



**Hepatitis C Risk Assessment & Hepatitis C Testing  
Reminders, National Taxonomy updates, and Updates to  
Veterans Choice Template**

**PXRM\*2.0\*52**

**INSTALLATION and SETUP GUIDE**

**May 2015**

Product Development  
Department of Veterans Affairs

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## Introduction

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### Description:

HCV is the most common chronic blood-borne pathogen in the U. S. An estimated 3.2 million Americans are living with chronic HCV infection. In the U.S., there are approximately 17,000 new cases of HCV annually. HCV is acquired primarily by percutaneous exposures to blood. Approximately 15,000 deaths from chronic liver disease per year are associated with HCV.<sup>4</sup> HCV diagnosis and treatment may mitigate some of the negative health outcomes of HCV infection. In the VHA, the prevalence of HCV infection has been found to be 6.2% overall and 10.1% in Veterans born during 1945-1965.

The United States Preventive Services Task Force (USPSTF) recommends screening for HCV infection in persons at high risk for infection. The USPSTF also recommends offering one-time screening for HCV infection to adults born between 1945 and 1965.

This patch installs the following for the Hepatitis C reminders/dialogs during installation:

1. Reminders Definitions:
  - VA-HEPATITIS C RISK ASSESSMENT
  - VA-HEPATITIS C TESTING
  - VA-HEP C RISK FACTOR OBJECT
  
2. Dialogs
  - VA-HEPATITIS C RISK ASSESSMENT
  - VA-HEPATITIS C TESTING
  
3. Taxonomies
  - VA-ALCOHOL ABUSE
  - VA-DRUG ABUSE FOR HCV TESTING
  - VA-HEPATITIS C INFECTION
  - VA-HEPATITIS C SEROPOSITIVE
  - VA-HIV INFECTION
  - VA-TERMINAL CANCER PATIENTS
  
4. Terms
  - VA-DECLINED HEP C RISK ASSESSMENT
  - VA-DECLINED HEP C TESTING
  - VA-HEP C LAB TESTS ORDERED
  - VA-HEP C OUTSIDE RESULTS
  - VA-HEP C RNA
  - VA-HEP C VIRUS ANTIBODY NEGATIVE
  - VA-HEP C VIRUS ANTIBODY POSITIVE
  - VA-HEPATITIS C INFECTION

VA-HEPATITIS C SEROPOSITIVE  
VA-LIFE EXPECTANCY < 6 MONTHS  
VA-NO RISK FACTORS FOR HEP C  
VA-RISK FACTOR FOR HEPATITIS C  
VA-TERMINAL CANCER PATIENT

5. Health Factors

DECLINED HEP C RISK ASSESSMENT  
DECLINED HEP C TESTING  
HCV RISK: 20/> LIFETIME SEXUAL PARTNERS  
HCV RISK: BLOOD/ORGAN TX PRIOR TO 1992  
HCV RISK: BORN TO HCV+ MOTHER  
HCV RISK: HEMODIALYSIS  
HCV RISK: HEMOPHILIA/CLOTTING FACTOR  
HCV RISK: HIV INFECTION  
HCV RISK: HX OF ALCOHOL HEP/ABUSE/DEPEND  
HCV RISK: INCARCERATION  
HCV RISK: INTRANASAL DRUG USER  
HCV RISK: INTRAVENOUS DRUG USE  
HCV RISK: NEEDLE\MUCOSAL EXPOSURE  
HCV RISK: SEXUAL HCV EXPOSURE  
HCV RISK: TATTOO/PIERCING  
HCV RISK: UNEXPL LIVER DZ/ABN LIVER FX  
HCV RISK: VIETNAM-ERA VETERAN  
HEP C RISK  
HEP C TESTING DEFERRED  
HEP C TESTING NOT INDICATED  
HEP C SCREEN NOT INDICATED  
NO RISK FACTORS FOR HEP C  
PREVIOUS NEGATIVE ANTI-HCV  
PREVIOUS POSITIVE ANTI-HCV  
PREVIOUS NEGATIVE HCV RNA  
PREVIOUS POSITIVE HCV RNA  
RISK FACTOR FOR HEPATITIS C

6. TIU Template Field

VA-HEP C NCP GUIDANCE STATEMENT

7. Health Summary Type

VA-HEP C RISK FACTORS

8. TIU Object

VA-HEP C RISK FACTORS

This patch also installs the following edits to the **Veterans Choice** reminder dialog:

The groups and elements modified were minimal as they are used in both the Pre and Post Visit sections. The Groups and Elements are:

Group: VA-DG VETERANS CHOICE CLINICAL INFO

Element: VA-DE VETERANS CHOICE INFO TEXT

Group: VA-DG VETERANS CHOICE ADDITIONAL COMMENTS

Element: VA-DE VETERANS CHOICE ADDITIONAL COMMENTS

The modifications are:

- Remove the suppression of the check boxes on the Groups
- Remove Show on the Groups (hide the elements in the groups)
- Moved the display only Clinical Information instructions from the Group to the Element.
- Added “\\” to the Clinical Info element to modify indent.

