



**Update \_2\_0\_276**

**Clinical Reminders**

**VA-Hepatitis B Immunization Update**

**Install Guide**

**May 2022**

Product Development  
Office of Information Technology  
Department of Veterans Affairs

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## Introduction

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Hepatitis B vaccination is now recommended for all individuals age 19-59 and also for all high risk patients age 60 and older. Prior to this recent update, HBV vaccination was recommended for all high risk individuals of any age and for patients with diabetes ages 19-59.

### HBV Adult schedule

Redacted internal VA document.

#### Reminder definition

Change cohort logic from including patients age 19-59 who have diabetes to include all patients age 19-59. The inclusion criteria for high risk patients age 60 and older remains the same. No change in the sequence or other logic: if no serology has been done, then the serology/immunization reminder is due. If serology is done and negative or if the immunization series has been started, then the immunization reminder is applicable. Both reminders are resolved by prior infection as indicated by serology.

#### Reminder dialog:

1. Change detailed text in both reminder dialogs to indicate that vaccination of all persons 18-59 should be considered. No other changes are needed.

Reminder Resolution: Hepatitis B Immunization

Hepatitis B Immunizations/Orders

Information:  
No Hepatitis B Immunizations found

Consider administering the combination Hepatitis B and Hepatitis A vaccine 3 dose series if both immunizations are indicated. HBV/HAV combination vaccine (Twinrix) may be used.

Additional information on HBV testing and immunization:

VHA National Center for Disease Prevention and Health Promotion  
[VHA Guidance on HBV Immunization](#)  
[VHA Guidance on HAV Immunization](#)

VA Pharmacy Benefits Management - Information on Adjuvant HBV vaccine  
[Heplisav-B Monograph \(VA PBM\)](#)

All patients ages 19-59 should complete a Hepatitis B immunization series unless known to be immune or previously infected. All patients at risk of HBV infection or at high risk of complications from HBV infection should also be considered for vaccination.

Serology prior to vaccination may be a cost-effective strategy in high prevalence populations (e.g. >25-30% seropositive) and if the patient will return in the future for vaccination.

All 3 tests are preferred when doing serology - HBcAb, HBsAb and HBsAg.  
 Serology is satisfied by:  
 any HBcAb or  
 HBsAb+ or  
 HBsAg+.

Patients who are HBcAb+ should be tested for HBsAg.  
 Patients who are HBsAg+ should be followed by ID, GI or Hepatology.

Clear    Clinical Maint    Visit Info    < Back    Next >    Finish    Cancel

<No encounter information entered>

\* Indicates a Required Field

UPDATE\_2\_0\_276 contains 1 Reminder Exchange entry:  
**UPDATE\_2\_0\_276 VA-HEPATITIS B IMMUNIZATION UPDATE**

The exchange file contains the following components:

**TIU TEMPLATE FIELD**

- BLANK TEXT FIELD FOR DIALOGS
- PBM HEPLISAV-B MONOGRAPH
- NCP HAV IMMUNIZATION GUIDANCE
- PBM HEPLISAV-B TRAVEL RECOMMEND
- PBM HEPLISAV-B LIST OF COUNTRIES
- VA-LOCATIONS
- IM VIS HBV URL
- IM VIS HBV DT

IM VIS HAV DT  
IM COMMENT COMPLICATONS  
IM HAV/HBV ADJ LOT# EXP DATE  
IM HAV/HBV MANUF  
IM INJECTION RIGHT/LEFT  
IM VIS HBV ADJ URL  
IM HBV ADJ LOT# EXP DATE  
IM HBV ADJ MANUF  
IM HBV LOT# EXP DATE  
IM HBV MANUF  
IM HBV DOSE

### **HEALTH FACTORS**

VA-REMINDER UPDATES [C]  
VA-UPDATE\_2\_0\_276  
OUTSIDE SEROLOGY [C]  
OUTSIDE HEPATITIS A SEROPOSITIVE  
OUTSIDE HEPATITIS B SURFACE AB POSITIVE  
OUTSIDE HEPATITIS B SURFACE AB NEGATIVE  
OUTSIDE HEPATITIS B SURFACE AG POSITIVE  
OUTSIDE HEPATITIS B SURFACE AG NEGATIVE  
OUTSIDE HEPATITIS B CORE AB POSITIVE  
OUTSIDE HEPATITIS B CORE AB NEGATIVE  
IMMUNIZATION [C]  
VA-HEP B EDUCATION VVC/TELEHEALTH VST  
HEPATITIS B VACCINATION DEFER TEMPORARY  
HEPATITIS B [C]  
HEPATITIS B VACCINATION NOT INDICATED  
REFUSED HEPATITIS B VACCINE  
HEPATITIS B SEROLOGY NOT INDICATED  
REFUSED HEPATITIS B SEROLOGY  
REMINDER FACTORS [C]  
LIFE EXPECTANCY < 6 MONTHS  
INCORRECT DIAGNOSES [C]  
VA-INCORRECT DIABETES DIAGNOSIS  
VA-HBV AB EDUCATION VVC/TELEHEALTH VST

