



**Update \_2\_0\_275**

**Clinical Reminders**

**VA-HCC (Hepatocellular Carcinoma) SURVEILLANCE  
REMINDER**

**Install Guide**

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Product Development  
Office of Information Technology  
Department of Veterans Affairs

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## **Introduction**

People with cirrhosis and some people with chronic hepatitis B are at increased risk of hepatocellular carcinoma. Surveillance ultrasound with or without alpha-fetoprotein (AFP) every 6 months is recommended. This reminder was developed by the National Gastroenterology & Hepatology Program for use by primary care providers.

### **COHORT:**

Any patient with one inpatient or two outpatient cirrhosis diagnoses  
or

Some patients with chronic hepatitis B

2 positive Hep B Surface Antigen (HBsAg) and/or HBV DNA results 6 months apart:

African/African American 20 and older

Asian/Pacific Islander male 40 and older

Asian/Pacific Islander female 50 and older

### **RESOLUTION:**

Imaging for liver and HCC (US, MRI, or CT)

Outside imaging results documented

Patient refusal

### **NOT APPLICABLE:**

Diagnosis for known HCC

Limited life expectancy

Incorrect diagnosis documented

Community liver care

UPDATE\_2\_0\_275 contains 1 Reminder Exchange entry:

UPDATE\_2\_0\_275 VA-HCC REMINDER

**The exchange file contains the following components:**

### **HEALTH FACTORS**

VA-REMINDER UPDATES [C]

VA-UPDATE\_2\_0\_275

VA-HCC LIVER CANCER [C]

VA-HCC INCORRECT DIAGNOSIS CHRONIC HBV

VA-HCC INCORRECT DIAGNOSIS CIRRHOSIS

VA-HCC NON-VA LIVER CARE

VA-HCC SURVEILLANCE NOT INDICATED

VA-HCC SURVEILLANCE DECLINES IMAGING

OUTSIDE RESULTS [C]

OUTSIDE AFP RESULT

OUTSIDE ULTRASOUND/CT OF LIVER RESULT

### **REMINDER SPONSOR**

NATIONAL GASTROENTEROLOGY & HEPATOLOGY PROGRAM  
NATIONAL CENTER FOR HEALTH PROMOTION AND DISEASE  
PREVENTION (NCP)

**REMINDER TAXONOMY**

VA-HEPATOCELLULAR CARCINOMA  
VA-LIVER CANCER PROCEDURE/IMAGING  
VA-ADVANCED LIVER DISEASE DX CODES

**REMINDER TERM**

VA-REMINDER UPDATE\_2\_0\_275  
VA-RACE BLACK OR AFRICAN AMERICAN RT  
VA-HEPATITIS B SURFACE ANTIGEN  
VA-HCC DECLINES IMAGING FOR SURVEILLANCE  
VA-HCC IMAGING FOR LIVER CANCER  
VA-HCC IMAGING OI RT  
VA-HCC INCORRECT DIAGNOSIS OF CIRRHOSIS  
VA-HCC INCORRECT DIAGNOSIS OF CHRONIC HBV  
VA-RACE ASIAN OR NATIVE HAWAIIAN/PACIFIC ISLANDER RT  
VA-HCC SURVEILLANCE NOT INDICATED  
VA-HCC HEPATITIS B VIRUS DNA RT  
VA-HCC ADVANCED LIVER DISEASE DX

**REMINDER DEFINITION**

VA-HCC SURVEILLANCE

**REMINDER DIALOG**

VA-HCC SURVEILLANCE

**Pre-Install**

1. Print a copy of the following terms. **This term should be skipped during installation.** Use the printed copy to compare the terms post-installation to confirm the term has not changed.
  - a. VA-HEPATITIS B SURFACE ANTIGEN
  
2. Coordinate with appropriate staff to gather the appropriate findings for the following terms to map during post-installation.
  - a. VA-HCC HEPATITIS B VIRUS DNA RT
    - i. **All local HBV DNA lab tests should be mapped to this term.** Coordinate with the local Lab Information Manager and/or clinical staff to identify the correct lab tests.

- b. VA-HCC IMAGING OI RT
    - i. **Any local abdominal ultrasound orderable items appropriate for liver cancer screening should be mapped to this term. Many sites may have only one ultrasound appropriate for screening.** Coordinate with local clinical staff to identify the correct abdominal ultrasounds.
3. Identify local quick orders for the following to map to the reminder dialog during post-installation.
- a. Abdominal ultrasound appropriate for liver cancer screening
  - b. Alfa-fetoprotein lab test
  - c. Consult order for GI and/or hepatology

## Install Details

This update is being distributed as a web host file. The address for the host file is:  
**https://REDACTED/UPDATE\_2\_0\_275.PRD**

The file will be installed using Reminder Exchange, programmer access is not required.