### Pre-Visit Section Before:

The screenshot shows a dialog box with a light gray background. At the top left, there is a checkbox labeled "Clinical Information:". Below this checkbox is a block of text: "(Include any clinically pertinent information required for care coordination related to this appointment such as chief complaint, patient history, clinical findings, diagnosis (Co-Morbidities), diagnostic test results, and treatment to date)". Underneath this text is a large, empty white rectangular area. Below this area is another checkbox labeled "Additional Comments:". Underneath this checkbox is another large, empty white rectangular area. The dialog box has a thin border and a small close button in the top right corner.

**After:**

Please specify approved services veteran is to receive at this appointment:

\*

Clinical Information:

Additional Comments:

**Post-Visit Section Before:**

Post-Visit Information

Post Appointment Outcome Information:

Documentation received from non-VA provider for this episode of care and scanned into VistA Imaging.

Clinical Information:

(Include any clinically pertinent information required for care coordination related to this appointment such as chief complaint, patient history, clinical findings, diagnosis (Co-Morbidities), diagnostic test results, and treatment to date)

Additional Comments:

**After:**

Post-Visit Information

Post Appointment Outcome Information:

Documentation received from non-VA provider for this episode of care and scanned into VistA Imaging.

Clinical Information:

Additional Comments:

## How the Hepatitis C reminders work:

1. Only see one reminder at a time – never both
2. The **Hepatitis C Risk Assessment** reminder definition will be applicable to all patients who have not had a risk assessment documented. It will not be applicable for patients already at risk; including those born during 1945-1965 or patients already tested for hepatitis C. Patients with terminal cancer or documented with a limited life expectancy are also excluded.
  - a. The computed finding VA-DATE OF BIRTH uses the CONDITION “I V>2441231&(V<2660101)” to identify patients with a date of birth during 1945-1965.
3. The **Hepatitis C Risk Assessment** is resolved with a documented risk assessment, documentation of a patient declining the risk assessment, a hepatitis C serology lab test (anti-HCV) order, or documentation of an outside or previous hepatitis C serology or RNA lab test.
4. The **Hepatitis C Testing** reminder definition will be applicable to
  - a. Patients with a documented risk of hepatitis C and not already tested for hepatitis C AND
  - b. Patients with a positive HCV serology lab test (anti-HCV), but without a HCV RNA lab result.Patients with terminal cancer or documented with a limited life expectancy are excluded.
5. The **Hepatitis C Testing** reminder is resolved with an HCV lab test order, documentation of a patient declining the screen, deferring the hepatitis C screen, documentation of an outside or previous hepatitis C negative serology (anti-HCV), a negative hepatitis C serology, documentation of an outside or previous hepatitis C RNA, or a HCV RNA result.
6. The reminder dialogs attached to each definition contain groups with embedded branching logic.
  - a. **The VA-HEPATITIS C RISK ASSESSMENT** reminder dialog contains branching logic in the VA-HEP C RISK ASSMNT TESTING HEADER group to determine whether the options for the VA-HEPATITIS C TESTING reminder should populate the dialog. The instructions for this branching logic are below in the post-installation instructions.

25 5.15.5.10.10 Group: VA-HEP C RISK ASSMNT TESTING HEADER  
Suppressed if Reminder Term ~~VA~~HEP C RISK ASSMNT ORDERS  
OPTION evaluates as FALSE

- b. **The VA-HEPATITIS C RISK ASSESSMENT** also contains branching logic in the embedded VA-HEP C TESTING OPTIONS (ANTI-HCV POS) HEADER group. This branching logic term will not evaluate in the Risk Assessment dialog because it is below another branching logic level. However, the correct options will display in the dialog and the branching logic should not be removed.

- c. **The VA-HEPATITIS C TESTING** reminder dialog contains branching logic in the VA-HEP C TESTING TEXT/OPTIONS group. The branching is triggered by a true evaluation of the VA-HEP C VIRUS ANTIBODY POSITIVE reminder term. The logic determines what options are displayed to the user to resolve the reminder.