### **REMINDER SPONSOR**

VA NATIONAL CENTER FOR HEALTH PROMOTION AND DISEASE  
PREVENTION (NCP)  
OFFICE OF QUALITY & PERFORMANCE  
NATIONAL CENTER FOR HEALTH PROMOTION AND DISEASE  
PREVENTION (NCP)  
VHA ONCOLOGY  
VHA CARDIOLOGY SERVICES  
OFFICE OF PATIENT CARE SERVICES

OFFICE OF PUBLIC HEALTH AND ENVIRONMENTAL HAZARDS

**REMINDER TAXONOMY**

VA-IMMUNIZATION INJECTION 90471  
VA-TERMINAL CANCER PATIENTS  
VA-DIABETES  
VA-CIRRHOSIS  
VA-HEPATIC STEATOSIS  
VA-CHRONIC LIVER DISEASE (NON-HBV/HCV)  
VA-GASTRIC VARICES  
VA-HEPATIC FIBROSIS  
VA-HEPATITIS B RISK DRUG USE  
VA-HEPATITIS B RISK SEXUAL TRANSMISSION  
VA-END STAGE RENAL DISEASE  
VA-ESOPHAGEAL VARICES  
VA-HIV INFECTION  
VA-HEPATITIS C INFECTION

**REMINDER TERM**

VA-REMINDER UPDATE\_2\_0\_276  
VA-HEPATITIS A VACCINATION INDICATED  
VA-HEPATITIS A IMMUNE/SEROPOS  
VA-HEPATITIS A SEROLOGY IGG/TOTAL  
VA-OUTSIDE HEPATITIS B SURFACE AB POSITIVE  
VA-OUTSIDE HEPATITIS B SURFACE AB NEGATIVE  
VA-OUTSIDE HEPATITIS B SURFACE AG POSITIVE  
VA-OUTSIDE HEPATITIS B SURFACE AG NEGATIVE  
VA-OUTSIDE HEPATITIS B CORE AB POSITIVE  
VA-OUTSIDE HEPATITIS B CORE AB NEGATIVE  
VA-HEPATITIS B SURFACE ANTIBODY  
VA-HEPATITIS B SURFACE ANTIGEN  
VA-HEPATITIS B CORE ANTIBODY (IGG/TOTAL)  
VA-BL HBV SEROLOGY SECTION SUPPRESS  
VA-HEPATITIS B IMMUNIZATION 3/4 DOSE SERIES  
VA-HEPATITIS B PHARMACY/NURSING ORDERABLE ITEM  
VA-HEPATITIS B IMMUNIZATION ADJUVANT  
VA-LAST SERVICE SEPARATION >1/1/2001  
VA-HBV ADMINISTRATION SUPPRESSION  
VA-HEPATITIS B IMMUNIZATION STD ONLY  
VA-HEPATITIS B IMMUNIZATION NOT INDICATED  
VA-HEPATITIS B SEROLOGY NOT INDICATED  
VA-HEPATITIS B IMMUNIZATION REFUSED/DEFERRED  
VA-HEPATITIS B SEROLOGY REFUSED/DEFERRED  
VA-LIFE EXPECTANCY < 6 MONTHS  
VA-DIABETES DX INCORRECT  
VA-DIABETES DX

VA-HEPATITIS B RISK

**REMINDER DEFINITION**

VA-BL HBV SEROLOGY SECTION SUPPRESS  
VA-HEPATITIS B IMM/ORDERABLE ITEMS OBJECT  
VA-HEPATITIS B IMMUNIZATION  
VA-HEPATITIS B SEROLOGY/IMMUNIZATION

**HEALTH SUMMARY TYPE**

OB HAV HBV SEROLOGY OUTSIDE  
OB HAV HBV SEROLOGY  
VA-HEP B IMMUNIZATIONS

**HEALTH SUMMARY OBJECTS**

HAV HBV SEROLOGY OUTSIDE (TIU)  
HAV HBV SEROLOGY  
VA-HEP B IMMUNIZATIONS (TIU)

