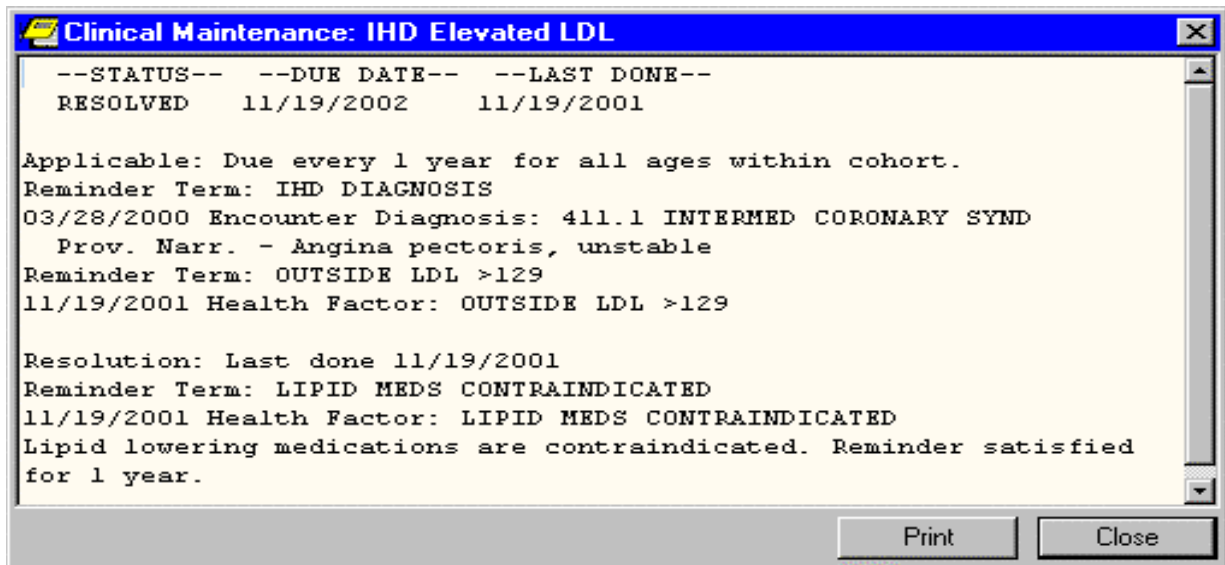
GREEN NOTES
IHD Elevated LDL:
Ordered baseline LFTs today.

Health Factors: **LIPID LOWERING MEDS INITIAL ORDER**

* Indicates a Required Field

13. Finish the reminder processing.

14. Review the text added to the note to assure its correctness.
15. Ensure that the reminder can be satisfied by the individual finding items that were mapped to the reminder terms.
16. Check the Clinical Maintenance component display in Health Summaries and CPRS after the reminder dialog is complete.



Q & A – Helpful Hints

Q: What diagnoses are used to define “IHD” for these reminders?

A: ICD-9 codes 410.0-412 and 414.0-414.9, which include the following diagnoses: acute myocardial infarction, old myocardial infarction, post MI syndrome, and coronary atherosclerosis.

Q: Why are health factors for outside LDL levels included in these reminders?

A: Capture of outside (historical) lab results is important in the management of veterans with IHD. Some veteran patients choose to receive health care from both VA as well as private health care providers (co-managed care). Other veterans seek seasonal care at VA sites other than their “home” VA.

Q: Are there restrictions on the drugs we can order?

A: Check with your local VA site regarding the formulary medication choices available for lipid management.

Q: What is a National Reminder?

A: National reminders are clinical reminders and reminder dialogs that have gone through an approval process for national distribution. Some national reminders are related to statutory, regulatory, or Central Office mandates such as Hepatitis C, MST, or Pain. Other national reminders are being developed under the guidance of the VA Clinical Practice Guideline Council.

Guideline-related reminders are being developed for two reasons:

1. To provide reminders for sites that don’t have reminders in place for a specific guideline (e.g., HTN, HIV).
2. To provide a basic set of reminders to all sites to improve clinical care, and also allow roll-up data for measurement of guideline implementation and adherence (e.g., IHD, Mental Health).

Q: How can we check parameters to see if anyone sees the reminder?

A: The simplest way to view whether an individual is seeing the IHD reminders is to open the reminder cover sheet editor by clicking on the reminder clock in CPRS, picking *** and then choosing “Edit Cover Sheet Reminders.” A button on the dialog allows you to view the entire list of reminders that are seen by an individual user.

From the listing above, you can determine "where" the reminder that a user sees actually comes from (System level, Division, Location, User, etc.). You should make a determination as to whether the reminder needs to be added at a specific level in order to be seen by the appropriate group of users.

Any clinicians who see primary care patients or who might need or want to follow or manage LDL values should see the IHD Lipid Profile reminder. In many centers, the nurses who manage or have the ability to enter policy orders should also see this reminder.

The IHD Elevated LDL Reminder should also be seen by these same clinicians and potentially by the nursing staff.

Q: What should we do if we already have an IHD reminder?

A: If you elect to continue to use your local reminder and dialog, you need to make sure that your local health factors and lab tests are mapped appropriately to the national terms.

If you prefer to continue using your local reminder, you need to be absolutely sure that you are collecting all of the data that will eventually be transmitted to the Austin database.

In many cases, it may be safer to switch to using the national reminder or a copy of the national reminder in order to be sure that all of the possible resolutions are being collected locally. There is nothing wrong with abandoning some local health factors or reminders in favor of using the national dialogs and reminders or copies of them. Health factors that you elect to stop collecting in dialogs should be inactivated so that they are not inadvertently entered through PCE.

All patient LDL Reminders

If your site already has an LDL reminder for all patients, the “all patient LDL” reminder and the “IHD Lipid Profile” reminder could become due for the same patient. To eliminate the possibility of redundant reminders showing up, you will need to modify the patient cohort logic in the “all patient LDL reminder” to include:

- The IHD Diagnosis Reminder Term as a finding, with USE IN PATIENT COHORT LOGIC with the AND NOT Boolean operator.

If you have an LDL reminder for Diabetes patients, the redundancy could still occur if the patient also has an IHD Diagnosis. Decide which reminder should take precedence, and add the change above to the reminder definition of the reminder that should *not* become due.

NOTES

The released reminders do not address all possible IHD or lipid management issues.

There is still a need for hyperlipidemia screening reminders and for lipid management reminders for other high-risk populations (e.g. diabetes and vascular disease).

These reminders do not address other important Ischemic Heart Disease performance measures; e.g., Beta blocker use post MI, ASA use post MI.

Other Local Reminder Issues

Modifications in term evaluation logic may change how some reminder terms work. This is only an issue if there are conditions within the term

- Previous logic: date of most recent finding in which the condition is true is passed to the reminder for evaluation
- New logic: Most recent finding in the term is used and then condition applied and results passed to the reminder for evaluation.

Implications of term logic changes:

- Terms that combine lab tests will always pass forward the most recent result
- Terms that combine dissimilar findings (immunizations, medications and orderable items) may not behave as they did before.

Term Logic Change Example

A term combining various ways to document influenza immunizations:

Finding Item: INFLUENZA ICD &CPT CODES FI(5)=TX(664003))
Finding Type: REMINDER TAXONOMY

Finding Item: INFLUENZA (FI(9)=IM(12))
Finding Type: IMMUNIZATION

Finding Item: INFLUENZA (FI(10)=DG(141))
Finding Type: VA GENERIC
Effective Period: 1Y

Finding Item: INFLUENZA INJ (FI(11)=OI(2892))
Finding Type: ORDERABLE ITEM
Condition: I V="complete"

1. An immunization administered in November 2001 and documented in the PCE immunization file.
2. An order placed (orderable item) for an immunization that was not completed.

Old Logic	New Logic
The more recent orderable item is incomplete and doesn't meet the condition.	The most recent finding is the orderable item
The reminder is satisfied by the "im" finding which is true	The orderable item does not meet the condition and the term reports a "false".
The reminder is satisfied	The reminder is due

Hints for Successful Term Mapping

1. Review any reminders related to lipid management that already exist on your system. You may have lipid management reminders for all patients, diabetes patients, or patients with IHD.
2. List any health factors or data elements being collected in the local reminders.
3. Find any lab tests that represent an LDL level—currently in use or used in the past year.
4. Go through each reminder term listed in the reminder definitions and enter each of the local findings (health factors and lab tests) that match up with the reminder term.
5. Then, take your lists of local findings and make sure that each one is matched up to at least one reminder term.
6. Then, check each reminder term and make sure that there is at least one finding in each term that is being used in a dialog.

Appendices

Appendix A: IHD Reminder Descriptions

Appendix B: IHD Dialog Descriptions

Appendix C: IHD Reminder Term Descriptions

Appendix D: IHD Reminder Taxonomy Descriptions

Appendix E: IHD Reminder Health Factors

Appendix F: Abbreviated Setup Steps

Appendix G: Modifying Reminders and Dialogs for a More Stringent LDL Value

Appendix A: IHD Reminder Definitions

Background:

The PXR*1.5*8 patch contains two new national IHD reminders for clinicians documenting interventions for lipid management of patients with known Ischemic Heart Disease (IHD). The IHD QUERI Workgroup and the Office of Information (OI) System Design & Development (SDD) Clinician Desktop Group developed the clinical reminders.

A central data repository at the Austin Automation Center is being developed to house guideline compliance totals for the data captured from these IHD clinical reminders. This database will provide facility-level quarterly summary reports for the IHD lipid management performance measures. A second set of IHD national reporting reminders will roll up compliance data to the central data repository with a future patch.

VA-IHD LIPID PROFILE

Applicable

- Patients with known IHD
- ICD-9 410-412 or 414 on or after 10/01/99
- Inpatient primary diagnosis, outpatient diagnosis, problem list

The reminder is not applicable if there is more recent documentation that the IHD diagnosis is unconfirmed

Resolution

- Completed LDL (or documented outside LDL) - 12 mo
- Patient refuses lipid testing - 6 mo
- Provider defers lipid testing – 6 mo
- Ordering a lipid profile/LDL (health factor) – 1 mo

REMINDER DEFINITION INQ IRY	Apr 04, 2002 4: 7:37 pm	Page 1

VA-IHD LIPID PROFILE	No. 70	

Print Name:	IHD Lipid Profile	
Class:	NATIONAL	
Sponsor:	Office of Quality & Performance	
Review Date:		
Usage:	CPRS	
Related VA-* Reminder:		
Reminder Dialog:	VA-IHD LIPID PROFILE	

Priority:

Reminder Description:

The VHA/DOD Clinical Practice Guideline for Management of Dyslipidemia recommends that patients with Ischemic Heart Disease have a lipid profile/LDL every one to two years; and that patients taking lipid lowering medications have a lipid profile/LDL at least every year.

This national reminder identifies patients with known IHD (i.e., a documented ICD-9 code for IHD on or after 10/01/99) who have not had a serum lipid panel within the last year. If a more recent record of an UNCONFIRMED IHD DIAGNOSIS is found, the reminder will not be applicable to the patient.

A completed LDL lab test (calculated LDL or direct LDL) or documented outside LDL satisfies the reminder for 12 months.

A documented order lipid profile health factor satisfies the reminder for 1 month.

A patient's refusal to have an LDL level drawn satisfies the reminder for 6 months.

Deferring the lipid profile for other reasons satisfies the reminder for 6 months.

Technical Description:

This reminder is recommended for use by clinicians at Primary Care Clinics (Primary Care/Medicine, GIMC, Geriatric, Women's), Cardiology, Cholesterol Screening and any other specialty clinics where primary care is given.

The reminder goes beyond the IHD/Module 8: MI Ambulatory Care Follow-up LDL-C EPRP Performance Measure, by including more than the 412 diagnostic codes.

Setup issues before using this reminder:

1. Use the Reminder Term options to map local representations of findings:

IHD DIAGNOSIS

No mapping necessary. Use the VA-ISCHEMIC HEART DISEASE reminder taxonomy distributed with this term.

UNCONFIRMED IHD DIAGNOSIS

Use the UNCONFIRMED IHD DIAGNOSIS health factor distributed with this term or add any local health factor representing an unconfirmed or incorrect IHD diagnosis.

LDL

Enter the Laboratory Test names from the Lab Package for calculated LDL and direct LDL without a CONDITION.

For the following OUTSIDE LDL Reminder Terms, use the health factors distributed with the reminder term or enter the local Health Factor used to represent these values.

OUTSIDE LDL <100
OUTSIDE LDL 100-119
OUTSIDE LDL 120-129
OUTSIDE LDL >129

ORDER LIPID PROFILE HEALTH FACTOR

Use the health factor distributed with this term or add

any local health factor representing the order action. Do not add orderable items to this reminder term (see LIPID PROFILE ORDERABLE). This represents the date the order was placed, not the date the order will be done in the future. The order placement will cause the reminder to be resolved for 1 month. (Alternatively, copy this reminder and add LIPID PROFILE ORDERABLE to the resolution findings if you want the next due date to be calculated based on the future date the order is to be done.)

LIPID PROFILE ORDERABLE

Enter orderable items for lipid panels that include LDL tests (calculated LDL and direct LDL). The orderable items are informational findings for this reminder. The order will not resolve the reminder, but it will display in the clinical maintenance. Ideally, the clinician will look at the clinical maintenance display to avoid entering duplicate orders. This reminder term is not used in the resolution logic since the future order could be for a long distance in the future. (Copy this reminder and add LIPID PROFILE ORDERABLE to the resolution findings if you want the next due date to be calculated based on the future date the order is to be done.)

OTHER DEFER LIPID PROFILE

Enter any local health factors or other findings that should defer the reminder for 6 months. For example, "LIFE EXPECTANCY < 6M".