If the patient **does not** have a documented positive HCV serology test, then the user will be given options to order and document a previous HCV serology test AND options to document a previous HCV RNA test. The options are below:

Testing Options

- Order anti-HCV lab test - verbal consent obtained...
- Record prior or outside Anti-HCV test.
- Record prior or outside HCV RNA test.
- Stop Testing: HCV lab test not clinically indicated.
- Defer HCV testing for 4 months
- Patient declines HCV lab test.

If the patient has a Positive HCV serology, RNA testing is needed to confirm the presence or absence of HCV.

If the patient **does** have a documented positive HCV serology test, then the user will be given options to order and document a previous HCV RNA test. The options are below:

Testing Options

- Order HCV RNA lab test - verbal consent obtained...
- Record prior or outside HCV RNA test.
- Stop Testing: HCV lab test not clinically indicated.
- Defer HCV testing for 4 months
- Patient declines HCV lab test.

If the patient has a Positive HCV serology, RNA testing is needed to confirm the presence or absence of HCV.

Terms that are used in the logic:

#### VA-RISK FACTOR FOR HEPATITIS C

This term is released with the health factor RISK FACTOR FOR HEPATITIS C. This term includes national taxonomies for alcohol abuse, drug abuse, and HIV infection. Map any local findings that meet the intent of this term in the REMINDER TERM file (811.5).

#### VA-NO RISK FACTORS FOR HEP C

This term is released with the health factor NO RISK FACTORS FOR HEP C. Map any local findings that meet the intent of this term in the REMINDER TERM file (811.5).

### VA-DECLINED HEP C RISK ASSESSMENT

This term is released with the health factor DECLINED HEP C RISK ASSESSMENT. Map any local findings that meet the intent of this term in The REMINDER TERM file (811.5).

### VA-DECLINED HEP C TESTING

This term is released with the health factor DECLINED HEP C TESTING. Map any local findings that meet the intent of this term in The REMINDER TERM file (811.5).

### VA-HEP C OUTSIDE RESULTS

This term is released with the health factors PREV POSITIVE TEST FOR HEP C and PREV NEGATIVE TEST FOR HEP C. Map any local findings that identify the patient as previously assessed for Hepatitis C risk factors in the REMINDER TERM file(811.5).

This term was originally distributed as PREV POSITIVE TESTFOR HEP C, but was changed to provide sites with a way to identify a patient as previously assessed for Hepatitis C risk factors. This term will also be used to document historical positive tests completed outside the facility.

### VA-HEP C VIRUS ANTIBODY POSITIVE

This term is released with the health factor PREVIOUS POSITIVE ANTI-HCV. Map any local findings that meet the intent of this term in The REMINDER TERM file (811.5).

#### **Also:**

Map local HCVA b lab tests with a condition in the REMINDER TERM file. An example of the condition field might be: I V="positive" or I (V["P"]!(V["p"])). The text used in the condition definition (I V="text") should be based on the local LABORATORY TEST file (60) print codes when defined, rather than the result in the LAB DATA file (63).

### VA-HEP C VIRUS ANTIBODY NEGATIVE

This term is released with the health factor PREVIOUS NEGATIVE ANTI-HCV. Map any local findings that meet the intent of this term in The REMINDER TERM file (811.5).

#### **Also:**

Map local HCVA b lab tests with a condition in the REMINDER TERM file. An example of the condition field might be: I V="negative" or I (V["N"]!(V["n"])). The text used in the condition definition (I V="text") should be based on the local LABORATORY TEST file (60) print codes when defined, rather than the result in the LAB DATA file (63).

### VA-HEP C LAB TESTS ORDERED

Map local HCVA b and HCV RNA lab test orderable items in the REMINDER TERM file. The orderable items should have the following status; ACTIVE, PENDING, RENEWED, SCHEDULED.

### VA-LIFE EXPECTANCY <6 MONTHS

This term is released with the health factor VA-TERMINAL CANCER PATIENTS. Map any local findings that identify patients with a terminal illness.

### VA-HEP C RNA

This term is released with the health factors PREVIOUS POSITIVE HCV RNA and PREVIOUS NEGATIVE HCV RNA. Map any local findings that meet the intent of this term in The REMINDER TERM file (811.5).

#### **Also:**

Map local HCV RNA lab tests. If the local site cancels lab tests and enters a "cancel" comment as the result, then a condition will need to be added in the REMINDER TERM preventing the cancelled test from resolving the reminder.