Installation:

=====

This update can be loaded with users on the system. Installation will take less than 10 minutes.


## Install Example

To Load the exchange file, use LWH. The URL is

**https://REDACTED/UPDATE\_2\_0\_275.PRD**

```

CFE Create Exchange File Entry      LHF Load Host File
CHF Create Host File                LMM Load MailMan Message
CMM Create MailMan Message          LR List Reminder Definitions
DFE Delete Exchange File Entry      LWH Load Web Host File
IFE Install Exchange File Entry     RI Reminder Definition Inquiry
IH Installation History              RP Repack
Select Action: Next Screen// lwh    Load Web Host File
Input the URL for the .prd file: https://[REDACTED]/UPDATE_2_0_275.PRD
  
```



Search and locate an entry titled UPDATE\_2\_0\_275 VA-HCC SURVEILLANCE REMINDER in reminder exchange.

```
341 UPDATE_2_0_275 VA-HCC
SURVEILLANCE REMINDER
342 UPDATE_2_0_279 VA-PHASER PPI
CROCS
343 UPDATE_2_0_28
VA-MENINGOCOCCAL IMMUNIZATIONS
344 UPDATE_2_0_28
VA-MENINGOCOCCAL IMMUNIZATIONS
345 UPDATE_2_0_29 VA-HOMELESSNESS
FOOD INSECURITY
+ + Next Screen - Prev Screen ?? More Actions >>>
CFE Create Exchange File Entry LHF Load Host File
CHF Create Host File LMM Load MailMan Message
CMM Create MailMan Message LR List Reminder Definitions
DFE Delete Exchange File Entry LWH Load Web Host File
IFE Install Exchange File Entry RI Reminder Definition Inquiry
IH Installation History RP Repack
Select Action: Next Screen// IFE Install Exchange File Entry
Enter a list or range of numbers (1-587): 341
```



At the **Select Action** prompt, enter **IFE** for Install Exchange File Entry  
Enter the number that corresponds with your entry titled UPDATE\_2\_0\_275 VA- HCC SURVEILLANCE REMINDER (*in this example it is entry 341, it will vary by site*) that is dated 05/27/2022.

This update adds a new reminder sponsor, which is linked to the new health factors. Install the reminder sponsor first to prevent errors when installing all.

Select **IS** for **Install Selected Component** and choose component **13**. Then select **Install**.

```
IA Install all Components IS Install Selected Component
Select Action: Next Screen// IS Install Selected Component
Select Component(s): (1-31): 13
```

```
REMINDER SPONSOR entry NATIONAL GASTROENTEROLOGY & HEPATOLOGY PROGRAM is NEW,
what do you want to do?

Select one of the following:

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

Enter response: I// nstall
```

+	Component	Category	Exists
8	VA-HCC SURVEILLANCE NOT INDICATED		
9	VA-HCC SURVEILLANCE DECLINES IMAGING		
10	OUTSIDE RESULTS [C]	X	X
11	OUTSIDE AFP RESULT		
12	OUTSIDE ULTRASOUND/CT OF LIVER RESULT		
REMINDER SPONSOR			
13	NATIONAL GASTROENTEROLOGY & HEPATOLOGY PROGRAM		X
14	VA NATIONAL CENTER FOR HEALTH PROMOTION AND DISEASE PREVENTION (NCP)		X
REMINDER COMPUTED FINDINGS			
	VA-RACE 2003		X
REMINDER TAXONOMY			
15	VA-HEPATOCELLULAR CARCINOMA		
+ + Next Screen - Prev Screen ?? More Actions >>>			
IA	Install all Components	IS	Install Selected Component
Select Action: Next Screen// IA			

At the **Select Action** prompt, type **IA** for Install all Components and hit enter.

For all new entries choose **I to Install**

For existing items choose **SKIP**. Do not overwrite the **VA-HEPATITIS B SURFACE ANTIGEN reminder term!**

You will then be prompted to install the Dialog component.

