



Update_2_0_13

Clinical Reminders

VA-COMBINATION DRUG CLASSES ORDER CHECK

Install Guide

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Product Development
Office of Information Technology
Department of Veterans Affairs

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Introduction

Clinical Reminder UPDATE_2_0_13 contains 1 Reminder Exchange entry:

UPDATE_2_0_13 VA-COMBINATION DRUG CLASSES CROC

VA facilities reported that the Computerized Patient Record System (CPRS) did not trigger allergy-drug order checks for orders of combination medications that contained a drug similar to a listed allergen. The allergy-drug order checks were also not presented in VA's Veterans Health Information Systems and Technology Architecture (VistA) for pharmacy review.

VA-COMBINATION DRUG CLASSES CLINICAL REMINDERS ORDER CHECK (CROC) will generate an order check that provides a warning to perform a manual allergy assessment for the following combination drug classes when ordered:

- CV400 - ANTIHYPERTENSIVE COMBINATIONS
- DE250 - ANTI-INFECTIVE/ANTI-INFLAMMATORY COMBINATIONS, TOPICAL
- GA802 - ANTIMUSCARINIC/ANTIPASMODIC COMBINATIONS
- OP350 - ANTI-INFECTIVE/ANTI-INFLAMMATORY COMBINATIONS, TOPICAL OPTHALMIC
- OT250 - ANTI-INFECTIVE/ANTI-INFLAMMATORY COMBINATIONS, TOPICAL OTIC
- RE500 - COLD REMEDIES, COMBINATIONS

CPRS Order check results after installation and activation of the CROC (Figures 1 and 2):

Figure 1 - CPRS Order entry

The screenshot shows the 'Outpatient Medications' window. At the top, the medication name 'HYDROCHLOROTHIAZIDE/LISINOPRIL TAB' is entered in a text field, with a 'Change' button to its right. Below this is a table with columns for 'Dosage', 'Complex', 'Route', and 'Schedule'. The first row is selected, showing '1 TABLET HCTZ 12.5/LISINOPRIL 20MG TAB', 'PO/ORAL', and 'QAM'. A dropdown menu is open for the 'Schedule' column, listing various options like 'QBEDTIME', 'QDAILY', 'QDAY', 'QDI', 'QID', 'QID WM', 'QIDI', 'QMONTH', 'QNOON', and 'QOPM'. Below the table is an 'Order Checking' section with two messages. The first message, '(1 of 2) COMBINATION DRUG REQUIRES MANUAL ALLERGY-DRUG CHECK', is highlighted with a blue border and a red arrow pointing to it from a callout box. The second message, '(2 of 2) Duplicate Therapy: Order(s) exist for (RAMIPRIL 2.5MG CAP [ACTIVE NON-VA]) in the same therapeutic categor(ies): Angiotensin Converting Enzyme (ACE) Inhibitors, Angiotensin Inhibiting Agents', is also visible. At the bottom of the window are 'Accept Order' and 'Cancel Order' buttons. A callout box on the right contains the text: 'Warning Message Displays upon selection of "Accept Order"'. At the very bottom of the window, there is a summary area with the medication name, dosage, and instructions: 'HCTZ 12.5/LISINOPRIL 20MG TAB TAKE ONE TABLET BY MOUTH EVERY MORNING FOR HIGH BLOOD PRESSURE Quantity: 30 Refills: 0', along with 'Accept Order' and 'Quit' buttons.

Dosage	Complex	Route	Schedule
1 TABLET HCTZ 12.5/LISINOPRIL 20MG TAB		PO/ORAL	QAM <input type="checkbox"/> PRN
1 TABLET HCTZ 12.5/LISINOPRIL 20MG TAB		PO/ORAL	QAM
2 TABLETS HCTZ 12.5/LISINOPRIL 20MG TAB			QBEDTIME
1 TABLET HCTZ 25/LISINOPRIL 20MG TAB			QDAILY
2 TABLETS HCTZ 25/LISINOPRIL 20MG TAB			QDAY
1 TABLET HCTZ 12.5/LISINOPRIL 10MG TAB			QDI
			QID
			QID WM
			QIDI
			QMONTH
			QNOON
			QOPM

Order Checking

(1 of 2) COMBINATION DRUG REQUIRES MANUAL ALLERGY-DRUG CHECK
Ordered medication is a combination drug which may NOT trigger order checks.
ACTION: Perform a manual allergy review.

(2 of 2) Duplicate Therapy: Order(s) exist for (RAMIPRIL 2.5MG CAP [ACTIVE NON-VA]) in the same therapeutic categor(ies): Angiotensin Converting Enzyme (ACE) Inhibitors, Angiotensin Inhibiting Agents