### VA-HEPATITIS C SEROPOSITIVE

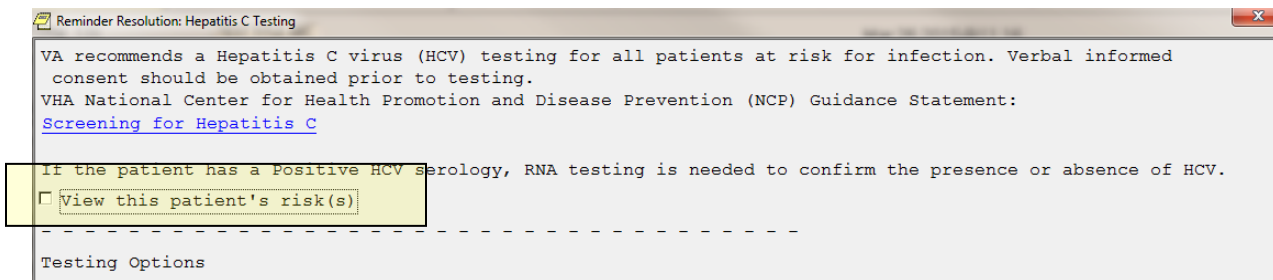
This term includes the national taxonomy VA-HEPATITIS C SEROPOSITIVE. Codes for HCV infection and HCV seropositive

### VA-TERMINAL CANCER PATIENTS

This term included the national taxonomy VA-TERMINAL CANCER PATIENTS. No local mapping is necessary.

### **Hepatitis C testing reminder option to view patient risk(s)**

The Hepatitis C testing reminder dialog has an option for the user to view patient-specific risks, which have triggered the reminder to be due (highlighted below). This group contains three branching logic elements to help clearly communicate the risks. The branching logic uses the same reminder terms as each reminder definition, so no additional local modification is required.



#### 5.2.5 Element: VA-HEP C TESTING RISK BIRTH Suppressed if Reminder Term VA-HEP C evaluates as FALSE

This element will display the following statement if the patient falls within the birth cohort, which is determined by the VA\_HEP C BIRTH COHORT reminder term.



5.2.10 Element: VA-HEP C TESTING RISK POS SEROLOGY  
 Suppressed if Reminder Term VA-HEP C █ █ POSITIVE evaluates as FALSE

This element will display the following statement if the patient has a documented positive hepatitis c antibody lab test, which is determined by the VA\_HEP C VIRUS ANTIBODY POSITIVE reminder term.

The patient has a positive serologic antibody test for HCV. HCV RNA testing is required as a follow-up to any positive serology.

5.2.15 Element: VA-HEP C TESTING RISK OTHER  
 Suppressed if Reminder Term VA-RISK █ HEPATITIS C evaluates as FALSE

This element will display a similar statement as below if the patient has any one of the other hepatitis c risk factors, including the risk factor health factors, codes in the risk factor taxonomies, and any local findings added to the VA-RISK FACTOR FOR HEPATITIS C, which is also the trigger for the branching logic. The TIU object is populated with the clinical maintenance of the VA-HEP C RISK FACTOR OBJECT reminder definition.

This patient (also) has the following documented Hepatitis C risk factors.

Hepatitis C Risk Factors

Cohort:  
 Reminder Term: VA-RISK FACTOR FOR HEPATITIS C  
 Problem Diagnosis:  
 03/24/2015@09:50:16 111880001 (SNOMED CT) Acute HIV infection  
 Date Entered: 03/24/2015; Date Last Modified: 03/24/2015  
 Status: ACTIVE; Priority: CHRONIC  
 Prov. Narr. - Acute human immunodeficiency virus infection

## Pre-Installation

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### Required Software for PXR\*2\*52

Package/Patch	Namespace	Version	Comments
Clinical Reminders	PXR*	2.0	

### Related Documentation

Documentation	Documentation File name
5/20/15	Clinical Reminders PXR*2.0*52 Installation and Setup Guide

**Web Sites**

Site	URL	Description
National Clinical Reminders site	<a href="http://vista.med.va.gov/reminders">http://vista.med.va.gov/reminders</a>	Contains manuals, PowerPoint presentations, and other information about Clinical Reminders
National Clinical Reminders Committee	<a href="http://vaww.portal.va.gov/sites/ncrc/public/default.aspx">http://vaww.portal.va.gov/sites/ncrc/public/default.aspx</a>	This committee directs the development of new and revised national reminders
VistA Document Library	<a href="http://www.va.gov/vdl/">http://www.va.gov/vdl/</a>	Contains manuals for Clinical Reminders and

**CAC/HIS Pre-installation Instructions**

Each site probably has an existing reminder definition and dialog for the Hepatitis C Risk Assessment and Hepatitis C Screen.

