Update _2_0_275

Clinical Reminders

VA-HCC (Hepatocellular Carcinoma) SURVEILLANCE REMINDER

Install Guide

July 2022

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.
   i. Abdominal ultrasound appropriate for liver cancer screening
   ii. Alfa-fetoprotein lab test
   iii. 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://vaww.va.gov/reminders/docs/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

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                X
       DISEASE PREVENTION (NCP)

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        element
            Finding: *NONE*

    3    5 VA-HCC SURVEILLANCE INTRODUCTION            element
            Finding: *NONE*

    4   10 VA-HCC SURVEILLANCE DETAIL INFORMATION      element
            Finding: VIEW PROGRESS NOTE TEXT (REMINDER GENERAL FINDING)    X
    5    PXRM GF VIEW BUTTON                           prompt       X

    6   15 VA-BLANK LINE DIALOG & NOTE                 element      X
            Finding: *NONE*


+          + 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              element    X
          Finding: *NONE*

   3    5 VA-HCC SURVEILLANCE  INTRODUCTION                  element    X
          Finding: *NONE*

   4   10 VA-HCC SURVEILLANCE  DETAIL INFORMATION            element    X
          Finding: VIEW PROGRESS NOTE TEXT (REMINDER GENERAL FINDING)   X
   5    PXRM GF VIEW BUTTON                                  prompt     X

   6   15 VA-BLANK LINE DIALOG & NOTE                        element    X
          Finding: *NONE*

+          + 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.