Item	Seq.	Dialog Findings	Type	Exists	
1		VA-HCC SURVEILLANCE	dialog		
2	1	VA-HCC SURVEILLANCE TEMPLATE VERSION Finding: *NONE*	element		
3	5	VA-HCC SURVEILLANCE INTRODUCTION Finding: *NONE*	element		
4	10	VA-HCC SURVEILLANCE DETAIL INFORMATION Finding: VIEW PROGRESS NOTE TEXT (REMINDER GENERAL FINDING)	element	X	
5		PXRM GF VIEW BUTTON	prompt	X	
6	15	VA-BLANK LINE DIALOG & NOTE Finding: *NONE*	element	X	
+ + Next Screen - Prev Screen ?? More Actions					
DD	Dialog Details	DT	Dialog Text	IS	Install Selected
DF	Dialog Findings	DU	Dialog Usage	QU	Quit
DS	Dialog Summary	IA	Install All		
Select Action: Next Screen// IA					

At the **Select Action** prompt, type **IA** to install the dialog – **VA-HCC SURVEILLANCE**

**Hit enter when prompted to link to the definition.**

Install reminder dialog and all components with no further changes: Y// ES....

Select Reminder to Link: VA-HCC SURVEILLANCE// **VA-HCC SURVEILLANCE**

```

VA-HCC SURVEILLANCE (reminder dialog) installed from exchange file.

```

Item	Seq.	Dialog Findings	Type	Exists
1		VA-HCC SURVEILLANCE	dialog	X
2	1	VA-HCC SURVEILLANCE TEMPLATE VERSION Finding: *NONE*	element	X
3	5	VA-HCC SURVEILLANCE INTRODUCTION Finding: *NONE*	element	X
4	10	VA-HCC SURVEILLANCE DETAIL INFORMATION Finding: VIEW PROGRESS NOTE TEXT (REMINDER GENERAL FINDING)	element	X
5		PXRM GF VIEW BUTTON	prompt	X
6	15	VA-BLANK LINE DIALOG & NOTE Finding: *NONE*	element	X

```

+      + Next Screen  - Prev Screen  ?? More Actions
DD  Dialog Details      DT  Dialog Text      IS  Install Selected
DF  Dialog Findings    DU  Dialog Usage    QU  Quit
DS  Dialog Summary     IA  Install All
Select Action: Next Screen// Q

```

When the dialog has completed installation, you will then be returned to this screen. At the **Select Action** prompt, type **Q**.

```

Package Version: 2.0P71

Description:
The following Clinical Reminder items were selected for packing:
REMINDER DIALOG
  VA-HCC SURVEILLANCE

REMINDER TERM
  VA-REMINDER UPDATE_2_0_275

REMINDER DEFINITION
  VA-HCC SURVEILLANCE

Keywords:

```

	+ Next Screen	- Prev Screen	?? More Actions	>>>
IA	Install all Components		IS	Install Selected Component

```

Select Action: Next Screen// Q

```

You will then be returned to this screen. At the **Select Action** prompt, type **Q**.

Install complete.



## Post-Installation

1. **Coordinate with local staff and add local Hepatitis B Virus DNA lab test(s) to the reminder term VA-HCC HEPATITIS B VIRUS DNA RT.** Add the below text string to the CONDITION field, so the term is evaluated as true if the lab test is positive.

CF      Reminder Computed Finding Management ...  
RM      Reminder Definition Management ...  
SM      Reminder Sponsor Management ...  
TXM     Reminder Taxonomy Management  
TRM     Reminder Term Management ...  
LM      Reminder Location List Management ...  
RX      Reminder Exchange  
RT      Reminder Test  
OS      Other Supporting Menus ...  
INFO    Reminder Information Only Menu ...  
DM      Reminder Dialog Management ...  
CP      CPRS Reminder Configuration ...  
RP      Reminder Reports ...  
MST     Reminders MST Synchronization Management ...  
PL      Reminder Patient List Menu ...  
PAR     Reminder Parameters ...  
VS      NLM Value Set Menu  
ROC     Reminder Order Check Menu ...  
CQM     NLM Clinical Quality Measures Menu  
XM      Reminder Extract Menu ...

Select Reminder Managers Menu <TEST ACCOUNT> Option: **TRM**

TL      List Reminder Terms  
TI      Inquire about Reminder Term  
TE      Add/Edit Reminder Term  
TC      Copy Reminder Term  
TICS    Integrity Check Selected  
TICA    Integrity Check All  
TEST    Term Test

Select Reminder Term Management <TEST ACCOUNT> Option: **TE**

Select Reminder Term: **VA-HCC HEPATITIS B VIRUS DNA**

Reminder Term has no findings!