1. Identify any local health factors that represent the same concept as health factors included in this patch. After installation add the appropriate health factor to the appropriate term described above,
2. Identify local lab tests and orderable items that represent the HCV RNA and anti-HCV labs. After installation add appropriate orderable items to the appropriate terms described above.
3. Make a copy of the reminder inquiry details of any local Hepatitis C Risk Assessment and/or Hepatitis C Screen/Testing reminders. This information can be used to insure the new reminders include local findings from previous versions.
4. **Note: The patch will change reminder definition VA-HEP C RISK ASSESSMENT to VA-HEPATITIS C RISK ASSESSMENT. All mapped terms in VA-HEP C RISK ASSESSMENT will remain intact in the updated name.**

# Installation

---

*This patch can be installed with users on the system, but it should be done during non-peak hours.  
Estimated Installation Time: 10-15 minutes*

*The installation needs to be done by a person with DUZ(0) set to "@."*

**NOTE: We recommend that a Clinical Reminders Manager or CAC be present during the install, so that if questions occur during the install of Reminder Exchange entries, a knowledgeable person can respond to them.**

**1. Retrieve the host file from one of the following locations (with the ASCII file type):**

Albany	REDACTED	REDACTED
Hines	REDACTED	REDACTED
Salt Lake City	REDACTED	REDACTED

**2. Install the patch 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 type, D ^XUP, select the Kernel Installation & Distribution System menu (XPD MAIN), then the Installation option, and then the option LOAD a Distribution. Enter your directory name. KID at the Host File prompt.

**Example**

```
Select Installation Option:  LOAD a Distribution
Enter a Host File:<your directory>PXRM_2_0_52.KID
KIDS Distribution saved on
```

From the Installation menu, you may elect to use the following options:

**4. 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.

**5. 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.).

**6. Install the build.**

From the Installation menu on the Kernel Installation and Distribution System (KIDS) menu, run the option Install Package(s). Select the build PXRM and proceed with the install. If you have

problems with the installation, log a Remedy ticket and/or call the National Help Desk to report the problem.

Answer "NO" to the following prompts:

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

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

### **Installation Example**

See [Appendix A](#).

## **7. Install File Print**

Use the KIDS Install File Print option to print out the results of the installation process. You can select the multi-package build or any of the individual builds included in the multi-package build.

```
Select Utilities Option: Install File Print
Select INSTALL NAME: PXRМ*2.0*52
```

## **8. Build File Print**

Use the KIDS Build File Print option to print out the build components.

## **9. Post-installation routines**

After successful installation, the following init routines may be deleted:

# **Post-Install Set-up Instructions**

---

## **1. Map local lab tests**

### **A. Map HCV RNA lab tests and health factors**

Map to this term: VA-HEP C RNA

Description:

Map any local health factors that represent previous or outside HCV RNA results. Also, map local HCV RNA lab tests. If the local site cancels lab tests and enters a "cancel" comment as the result, then a condition will need to be added in the REMINDER TERM preventing the cancelled test from resolving the reminder.

Condition example: I V'["CANC"]

### **B. Map HCV lab tests with a positive result**

Map to this term: VA-HEP C VIRUS ANTIBODY POSITIVE

Description:

Map any local health factors that represent previous or outside positive HCV serology results. Also, map local HCVA b lab tests with a condition. The text used in the condition definition (I V="text") should be based on the local LABORATORY TEST file (60) print codes when defined, rather than the result in the LAB DATA file (63).

Condition example(s): I V="positive" or I (V["P"])(V["p"]).

### **C. Map HCV lab tests with a negative result**

Map to this term: VA-HEP C VIRUS ANTIBODY NEGATIVE

Description:

Map any local health factors that represent previous or outside negative HCV serology results. Also, map local HCVA b lab tests with a condition. The text used in the condition definition (I V="text") should be based on the local LABORATORY TEST file (60) print codes when defined, rather than the result in the LAB DATA file (63).

Condition example(s): I V="negative" or I (V["N"])(V["n"]).

## **2. Map any existing local health factors**

A. Map your local health factors for Hepatitis C risk factors to the reminder term:  
VA-RISK FACTOR FOR HEPATITIS C

B. Map your local health factors that represent no Hepatitis C risk factors present to the reminder term:  
VA-NO RISK FACTORS FOR HEP C

C. Map your local health factors that represent a patient declined the Hepatitis C risk assessment to the reminder term:

VA-DECLINED HEP C RISK ASSESSMENT

D. Map your local health factors that represent a patient declined the Hepatitis C test to the reminder term:

VA-DECLINED HEP C TESTING

E. Map your local health factors that identify the patient as previously assessed for Hepatitis C risk factors to the reminder term:

VA-HEP C OUTSIDE RESULTS

### 3. Map your local orderable items for HCV lab tests

Map your local orderable items for HCV serology and HCV RNA lab tests to the reminder term:

VA-HEP C LAB TESTS ORDERED

Map local HCV Ab and HCV RNA orderable items in the REMINDER TERM file. The orderable items should have the following status; ACTIVE, PENDING, RENEWED, SCHEDULED.