REFUSED LIPID PROFILE

Use the health factor distributed with this term or add any local health factor representing refusal of lipid profile test.

LIPID LOWERING MEDS

Enter the formulary drug names for investigation drugs. Mapping non-investigative formulary drugs to the VA-GENERIC drugs will ensure the lipid lowering medications are found. The medications are informational findings for this reminder.

2. Use the Reminder Dialog edit option to define the national reminder dialog finding items which should be updated during CPRS GUI reminder processing.

Add local Order Dialog entries to the Dialog elements used for ordering a calculated LDL and/or direct LDL.

Review dialog elements in the national reminder dialog and change any national health factors to local health factors, if necessary. It is not unusual for local findings to be used in your national dialogs. Any local findings used in the national dialogs should be mapped to the appropriate national reminder term.

3. Alternatively, use the Reminder Dialog options to copy the national dialog, dialog elements, and dialog groups to make local changes.

If your site has a Lipid Panel TIU Object, add this TIU Object to the local dialog element header text. The TIU Object should include Chol, Trigly, HDL, LDL-C, Direct LDL values and dates.

Add local dialog elements with local Order Dialogs for additional ordering options for the clinicians. Some sites have clinicians order a consult to a service that corrects unconfirmed diagnoses the clinician finds in a patient's record. If your site has this method in place, copy the reminder dialog to a local reminder dialog and then add the local dialog element for the consult order to the reminder dialog so this practice can continue.

Edit History:

Baseline Frequency:

Do In Advance Time Frame: Wait until actually DUE
Sex Specific:
Ignore on N/A:
Frequency for Age Range: 1 year for all ages
Match Text:
No Match Text:

Findings:

Finding Item: IHD DIAGNOSIS (FI(1)=RT(27))
Finding Type: REMINDER TERM
Use in Patient Cohort Logic: AND
Effective Date: OCT 01, 1999
Use Inactive Problems: N
Not Found Text: Patient has no IHD Diagnosis on file.

Finding Item: LDL (FI(2)=RT(32))
Finding Type: REMINDER TERM
Use in Resolution Logic: OR
Condition: I +V>0
Not Found Text: Patient with IHD and no LDL lab results on file
in the past year.

Finding Item: OUTSIDE LDL <100 (FI(3)=RT(35))
Finding Type: REMINDER TERM
Use in Resolution Logic: OR
Effective Period: 1Y

Finding Item: OUTSIDE LDL 100-119 (FI(4)=RT(34))
Finding Type: REMINDER TERM
Use in Resolution Logic: OR
Effective Period: 1Y

Finding Item: OUTSIDE LDL 120-129 (FI(5)=RT(52))
Finding Type: REMINDER TERM
Use in Resolution Logic: OR
Effective Period: 1Y

Finding Item: OUTSIDE LDL >129 (FI(6)=RT(36))
Finding Type: REMINDER TERM
Use in Resolution Logic: OR
Effective Period: 1Y

Finding Item: ORDER LIPID PROFILE HEALTH FACTOR (FI(7)=RT(61))
Finding Type: REMINDER TERM
Use in Resolution Logic: OR
Effective Period: 1M

