



Update_2_0_473

Clinical Reminders

VA-CIRRHOSIS MELD SCORE SCREEN

Install Guide

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Product Development
Office of Information Technology
Department of Veterans Affairs

Table of Contents

INTRODUCTION	1
PRE-INSTALL	3
INSTALL DETAILS	3
INSTALL EXAMPLE	4
POST INSTALLATION	7

Introduction

This update contains a new cover sheet clinical reminder will be used to assist the user in consideration of ordering a Consult for Liver Transplant assessment for patients with Model for End-Stage Liver Disease (MELD) Score >14.

The MELD score is a standard used by the Organ Procurement and Transplantation Network (OPTN) to determine who is the highest priority to receive liver transplants in the US. Patients with a diagnosis of cirrhosis and MELD >14 should be followed by liver specialists and have an assessment to consider liver transplant.

Cohort: Patients with a Dx of Cirrhosis

DUE ANNUALLY for patients with a Diagnosis of Cirrhosis within the past 2 years.

- If consult to GI/Liver is ordered, reminder will resolve and be DUE ANNUALLY
- If patient declines consult to GI/Liver, reminder will resolve and be DUE ANNUALLY
- If consult not currently indicated, repeat MELD in 1Y, will resolve and be DUE ANNUALLY
- If not clinically indicated due to co-morbidities, non-liver malignancies, frailty, etc., reminder will resolve and be DUE ANNUALLY
- If patient is currently being treated by GI/Liver reminder will resolve and be DUE ANNUALLY
- If required labs were ordered reminder will resolve but will come due again after 3M
- If patient has incorrect diagnosis, once chart is corrected, the patient will be removed from Cohort.

UPDATE_2_0_473 contains 1 Reminder Exchange entry:

UPDATE_2_0_473 VA-CIRRHOSIS LIVER TRANSPLANT SCREEN

The exchange file contains the following components:

TIU TEMPLATE FIELD

VA-CDS MED CALCULATOR

HEALTH FACTORS

VA-REMINDER UPDATES [C]

VA-UPDATE_2_0_473

VA-CIRRHOSIS LIVER TRANSPLANT [C]

VA-CIRRHOSIS LIVER INCORRECT CIRRHOSIS DX

VA-CIRRHOSIS LIVER PT TREATED BY SPECIALTY

VA-CIRRHOSIS LIVER NOT CLINICALLY INDICATED

VA-CIRRHOSIS LIVER MELD SCORE <15

VA-CIRRHOSIS LIVER PT DECLINE

VA-CIRRHOSIS LIVER CONSULT TRANSPLANT EVAL

VA-CIRRHOSIS LIVER LABS ORDERED
VA-CIRRHOSIS LIVER MELD SCORE
REMINDER FACTORS [C]
LIFE EXPECTANCY < 6 MONTHS

REMINDER SPONSOR

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

REMINDER TAXONOMY

VA-TERMINAL CANCER PATIENTS
VA-CIRRHOSIS DX

REMINDER TERM

VA-REMINDER UPDATE_2_0_473
VA-CIRRHOSIS INR
VA-CIRRHOSIS SODIUM
VA-CIRRHOSIS ALBUMIN
VA-CIRRHOSIS BILIRUBIN
VA-CIRRHOSIS CREATININE
VA-CIRRHOSIS TREATED BY SPECIALTY
VA-CIRRHOSIS INCORRECT DX
VA-CIRRHOSIS NOT CLINICALLY INDICATED
VA-CIRRHOSIS LABS ORDERED
VA-LIFE EXPECTANCY < 6 MONTHS
VA-CIRRHOSIS PT DECLINES
VA-CIRRHOSIS CONS TO SPECIALITY
VA-CIRRHOSIS DX