Select Finding: **Enter "LT." then the name of the lab test**

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

Searching for a LABORATORY TEST  
HBV DNA  
...OK? Yes//**Yes**  
Are you adding 'HBV DNA' as a new FINDINGS? No// **Yes**  
Editing Finding Number: 1  
FINDING ITEM: HBV DNA//  
BEGINNING DATE/TIME:  
ENDING DATE/TIME:  
OCCURRENCE COUNT:  
CONDITION: **Enter "I +V>0"**  
CONDITION CASE SENSITIVE: NO//  
USE STATUS/COND IN SEARCH:

## 2. Add local orderable item(s) for abdominal ultrasounds to the reminder term VA-HCC IMAGING OI RT.

CF Reminder Computed Finding Management ...  
RM Reminder Definition Management ...  
SM Reminder Sponsor Management ...  
TXM Reminder Taxonomy Management  
TRM Reminder Term Management ...  
LM Reminder Location List Management ...  
RX Reminder Exchange  
RT Reminder Test  
OS Other Supporting Menus ...  
INFO Reminder Information Only Menu ...  
DM Reminder Dialog Management ...  
CP CPRS Reminder Configuration ...  
RP Reminder Reports ...  
MST Reminders MST Synchronization Management ...  
PL Reminder Patient List Menu ...  
PAR Reminder Parameters ...  
VS NLM Value Set Menu  
ROC Reminder Order Check Menu ...  
CQM NLM Clinical Quality Measures Menu  
XM Reminder Extract Menu ...

Select Reminder Managers Menu <TEST ACCOUNT> Option: **TRM**

TL List Reminder Terms  
TI Inquire about Reminder Term  
TE Add/Edit Reminder Term  
TC Copy Reminder Term  
TICS Integrity Check Selected  
TICA Integrity Check All  
TEST Term Test

Select Reminder Term Management <TEST ACCOUNT> Option: **TE**

Select Reminder Term: **VA-HCC IMAGING OI RT**

Select Finding: **Enter "OI" then name of abdominal ultrasound order**

Are you adding 'ULTRASOUND' as a new FINDINGS? No//**Yes**

Editing Finding Number: 1

FINDING ITEM: ULTRASOUND//

BEGINNING DATE/TIME:

ENDING DATE/TIME:

OCCURRENCE COUNT:

USE START DATE:

CONDITION:

CONDITION CASE SENSITIVE: NO//

USE STATUS/COND IN SEARCH:

No statuses defined for this finding item

Select one of the following:

A	ADD STATUS
D	DELETE A STATUS
S	SAVE AND QUIT
Q	QUIT WITHOUT SAVING CHANGES

Enter response: S// **ADD STATUS**

1 - \* (Wildcard)

2 - ACTIVE

3 - CANCELLED

4 - COMPLETE

5 - DELAYED

6 - DISCONTINUED

7 - DISCONTINUED/EDIT

8 - EXPIRED

9 - FLAGGED

10 - HOLD

11 - LAPSED

12 - NO STATUS

13 - PARTIAL RESULTS

14 - PENDING

15 - RENEWED

16 - SCHEDULED

17 - UNRELEASED

Select a Order Status from or enter '^' to Quit: (1-17): **2,15,16,14**

Statuses already defined for this finding item:

ACTIVE

PENDING

RENEWED

SCHEDULED

Select one of the following:

A	ADD STATUS
D	DELETE A STATUS
S	SAVE AND QUIT
Q	QUIT WITHOUT SAVING CHANGES

Enter response: **SAVE AND QUIT**

3. **Confirm the reminder term VA-HEPATITIS B SURFACE ANTIGEN matches the printed copy completed in pre-installation. Edit as necessary.**
4. Map the appropriate local order dialogs to FINDING ITEM field in the following elements.
  - a VA-HCC SURVEILLANCE ULTRASOUND ORDER  
FINDING ITEM: Enter "Q." then the name of the local order for abdominal ultrasound.
  - b VA-HCC SURVEILLANCE AFP ORDER  
FINDING ITEM: Enter "Q." then the name of the local order for Alfa-fetoprotein test.
  - c VA-HCC SURVEILLANCE GI/LIVER CONSULT ORDER  
FINDING ITEM: Enter "Q." then the name of the local consult order for GI and/or hepatology.
5. **Add the new reminder to the cover sheet for the appropriate users.** You will use the Add Cover Sheet Reminder option in CPRS. The print name is "**Liver Cancer (HCC) Surveillance**". Because this is a new reminder, you may want to turn on only for a few individuals to test before expanding usage.