Finding Item: REFUSED LIPID PROFILE (FI(8)=RT(40))
Finding Type: REMINDER TERM
Use in Resolution Logic: OR

```

Effective Period: 6M

    Finding Item: OTHER DEFER LIPID PROFILE    (FI(9)=RT(41))
    Finding Type: REMINDER TERM
Use in Resolution Logic: OR
    Effective Period: 6M
    Found Text: The lipid profile is deferred for 6 months.

    Finding Item: UNCONFIRMED IHD DIAGNOSIS    (FI(10)=RT(42))
    Finding Type: REMINDER TERM
    Match Frequency/Age: 1 year for all ages
Use in Patient Cohort Logic: AND NOT

    Finding Item: LIPID LOWERING MEDS    (FI(12)=RT(54))
    Finding Type: REMINDER TERM
    Effective Period: 90D
    Not Found Text: No active lipid lowering agents on file.

    Finding Item: LIPID PROFILE ORDERABLE    (FI(14)=RT(39))
    Finding Type: REMINDER TERM

General Patient Cohort Found Text:

General Patient Cohort Not Found Text:

General Resolution Found Text:

General Resolution Not Found Text:

Customized PATIENT COHORT LOGIC to see if the Reminder applies to a patient:
    FI(1) & (MRD(FI(1)) > MRD(FI(10)))

Expanded Patient Cohort Logic:
    FI(IHD DIAGNOSIS) & (MRD(FI(IHD DIAGNOSIS)) >
    MRD(FI(UNCONFIRMED IHD DIAGNOSIS)))

Default RESOLUTION LOGIC defines findings that resolve the Reminder:
    FI(2)!FI(3)!FI(4)!FI(5)!FI(6)!FI(7)!FI(8)!FI(9)

Expanded Resolution Logic:
    FI(LDL)!FI(OUTSIDE LDL <100)!FI(OUTSIDE LDL 100-119)!
    FI(OUTSIDE LDL 120-129)!FI(OUTSIDE LDL >129)!
    FI(ORDER LIPID PROFILE HEALTH FACTOR)!FI(REFUSED LIPID PROFILE)!
    FI(OTHER DEFER LIPID PROFILE)

Web Sites:

    Web Site URL:
    http://www.oqg.med.va.gov/cpg/DL/dl_cpg/algo4frameset.htm

    Web Site Title:  VHA/DoD CPG for Dyslipidemia

    The VHA/DoD CPG for Management of Dyslipidemia is a comprehensive guideline
    incorporating current information and practices for practitioners
    throughout the DoD and Veterans Health Administration system. See Section
    S, Table 3b for reference to LDL<120 in the Guideline.

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VA-IHD ELEVATED LDL

Applicable

- Patients with known IHD
- ICD-9 410-412 or 414 on or after 10/01/99
- Inpatient primary diagnosis, outpatient diagnosis, problem list

The reminder is not applicable if there is more recent documentation that the IHD diagnosis is unconfirmed

Resolution

- Ordering initial lipid lowering medications or adjusting current lipid lowering medications (health factor) - 2 mo
- Documenting that no lipid treatment change is needed based on patient's current status- 6 mo
- Documenting that lipid management is provided by another VA or non-VA facility - 6 mo
- Patient refuses lipid lowering therapy or provider defers lipid treatment - 6 mo
- Documenting an outside LDL <120mg/dL - 12 mo
- Documenting that lipid lowering medications are contraindicated – 12 mo

REMINDER DEFINITION INQUIRY	Apr 10, 2002 11:47:48 am	Page 1

VA-IHD ELEVATED LDL	No. 73	

Print Name:	IHD Elevated LDL	
Class:	NATIONAL	
Sponsor:	Office of Quality & Performance	
Review Date:		
Usage:	CPRS	
Related VA-* Reminder:		
Reminder Dialog:	VA-IHD ELEVATED LDL	
Priority:		
Reminder Description:		
The VHA/DOD Clinical Practice Guideline for Management of Dyslipidemia recommends an LDL goal of <120 mg/dl for patients with Ischemic Heart Disease; and the NCEP Adult Treatment Panel II recommends a more stringent goal of <100 mg/dl.		
This national reminder identifies patients with known IHD (i.e., a documented ICD-9 code on or after 10/01/99) who have had a serum lipid panel within the last year, where the most recent LDL lab test (or documented outside LDL) is greater than or equal to 120 mg/dl. If a more recent record of an UNCONFIRMED IHD DIAGNOSIS is found, the reminder will not be applicable to the patient.		
Documenting an outside LDL <120 mg/dl satisfies the reminder for 12 months from the lab test date.		

Ordering initial lipid lowering medications or adjusting current lipid lowering medications satisfies the reminder for 2 months. (This is tracked by Health Factors, not the order.)

A patient's refusal of lipid lowering therapy satisfies the reminder for 6 months.

Documenting that no treatment change is needed based on patient's current clinical status, that lipid management is provided by another VA or non-VA facility, or deferring lipid treatment for other reasons satisfies the reminder for 6 months.

Documenting that lipid lowering medications are contraindicated satisfies the reminder for 12 months.

Technical Description:

This reminder is recommended for use by clinicians at Primary Care Clinics (Primary Care/Medicine, GIMC, Geriatric, Women's), Cardiology, Cholesterol Screening and any other specialty clinics where primary care is given.

The reminder goes beyond the IHD/Module 8: MI Ambulatory Care Follow-up LDL-C EPRP Performance Measure, by including more than the 412 diagnostic codes.

Setup issues before using this reminder:

1. Use the Reminder Term options to map local representations of findings:

IHD DIAGNOSIS

No mapping necessary. Use the VA-ISCHEMIC HEART DISEASE reminder taxonomy distributed with this term.

UNCONFIRMED IHD DIAGNOSIS

Use the UNCONFIRMED IHD DIAGNOSIS health factor distributed with this term or add any local health factor representing an unconfirmed or incorrect IHD diagnosis.

LDL >119

Enter the Laboratory Test names from the Lab Package for calculated LDL and direct LDL with a CONDITION to identify LDL values > 119. Although the condition is defined in the reminder, also define the condition in the term so the term can be used for uses that don't involve the reminder definition. If your site uses comments frequently you may want to change the condition to check for specific text.

LDL <120

Enter the Laboratory Test names from the Lab Package for calculated LDL and direct LDL with a CONDITION to identify LDL values < 120. Although the condition is defined in the reminder, also define the condition in the term so the term can be used for uses that don't involve the reminder definition. If your site uses comments frequently you may want to change the condition to check for specific text.

For the following OUTSIDE LDL Reminder Term representations, use the health factors distributed with the term or map the local

Health Factor used to represent these values:

OUTSIDE LDL <100
OUTSIDE LDL 100-119
OUTSIDE LDL 120-129
OUTSIDE LDL >129

LIPID LOWERING THERAPY MGMT - 2M

Use the health factors distributed with this reminder term or enter any local health factors or other findings that should defer the reminder for 2 months. Health Factors distributed with this reminder term are:

LIPID LOWERING MEDS INITIAL ORDER
LIPID LOWERING MEDS ADJUSTED

LIPID LOWERING THERAPY MGMT - 6M

Use the health factors distributed with this reminder term or enter any local health factors or other findings that should defer the reminder for 6 months. Health Factors distributed with this reminder term are:

NO CHANGE IN IHD LIPID TREATMENT
OTHER DEFER ELEVATED LDL THERAPY
LIPID MGMT PROVIDED OUTSIDE

REFUSED ELEVATED LDL THERAPY

Use the REFUSED ELEVATED LDL THERAPY health factor distributed with this term or add any local health factor representing the patient's refusal to have elevated LDL therapy provided.

LIPID MEDS CONTRAINDICATED

Use the LIPID MEDS CONTRAINDICATED health factor distributed with this term or add any local health factors representing contraindication to lipid lowering medications.

LIPID LOWERING MEDS

Enter the formulary drug names for investigation drugs. Mapping non-investigative formulary drugs to the VA-GENERIC drugs in the Pharmacy Package will ensure the lipid lowering agents are found. The medications are informational findings for this reminder.

TRANFERASE (AST)

This reminder term should already be mapped at your site from the Hepatitis C EPI patch setup. The AST lab test is an informational finding in this reminder.

ALANINE AMINO (ALT)

This reminder term should already be mapped at your site from the Hepatitis C EPI patch setup. The ALT lab test is an informational finding in this reminder.

2. Use the Reminder Dialog edit option to define the national reminder dialog finding items which should be updated during CPRS GUI reminder processing.

Review dialog elements in the national reminder dialog and change any national health factors to local health factors, if necessary. It is not unusual for local findings to be used in your national dialogs. Any local findings used in the national dialogs should be mapped to the appropriate national reminder term.

Review dialog elements in the national reminder dialog and change any health factors to local health factors - refer to the reminder term mapping for distributed vs. local health factors.

Add local Order Dialog items to the Dialog elements used for ordering a calculated LDL and/or direct LDL, and AST/ALT.

Add local Order Dialog items to the Dialog Elements for clinicians to order initial lipid lowering medications or lab work. The dialog group contains a sampling of orders related to starting the patient on lipid lowering medication, which includes future lab orders to monitor liver function and lipid levels. The distributed group contains:

Order Simvastatin -- Note: Sites using a different first line lipid lowering agent should replace Simvastatin with that medication (e.g., Pravastatin), which will require copying the national dialog reminder, and editing the local copy with local dialog elements.

Order baseline LFTs today (if not available w/in past year).
Order LFTs in 60 days after starting therapy.
Order fasting Lipid Profile in 60 days.

The Adjust lipid lowering medication dialog group contains a dialog element that recommends using the meds and order tab to cancel old and order new medications. It also includes dialog elements for future lab orders to monitor liver function and lipid levels.

Order LFTs today (if not available w/in past year).
Order LFTs in 60 days after starting therapy.
Order fasting Lipid Profile in 60 days.

3. Alternatively, use the Reminder Dialog options to copy the national dialog, dialog elements, and dialog groups to make local changes.

If your site has a Lipid Panel and AST/ALT TIU Object, add this TIU Object to the dialog element header text. The TIU Object should include Chol, Trigly, HDL, LDL-C, direct LDL, AST, and ALT values and dates.

Some sites have clinicians order a consult to a service that corrects unconfirmed diagnoses the clinician finds in a patient's record. If your site has this method in place, copy the reminder dialog to a local reminder dialog and then add a local dialog element for the consult order to the reminder dialog so this practice can continue.

Edit History:

Baseline Frequency:

Do In Advance Time Frame: Wait until actually DUE
Sex Specific:
Ignore on N/A:
Frequency for Age Range: 1 year for all ages
Match Text:
No Match Text:

Findings:

Finding Item: IHD DIAGNOSIS (FI(1)=RT(27))
Finding Type: REMINDER TERM

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Use in Patient Cohort Logic: AND
    Effective Date: OCT 01, 1999
    Use Inactive Problems: N
    Not Found Text: Patient has no IHD Diagnosis on file.

    Finding Item: OUTSIDE LDL <100    (FI(3)=RT(35))
    Finding Type: REMINDER TERM
    Match Frequency/Age: 1 year for all ages
Use in Patient Cohort Logic: AND NOT
    Effective Period: 1Y

    Finding Item: OUTSIDE LDL 100-119  (FI(4)=RT(34))
    Finding Type: REMINDER TERM
    Match Frequency/Age: 1 year for all ages
Use in Patient Cohort Logic: AND NOT
    Effective Period: 1Y

    Finding Item: OUTSIDE LDL 120-129  (FI(5)=RT(52))
    Finding Type: REMINDER TERM
Use in Patient Cohort Logic: OR
    Effective Period: 1Y

    Finding Item: OUTSIDE LDL >129    (FI(6)=RT(36))
    Finding Type: REMINDER TERM
Use in Patient Cohort Logic: OR
    Effective Period: 1Y

    Finding Item: LDL >119    (FI(7)=RT(33))
    Finding Type: REMINDER TERM
Use in Patient Cohort Logic: OR
    Effective Period: 1Y
    Condition: I V>119
    Found Text: The most recent lab results document LDL
                greater than or equal to 120 mg/dl.

    Finding Item: LDL <120    (FI(8)=RT(57))
    Finding Type: REMINDER TERM
Use in Patient Cohort Logic: AND NOT
    Effective Period: 1Y
    Condition: I (V<120)&(+V>0)
    Found Text: The most recent lab results document LDL less
                than 120 mg/dl.

    Finding Item: LIPID LOWERING THERAPY MGMT - 2M    (FI(9)=RT(58))
    Finding Type: REMINDER TERM
Use in Resolution Logic: OR
    Effective Period: 2M
    Found Text: Lipid lowering management underway. Reminder
                satisfied for 2 months.

    Finding Item: LIPID LOWERING THERAPY MGMT - 6M    (FI(10)=RT(59))
    Finding Type: REMINDER TERM
Use in Resolution Logic: OR
    Effective Period: 6M
    Found Text: Lipid lowering management underway.  Reminder
                satisfied for 6 months.

    Finding Item: REFUSED ELEVATED LDL THERAPY    (FI(11)=RT(45))
    Finding Type: REMINDER TERM
Use in Resolution Logic: OR
    Effective Period: 6M
    Found Text: Patient refused therapy for elevated LDL.

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Reminder satisfied for 6 months.

Finding Item: LIPID MEDS CONTRAINDICATED (FI(12)=RT(56))
Finding Type: REMINDER TERM
Use in Resolution Logic: OR
Effective Period: 1Y
Found Text: Lipid lowering medications are contraindicated.
Reminder satisfied for 1 year.

Finding Item: UNCONFIRMED IHD DIAGNOSIS (FI(13)=RT(42))
Finding Type: REMINDER TERM
Use in Patient Cohort Logic: AND NOT

Finding Item: LIPID LOWERING MEDS (FI(14)=RT(54))
Finding Type: REMINDER TERM
Effective Period: 90D

Finding Item: TRANSFERASE (AST) (SGOT) (FI(15)=RT(8))
Finding Type: REMINDER TERM

General Patient Cohort Found Text:

General Patient Cohort Not Found Text:

General Resolution Found Text:

General Resolution Not Found Text:

Customized PATIENT COHORT LOGIC to see if the Reminder applies to a patient:
FI(1)&(MRD(FI(1))>MRD(FI(13)))&(FI(5)!FI(6)!FI(7))&
(MRD(FI(5),FI(6),FI(7))>MRD(FI(8),FI(3),FI(4)))

Expanded Patient Cohort Logic:
FI(IHD DIAGNOSIS)&(MRD(FI(IHD DIAGNOSIS))>
MRD(FI(UNCONFIRMED IHD DIAGNOSIS)))&(FI(OUTSIDE LDL 120-129)!
FI(OUTSIDE LDL >129)!FI(LDL >119))&(MRD(FI(OUTSIDE LDL 120-129),
FI(OUTSIDE LDL >129),FI(LDL >119))>MRD(FI(LDL <120),FI(OUTSIDE LDL <100),
FI(OUTSIDE LDL 100-119)))

Default RESOLUTION LOGIC defines findings that resolve the Reminder:
FI(9)!FI(10)!FI(11)!FI(12)

Expanded Resolution Logic:
FI(LIPID LOWERING THERAPY MGMT - 2M)!FI(LIPID LOWERING THERAPY MGMT - 6M)!
FI(REFUSED ELEVATED LDL THERAPY)!FI(LIPID MEDS CONTRAINDICATED)

Web Sites:

Web Site URL:
http://www.oqp.med.va.gov/cpg/DL/dl_cpg/algo4frameset.htm

Web Site Title: VHA/DoD CPG for Dyslipidemia

The VHA/DoD CPG for Management of Dyslipidemia is a comprehensive guideline
incorporating current information and practices for practitioners
throughout the DoD and Veterans Health Administration system. See Section
S, Table 3b for reference to LDL<120 in the Guideline.

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Appendix B: IHD Dialogs

VA-IHD LIPID PROFILE

REMINDER DIALOG INQUIRY

Mar 21, 2002 5:31:49 pm Page 1

NUMBER: 269

DIALOG NAME: VA-IHD LIPID PROFILE
Type: reminder dialog

Associated reminder:
Class: NATIONAL
Sponsor: Office of Quality & Performance
Review Date:

Edit History:

DIALOG COMPONENTS:

Sequence: 5

Element/Group: VA-IHD LIPID PROFILE HEADER

Text:

The VHA/DOD Clinical Practice Guideline for Management of Dyslipidemia recommends that patients with Ischemic Heart Disease have a lipid profile/LDL every one to two years; and that patients taking lipid lowering medications have a lipid profile/LDL at least every year.

Click on the 'Clinical Maint' button below to display IHD diagnosis, lab results and current lipid lowering medications.

Sequence: 10

Element/Group: VA-IHD LIPID ORDER GROUP

Text:

Sequence: 20

Element/Group: VA-IHD LIPID REFUSED

Text: Patient refuses lipid profile testing.

Sequence: 35

Element/Group: VA-IHD UNCONFIRMED DIAGNOSIS

Text:

Unable to confirm diagnosis of Ischemic Heart Disease. Inactivate IHD reminders.

Sequence: 15

Element/Group: VA-IHD LIPID DONE ELSEWHERE GROUP

Text:

Sequence: 30

Element/Group: VA-IHD SPACER