REMINDER DEFINITION

VA-BL CIRRHOSIS LIVER NO LABS DONE
VA-CIRRHOSIS LIVER TRANSPLANT SCREEN

REMINDER DIALOG

VA-CIRRHOSIS LIVER TRANSPLANT SCREEN

Pre-Install

1. **Coordinate with and provide your local Lab Information Management (LIM)/Lab ADPAC with the following 5 lab test listed.** Confirm and verify existence of lab tests with LIM to be used and mapped for quick orders. These labs tests will be used in the post install:
 - a. Creatinine (serum)
 - b. Total Bilirubin (serum)
 - c. Albumin (serum)
 - d. Sodium (serum)
 - e. INR
2. **Search and identify existing quick order using the lab tests provided by your local LIM. *Create new quick orders only if no existing quick orders are applicable.*** (See specific instructions in the “Cirrhosis Technical Guide”.) These quick orders will be used within reminder dialog elements identified in the post install.
3. **Search and identify existing data objects used for the following 5 lab test listed:** Creatinine (serum), Total Bilirubin (serum), Albumin (serum), Sodium (serum) and INR. Verify the data objects show most recent going back 2 years. ***Create new data objects only if existing data objects are not applicable.*** (See specific instructions in the “Cirrhosis Technical Guide”.)
4. **Consult with Specialty (GI/Liver/Hepatology).** Identify which consult service is appropriate for receiving referral for Liver Transplant assessment based off MELD score.
5. **Search and identify existing quick order or menu identified Consult service(s) for Liver transplant Assessment. *Create new quick order only if no existing quick order is applicable.*** (See specific instructions in the “Cirrhosis Technical Guide”.) The quick order(s) will be used within reminder dialog elements identified in the post install.
6. **Review CPRS Tools to confirm CDS Applications is currently available.** In CPRS Tools, verify your site currently has the CDS applications.

Install Details

This update is being distributed as a web host file. The address for the host file is:

https://REDACTED/UPDATE_2_0_473.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 20 minutes.

Install Example

To Load the Web Host File. Navigate to Reminder exchange in Vista

```
+      + 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// LWH  Load Web Host File
```

At the **Select Action:** prompt, enter **LWH** for Load Web Host File

At the **Input the url for the .prd file:** prompt, type the following web address:

https://REDACTED/UPDATE_2_0_473.PRD

You should see a message at the top of your screen that the file successfully loaded.

Search for and locate the reminder exchange entry titled UPDATE_2_0_473 VA-CIRRHOISIS LIVER TRANSPLANT SCREEN.

```

+Item  Entry                               Source                               Date Packed
786    UPDATE_2_0_473 VA-CIRRHOSIS
      LIVER TRANSPLANT SCREEN
787    UPDATE_2_0_478 VA-MISC UPDATE
      31
788    UPDATE_2_0_48  MISC UPDATE 6
789    UPDATE_2_0_480 VA-PACT
      PREVENTIVE HEALTH REVIEW
      TEMPLATE
790    UPDATE_2_0_49  VA-SUICIDE
      BEHAVIOR AND OVERDOSE REPORT
+      + 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 (1-1012): 786

```

At the **Select Action** prompt, enter **IFE** for Install Exchange File Entry
 Enter the number that corresponds with your entry titled **UPDATE_2_0_473 VA-CIRRHOSIS LIVER TRANSPLANT SCREEN** (in this example it is entry 786, it will vary by site) The date on the exchange file should be 01/07/2025.

```

Package Version: 2.0P65

Description:
The following Clinical Reminder items were selected for packing:
REMINDER TERM
  VA-REMINDER UPDATE_2_0_473

REMINDER DEFINITION
  VA-CIRRHOSIS LIVER TRANSPLANT SCREEN

Keywords:

Components:

+      Enter ?? for more actions
IA    Install all Components                IS    Install Selected Compon
Select Action: Next Screen//

```

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

During the installation, you will see several prompts:
Install all new components
SKIP any existing components that you are prompted to overwrite

You will be prompted to install the dialog component:

```
Packed reminder dialog: VA-CIRRHOSIS LIVER TRANSPLANT SCREEN [NATIONAL DIALOG]
```