**TIU DOCUMENT DEFINITION**

HAV HBV SEROLOGY OUTSIDE  
HAV HBV SEROLOGY  
VA-HEP B IMMUNIZATIONS

**REMINDER DIALOG**

VA-HEPATITIS B IMMUNIZATION  
VA-HEPATITIS B SEROLOGY/IMMUNIZATION

## **Pre-install**

---

1. **Do a reminder term inquiry for the following reminder terms for reference post install:**

VA-HEPATITIS B SURFACE ANTIBODY  
VA-HEPATITIS B SURFACE ANTIGEN  
VA-HEPATITIS B CORE ANTIBODY (IGG/TOTAL)  
VA-HEPATITIS A VACCINATION INDICATED  
VA-HEPATITIS B IMMUNIZATION NOT INDICATED  
VA-HEPATITIS B SEROLOGY NOT INDICATED  
VA-HEPATITIS B IMMUNIZATION REFUSED/DEFERRED  
VA-HEPATITIS B SEROLOGY REFUSED/DEFERRED  
VA-OUTSIDE HEPATITIS B SURFACE AB POSITIVE

VA-OUTSIDE HEPATITIS B SURFACE AB NEGATIVE  
VA-OUTSIDE HEPATITIS B SURFACE AG POSITIVE  
VA-OUTSIDE HEPATITIS B SURFACE AG NEGATIVE  
VA-OUTSIDE HEPATITIS B CORE AB POSITIVE  
VA-OUTSIDE HEPATITIS B CORE AB NEGATIVE  
VA-HEPATITIS A IMMUNE/SEROPOS

- Using the Vista Menu, Reminder Dialog Manager, DI- Reminder Dialog, change view to element view and Inq/Print the reminder dialog elements:

VA-HBV OI SEROLOGIC PANEL  
VA-HBV OI IMMUNIZATION

You will need to identify the local order or menu used as a finding item and add this order back post install.

## Install Details

---

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

[https://REDACTED/UPDATE\\_2\\_0\\_276.PRD](https://REDACTED/UPDATE_2_0_276.PRD)

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

Installation:

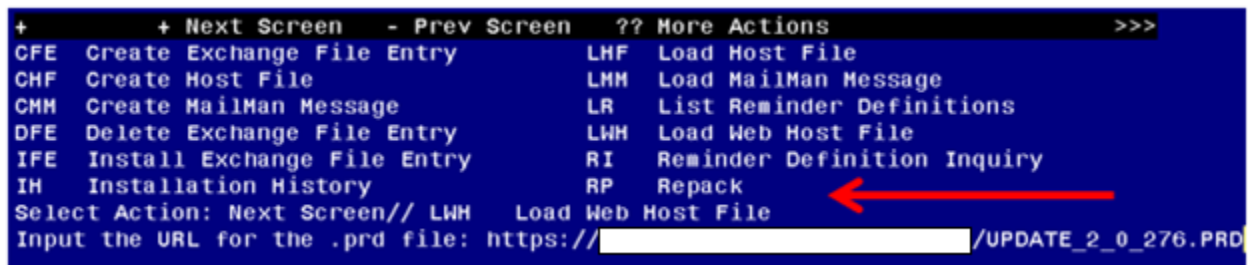
=====

This update can be loaded with users on the system. Installation will take less than 5 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
CHM  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_276.PRD
```

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\\_276.PRD](https://REDACTED/UPDATE_2_0_276.PRD)**.

[https://\[REDACTED\]/UPDATE\\_2\\_0\\_276.PRD](https://[REDACTED]/UPDATE_2_0_276.PRD) successfully loaded.

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



Search and locate an entry titled UPDATE\_2\_0\_276 VA-HEPATITIS B IMMUNIZATION UPDATE in reminder exchange

```

+Item  Entry                               Source                               Date Packed
549    UPDATE_2_0_276 VA-HEPATITIS B
      IMMUNIZATION UPDATE
550    UPDATE_2_0_28
      VA-MENINGOCOCCAL IMMUNIZATIONS
551    UPDATE_2_0_29 VA-HOMELESSNESS
      FOOD INSECURITY
552    UPDATE_2_0_29 VA-HOMELESSNESS
      FOOD INSECURITY
553    UPDATE_2_0_30 VA-IRAQ &
      AFGHAN POST-DEPLOY