Text:

Sequence: 25

Element/Group: VA-IHD LIPID OTHER DEFER

Text: Defer lipid profile.

Reminder Dialog: VA-IHD LIPID PROFILE

IHD Lipid Profile Dialog box 1: This is the way the reminder dialog looks when it is presented to the clinician, with no items selected.

If your site has a Lipid Panel TIU Object, add this TIU Object to the local dialog element header text. The Lipid Panel TIU Object should include Chol, Trigly, HDL, LDL-C, and direct LDL values and dates.

Notice the “Click on...” sentence. This allows the reminder to conform to normal CPRS processing, and helps the user get used to using the Clinical Maint button on the screen.

Reminder Resolution: IHD Lipid Profile

The VHA/DOD Clinical Practice Guideline for Management of Dyslipidemia recommends that patients with Ischemic Heart Disease have a lipid profile/LDL every one to two years; and that patients taking lipid lowering medications have a lipid profile/LDL at least every year.

Click on the 'Clinical Maint' button below to display IHD diagnosis, lab results and current lipid lowering medications.

- ☐ Order lipid profile.
- ☐ Outside lipid profile in past year at another VA or non-VA facility.
- ☐ Patient refuses lipid profile testing.
- ☐ Defer lipid profile.

- ☐ Unable to confirm diagnosis of Ischemic Heart Disease. Inactivate IHD reminders.

Clear Clinical Maint Visit Info < Back Next > Finish Cancel

CLINICAL REMINDER ACTIVITY
IHD Elevated LDL:
Patient reports a more recent outside LDL <120.

<No encounter information entered>

* Indicates a Required Field

IHD Lipid Profile Dialog box 2:

All items are selected in the dialog to show how the dialogs expand to collect pertinent clinical data.

The “Defer lipid profile testing” item requires a comment.

Reminder Resolution: IHD Lipid Profile

The VHA/DOD Clinical Practice Guideline for Management of Dyslipidemia recommends that patients with Ischemic Heart Disease have a lipid profile/LDL every one to two years; and that patients taking lipid lowering medications have a lipid profile/LDL at least every year.

Click on the 'Clinical Maint' button below to display IHD diagnosis, lab results and current lipid lowering medications.

☒ Order lipid profile.

- ☒ Order Fasting lipid profile with calculated LDL
- ☐ Order Direct LDL

☒ Outside lipid profile in past year at another VA or non-VA facility.

- ☐ Outside LDL <100 mg/dL
- ☐ Outside LDL 100-119 mg/dL
- ☐ Outside LDL 120-129 mg/dL
- ☐ Outside LDL >129 mg/dL

☒ Patient refuses lipid profile testing. Comment:

☒ Defer lipid profile.

Comment: *

☒ Unable to confirm diagnosis of Ischemic Heart Disease. Inactivate IHD reminders.

Comment:

Clear Clinical Maint Visit Info < Back Next > Finish Cancel

GREEN NOTES

IHD Lipid Profile:

Ordered fasting lipid profile with calculated LDL.

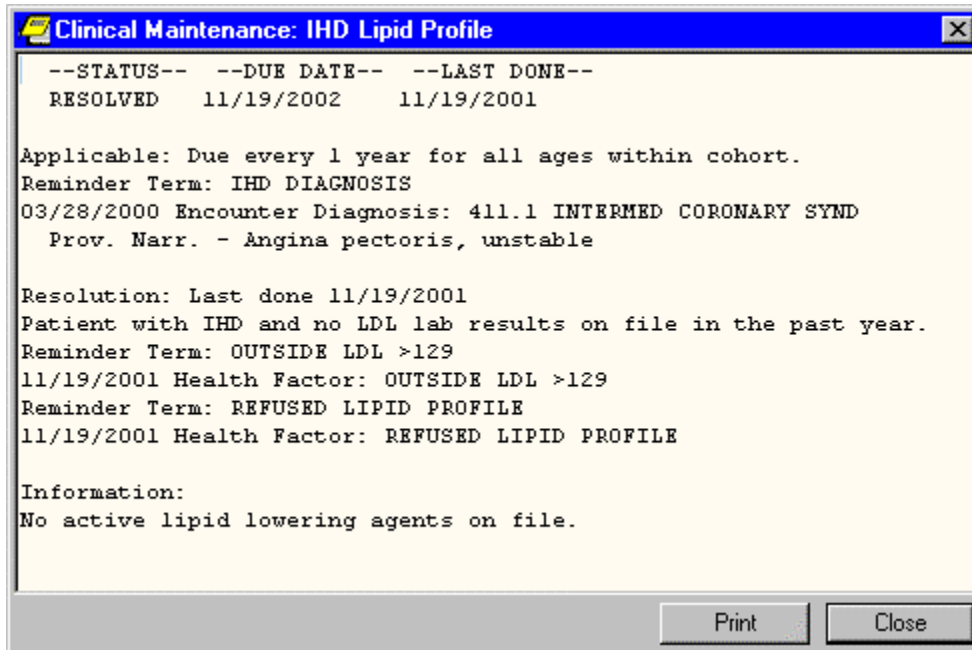
Outside lipid profile in past year at another VA or non-VA facility.

Health Factors: **OTHER DEFER LIPID PROFILE, REFUSED LIPID PROFILE, UNCONFIRMED IHD DIAGNOSIS**

* Indicates a Required Field

Clinical Maintenance Box

The Clinical Maintenance displays IHD Diagnosis, LDL lab results, lipid lowering medications, and other findings found by the reminder evaluation.



Clinical Maintenance: IHD Lipid Profile

--STATUS--	--DUE DATE--	--LAST DONE--
RESOLVED	11/19/2002	11/19/2001

Applicable: Due every 1 year for all ages within cohort.
Reminder Term: IHD DIAGNOSIS
03/28/2000 Encounter Diagnosis: 411.1 INTERMED CORONARY SYND
Prov. Narr. - Angina pectoris, unstable

Resolution: Last done 11/19/2001
Patient with IHD and no LDL lab results on file in the past year.
Reminder Term: OUTSIDE LDL >129
11/19/2001 Health Factor: OUTSIDE LDL >129
Reminder Term: REFUSED LIPID PROFILE
11/19/2001 Health Factor: REFUSED LIPID PROFILE

Information:
No active lipid lowering agents on file.

Print Close

VA-IHD ELEVATED LDL

REMINDER DIALOG INQUIRY

Mar 21, 2002 5:32:28 pm Page 1

NUMBER: 389

DIALOG NAME: VA-IHD ELEVATED LDL
Type: reminder dialog

Associated reminder:
Class: NATIONAL
Sponsor:
Review Date:

Edit History:

DIALOG COMPONENTS:

Sequence: 45
Element/Group: VA-IHD LIPID/ALT/AST ORDER GROUP
Text:

Sequence: 5
Element/Group: VA-IHD ELEVATED LDL HEADER
Text:

The VHA/DOD Clinical Practice Guideline for Management of Dyslipidemia recommends an LDL goal of <120 mg/dl for patients with Ischemic Heart Disease; and the NCEP Adult Treatment Panel II recommends a more stringent goal of <100 mg/dl. Consider initiating or adjusting lipid lowering treatment.

Click on 'Clinical Maint' button below to display IHD Diagnosis, LDL lab results and current lipid lowering medications.

Sequence: 65
Element/Group: VA-IHD UNCONFIRMED DIAGNOSIS
Text:

Unable to confirm diagnosis of Ischemic Heart Disease. Inactivate IHD reminders.

Sequence: 55
Element/Group: VA-IHD ELEVATED LDL OTHER DEFER
Text: Defer lipid lowering medications.

Sequence: 10
Element/Group: VA-IHD LIPID LOWER AGENT ORDER GROU
Text:

Sequence: 15
Element/Group: VA-IHD LIPID LOWER AGENT ADJUST GRO
Text:

Sequence: 30
Element/Group: VA-IHD LIPID LOWER AGENT ELSEWHERE
Text:

Lipid lowering management provided by another VA or non-VA facility.

Sequence: 40
Element/Group: VA-IHD LIPID DONE ELSEWHERE <120 GR
Text:

Sequence: 35

Element/Group: VA-IHD SPACER
Text:

Sequence: 60
Element/Group: VA-IHD SPACER
Text:

Sequence: 20
Element/Group: VA-IHD LIPID TREATMENT NO CHANGE
Text:
No lipid treatment change is needed based on patient's current status.

Sequence: 25
Element/Group: VA-IHD LIPID MEDS CONTRAINDICATED
Text: Lipid lowering medications are contraindicated.

Sequence: 50
Element/Group: VA-IHD ELEVATED LDL REFUSED
Text: Patient refuses lipid lowering therapy.

Reminder Dialog: VA-IHD ELEVATED LDL

IHD Elevated LDL box 1: This is the way the reminder dialog looks when it is presented to the clinician, with nothing selected.

If your site has a Lipid Panel and AST/ALT TIU Object, add this TIU Object to the local dialog element header text. The TIU Object should include Chol, Trigly, HDL, LDL-C, Direct LDL, AST, and ALT values and dates.

Notice the “Click on...” sentence. This allows the reminder to conform to normal CPRS processing, and helps the user get used to using the Clinical Maint button on the screen.

Reminder Resolution: IHD Elevated LDL

The VHA/DOD Clinical Practice Guideline for Management of Dyslipidemia recommends an LDL goal of <120 mg/dl for patients with Ischemic Heart Disease; and the NCEP Adult Treatment Panel II recommends a more stringent goal of <100 mg/dl. Consider initiating or adjusting lipid lowering treatment.

Click on 'Clinical Maint' button below to display IHD Diagnosis, LDL lab results and current lipid lowering medications.

- ☐ Order initial lipid lowering medication.
- ☐ Adjust lipid lowering medication(s).
- ☐ No lipid treatment change is needed based on patient's current status.
- ☐ Lipid lowering medications are contraindicated.
- ☐ Lipid lowering management provided by another VA or non-VA facility.
- ☐ Patient reports a more recent outside LDL <120.
- ☐ Order lipid profile or LFTs.
- ☐ Patient refuses lipid lowering therapy.
- ☐ Defer lipid lowering medications.
- ☐ Unable to confirm diagnosis of Ischemic Heart Disease. Inactivate IHD reminders.

Clear Clinical Maint Visit Info < Back Next > Finish Cancel

<No encounter information entered>

* Indicates a Required Field

IHD Elevated LDL Dialog Box 2:

This dialog shows expansion of the first dialog item “Order initial lipid lowering medications,” which includes initial medication and lab test orders that the clinician may want to order for managing elevated lipid results. This group will be based on local order dialogs defined by the sites. Your site’s text could be different from the orders below. Quick orders should be added to the dialog elements.

Reminder Resolution: IHD Elevated LDL

The VHA/DOD Clinical Practice Guideline for Management of Dyslipidemia recommends an LDL goal of <120 mg/dl for patients with Ischemic Heart Disease; and the NCEP Adult Treatment Panel II recommends a more stringent goal of <100 mg/dl. Consider initiating or adjusting lipid lowering treatment.

Click on 'Clinical Maint' button below to display IHD Diagnosis, LDL lab results and current lipid lowering medications.

☒ Order initial lipid lowering medication.

- ☐ Order Simvastatin
- ☒ Order baseline LFTs today (if not available w/in past year).
- ☐ Order LFTs in 60 days after starting therapy.
- ☐ Order fasting Lipid Profile in 60 days.

☐ Adjust lipid lowering medication(s).

☐ No lipid treatment change is needed based on patient's current status.

☐ Lipid lowering medications are contraindicated.

☐ Lipid lowering management provided by another VA or non-VA facility.

☐ Patient reports a more recent outside LDL <120.

☐ Order lipid profile or LFTs.

☐ Patient refuses lipid lowering therapy.

☐ Defer lipid lowering medications.

☐ Unable to confirm diagnosis of Ischemic Heart Disease. Inactivate IHD reminders.

Clear Clinical Maint Visit Info < Back Next > Finish Cancel

GREEN NOTES

IHD Elevated LDL:

Ordered baseline LFTs today.

Health Factors: **LIPID LOWERING MEDS INITIAL ORDER**

* Indicates a Required Field

IHD Elevated LDL Dialog Box 3:

This dialog shows the expansion of the next four dialog items. The “Adjust lipid lowering medications” item gives clinicians a message to remind them to use the meds tab to stop the current lipid agent and order a new lipid agent. Lab test orders that the clinician may want to order for managing elevated lipid results are available from this dialog group. Quick orders should be added to the dialog elements.

The “No lipid treatment change” and “contraindication” items require a comment.

Reminder Resolution: IHD Elevated LDL

The VHA/DOD Clinical Practice Guideline for Management of Dyslipidemia recommends an LDL goal of <120 mg/dl for patients with Ischemic Heart Disease; and the NCEP Adult Treatment Panel II recommends a more stringent goal of <100 mg/dl. Consider initiating or adjusting lipid lowering treatment.

Click on 'Clinical Maint' button below to display IHD Diagnosis, LDL lab results and current lipid lowering medications.

☐ Order initial lipid lowering medication.

☒ Adjust lipid lowering medication(s). Comment:

NOTE: Use "Meds" or "Orders" tab to dc current and order new lipid agent.

☐ Order baseline LFTs today (if not available w/in past year).

☐ Order LFTs in 60 days after starting therapy.

☐ Order fasting Lipid Profile in 60 days.

☒ No lipid treatment change is needed based on patient's current status.

Comment: *

☒ Lipid lowering medications are contraindicated.

Comment: *

☐ Lipid lowering management provided by another VA or non-VA facility.

☐ Patient reports a more recent outside LDL <120.

☐ Order lipid profile or LFTs.

☐ Patient refuses lipid lowering therapy.

☐ Refer lipid lowering medication.

Clear Clinical Maint Visit Info < Back Next > Finish Cancel

GREEN NOTES

IHD Elevated LDL:

Lipid lowering medication(s) adjusted.

No lipid treatment change is needed based on patient's current status.

Health Factors: LIPID LOWERING MEDS ADJUSTED, LIPID MEDS CONTRAINDICATED, NO CHANGE IN IHD LIPID TREATMENT

* Indicates a Required Field

IHD Elevated LDL Dialog Box 4:

This dialog shows the expansion of the remaining dialog items.

The dialog elements that show up under the 'Order lipid profile or LFTs' dialog group need to be changed to include the order dialog entries for the lab specified, or replaced with local dialog elements. Alternatively, sites could remove the dialog elements and replace them with an order dialog menu.

'Defer lipid treatment' is where sites can add items such as "Life Expectancy < 1 year," or "Life Expectancy < 6 months" that they may be collecting.

The "Defer lipid lowering medications" item requires a comment.

Reminder Resolution: IHD Elevated LDL

initiating or adjusting lipid lowering treatment.

Click on 'Clinical Maint' button below to display IHD Diagnosis, LDL lab results and current lipid lowering medications.

☐ Order initial lipid lowering medication.

☐ Adjust lipid lowering medication(s).

☐ No lipid treatment change is needed based on patient's current status.

☐ Lipid lowering medications are contraindicated.

☐ Lipid lowering management provided by another VA or non-VA facility.

☒ Patient reports a more recent outside LDL <120.
Select LDL result and enter date (reported by the patient).

☐ Outside LDL <100 mg/dL

☐ Outside LDL 100-119 mg/dL

☒ Order lipid profile or LFTs.

☐ Order Fasting lipid profile with calculated LDL

☐ Order Direct LDL

☐ Order ALT/AST

☒ Patient refuses lipid lowering therapy. Comment:

☒ Defer lipid lowering medications. Comment: *

☒ Unable to confirm diagnosis of Ischemic Heart Disease. Inactivate IHD reminders.
Comment:

Clear Clinical Maint Visit Info < Back Next > Finish Cancel

GREEN NOTES

IHD Elevated LDL:

Patient reports a more recent outside LDL <120.

Patient refused lipid lowering therapy.

Health Factors: OTHER DEFER ELEVATED LDL THERAPY, REFUSED ELEVATED LDL THERAPY, UNCONFIRMED IHD DIAGNOSIS

* Indicates a Required Field

Clinical Maintenance: IHD Elevated LDL

--STATUS--	--DUE DATE--	--LAST DONE--
RESOLVED	11/19/2002	11/19/2001

Applicable: Due every 1 year for all ages within cohort.
Reminder Term: IHD DIAGNOSIS
03/28/2000 Encounter Diagnosis: 411.1 INTERMED CORONARY SYND
Prov. Narr. - Angina pectoris, unstable
Reminder Term: OUTSIDE LDL >129
11/19/2001 Health Factor: OUTSIDE LDL >129

Resolution: Last done 11/19/2001
Reminder Term: LIPID MEDS CONTRAINDICATED
11/19/2001 Health Factor: LIPID MEDS CONTRAINDICATED
Lipid lowering medications are contraindicated. Reminder satisfied for 1 year.

Print Close

Appendix C: IHD Reminder Term Descriptions

ALANINE AMINO (ALT) (SGPT)

Class: NATIONAL

Date Created: MAY 21,2000

Sponsor: INFECTIOUS DISEASES PROGRAM OFFICE, VAHQ

Review Date:

Description: This term represents serum glutamic-pyruvic transaminase or ALT laboratory tests. Enter the finding items from the Laboratory Test file (#60) that represent the SGPT test.

National terms related to this term.

WKLD CODE file (#64): The national lab test term is Transferase Alanine Amino SGPT.

CPT File (#81) procedure:

CPT code: 84460 SHORT NAME: ALANINE AMINO (ALT) (SGPT)

CPT CATEGORY: CHEMISTRY SOURCE: CPT

EFFECTIVE DATE: JUN 01, 1994 STATUS: ACTIVE

DESCRIPTION: TRANSFERASE;

DESCRIPTION: ALANINE AMINO (ALT) (SGPT)

Lexicon: The CPT code is in the Lexicon term as a Laboratory Procedure term.

Findings:

IHD DIAGNOSIS

Class: NATIONAL

Date Created: JUL 23,2001

Sponsor: Office of Quality & Performance

Review Date:

Description: This term represents patients diagnosed with Ischemic Heart Disease (IHD).

This term is distributed pre-mapped to the VA-ISCHEMIC HEART DISEASE taxonomy. The Active Problem list, Inpatient Primary Diagnosis and Outpatient Encounter Diagnosis are used to search for IHD ICD9 diagnoses.

Findings: VA-ISCHEMIC HEART DISEASE (FI(1)=TX(14))

LDL

Class: NATIONAL

Date Created: OCT 7,2001

Sponsor: Office of Quality & Performance

Review Date:

Description: This national reminder term represents direct and calculated LDL tests. Add local lab test names used for direct LDL and calculated LDL tests in the findings multiple.

Findings:

LDL <120

Class: NATIONAL

Date Created: NOV 28,2001

Sponsor: Office of Quality & Performance

Review Date:

Description: This national reminder term represents laboratory package test results where the LDL result is less than 120 mg/dl. Add the CONDITION (e.g., I (V<120)&(+=0)) to the reminder term CONDITION field for each finding you add.

Findings:

LDL >119

Class: NATIONAL

Date Created: NOV 28,2001

Sponsor: Office of Quality & Performance

Review Date:

Description: This national reminder term represents laboratory package test results where the LDL result is greater than or equal to 120 mg/dl. Add the CONDITION (e.g., I V>119) to the reminder term CONDITION field for each finding you add.

Findings:

LIPID LOWERING MEDS

Class: NATIONAL

Date Created: OCT 7,2001

Sponsor: Office of Quality & Performance

Review Date:

Description: This national reminder term represents lipid lowering medications. It is distributed with VA GENERIC entries. If there are local investigation medications for lipid lowering therapy in your site's formulary that are not mapped to the VA GENERIC drugs, they should be entered as findings for this reminder term.

Findings: CERIVASTATIN (FI(1)=DG(3505))
FLUVASTATIN (FI(2)=DG(3184))
ATORVASTATIN (FI(3)=DG(3382))
LOVASTATIN (FI(4)=DG(2116))
PRAVASTATIN (FI(5)=DG(2689))
SIMVASTATIN (FI(6)=DG(2708))
COLESTIPOL (FI(7)=DG(406))
CHOLESTYRAMINE (FI(8)=DG(1160))
COLESEVELAM (FI(9)=DG(3662))
FENOFIBRATE (FI(10)=DG(3489))
GEMFIBROZIL (FI(11)=DG(968))
CLOFIBRATE (FI(12)=DG(795))
NIACIN (FI(13)=DG(1080))

LIPID LOWERING THERAPY MGMT - 2M

Class: NATIONAL

Date Created: JAN 17,2002

Sponsor: Office of Quality & Performance

Review Date:

Description: This reminder term represents clinicians' actions to manage lipid lowering therapy which require follow-up in 2 months. This is not based on orders or current medications. The actions will, most likely, be represented by health factors. Do not add orders or pharmacy medications as findings for this term.

The LIPID LOWERING MEDS INITIAL ORDER health factor is distributed pre-mapped to this term. This health factor represents the clinician's action taken to order initial levels of lipid lowering agent medications. This health factor is added to the patient's record from the CPRS GUI reminder dialog.

The LIPID LOWERING MEDS ADJUSTED health factor is distributed pre-mapped to this term. This health factor represents the clinician's action taken to adjust the current lipid lowering agent medications. This health factor is added to the patient's record from the CPRS GUI reminder dialog.

Findings: LIPID LOWERING MEDS INITIAL ORDER (FI(1)=HF(660078))
LIPID LOWERING MEDS ADJUSTED (FI(2)=HF(660079))

LIPID LOWERING THERAPY MGMT - 6M

Class: NATIONAL

Date Created: JAN 17,2002

Sponsor: Office of Quality & Performance

Review Date:

Description: This reminder term represents clinician's actions to manage lipid lowering therapy which require follow-up in 6 months.

Do not add orders or pharmacy medications as findings for this term.

The NO CHANGE IN IHD LIPID TREATMENT health factor is distributed pre-mapped to this term. This health factor may be used to represent the clinician's decision to continue with the current IHD LIPID Treatment.

The OTHER DEFER ELEVATED LDL THERAPY health factor is distributed pre-mapped to this term. This health factor may be used to represent reasons why an intervention for elevated LDL therapy is being deferred.

The LIPID MGMT PROVIDED OUTSIDE health factor is distributed pre-mapped to this term. This health factor may be used to indicate the patient is receiving medications from outside the VA, or having lipid management provided outside the VA.

Add any local health factors, such as life-expectancy < 6 months, that your site is using that should defer the lipid lowering management.

Findings: NO CHANGE IN IHD LIPID TREATMENT (FI(1)=HF(660080))

OTHER DEFER ELEVATED LDL THERAPY (FI(2)=HF(84))

LIPID MGMT PROVIDED OUTSIDE (FI(3)=HF(660082))

LIPID MEDS CONTRAINDICATED

Class: NATIONAL

Date Created: OCT 17,2001

Sponsor: Office of Quality & Performance

Review Date:

Description:

Findings: LIPID MEDS CONTRAINDICATED (FI(1)=HF(660081))

LIPID PROFILE ORDERABLE

Class: NATIONAL

Date Created: DEC 24,2001

Sponsor: Office of Quality & Performance

Review Date:

Description: Enter orderable items for lipid panels that include LDL tests (calculated LDL and direct LDL). The orderable items are informational findings for this reminder. The order will not resolve the reminder, but it will display in the clinical maintenance. Ideally, the clinician will look at the clinical maintenance display to avoid entering duplicate orders. This reminder term is not used in the resolution logic since the future order could be for a long distance in the future. (Copy this reminder and add LIPID PROFILE ORDERABLE to the resolution findings if you want the next due date to be calculated based on the future date the order is to be done.)

Findings:

ORDER LIPID PROFILE HEALTH FACTOR

Class: NATIONAL

Date Created: JAN 31,2002

Sponsor: Office of Quality & Performance

Review Date:

Description: Use the health factor distributed with this term or add any local health factor representing the order action.

Do not add orderable items to this reminder term (see LIPID PROFILE ORDERABLE). This represents the date the

order was placed, not the date the order will be done in the future. The order placement will cause the reminder to be resolved for 1 month. (Alternatively, copy this reminder and add LIPID PROFILE ORDERABLE to the resolution findings if you want the next due date to be calculated based on the future date the order is to be done.)
Findings: ORDER LIPID PROFILE (FI(1)=HF(660070))

OTHER DEFER LIPID PROFILE

Class: NATIONAL
Date Created: OCT 22,2001
Sponsor: Office of Quality & Performance
Review Date:
Description: This reminder term is used to represent reasons why the lipid profile test is being deferred. A health factor is distributed pre-mapped to this term. Add any local health factors, such as life-expectancy < 3 months, that your site is using that should defer the lipid profile test.
Findings: OTHER DEFER LIPID PROFILE (FI(1)=HF(83))

OUTSIDE LDL 100-119

Class: NATIONAL
Date Created: SEP 10,2001
Sponsor: Office of Quality & Performance
Review Date:
Description: This national reminder term represents LDL results reported by the patient or outside facility where the result is between 100 and 129. This reminder was originally created for use with the VA-IHD Lipid Profile reminder.
Findings: OUTSIDE LDL 100-119 (FI(1)=HF(79))

OUTSIDE LDL 120-129

Class: NATIONAL
Date Created: SEP 25,2001
Sponsor: Office of Quality & Performance
Review Date:
Description: This term represents patient reported LDL results between 120-129.
Findings: OUTSIDE LDL 120-129 (FI(1)=HF(80))

OUTSIDE LDL <100

Class: NATIONAL
Date Created: NOV 13,2001
Sponsor: Office of Quality & Performance
Review Date:
Description: This national reminder term represents LDL results reported by the patient or outside facility where the result is less than 100. This reminder was originally created for use with the VA-IHD Lipid Profile reminder.
Findings: OUTSIDE LDL <100 (FI(1)=HF(81))

OUTSIDE LDL >129

Class: NATIONAL
Date Created: NOV 13,2001
Sponsor: Office of Quality & Performance
Review Date:
Description: This national reminder term represents LDL results reported by the patient or outside facility where the result is greater than 129. This reminder was originally created for use with the VA-IHD Lipid Profile reminder.
Findings: OUTSIDE LDL >129 (FI(1)=HF(82))

REFUSED ELEVATED LDL THERAPY

Class: NATIONAL
Date Created: OCT 22,2001
Sponsor: Office of Quality & Performance

Review Date:

Description: This term represents the patients refusal to obtain therapy for the elevated LDL. The REFUSED ELEVATED LDL THERAPY health factor is pre-mapped to this reminder term upon distribution. Add local health factors your site may be using to represent this term.

Findings: REFUSED ELEVATED LDL THERAPY (FI(1)=HF(660083))

REFUSED LIPID PROFILE

Class: NATIONAL

Date Created: OCT 22,2001

Sponsor: Office of Quality & Performance

Review Date:

Description: This reminder term is used to represent the patient's refusal to have a lipid profile test done. A REFUSED LIPID PROFILE health factor is distributed pre-mapped to this reminder term. Add any local health factors your site is using to represent this term.

Findings: REFUSED LIPID PROFILE (FI(1)=HF(85))

TRANSFERASE (AST) (SGOT)

Class: NATIONAL

Date Created: MAY 21,2000

Sponsor: INFECTIOUS DISEASES PROGRAM OFFICE, VAHQ

Review Date:

Description: This term represents serum glutamic-oxaloacetic transaminase or AST laboratory procedures. Enter the finding items from the Laboratory Test file (#60) that represent this procedure.

National terms related to this term.

WKLD CODE file (#64): The national lab test term is Transferase Aspartate SGOT

CPT File (#81) procedure:

CPT CODE: 84450 SHORT NAME: TRANSFERASE (AST) (SGOT)

CPT CATEGORY: CHEMISTRY SOURCE: CPT

EFFECTIVE DATE: JUN 01, 1994 STATUS: ACTIVE

DESCRIPTION: TRANSFERASE;

DESCRIPTION: ASPARTATE AMINO (AST) (SGOT)

Lexicon: The CPT code is in the Lexicon term as a Laboratory Procedure term.

Findings:

UNCONFIRMED IHD DIAGNOSIS

Class: NATIONAL

Date Created: OCT 17,2001

Sponsor: Office of Quality & Performance

Review Date:

Description: This reminder term is used to represent an unconfirmed diagnosis of Ischemic Heart Disease on file. The patients' medical record needs to have the IHD diagnosis removed from its source (PCE, PTF, or Problem List). The UNCONFIRMED IHD DIAGNOSIS health factor is pre-mapped to this reminder term upon distribution. Add local health factors your site may be using to represent this term.

Findings: UNCONFIRMED IHD DIAGNOSIS (FI(1)=HF(660085))

Appendix D: IHD Reminder Taxonomies

NUMBER: 14

VA-ISCHEMIC HEART DISEASE

Brief Description:

Ischemic Heart Disease Diagnoses

Class: NATIONAL

Sponsor:

Review Date:

Patient Data Source:

INPR,EN,PL

Use Inactive Problems:

ICD9 Codes:

Range 410.0-410.92

Code	ICD Diagnosis
410.0	AMI ANTEROLATERAL WALL
410.00	AMI ANTEROLATERAL, UNSPEC
410.01	AMI ANTEROLATERAL, INIT
410.02	AMI ANTEROLATERAL, SUBSEQ
410.1	AMI ANTERIOR WALL NEC
410.10	AMI ANTERIOR WALL, UNSPEC
410.11	AMI ANTERIOR WALL, INIT
410.12	AMI ANTERIOR WALL, SUBSEQ
410.2	AMI INFEROLATERAL WALL
410.20	AMI INFEROLATERAL, UNSPEC
410.21	AMI INFEROLATERAL, INIT
410.22	AMI INFEROLATERAL, SUBSEQ
410.3	AMI INFEROPOSTERIOR WALL
410.30	AMI INFEROPOST, UNSPEC
410.31	AMI INFEROPOST, INITIAL
410.32	AMI INFEROPOST, SUBSEQ
410.4	AMI INFERIOR WALL NEC
410.40	AMI INFERIOR WALL, UNSPEC
410.41	AMI INFERIOR WALL, INIT
410.42	AMI INFERIOR WALL, SUBSEQ
410.5	AMI LATERAL WALL NEC
410.50	AMI LATERAL NEC, UNSPEC
410.51	AMI LATERAL NEC, INITIAL
410.52	AMI LATERAL NEC, SUBSEQ
410.6	TRUE POSTERIOR INFARCT
410.60	TRUE POST INFARCT, UNSPEC
410.61	TRUE POST INFARCT, INIT
410.62	TRUE POST INFARCT, SUBSEQ
410.7	SUBENDOCARDIAL INFARCT
410.70	SUBENDO INFARCT, UNSPEC
410.71	SUBENDO INFARCT, INITIAL
410.72	SUBENDO INFARCT, SUBSEQ
410.8	MYOCARDIAL INFARCT NEC
410.80	AMI NEC, UNSPECIFIED
410.81	AMI NEC, INITIAL
410.82	AMI NEC, SUBSEQUENT
410.9	MYOCARDIAL INFARCT NOS
410.90	AMI NOS, UNSPECIFIED
410.91	AMI NOS, INITIAL
410.92	AMI NOS, SUBSEQUENT

Range 411.0-411.89

Code	ICD Diagnosis
411.0	POST MI SYNDROME
411.1	INTERMED CORONARY SYND
411.8	AC ISCHEMIC HRT DIS NEC
411.81	AC ISCH HRT DIS W/O MI
411.89	AC ISCHEMIC HRT DIS NEC

Range 412.-412.

Code	ICD Diagnosis
412.	OLD MYOCARDIAL INFARCT

Range 414.0-414.9

Code	ICD Diagnosis
414.0	CORONARY ATHEROSCLEROSIS
414.00	COR ATHEROSCL UNSP TYP-VES
414.01	COR ATHEROSCL NATV C VSL
414.02	COR ATHEROSCL AUTOL V BYP
414.03	COR ATHEROSCL NONAUTO BIO BYP
414.04	CORONARY ATHER/ART BYP GRFT
414.05	CORONARY ATHER/UNSP TYP BYP GR
414.10	ANEURYSM, HEART (WALL)
414.11	CORONARY VESSEL ANEURYSM
414.19	ANEURYSM OF HEART NEC
414.8	CHR ISCHEMIC HRT DIS NEC
414.9	CHR ISCHEMIC HRT DIS NOS

Appendix E: IHD Reminder Health Factors

Health factors have been grouped by categories, and so the health factor can be used for lipid management beyond the IHD diagnosis, where appropriate (e.g., DM, etc.).

The following Health Factors are distributed pre-mapped to the Reminder Terms:

<u>Health Factor Category</u>	<u>Health Factor</u>
OUTSIDE LDL	OUTSIDE LDL 100-119 OUTSIDE LDL 120-129 OUTSIDE LDL <100 OUTSIDE LDL >129
LIPID PROFILE INTERVENTIONS	ORDER LIPID PROFILE REFUSED LIPID PROFILE (This term is already used at some sites, but under a DIABETIC CARE category. We are distributing it NOT tied to a disease type category. We can't have two health factors for the same thing.) OTHER DEFER LIPID PROFILE
LIPID MED INTERVENTIONS	LIPID LOWERING MEDS INITIAL ORDER LIPID LOWERING MEDS ADJUSTED NO CHANGE IN IHD LIPID TREATMENT LIPID MEDS CONTRAINDICATED LIPID MGMT PROVIDED OUTSIDE REFUSED ELEVATED LDL THERAPY OTHER DEFER ELEVATED LDL THERAPY
UNCONFIRMED DIAGNOSIS	UNCONFIRMED IHD DIAGNOSIS

Appendix F: Abbreviated Setup Steps

- 1. Verify correct installation of the "packed reminders" using the Reminder Definition Inquiry option.**
 - VA-IHD LIPID PROFILE
 - VA-IHD ELEVATED LDL
 - a. Using FileMan Inquiry, verify the IHD health factors are on your system:
 - b. Using the Term Inquiry option, verify that the appropriate reminder terms are on your system:
 - c. Using the Dialog Management option, verify that the VA-IHD LIPID PROFILE and VA-IHD ELEVATED LDL dialogs are installed on your system.
- 2. Print and review the national IHD reminder definitions.**
- 3. Map local findings to the national reminder terms.**
- 4. Run the Reminder Test option after term definition mapping is completed. Review the results of patient data with each of the findings mapped to the term.**
Option: Reminders Test on the Reminder Managers Menu
- 5. Use the Reminder Dialog options to either copy the national dialog and then make edits, or make edits to the elements distributed in the national dialog.**
- 6. Add the reminder dialogs to the CPRS Cover Sheet**
- 7. Verify that the reminders and dialogs function properly**
 - a. Run a Reminders Due Report to determine if the IHD Clinical Reminder statuses reported are correct. This report can be displayed at the beginning of the day for patients being seen that day.
 - b. Use the Reminder Test option to test the reminders.
 - c. Verify that the reminder dialogs function properly
Exercise point-and-click reminder resolution processing through CPRS GUI. Check that each element posts the correct progress note text, finding item to PCE, and also satisfies the reminder.

Appendix G: Modifying Reminders and Dialogs For a More Stringent LDL Level

If your site prefers to use an LDL level of 100 mg/dl rather than the LDL <120 distributed with this patch, follow the steps below to change the distributed IHD Reminder definitions and dialogs. Add a local prefix to the reminder terms and dialog elements in place of VA-. Make sure you thoroughly test your changed reminders and dialogs!

See the following pages for detailed descriptions.

Summary of Reminder Definition Change Steps

1. Copy the LDL <120 reminder term to OURNAME-LDL <100 and edit the new term's condition on lab entries to I +V<100.
2. Copy LDL >119 reminder term to OURNAME-LDL >99 and edit the new term's condition on lab entries to I +V>99.
3. Copy the reminder definition VA-IHD ELEVATED LDL to a local reminder definition – for example, OURNAME-IHD ELEVATED LDL, and then edit the reminder.
 - 3a. Change the Reminder definition description text to reflect the <100 and >99 changes.
 - 3b. Replace LDL <120 with OURNAME-LDL <100. Change the condition to I +V<100.
 - 3c. Replace LDL >119 with OURNAME-LDL >99. Change the condition to I +V>99.
 - 3d. Change the customized patient cohort logic.
4. Test the new reminder thoroughly, following instructions in the setup section of this manual.

Summary of Reminder Dialog Change Steps

1. Copy the VA-IHD ELEVATED LDL reminder dialog to a local reminder dialog; for example, OURNAME IHD ELEVATED LDL.
2. Link the local reminder dialog to the OURNAME IHD ELEVATED LDL reminder definition.
3. Copy/Replace the dialog element for the header: VA-IHD ELEVATED HEADER to OURNAME IHD ELEVATED LDL
4. Copy VA-IHD LIPID <100 DONE ELSE dialog element to OURNAME IHD LIPID<100 DONE ELSE.
5. Change the Progress Note text in OURNAME IHD LIPID <100 DONE ELSE to “Patient reports a more recent LDL <100.”
6. Delete the VA-IHD LIPID DONE ELSEWHERE <120 GROUP from the OURNAME IHD ELEVATED LDL reminder dialog.
7. Add the new element OURNAME IHD LIPID <100 DONE ELSE to the local reminder dialog where the VA-IHD LIPID DONE ELSEWHERE <120 used to be.
8. Test your dialog thoroughly, following instructions given in the setup section of this guide.
9. If desired, add the dialogs to the CPRS GUI, following instructions given in the setup section of this guide.

Detailed Steps for Changing the Reminder Definition

1. Copy the LDL <120 reminder term to OURNAME-LDL <100 and edit the new term's condition on lab entries to I +V<100.