Item	Seq.	Dialog Findings	Type	Exists		
1		VA-CIRRHOSIS LIVER TRANSPLANT SCREEN	dialog			
2	5	VA-GP CIRRHOSIS LIVER TP EVAL MASTER Finding: *NONE*	group			
3	5.1	VA-CIRRHOSIS LIVER TP EVAL VERSION Finding: *NONE*	element			
4	5.5	VA-BLANK LINE DIALOG & NOTE Finding: *NONE*	element	X		
5	5.10	VA-GP CIRRHOSIS LIVER TP SCREEN REVIEW Finding: *NONE*	group			
6	5.15	VA-GP CIRRHOSIS LIVER TP EVAL LAB RESULTS Finding: *NONE*	group			
7	5.15.5	VAL-CIRRHOSIS LIVER TP LAB OBJECTS Finding: *NONE*	element			
8	5.17	VA-BLANK LINE DIALOG & NOTE	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-CIRRHOSIS LIVER TRANSPLANT SCREEN**

Select Action: Next Screen// **IA Install All**

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

When you see this prompt, **hit enter** to link the dialog to the reminder definition:

Reminder Dialog VA-CIRRHOSIS LIVER TRANSPLANT SCREEN is not linked to a reminder.

Select Reminder to Link: VA-CIRRHOSIS LIVER TRANSPLANT SCREEN// <<HIT ENTER HERE >>

```
Packed reminder dialog: VA-CIRRHOSIS LIVER TRANSPLANT SCREEN [NATIONAL DIALOG]
```

VA-CIRRHOSIS LIVER TRANSPLANT SCREEN (reminder dialog) installed from exchange f

Item	Seq.	Dialog Findings	Type	Exists		
1		VA-CIRRHOSIS LIVER TRANSPLANT SCREEN	dialog	X		
2	5	VA-GP CIRRHOSIS LIVER TP EVAL MASTER Finding: *NONE*	group	X		
3	5.1	VA-CIRRHOSIS LIVER TP EVAL VERSION Finding: *NONE*	element	X		
4	5.5	VA-BLANK LINE DIALOG & NOTE Finding: *NONE*	element	X		
5	5.10	VA-GP CIRRHOSIS LIVER TP SCREEN REVIEW Finding: *NONE*	group	X		
6	5.15	VA-GP CIRRHOSIS LIVER TP EVAL LAB RESULTS Finding: *NONE*	group	X		
7	5.15.5	VAL-CIRRHOSIS LIVER TP LAB OBJECTS Finding: *NONE*	element	X		
8	5.17	VA-BLANK LINE DIALOG & NOTE	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: 2.0P65

Description:
The following Clinical Reminder items were selected for packing:
REMINDER TERM
  VA-REMINDER UPDATE_2_0_473

REMINDER DEFINITION
  VA-CIRRHOSIS LIVER TRANSPLANT SCREEN

Keywords:

Components:

+      + Next Screen  - Prev Screen  ?? More Actions
IA  Install all Components                               IS  Install Selected Compon
Select Action: Next Screen// Q
```

You will be returned to this screen. Type Q to quit.
Install Completed

Post Installation

1. **Add lab quick orders to the Reminder Dialog.** Using the Vista Menu- Reminder Dialog Management, select DI Reminder Dialogs, CV Change View to E Dialog Elements and search for the following reminder dialog elements to add the lab quick orders identified in the pre-install as an Finding Item:
 - a. VAL-CIRRHOSIS LIVER TP ORDER ALBUMIN
 - b. VAL-CIRRHOSIS LIVER TP ORDER BILIRUBIN
 - c. VAL-CIRRHOSIS LIVER TP ORDER CREATININE
 - d. VAL-CIRRHOSIS LIVER TP ORDER SODIUM
 - e. VAL-CIRRHOSIS LIVER TP ORDER INR
2. **Add data objects to the Reminder Dialog.** Using the VistA Menu "Reminder Dialog Management", "DI" for Reminder Dialogs, change your view to using "E" for Dialog Elements to add the lab data objects identified in the pre-install:
 - VAL-CIRRHOSIS LIVER TP LAB OBJECTS
3. **Add consult quick order or menu to the Reminder Dialog.** Using the VistA Menu "Reminder Dialog Management", "DI" for Reminder Dialogs, change your view to using "E" for Dialog Elements and search for the following reminder dialog element to add the lab data objects identified in the pre-install as a Finding Item:
 - VAL-CIRRHOSIS LIVER TP EVAL CONSULT
4. **Modify template field.** In CPRS template editor, modify VAL-CDS MED CALCULATOR template field. (See specific instructions in the "Cirrhosis Technical Guide".)
5. **Add local LAB TEST identified in the pre-install for ALBUMIN to the reminder term VA-CIRRHOSIS ALBUMIN.** Using the Vista Menu "Reminders Manager Menu", select option "Reminder Term Management (TRM)" and then select "Add/Edit Reminder Term (TE)".

The Findings that you add should be LT type finding. Ex: LT. ALBUMIN. At the beginning date and time prompt, enter T-2Y. (See specific instructions in the “Cirrhosis Technical Guide”.)

6. **Add local LAB TEST identified in the pre-install for BILIRUBIN to the reminder term VA-CIRRHOSIS BILIRUBIN.** Using the Vista Menu “Reminders Manager Menu”, select option “Reminder Term Management (TRM)” and then select “Add/Edit Reminder Term (TE)”. The Findings that you add should be LT type finding. Ex: LT. TOTAL BILIRUBIN. At the beginning date and time prompt, enter T-2Y. (See specific instructions in the “Cirrhosis Technical Guide”.)
7. **Add local LAB TEST identified in the pre-install for CREATININE to the reminder term VA-CIRRHOSIS CREATININE.** Using the Vista Menu “Reminders Manager Menu”, select option “Reminder Term Management (TRM)” and then select “Add/Edit Reminder Term (TE)”. The Findings that you add should be LT type finding. Ex: LT. CREATININE. At the beginning date and time prompt, enter T-2Y. (See specific instructions in the “Cirrhosis Technical Guide”.)
8. **Add local LAB TEST identified in the pre-install for SODIUM to the reminder term VA-CIRRHOSIS SODIUM.** Using the Vista Menu “Reminders Manager Menu”, select option “Reminder Term Management (TRM)” and then select “Add/Edit Reminder Term (TE)”. The Findings that you add should be LT type finding. Ex: LT. SODIUM. At the beginning date and time prompt, enter T-2Y. (See specific instructions in the “Cirrhosis Technical Guide”.)
9. **Add local LAB TEST identified in the pre-install for INR to the reminder term VA-CIRRHOSIS INR.** Using the Vista Menu “Reminders Manager Menu”, select option “Reminder Term Management (TRM)” and then select “Add/Edit Reminder Term (TE)”. The Findings that you add should be LT type finding. Ex: LT. INR. At the beginning date and time prompt, enter T-2Y(See specific instructions in the “Cirrhosis Technical Guide”.)
10. **Add local Orderable Items that represent the below tests to the reminder term VA-CIRRHOSIS LABS ORDERED.**
 - a. Creatinine (serum)
 - b. Total Bilirubin (serum)
 - c. Albumin (serum)
 - d. Sodium (serum)
 - e. INR

Using the Vista Menu “Reminders Manager Menu”, select option “Reminder Term Management (TRM)” and then select “Add/Edit Reminder Term (TE)”. The Findings that you add should be OI type finding. Ex: OI. INR. (See specific instructions in the “Cirrhosis Technical Guide”.) You DO NOT need to add a Status or additional info in the fields.

11. **Add new reminder to Coversheet for appropriate users.** Use the Add Coversheet Reminder option in CPRS. The print name is **Cirrhosis MELD Score Screen**. As this is a new reminder, consider turning on for a few individuals to test before expanding usage.