+      + 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           LWH    Load Web Host File
DFE    Delete Exchange File Entry       RI     Reminder Definition Inquiry
IFE    Install Exchange File Entry      RP     Repack
IH     Installation History

Select Action: Next Screen// IFE    Install Exchange File Entry
Enter a list or range of numbers (1-902): 549
  
```

At the **Select Action** prompt, enter **IFE** for Install Exchange File Entry  
 Enter the number that corresponds with your entry titled UPDATE\_2\_0\_276 VA-HEPATITIS B IMMUNIZATION UPDATE (in this example it is entry 549, it will vary by site). Ensure the file date is 04/19/2022.

```

Component                               Category                               Exists
Source:
Date Packed:
Package Version: 2.0P71

Description:
The following Clinical Reminder items were selected for packing:
REMINDER TERM
  VA-REMINDER UPDATE_2_0_276

REMINDER DEFINITION
  VA-HEPATITIS B SEROLOGY/IMMUNIZATION
  VA-HEPATITIS B IMMUNIZATION

Keywords:

Components:
+      Enter ?? for 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.  
 You will **INSTALL** ALL new components.

You will **OVERWRITE** **TIU TEMPLATE FIELDS** except for these that you may have edited locally, If you get the message that these already exists but the packed component is different for these three TIU template fields, choose **skip**:

**IM HAV/HBV ADJ LOT# EXP DATE**

**IM HBV ADJ LOT# EXP DATE**

**IM HBV LOT# EXP DATE**

You will **SKIP** any **HEALTH FACTORS** that already exists, but the packed component is different.

You will **OVERWRITE** any **REMINDER TAXONOMIES** that already exists, but the packed component is different

You will **SKIP** any **REMINDER TERMS** that already exists, but the packed component is different

You will **OVERWRITE** any **REMINDER DEFINITIONS** that already exists, but the packed component is different

You will **SKIP** any **HEALTH SUMMARY** components that already exists, but the packed component is different

**If your site has CPRS 32B installed, you will not install the reminder dialog from this file, you will have a separate install guide for immunization reminder dialogs. You will be prompted to install the first dialog component, VA-HEPATITIS B IMMUNIZATION. You will install all even though all components have an X to indicate they already exist in your system.**

```
Packed reminder dialog: VA-HEPATITIS B IMMUNIZATION [NATIONAL DIALOG]
```

Item	Seq.	Dialog Findings	Type	Exists
1		VA-HEPATITIS B IMMUNIZATION	dialog	X
2	1	VA-HEPATITIS B IMMUNIZATION VERSION Finding: *NONE*	element	X
3	4	VA-GP HBV SEROLOGY SECTION DISPLAY IMMUNIZATION Finding: *NONE*	group	X
4	4.2	VAL-HEPATITIS B HS OBJECT Finding: *NONE*	element	
5	4.5	VA-HBV TEXT INTRO IMMUNIZATION Finding: *NONE*	element	X
6	4.7	VA-HBV TEXT SERVICE AFTER 2001 Finding: *NONE*	element	X
7	4.10	VA-GP HBV TEXT PARENT IMMUNIZATION Finding: *NONE*	group	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-HEPATITIS B IMMUNIZATION

Select Action: Next Screen// IA Install All

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

```
Packed reminder dialog: VA-HEPATITIS B IMMUNIZATION [NATIONAL DIALOG]
VA-HEPATITIS B IMMUNIZATION (reminder dialog) installed from exchange file.
```

Item	Seq.	Dialog Findings	Type	Exists
1		VA-HEPATITIS B IMMUNIZATION	dialog	X
2	1	VA-HEPATITIS B IMMUNIZATION VERSION Finding: *NONE*	element	X
3	4	VA-GP HBV SEROLOGY SECTION DISPLAY IMMUNIZATION Finding: *NONE*	group	X
4	4.2	VAL-HEPATITIS B HS OBJECT Finding: *NONE*	element	X
5	4.5	VA-HBV TEXT INTRO IMMUNIZATION Finding: *NONE*	element	X
6	4.7	VA-HBV TEXT SERVICE AFTER 2001 Finding: *NONE*	element	X
7	4.10	VA-GP HBV TEXT PARENT IMMUNIZATION Finding: *NONE*	group	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//
```

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

**If your site has CPRS 32B installed, you will not install the reminder dialog from this file, you will have a separate install guide for immunization reminder dialogs. You will be prompted to install the second dialog component, VA-HEPATITIS B SEROLOGY/ IMMUNIZATION. You will install all even though all components have an X to indicate they already exist in your system.**