```
Select Reminder Term Management Option: TC   Copy Reminder Term

Select the reminder term to copy: LDL <120           NATIONAL
...OK? Yes// <Enter>   (Yes)

PLEASE ENTER A UNIQUE NAME: OURNAME-LDL <100

The original reminder term LDL <120 has been copied into OURNAME-LDL<100.
Do you want to edit it now? Y

NAME: OURNAME-LDL <100// <Enter>
CLASS: LOCAL// <Enter>
REVIEW DATE: <Enter>
DESCRIPTION:
  1>This national reminder term represents laboratory package test results
  2>where the LDL result is less than 120 mg/dl.  Add the CONDITION
  3>(e.g., I V<120) to the reminder term CONDITION field for each finding you
  4>add.
EDIT Option: 1
  1>This national reminder term represents laboratory package test results
  Replace national With local  Replace <Enter>
  1>This local reminder term represents laboratory package test results
EDIT Option: 2
  2>where the LDL result is less than 120 mg/dl. Add the CONDITION
  Replace 120 With 100  Replace
    where the LDL result is less than 100 mg/dl. Add the CONDITION
Edit line: 3
  3>(e.g., I V<120) to the reminder term CONDITION field for each finding you
  Replace 2 With 0  Replace <Enter>
    (e.g., I V<100) to the reminder term CONDITION field for each finding you
Edit line: <Enter>
Select FINDING ITEM: LT.LDL
  Searching for a LABORATORY TEST, (pointed-to by FINDING ITEM)
  Searching for a LABORATORY TEST
    1  LDL CHOLESTEROL
    2  LDL-CHOL CALCULATION
    3  LDL/HDL RATIO

CHOOSE 1-3: 1  LDL CHOLESTEROL
  Are you adding 'LDL CHOLESTEROL' as a new FINDINGS (the 1ST for this REMINDER
  TERM)? No// Y   (Yes)
  EFFECTIVE PERIOD: <Enter>
  USE INACTIVE PROBLEMS: <Enter>
  WITHIN CATEGORY RANK: <Enter>
  EFFECTIVE DATE: <Enter>
  MH SCALE: <Enter>
  CONDITION: I (+V<100)&(+V>0)
  CONDITION CASE SENSITIVE:
  RX TYPE: <Enter>
Select FINDING ITEM: <Enter>
Input your edit comments.
Edit? NO//<Enter>
```

2. Copy the LDL >119 reminder term to OURNAME-LDL >99 and edit the new term's condition on lab entries to I +V>99.

```
Select Reminder Term Management Option: TC Copy Reminder Term

Select the reminder term to copy: LDL >119 NATIONAL
...OK? Yes// (Yes)

PLEASE ENTER A UNIQUE NAME: OURNAME-LDL >99

The original reminder term LDL >119 has been copied into OURNAME-LDL >99. Do you
want to edit it now? Y

NAME: OURNAME-LDL >99// <Enter>
CLASS: LOCAL// <Enter>
REVIEW DATE: <Enter>
DESCRIPTION:
  1>This national reminder term represents laboratory package test results
  2>where the LDL result is greater than or equal to 120 mg/dl. Add the CONDITION
  3>(e.g., I V >119) to the reminder term CONDITION field for each finding you
  4>add.
EDIT Option: 1
  1>This national reminder term represents laboratory package test results
  Replace national <Enter> With local <Enter> Replace <Enter>
  1>This local reminder term represents laboratory package test results
EDIT Option: 2
  2>where the LDL result is greater than or equal to 120 mg/dl. Add the CONDITION
  Replace 120 <Enter> With 100 <Enter> Replace <Enter>
  where the LDL result is less than 99 mg/dl. Add the CONDITION
Edit line: 3
  3>(e.g., I V >119) to the reminder term CONDITION field for each finding you
  Replace 11 <Enter> With 9 <Enter> Replace <Enter>
  (e.g., I V >99) to the reminder term CONDITION field for each finding you
Edit line: <Enter>

Select FINDING ITEM: LDL CHOLESTEROL// <Enter>
FINDING ITEM: LDL CHOLESTEROL// <Enter>
EFFECTIVE PERIOD: <Enter>
USE INACTIVE PROBLEMS: <Enter>
WITHIN CATEGORY RANK: <Enter>
EFFECTIVE DATE: <Enter>
MH SCALE:
CONDITION: I V>119// I (+V>99) & (+V>0)
```

3. Copy the reminder definition VA-IHD ELEVATED LDL to a local reminder definition – for example, OURNAME-IHD ELEVATED LDL

```
Select Reminder Managers Menu Option: RM Reminder Definition Management

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

Select Reminder Definition Management Option: RC Copy Reminder Definition
```

Select the reminder item to copy: **VA-IHD ELEVATED LDL** NATIONAL
PLEASE ENTER A UNIQUE NAME: **OURNAME-IHD ELEVATED LDL**

The original reminder VA-IHD ELEVATED LDL has been copied into OURNAME-IHDELEVATED LDL.

Do you want to edit it now? **Y**

Edit the Reminder Definition.

3a. Change the Reminder definition description text to reflect the <100 and >99 changes. (Modify the highlighted sections as appropriate for your site.)

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: **General**

PRINT NAME: IHD Elevated LDL// **<Enter>**

CLASS: LOCAL// **<Enter>**

SPONSOR: **<Enter>**

REVIEW DATE:

USAGE: C// **<Enter>**

RELATED REMINDER GUIDELINE: **<Enter>**

INACTIVE FLAG: **<Enter>**

REMINDER DESCRIPTION:. . .

21>for 6 months.

22>

23>Documenting that no treatment change is needed based on patient's current
24>clinical status, that lipid management is provided by another VA or non-VA
25>facility, or deferring lipid treatment for other reasons satisfies the
26>reminder for 6 months.

27>

28>Documenting that lipid lowering medications are contraindicatedsatisfies
29>the reminder for 12 months.

EDIT Option: List line: 1// to: 29// **<Enter>**

1>The VHA/DOD Clinical Practice Guideline for Management of Dyslipidemia
2>recommends an LDL goal of <120 mg/dl for patients with Ischemic Heart
3>Disease; and the NCEP Adult Treatment Panel II recommends a more stringent
4>goal of <100 mg/dl.

5>

6>This national reminder identifies patients with known IHD (i.e., a
7>documented ICD-9 code on or after 10/01/99) who have had a serum
8>lipid panel within the last year, where the most recent LDL lab
9>test (or documented outside LDL) is greater than or equal to 120 mg/dl.

10>If a more recent record of an UNCONFIRMED IHD DIAGNOSIS is found, the
11>reminder will not be applicable to the patient.

12>

13>Documenting an outside LDL <120 mg/dl satisfies the reminder for 12

```

14>months from the lab test date.
15>
16>Ordering initial lipid lowering medications or adjusting current lipid
17>lowering medications satisfies the reminder for 2 months. (This is
18>tracked by Health Factors, not the order.)
19>
20>A patient's refusal of lipid lowering therapy satisfies the reminder
21>for 6 months.
22>
23>Documenting that no treatment change is needed based on patient's current
24>clinical status, that lipid management is provided by another VA or non-VA
25>facility, or deferring lipid treatment for other reasons satisfies the
26>reminder for 6 months.
27>
28>Documenting that lipid lowering medications are contraindicated satisfies
29>the reminder for 12 months.
EDIT Option:

```

3a. Replace LDL <120 with OURNAME-LDL <100. Change the CONDITION to I (+V <100)&(+V>0).

```

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: Findings

Findings

Choose from:
RT      IHD DIAGNOSIS
RT      LDL <120
RT      LDL >119
RT      LIPID LOWERING MEDS
RT      LIPID LOWERING THERAPY MGMT - 2M
RT      LIPID LOWERING THERAPY MGMT - 6M
RT      LIPID MEDS CONTRAINDICATED
RT      OUTSIDE LDL 100-119
RT      OUTSIDE LDL 120-129
RT      OUTSIDE LDL <100
RT      OUTSIDE LDL >129
RT      REFUSED ELEVATED LDL THERAPY
RT      TRANSFERASE (AST) (SGOT)
RT      UNCONFIRMED IHD DIAGNOSIS

Select FINDING: RT.LDL <120

      Searching for a REMINDER TERM, (pointed-to by FINDING ITEM)
      LDL <100      NATIONAL
      ...OK? Yes// <Enter>      (Yes)

FINDING ITEM: LDL <120// OURNAME-LDL <100

MINIMUM AGE: <Enter>
MAXIMUM AGE: <Enter>

```

```

REMINDER FREQUENCY: <Enter>
RANK FREQUENCY: <Enter>
USE IN RESOLUTION LOGIC: <Enter>
USE IN PATIENT COHORT LOGIC: AND NOT//<Enter>
EFFECTIVE PERIOD: 1Y// <Enter>
EFFECTIVE DATE: <Enter>
CONDITION: I V<120// I (+V<100) & (+V>0)
CONDITION CASE SENSITIVE:
FOUND TEXT:
    1>The most recent lab results document LDL less than 120 mg/dl.
EDIT Option: 1
    1>The most recent lab results document LDL less than 120 mg/dl.
    Replace 120 With 100 Replace <Enter>
    The most recent lab results document LDL less than 100 mg/dl.
Edit line: <Enter>
EDIT Option: <Enter>
NOT FOUND TEXT:
    1><Enter>
Findings

```

3b. Replace LDL >119 with OURNAME-LDL >99. Change the CONDITION to I (+V>99)&(>0)

```

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: Findings
Findings
Choose from:
RT      IHD DIAGNOSIS
RT      LDL >119
RT      LIPID LOWERING MEDS
RT      LIPID LOWERING THERAPY MGMT - 2M
RT      LIPID LOWERING THERAPY MGMT - 6M
RT      LIPID MEDS CONTRAINDICATED
RT      OURNAME LDL <100
RT      OUTSIDE LDL 100-119
RT      OUTSIDE LDL 120-129
RT      OUTSIDE LDL <100
RT      OUTSIDE LDL >129
RT      REFUSED ELEVATED LDL THERAPY
RT      TRANSFERASE (AST) (SGOT)
RT      UNCONFIRMED IHD DIAGNOSIS

Select FINDING: RT.LDL >119
    Searching for a REMINDER TERM, (pointed-to by FINDING ITEM)
    LDL >119      NATIONAL
    ...OK? Yes// <Enter> (Yes)