The orders will resolve the reminders for 6 months or until they are resulted.

### 4. Map any limited life expectancy health factors

Map any limited life expectancy health factors to the reminder term:

VA-LIFE EXPECTANCY <6 MONTHS

### 5. Embed appropriate HCV serology lab quick order

The VA-HEPATITIS C TESTING dialog has an option for a provider to order a HCV serology lab. The element VA-HEP C TESTING ORDER ANTI-HCV needs to be mapped to the appropriate local HCV serology lab test order for the option to work correctly.

1. Find the VA-HEP C TESTING ORDER ANTI-HCV element and select EDIT
2. Place the quick order name in the FINDING ITEM field (example below).

Dialog Name: VA-HEP C TESTING ORDER ANTI-HCV

Current dialog element/group name: VA-HEP C SCREEN ORDER ANTI-HCV

Used by: VA-HEP C TESTING TEXT/OPTIONS (Dialog Group)

FINDING ITEM:Q.LRZ ANTI-HCV LAB ORDER

## 6. Embed appropriate HCV RNA lab quick order

The VA-HEP C TESTING OPTIONS (ANTI-HCV POS) group has an option for a provider to order a HCV RNA lab. This group is a replacement group for branching logic, so it can be accessed by searching for the dialog group in the DIALOG GROUPS view of dialog. The element VA-HEP C TESTING ORDER HCV RNA needs to be mapped to the appropriate local HCV RNA lab test order for the option to work correctly.

1. Find the VA-HEP C TESTING ORDER HCV RNA element and select EDIT
2. Place the quick order name in the FINDING ITEM field (example below).

Dialog Name: VA-HEP C TESTING ORDER HCV RNA

Current dialog element/group name: ~~VAEC~~ SCREEN ORDER HCV RNA

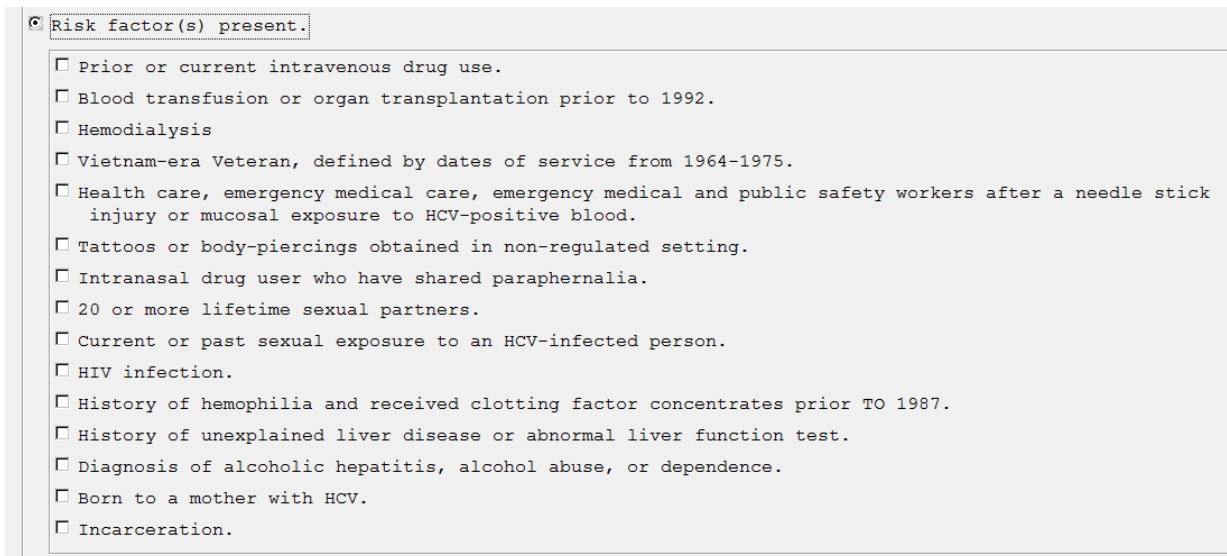
FINDING ITEM:Q.LRZ HCV RNA LAB ORDER

## 7. Activate or inactivate the optional hepatitis C risk factor list in the VA-HEPATITIS C RISK ASSESSMENT reminder dialog.