```
Packed reminder dialog: VA-HEPATITIS B SEROLOGY/IMMUNIZATION [NATIONAL DIALOG]
```

Item	Seq.	Dialog Findings	Type	Exists
1		VA-HEPATITIS B SEROLOGY/IMMUNIZATION	dialog	X
2	1	VA-HEPATITIS B SEROLOGY/IMMUNIZATION VERSION Finding: *NONE*	element	X
3	4	VA-GP HBV SEROLOGY SECTION DISPLAY* Finding: *NONE*	group	X
4	4.5	VA-HBV TEXT INTRO Finding: *NONE*	element	X
5	4.7	VA-HBV TEXT SERVICE AFTER 2001 Finding: *NONE*	element	X
6	4.10	VA-GP HBV TEXT PARENT Finding: *NONE*	group	X
7	4.10.2	VAL-GP HBV TEXT URL INFO 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-HEPATITIS B SEROLOGY/IMMUNIZATION**

Select Action: Next Screen// IA Install All

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

```
Packed reminder dialog: VA-HEPATITIS B SEROLOGY/IMMUNIZATION [NATIONAL DIALOG]
```

VA-HEPATITIS B SEROLOGY/IMMUNIZATION (reminder dialog) installed from exchange f

Item	Seq.	Dialog Findings	Type	Exists
1		VA-HEPATITIS B SEROLOGY/IMMUNIZATION	dialog	X
2	1	VA-HEPATITIS B SEROLOGY/IMMUNIZATION VERSION Finding: *NONE*	element	X
3	4	VA-GP HBV SEROLOGY SECTION DISPLAY* Finding: *NONE*	group	X
4	4.5	VA-HBV TEXT INTRO Finding: *NONE*	element	X
5	4.7	VA-HBV TEXT SERVICE AFTER 2001 Finding: *NONE*	element	X
6	4.10	VA-GP HBV TEXT PARENT Finding: *NONE*	group	X
7	4.10.2	VAL-GP HBV TEXT URL INFO 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**.

Component	Category	Exists
Source:		
Date Packed:		
Package Version: 2.0P71		
Description:		
The following Clinical Reminder items were selected for packing:		
REMINDER TERM		
VA-REMINDER UPDATE_2_0_276		
REMINDER DEFINITION		
VA-HEPATITIS B SEROLOGY/IMMUNIZATION		
VA-HEPATITIS B IMMUNIZATION		
Keywords:		
Components:		
+ + Next Screen - Prev Screen ?? More Actions >>>		
IA	Install all Components	IS Install Selected Component
Select Action: Next Screen// Q		

At the Select Action prompt, type Q to quit.

Install Completed

## Post Installation

---

1. Review the pre-install inquiry for the following reminder terms and make changed if needed, if you skipped during install as instructed, no changed should be needed.

- VA-HEPATITIS B SURFACE ANTIBODY
- VA-HEPATITIS B SURFACE ANTIGEN
- VA-HEPATITIS B CORE ANTIBODY (IGG/TOTAL)
- VA-HEPATITIS A VACCINATION INDICATED
- VA-HEPATITIS B IMMUNIZATION NOT INDICATED
- VA-HEPATITIS B SEROLOGY NOT INDICATED
- VA-HEPATITIS B IMMUNIZATION REFUSED/DEFERRED
- VA-HEPATITIS B SEROLOGY REFUSED/DEFERRED
- VA-OUTSIDE HEPATITIS B SURFACE AB POSITIVE
- VA-OUTSIDE HEPATITIS B SURFACE AB NEGATIVE
- VA-OUTSIDE HEPATITIS B SURFACE AG POSITIVE
- VA-OUTSIDE HEPATITIS B SURFACE AG NEGATIVE
- VA-OUTSIDE HEPATITIS B CORE AB POSITIVE
- VA-OUTSIDE HEPATITIS B CORE AB NEGATIVE
- VA-HEPATITIS A IMMUNE/SEROPOS

2. Add quick orders/order menus to the reminder dialogs for serology and immunization. Review your pre-install inquiry and add back the finding items to the following reminder dialog elements. Using the Vista Menu, Reminder Dialog Manager, DI- Reminder Dialog, change view to element view and edit the reminder dialog elements:

VA-HBV OI SEROLOGIC PANEL

VA-HBV OI IMMUNIZATION