FINDING ITEM: LDL >119// RT.OURNAME-LDL >99
MINIMUM AGE: <Enter>
MAXIMUM AGE: <Enter>
REMINDER FREQUENCY: <Enter>
RANK FREQUENCY: <Enter>
USE IN RESOLUTION LOGIC: <Enter>

```

```

USE IN PATIENT COHORT LOGIC: OR// <Enter>
EFFECTIVE PERIOD: 1Y// <Enter>
EFFECTIVE DATE: <Enter>

CONDITION: I V>119// I (+V>99) & (+V>0)
CONDITION CASE SENSITIVE:
FOUND TEXT:
1>The most recent lab results document LDL greater than or equal to 120
2>mg/dl.
EDIT Option: 1
  1>The most recent lab results document LDL greater than or equal to 120
  Replace 120 With 100 Replace <Enter>
  The most recent lab results document LDL greater than or equal to 100
Edit line: <Enter>
EDIT Option: <Enter>
NOT FOUND TEXT:
  1><Enter>

Findings

```

3d.Change the Customized Cohort Logic.

While still in Reminder Copy (RC), select the Logic section to edit:

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: **L**

Customized PATIENT COHORT LOGIC to see if the Reminder applies to a patient:

```

FI(1) & (MRD(FI(1))>MRD(FI(13))) & (FI(5)!FI(6)!FI(7)) &
(MRD(FI(5),FI(6),FI(7))>MRD(FI(8),FI(3),FI(4)))

```

Replace **FI(5)<Enter>** With **FI(4)!FI(5) <Enter>** Replace **MRD(FI(5)<Enter>** With **MRD(FI(4),FI(5)<Enter>** Replace **FI(3),FI(4)<Enter>** With **FI(3)<Enter>** Replace **<Enter>**

Edited logic

Customized PATIENT COHORT LOGIC to see if the Reminder applies to a patient:

```

FI(1) & (MRD(FI(1))>MRD(FI(13))) & (FI(4)!FI(5)!FI(6)!FI(7)) &
(MRD(FI(4),FI(5),FI(6),FI(7))>MRD(FI(8),FI(3)))

```

(If you do a Reminder Inquiry (RI), the text highlighted below in **BOLD** will be replaced by the logic shown in the After box by the steps taken above.)

Before:

Expanded Patient Cohort Logic:

```

FI(IHD DIAGNOSIS) & (MRD(FI(IHD DIAGNOSIS))>
MRD(FI(UNCONFIRMED IHD DIAGNOSIS))) & (FI(OUTSIDE LDL 120-129)!
FI(OUTSIDE LDL >129)!FI(LDL >119)) & (MRD(FI(OUTSIDE LDL 120-129),
FI(OUTSIDE LDL >129),FI(LDL >119))>MRD(FI(LDL <120),FI(OUTSIDE LDL <100),
FI(OUTSIDE LDL 100-119)))

```

After:

```
Expanded Patient Cohort Logic:
  FI(IHD DIAGNOSIS)&(MRD(FI(IHD DIAGNOSIS))>
  MRD(FI(UNCONFIRMED IHD DIAGNOSIS))&(FI(OUTSIDE LDL 100-119)!
  FI(OUTSIDE LDL 120-129)!FI(OUTSIDE LDL >129)!FI(OURNAME-LDL >99))&
  (MRD(FI(OUTSIDE LDL 100-119),FI(OUTSIDE LDL 120-129),FI(OUTSIDE LDL >129),
  FI(OURNAME-LDL >99))>MRD(FI(OURNAME-LDL <100),FI(OUTSIDE LDL <100)))
```

4. Test the new reminder thoroughly, following instructions in the setup section of this manual.

Detailed Steps to Change the Reminder Dialog

1. Copy the VA-IHD ELEVATED LDL reminder dialog to a local reminder dialog-OURNAME-IHD ELEVATED LDL.

```
Select Reminder Managers Menu Option: DM  Reminder Dialog Management

  DP      Dialog Parameters ...
  DI      Reminder Dialogs
Select Reminder Dialog Management Option: DI  Reminder Dialogs

Dialog List                                May 17, 2002@16:34:43                Page:    1 of    16
REMINDER VIEW (ALL REMINDERS BY NAME)

  Item Reminder Name                               Linked Dialog Name & Dialog Status
  ---
  1  757 NUR ALCOHOL USE SCREEN                     757 ALCOHOL USE SCREEN
  2  757 NUR SEATBELT & ACCIDENT AVOID              757 SEATBELT AND ACCIDENT A
  3  A A BLOOD EXPOSURE
  4  A A PAIN VITAL SIGN                           VA-PAIN SCREEN AND HX
  5  A A SG PAIN ASSESSMENT                         A A PAIN SCREEN AND INTERVE
  6  A A SG PAIN HISTORY                           A A SG PAIN HISTORY DIA
  7  A NEW REMINDER                                A NEW REMINDER
  8  AGETEST                                         AGETEST
  9  ALCOHOL USE SCREEN                             ALCOHOL USE SCREEN DIALOG
  10 ANDREW TEST OBJECT                             ANDREW OBJECT
  11 ANTHONY TEST OBJECT                           ZZANTHONY DETAIL VITAL
  12 ANTRY CHOLESTEROL SCREEN (M)                   ANTRY CHOLESTEROL SCREEN (M
  13 ANTRY'S ANNUAL FLU SHOOT                       ANTRY'S ANNUAL FLU SHOOT
  14 ANTRY'S DIABETIC REVIEW                        ANTRY'S DIABETIC REVIEW
  15 ANTRY'S SMOKE CESSATION                        ANTRY'S SMOKE CESSATION
  16 Agetest                                          Agetest                               Disabled
+      Enter ?? for more actions                                >>>
AR  All reminders      LR  Linked Reminders      QU  Quit
CV  Change View       RN  Name/Print Name
Select Item: Next Screen// SL  SL
Search for: VA-IHD ELEVATED LDL
.
.
.
```

Dialog Selection List		May 17, 2002@14:28:53	Page: 1 of 1
REMINDER NAME: VA-IHD ELEVATED LDL			
Item	Dialog Name	Latest Update	Linked Reminders
This reminder is linked to dialog:			
1	VA-IHD ELEVATED LDL		VA-IHD ELEVATED LDL
<div> + Next Screen - Prev Screen ?? More Actions >>> </div>			
AD	Autogenerate Dialog	QU	Quit
LR	Link Reminder		
Select Item: Quit// 1			

Dialog Edit List		May 17, 2002@14:29:04	Page: 1 of 5
REMINDER DIALOG NAME: VA-IHD ELEVATED LDL [NATIONAL]			
Item	Seq.	Dialog Details/Findings	Type
1	5	VA-IHD ELEVATED LDL HEADER Finding: *NONE*	element
2	10	VA-IHD LIPID LOWER AGENT ORDER GROUP Finding: LIPID LOWERING MEDS INITIAL ORDER (HEALTH FACTOR)	group
3	10.5	VA-IHD SIMVASTATIN ORDERED Finding: *NONE*	element
4	10.10	VA-IHD ORDER BASELINE LFTS TODAY Finding: *NONE*	element
5	10.15	VA-IHD ORDER FUTURE LFTS 60 DAYS Finding: *NONE*	element
6	10.20	VA-IHD ORDER FUTURE LIPID PROFILE 60 DAYS Finding: *NONE*	element
7	15	VA-IHD LIPID LOWER AGENT ADJUST GROUP Finding: LIPID LOWERING MEDS ADJUSTED (HEALTH FACTOR)	group
<div> + Next Screen - Prev Screen ?? More Actions >>> </div>			
CO	Copy Dialog	DT	Dialog Text
DD	Detailed Display	ED	Edit/Delete Dialog
DP	Progress Note Text	INQ	Inquiry/Print
Select Item: Next Screen// co Copy Dialog			
COPY REMINDER DIALOG 'VA-IHD ELEVATED LDL' Y// <Enter> ES ENTER A UNIQUE NAME: OURNAME-IHD ELEVATED LDL Completed copy of 'VA-IHD ELEVATED LDL' into 'OURNAME-ELEVATED LDL'			

2. Link the local reminder dialog to the OURNAME-IHD ELEVATED LDL reminder definition.

Dialog Selection List		May 17, 2002@11:34:04	Page: 1 of 1
REMINDER NAME: OURNAME-ELEVATED LDL			
Item	Dialog Name	Latest Update	Linked Reminders
* NO DIALOGS DEFINED *			
+ Next Screen - Prev Screen ?? More Actions >>>			
AD	Autogenerate Dialog	QU	Quit
LR	Link Reminder		
Select Item: Quit// lr Link Reminder			
REMINDER NAME: OURNAME-IHD ELEVATED LDL			
LINKED REMINDER DIALOG: OURNAME-IHD ELEVATED LDL		reminder dialog	LOCAL
...OK? Yes// <Enter> (Yes)			
Dialog Selection List		May 17, 2002@11:34:14	Page: 1 of 1
REMINDER NAME: OURNAME-IHD ELEVATED LDL			
Item	Dialog Name	Latest Update	Linked Reminders
This reminder is linked to dialog:			
1	OURNAME-IHD ELEVATED LDL		OURNAME-IHD ELEVATED LDL
+ Next Screen - Prev Screen ?? More Actions >>>			
AD	Autogenerate Dialog	QU	Quit
LR	Link Reminder		
Select Item: Quit//			

3. Copy/Replace the dialog element for the header: VA-IHD ELEVATED HEADER to OURNAME-IHD ELEVATED LDL

Dialog Edit List		May 17, 2002@14:29:37	Page: 1 of 5
REMINDER DIALOG NAME: OURNAME-IHD ELEVATED LDL			
Sequence	Dialog Details	Disabled	
5	Dialog element: VA-IHD ELEVATED LDL HEADER		
10	Dialog group: VA-IHD LIPID LOWER AGENT ORDER GROUP		
	Dialog elements:	5 VA-IHD SIMVASTATIN ORDERED 10 VA-IHD ORDER BASELINE LFTS TOD: Y 15 VA-IHD ORDER FUTURE LFTS 60 DA: S 20 VA-IHD ORDER FUTURE LIPID PROF: LE 60 D: YS	

```

15          Dialog group: VA-IHD LIPID LOWER AGENT ADJUST GROUP
          Dialog elements:      2  PXRM COMMENT
                                5  VA-IHD LIPID LOWER AGENT ADJUST TEXT
                                10 VA-IHD ORDER BASELINE LFTS TODAY
                                15 VA-IHD ORDER FUTURE LFTS 60 DAYS
                                20 VA-IHD ORDER FUTURE LIPID PROFILE 60 DAYS

20          Dialog element: VA-IHD LIPID TREATMENT NO CHANGE
          + Next Screen  - Prev Screen  ?? More Actions  >>>
CO   Copy Dialog      DT   Dialog Text      RI   Reminder Inquiry
DD   Detailed Display  ED   Edit/Delete Dialog  QU   Quit
DP   Progress Note Text  INQ  Inquiry/Print
Select Sequence: Next Screen// 5

CURRENT DIALOG ELEMENT NAME: VA-IHD ELEVATED LDL HEADER

      Select one of the following:

          E          Edit
          C          Copy and Replace current element
          D          Delete element from this dialog

Select Dialog Element Action: E// Copy and Replace current element

COPY AND REPLACE 'VA-IHD ELEVATED LDL HEADER'  Y//<Enter> ES
ENTER A UNIQUE NAME: VA-IHD ELEVATED LDL HEADER (1)
  Replace VA-IHD With OURNAME-IHD
  Replace <Enter>
    OURNAME-IHD ELEVATED LDL HEADER (1)

Completed copy of 'VA-IHD ELEVATED LDL HEADER'
into 'OURNAME-IHD ELEVATED LDL HEADER (1)'

Replaced element'VA-IHD ELEVATED LDL HEADER'
with ' OURNAME-IHD ELEVATED LDL HEADER (1)'
on this dialog.

Do you want to edit now  Y// <Enter> ES

Dialog Element Type: E// <Enter> lement

CURRENT DIALOG ELEMENT/GROUP NAME: OURNAME-IHD ELEVATED LDL HEADER (1)
Used by:  OURNAME-IHD ELEVATED LDL (Current Reminder Dialog)

NAME: OURNAME -IHD ELEVATED LDL HEADER (1)  Replace <Enter>
DISABLE: <Enter>
CLASS: LOCAL// <Enter>
SPONSOR: <Enter>
REVIEW DATE: <Enter>
RESOLUTION TYPE: <Enter>
ORDERABLE ITEM: <Enter>
FINDING ITEM: <Enter>
DIALOG/PROGRESS NOTE TEXT:
The VHA/DOD Clinical Practice Guideline for Management of Dyslipidemia
recommends an LDL goal of <120 mg/dl for patients with Ischemic Heart
Disease; and the NCEP Adult Treatment Panel II recommends a more stringent
goal of <100 mg/dl.  Consider initiating or adjusting lipid lowering
treatment.