The dialog linked to the VA-HEPATITIS C RISK ASSESSMENT definition has a group that displays a list of hepatitis C risk factors for the user to choose to apply to a patient's record (below). Each option has a distinct health factor. The list is included for sites that want providers to document specific risk factors.

The group name is HEP C RISK ASSMNT RISK FACTOR OPTIONS. It has a "local" class, so it can be disabled/enabled depending on the site's preference to include the list in the dialog or not.

The health factors in the elements in this group have no function in the reminder logic, so the reminders will work correctly whether the group is enabled or disabled.



Risk factor(s) present.

- Prior or current intravenous drug use.
- Blood transfusion or organ transplantation prior to 1992.
- Hemodialysis
- Vietnam-era Veteran, defined by dates of service from 1964-1975.
- Health care, emergency medical care, emergency medical and public safety workers after a needle stick injury or mucosal exposure to HCV-positive blood.
- Tattoos or body-piercings obtained in non-regulated setting.
- Intranasal drug user who have shared paraphernalia.
- 20 or more lifetime sexual partners.
- Current or past sexual exposure to an HCV-infected person.
- HIV infection.
- History of hemophilia and received clotting factor concentrates prior TO 1987.
- History of unexplained liver disease or abnormal liver function test.
- Diagnosis of alcoholic hepatitis, alcohol abuse, or dependence.
- Born to a mother with HCV.
- Incarceration.

## 8. Decide whether or not to include the Hepatitis C Testing dialog in the Hepatitis C Risk Assessment.

The Hepatitis C Risk Assessment dialog includes the options for documenting a Hepatitis C Testing in the positive risk assessment option (below). This is included for sites that want the ability to resolve both reminders in the same encounter as their reminder processing allows. This function is optional.

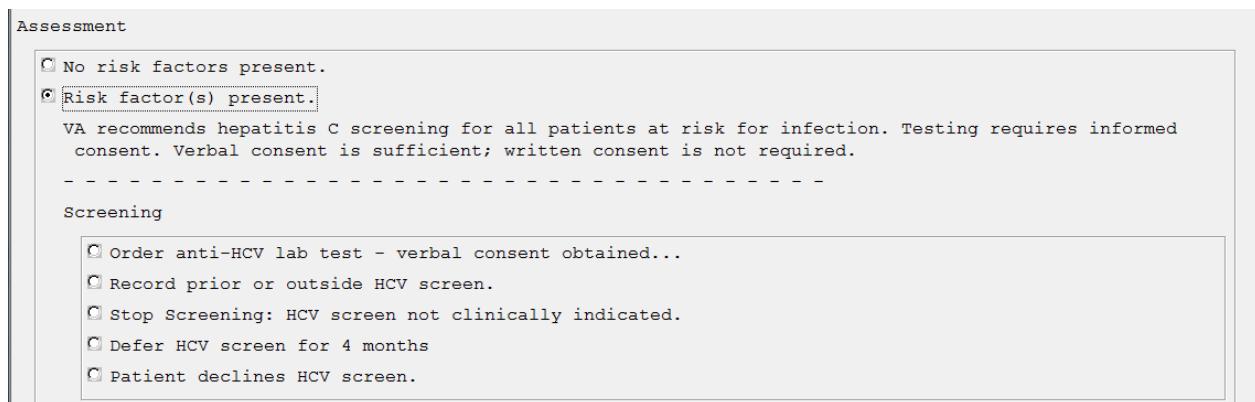
The screening section in the risk assessment is controlled with branching logic within the VA-HEPATITIS C RISK ASSESSMENT dialog. The group named VA HEP C RISK ASSMNT TESTING HEADER has a reminder term VA-BL HEP C RISK ASSMNT ORDER OPTION, which decides whether to display the options or not.

### To display the screen options in the risk assessment:

Do nothing. The term is installed with the computed finding VA-AGE, which is evaluated as TRUE for all patients and displays the screen options.

### To remove the screen options from the risk assessment:

Remove the VA-AGE computed finding from the term and leave the term blank. The term will evaluate as FALSE and the screen options will not display to the user in the VA-HEPATITIS C RISK ASSESSMENT.



Assessment

No risk factors present.

Risk factor(s) present.

VA recommends hepatitis C screening for all patients at risk for infection. Testing requires informed consent. Verbal consent is sufficient; written consent is not required.

-----

Screening

Order anti-HCV lab test - verbal consent obtained...

Record prior or outside HCV screen.