Click on 'Clinical Maint' button below to display IHD Diagnosis, LDL lab
results and current lipid lowering medications.

```

```

-----
Edit? NO// <Enter>
ALTERNATE PROGRESS NOTE TEXT:
  No existing text
Edit? NO// <Enter>
EXCLUDE FROM PROGRESS NOTE: <Enter>
SUPPRESS CHECKBOX: SUPPRESS// <Enter>
Input your edit comments.
Edit? NO//<Enter>

```

4. Copy the VA-IHD LIPID <100 DONE ELSE dialog element to OURNAME-IHD LIPID <100 DONE ELSE.

NOTE: You'll need to Change View (CV) to Dialog Elements.

Dialog List		May 17, 2002@17:38:07		Page: 11 of 12	
DIALOG VIEW (REMINDER DIALOGS - SOURCE REMINDER NAME)					
+Item	Reminder Dialog Name	Source Reminder	Status		
169	VA-IHD ELEVATED LDL	*NONE*	Linked		
170	VA-IHD LIPID PROFILE	*NONE*	Linked		
171	VA-INFLUENZA VACCINE	VA-INFLUENZA VACCINE	Disabled		
172	VA-MST SCREENING	*NONE*	Linked		
173	VA-PAIN SCREEN AND HX	*NONE*	Linked		
174	VA-PNEUMOVAX	VA-PNEUMOVAX	Linked		
+ Enter ?? for more actions >>>					
AD	Add Reminder Dialog	PT	List/Print All	QU	Quit
CV	Change View	RN	Name/Print Name		
Select Item: Next Screen// CV Change View					
Select one of the following:					
D	Reminder Dialogs				
E	Dialog Elements				
F	Forced Values				
G	Dialog Groups				
P	Additional Prompts				
R	Reminders				
RG	Result Group (Mental Health)				
RE	Result Element (Mental Health)				
TYPE OF VIEW: R// E Dialog Elements					
Dialog List		May 17, 2002@14:35:03		Page: 6 of 8	
DIALOG VIEW (DIALOG ELEMENTS)					
+Item	Dialog Name	Dialog type	Status		
94	VA-IHD ELEVATED LDL HEADER	Dialog Element			
95	VA-IHD ELEVATED LDL OTHER DEFER	Dialog Element			
96	VA-IHD ELEVATED LDL REFUSED	Dialog Element			
97	VA-IHD FASTING LIPID ORDERED	Dialog Element			
98	VA-IHD LIPID 100-119 DONE ELSE	Dialog Element			
99	VA-IHD LIPID 120-129 DONE ELSE	Dialog Element			
100	VA-IHD LIPID <100 DONE ELSE	Dialog Element			
101	VA-IHD LIPID >129 DONE ELSE	Dialog Element			
102	VA-IHD LIPID DONE ELSEWHERE TEXT	Dialog Element			
+ Enter ?? for more actions >>>					
AD	Add	CV	Change View	INQ	Inquiry/Print
CO	Copy Dialog	PT	List/Print All	QU	Quit
Select Item: Next Screen// CO Copy Dialog					

Select the dialog to copy: **VA-IHD LIPID <100 DONE ELSE** dialog element
 NATIONAL
 ENTER A UNIQUE NAME: **OURNAME-IHD LIPID <100 DONE ELSE**

Completed copy of 'VA-IHD LIPID <100 DONE ELSE'
 into 'OURNAME-IHD LIPID <100 DONE ELSE'

5. Change the Dialog/Progress Note text in OURNAME-IHD LIPID <100 DONE ELSE to “Patient reports a more recent LDL <100” (while still in the Dialog Elements View)

```

AD  Add          CV  Change View      INQ  Inquiry/Print
CO  Copy Dialog   PT  List/Print All   QU   Quit
Select Item: Next Screen// SL  SL
Search for: OURNAME
  1  A A  PAIN ASSESS MEMBER REPORTS      Dialog Element
  2  A A  PAIN HX LOCATION                 Dialog Element
  3  A A  PAIN AM OUTSIDE SCORE            Dialog Element
  4  A A  PAIN ASSESSMENT ELSEWHERE        Dialog Element
  5  A A  PAIN ASSESSMENT TITLE            Dialog Element
  6  A A  PAIN HISTORY 1M                 Dialog Element
  7  A A  PAIN HX ACCEPTABLE PAIN SCORE    Dialog Element

...searching for 'OURNAME'.....

Find Next 'OURNAME'? Yes// NO

CO  Copy Dialog   PT  List/Print All   QU   Quit

Dialog List                               May 17, 2002@17:40:55      Page:      50      73
DIALOG VIEW (DIALOG ELEMENTS)

+Item Dialog Name                               Dialog type                               Status
796 OURNAME-IHD LIPID <100 DONE ELSE            Dialog Element
797 PAIN                                          Dialog Element
798 PAIN ASK PATIENT PAIN SCORE*                Dialog Element
799 PAIN ENTER NEW PAIN SCORE                  Dialog Element
800 PAIN HX 2ND LOCATION**                     Dialog Element
801 PAIN HX ACCEPTABLE ASK*                   Dialog Element
802 PAIN HX CAUSE*                             Dialog Element
803 PAIN HX DECLINED*                         Dialog Element

+      + Next Screen  - Prev Screen  ?? More Actions      >>>
AD  Add          CV  Change View      INQ  Inquiry/Print
CO  Copy Dialog   PT  List/Print All   QU   Quit
Select Item: Next Screen// 796

Dialog Name:  OURNAME-IHD LIPID < 100 DONE ELSE

Not used by any other dialog

NAME: OURNAME-IHD LIPID < 100 DONE ELSE  Replace <Enter>
DISABLE: <Enter>
CLASS: LOCAL// <Enter>
SPONSOR: <Enter>
REVIEW DATE: <Enter>
RESOLUTION TYPE: DONE ELSEWHERE (HISTORICAL)// <Enter>
ORDERABLE ITEM: <Enter>
FINDING ITEM: OUTSIDE LDL <100// <Enter>
DIALOG/PROGRESS NOTE TEXT:
  
```

```

1>Outside LDL <100 mg/dL
EDIT Option: 1
1>Outside LDL <100 mg/dL
Replace O... With Patient reports a more recent LDL <100.
Replace <Enter>
Patient reports a more recent LDL <100.
Edit line: <Enter>
EDIT Option:
ALTERNATE PROGRESS NOTE TEXT:
1><Enter>
EXCLUDE FROM PROGRESS NOTE: <Enter>
SUPPRESS CHECKBOX: <Enter>

```

6. Delete the VA-IHD LIPID DONE ELSEWHERE <120 GROUP from the OURNAME-IHD ELEVATED LDL reminder dialog.

Dialog List		May 17, 2002@14:37:32		Page: 3 of 4	
REMINDER VIEW (ALL REMINDERS BY NAME)					
+Item	Reminder Name	Linked Dialog Name & Dialog Status			
109	NCG MST				
110	NCVAMC AIMS				
111	NEW PROPOSED ALCOHOL SCREEN (AUDIT				
112	NEW PROPOSED ALCOHOL USE SCREEN	DRAFT NEW ALCOHOL USE SCREE			
113	NEW PROPOSED DEPRESSION SCREEN DOM				
114	OURNAME-IHD ELEVATED LDL	OURNAME-ELEVATED LDL			
115	ORDTEST				
116	OUTPATIENT ASSESSMENT - PART 1	rename outpatient	Disabled		
117	OUTPATIENT ASSESSMENT - PART 2	OUTPATIENT ASSESSMENT - PAR	Disabled		
<<< + Next Screen - Prev Screen ?? More Actions >>>					
AR	All reminders	LR	Linked Reminders	QU	Quit
CV	Change View	RN	Name/Print Name		
Select Item: Quit// 114					

Dialog Selection List		May 17, 2002@14:37:36	Page:	1 of	1
REMINDER NAME: OURNAME-IHD ELEVATED LDL					
<u>Item</u>	<u>Dialog Name</u>	<u>Latest Update</u>	<u>Linked Reminders</u>		
This reminder is linked to dialog:					
1	OURNAME-IHD ELEVATED LDL		OURNAME-IHD ELEVATED LDL		

5	Dialog element: OURNAME-IHD ELEVATED LDL HEADER (1)
10	Dialog group: VA-IHD LIPID LOWER AGENT ORDER GROUP Dialog elements: 5 VA-IHD SIMVASTATIN ORDERED 10 VA-IHD ORDER BASELINE LFTS TODAY 15 VA-IHD ORDER FUTURE LFTS 60 DAYS 20 VA-IHD ORDER FUTURE LIPID PROFILE 60 DAYS
15	Dialog group: VA-IHD LIPID LOWER AGENT ADJUST GROUP Dialog elements: 2 PXR COMMENT 5 VA-IHD LIPID LOWER AGENT ADJUST TEXT 10 VA-IHD ORDER BASELINE LFTS TODAY 15 VA-IHD ORDER FUTURE LFTS 60 DAYS 20 VA-IHD ORDER FUTURE LIPID PROFILE 60 DAYS
20	Dialog element: VA-IHD LIPID TREATMENT NO CHANGE
Select Sequence: Next Screen// <Enter> NEXT SCREEN	
Resolution: DONE AT ENCOUNTER	
Finding type: HEALTH FACTOR	
Finding item: NO CHANGE IN IHD LIPID TREATMENT [HF(660080)]	
Additional prompts: PXR COMMENT	
25	Dialog element: VA-IHD LIPID MEDS CONTRAINDICATED Resolution: CONTRAINDICATED Finding type: HEALTH FACTOR Finding item: LIPID MEDS CONTRAINDICATED [HF(660087)] Additional prompts: PXR COMMENT
30	Dialog element: VA-IHD LIPID LOWER AGENT ELSEWHERE Resolution: DONE ELSEWHERE (HISTORICAL) Finding type: HEALTH FACTOR Finding item: LIPID MGMT PROVIDED OUTSIDE [HF(660082)] Additional prompts: PXR COMMENT
DP Progress Note Text INQ Inquiry/Print	
Select Sequence: Next Screen// <Enter> NEXT SCREEN	
Dialog Edit List May 08, 2002@14:37:40 Page: 3 of 5	
REMINDER DIALOG NAME: OURNAME-IHD ELEVATED LDL	
+Sequence	Dialog Details Disabled
35	Dialog element: VA-IHD SPACER
40	Dialog group: VA-IHD LIPID DONE ELSEWHERE <120 GROUP Dialog elements: 5 VA-IHD LIPID DONE ELSEWHERE TEXT 10 VA-IHD LIPID <100 DONE ELSE 15 VA-IHD LIPID 100-119 DONE ELSE
45	Dialog group: VA-IHD LIPID/ALT/AST ORDER GROUP Dialog elements: 5 VA-IHD FASTING LIPID ORDERED 10 VA-IHD DIRECT LDL ORDERED 15 VA-IHD ALT/AST ORDERED
50	Dialog element: VA-IHD ELEVATED LDL REFUSED Resolution: PATIENT REFUSED Finding type: HEALTH FACTOR
+ + Next Screen - Prev Screen ?? More Actions >>>	
CO	Copy Dialog DT Dialog Text RI Reminder Inquiry
DD	Detailed Display ED Edit/Delete Dialog QU Quit
DP	Progress Note Text INQ Inquiry/Print
Select Sequence: Next Screen// 40	

CURRENT DIALOG ELEMENT NAME: VA-IHD LIPID DONE ELSEWHERE <120 GROUP

Select one of the following:

- E Edit
- C Copy and Replace current element
- D Delete element from this dialog

Select Dialog Element Action: E// Delete element from this dialog

7. Add the new element OURNAME-IHD LIPID <100 DONE ELSE to the local reminder dialog where the VA-IHD LIPID DONE ELSEWHERE <120 used to be.

```
Dialog Edit List          May 08, 2002@14:38:16          Page:    1 of    5
REMINDER DIALOG NAME: OURNAME-IHD ELEVATED LDL
Sequence      Dialog Details                                Disabled
  5           Dialog element: OURNAME-IHD ELEVATED LDL HEADER (1)
10           Dialog group: VA-IHD LIPID LOWER AGENT ORDER GROUP
           Dialog elements:    5  VA-IHD SIMVASTATIN ORDERED
                                10 VA-IHD ORDER BASELINE LFTS TODAY
                                15 VA-IHD ORDER FUTURE LFTS 60 DAYS
                                20 VA-IHD ORDER FUTURE LIPID PROFILE 60 DAYS
15           Dialog group: VA-IHD LIPID LOWER AGENT ADJUST GROUP
           Dialog elements:    2  PXRM COMMENT
                                5  VA-IHD LIPID LOWER AGENT ADJUST TEXT
                                10 VA-IHD ORDER BASELINE LFTS TODAY
                                15 VA-IHD ORDER FUTURE LFTS 60 DAYS
                                20 VA-IHD ORDER FUTURE LIPID PROFILE 60 DAYS
20           Dialog element: VA-IHD LIPID TREATMENT NO CHANGE
+   + Next Screen  - Prev Screen  ?? More Actions      >>>
CO   Copy Dialog      DT   Dialog Text      RI   Reminder Inquiry
DD   Detailed Display  ED   Edit/Delete Dialog  QU   Quit
DP   Progress Note Text  INQ  Inquiry/Print
Select Sequence: Next Screen// 40
ARE YOU ADDING 40 AS A NEW SEQUENCE NUMBER: N// YES

Select new DIALOG ELEMENT: OURNAME-IHD LIPID <100 DONE ELSE  dialog element  L
...OK? Yes//<Enter>  (Yes)

30           Dialog element: VA-IHD LIPID LOWER AGENT ELSEWHERE
           Resolution: DONE ELSEWHERE (HISTORICAL)
           Finding type: HEALTH FACTOR
           Finding item: LIPID MGMT PROVIDED OUTSIDE [HF(660082)]
           Additional prompts: PXRM COMMENT
35           Dialog element: VA-IHD SPACER
40           Dialog element: OURNAME-IHD LIPID <100 DONE ELSE
           Resolution: DONE ELSEWHERE (HISTORICAL)
           Finding type: HEALTH FACTOR
           Finding item: OUTSIDE LDL <100 [HF(81)]
           Additional prompts: PXRM VISIT DATE
                                PXRM OUTSIDE LOCATION
                                PXRM COMMENT
DP   Progress Note Text  INQ  Inquiry/Print
Select Sequence: Next Screen//  NEXT SCREEN
```

- 8. Test your dialog thoroughly, following the instructions given in the setup section of this guide.**
- 9. If desired, add the dialogs to the CPRS GUI, following the instructions given in the setup section of this guide.**