Stop Screening: HCV screen not clinically indicated.

Defer HCV screen for 4 months

Patient declines HCV screen.

## Appendix A: Installation Example

---

Select Installation <TEST ACCOUNT> Option: 1 Load a Distribution  
Enter a Host File: <your directory>PXRM\_2\_0\_52.KID

KIDS Distribution saved on Apr 15, 2015@12:37:27  
Comment: HEPATITIS C REMINDERS

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

OK to continue with Load? NO// YES

Distribution OK!

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

PXRM\*2.0\*52  
Use INSTALL NAME: PXRM\*2.0\*52 to install this Distribution.

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

Select Installation <TEST ACCOUNT> Option: Install Package(s)  
Select INSTALL NAME: PXRM\*2.0\*52 5/19/15@09:33:35  
=> HEPATITIS C REMINDERS ;Created on Apr 15, 2015@12:37:27

This Distribution was loaded on May 19, 2015@09:33:35 with header of  
HEPATITIS C REMINDERS ;Created on Apr 15, 2015@12:37:27

It consisted of the following Install(s):  
PXRM\*2.0\*52  
Checking Install for Package PXRM\*2.0\*52

Install Questions for PXRM\*2.0\*52

Incoming Files:

### 811.8 REMINDER EXCHANGE (including data)

Note: You already have the 'REMINDER EXCHANGE' File.  
I will OVERWRITE your data with mine.

Want KIDS to INHIBIT LOGONs during the install? NO//  
Want to DISABLE Scheduled Options, Menu Options, and Protocols? 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// TELNET PORT

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Install Started for PXR\*2.0\*52 :  
May 19, 2015@09:33:44

Build Distribution Date: Apr 15, 2015

Installing Routines:  
May 19, 2015@09:33:44

Running Pre-Install Routine: PRE^PXRMP52I

Installing Data Dictionaries:  
May 19, 2015@09:33:44

Installing Data:  
May 19, 2015@09:33:46

Running Post-Install Routine: POST^PXRMP52I

There are 2 Reminder Exchange entries to be installed.

1. Installing Reminder Exchange entry PATCH PXR\*2\*52 HEPATITIS C REMINDERS
2. Installing Reminder Exchange entry VA-VETERANS CHOICE COMPONENT UPDATE

Linking and enabling dialogs

Linking and enabling reminder dialog VA-HEPATITIS C RISK ASSESSMENT to reminder definition VA-HEPATITIS C RISK ASSESSMENT.

Linking and enabling reminder dialog VA-HEPATITIS C TESTING to reminder definition VA-HEPATITIS C TESTING.

Updating Routine file...

Updating KIDS files...

PXR\*2.0\*52 Installed.  
May 19, 2015@09:34:41

Not a production UCI

PXR\*2.0\*52

Install Completed

## Acronyms

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The OIT Master Glossary is available at

[http://vaww.oed.wss.va.gov/process/Library/master\\_glossary/masterglossary.htm](http://vaww.oed.wss.va.gov/process/Library/master_glossary/masterglossary.htm)

Term	Definition
ASU	Authorization/Subscription Utility
Clin4	National Customer Support team that supports Clinical Reminders
CPRS	Computerized Patient Record System
DBA	Database Administration
DG	Registration and Enrollment Package namespace
ESM	Enterprise Systems Management (ESM)
FIM	Functional Independence Measure
GMTS	Health Summary namespace (also HSUM)
GUI	Graphic User Interface
HRMH/HRMHP	High Risk Mental Health Patient
IAB	Initial Assessment & Briefing
ICD-10	International Classification of Diseases, 10th Edition
ICR	Internal Control Number
IOC	Initial Operating Capabilities
LSSD	Last Service Separation Date
MH	Mental Health
MHTC	Mental Health Treatment Coordinator
OHI	Office of Health Information
OI	Office of Information
OIF/OEF	Operation Iraqi Freedom/Operation Enduring Freedom
OIT/OI&T	Office of Information Technology
OMHS	Office of Mental Health Services

<b>Term</b>	<b>Definition</b>
ORR	Operational Readiness Review
PCS	Patient Care Services
PD	Product Development
PIMS	Patient Information Management System
PMAS	Program Management Accountability System
PTM	Patch Tracker Message
PXRM	Clinical Reminder Package namespace
RSD	Requirements Specification Document
SD	Scheduling Package Namespace
SQA	Software Quality Assurance
USR	ASU package namespace
VA	Department of Veteran Affairs
VHA	Veterans Health Administration
VISN	Veterans Integrated Service Network
VistA	Veterans Health Information System and Technology Architecture