Accept Order Cancel Order

HCTZ 12.5/LISINOPRIL 20MG TAB
TAKE ONE TABLET BY MOUTH EVERY MORNING FOR HIGH BLOOD PRESSURE
Quantity: 30 Refills: 0

Accept Order
Quit

Figure 2 - CPRS Order signature

The screenshot displays the 'Order Checks' window. At the top, a blue header contains the title 'Order Checks'. Below the header, a grey box contains instructions: 'To cancel an order select the order by checking the checkbox and press the "Cancel Checked Order(s)" button. If the order check description is cut short, hover over the text to view the complete description.' Below this is a table with two columns: 'Cancel' and 'Order/Order Check Text'. The first row shows a checkbox and the text 'HCTZ 12.5/LISINOPRIL 20MG TAB TAKE ONE TABLET BY MOUTH EVERY MORNING FOR HIGH BLOOD PRESSURE Quantity: 30 Refills: 0 *UNSIGNED*'. A red arrow points from a red-bordered box at the bottom right to a blue-bordered box containing the following text: '*Order Check requires Reason for Override (1 of 2) COMBINATION DRUG REQUIRES MANUAL ALLERGY-DRUG CHECK Ordered medication is a combination drug which may NOT trigger order checks. ACTION: Perform a manual allergy review.' Below this, another text block reads: '(2 of 2) Duplicate Therapy: Order(s) exist for {RAMIPRIL 2.5MG CAP [ACTIVE NON-VA]} in the same therapeutic categor(ies): Angiotensin Converting Enzyme (ACE) Inhibitors, Angiotensin Inhibiting Agents'. At the bottom of the window, there is a 'Cancel Checked Order(s)' button, a 'NOTE: The override reason is for tracking purposes and' label, an 'Enter reason for overriding order checks:' text box, and three buttons: 'Accept Order(s)', 'Return to Orders', and 'Drug Interaction Monograph'.

Order Checks

To cancel an order select the order by checking the checkbox and press the "Cancel Checked Order(s)" button.
If the order check description is cut short, hover over the text to view the complete description.

Cancel	Order/Order Check Text
<input type="checkbox"/>	HCTZ 12.5/LISINOPRIL 20MG TAB TAKE ONE TABLET BY MOUTH EVERY MORNING FOR HIGH BLOOD PRESSURE Quantity: 30 Refills: 0 *UNSIGNED*

***Order Check requires Reason for Override**

(1 of 2) COMBINATION DRUG REQUIRES MANUAL ALLERGY-DRUG CHECK
Ordered medication is a combination drug which may NOT trigger order checks.
ACTION: Perform a manual allergy review.

(2 of 2) Duplicate Therapy: Order(s) exist for {RAMIPRIL 2.5MG CAP [ACTIVE NON-VA]} in the same therapeutic categor(ies): Angiotensin Converting Enzyme (ACE) Inhibitors, Angiotensin Inhibiting Agents

Cancel Checked Order(s) NOTE: The override reason is for tracking purposes and

Enter reason for overriding order checks:

Accept Order(s) **Return to Orders** **Drug Interaction Monograph**

Warning displays and an override is required

Install Details

This update is being distributed as a web host file. The address for the host file is:
http://vista.med.va.gov/reminders/UPDATE_2_0_13.PRD

The following reminder content is included in this UPDATE:

REMINDER TERM

VA-ALL PATIENTS (TERM)

REMINDER ORDER CHECK RULES

VA-COMBINATION DRUG CLASSES

REMINDER ORDER CHECK ITEMS GROUP

VA-COMBINATION DRUG CLASSES

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 five minutes.

Install Example

In Reminder Exchange, use ACTION "LWH" to load the web host file and input URL http://vista.med.va.gov/reminders/UPDATE_2_0_13.PRD

```
Exchange File Entries.
+-----+-----+-----+-----+
| Item | Entry                               | Source                               | Date Packed |
+-----+-----+-----+-----+
| 1    | 603 MEDICINE SPECIALTY CLINIC      | ATTUM@LOUISVILLE,                 | 09/13/2012@14:31 |
|     | CANCELLATION                       |                                     |                 |
| 2    | 691 HIV UNIVERSAL SCREENING        | OCHOTORENA@WEST LA VAMC            | 02/10/2010@10:33 |
| 3    | 691 NSG ADMISSION EVAL             | OCHOTORENA@WEST LA VAMC            | 02/10/2015@11:38 |
|     | SYSTEMS 9 & 10 AND NCP DLG        |                                     |                 |
| 4    | 691 PATIENTS WITH NO PC VISITS     | OCHOTORENA@WEST LA VAMC            | 02/08/2010@16:40 |
| 5    | ACOVE (ASSESSING CARE OF          | RAINS@SEATTLE VA M                 | 04/14/2016@15:42 |
|     | VULNERABLE ELDERLY) NURSE        |                                     |                 |
| 6    | ACOVE FRAIL ELDERLY REMINDERS     | WILLIS@FAYETTEVILLE              | 07/17/2015@09:10 |
|     | 72015                             |                                     |                 |
+-----+-----+-----+-----+
+      + Next Screen  - Prev Screen  ?? More Actions  >>>
CFE Create Exchange File Entry      IH  Installation History
CHF Create Host File                 LHF Load Host File
CMM Create MailMan Message          LMM Load MailMan Message
DFE Delete Exchange File Entry       LWH Load Web Host File
IFE Install Exchange File Entry      RI  Reminder Definition Inquiry
Select Action: Next Screen// LWH    Load Web Host File
Input the URL for the .prd file: http://vista.med.va.gov/reminders/UPDATE_2_0_13.PRD
```

You should receive a message that your entry was successfully loaded

```
Clinical Reminder Exchange   May 20, 2016@12:52:28   Page: 28 of 52
http://vista.med.va.gov/reminders/UPDATE_2_0_13.PRD successfully loaded.
```

In Reminder Exchange, navigate to the exchange entry named **UPDATE_2_0_13 VA-COMBINATION DRUG CLASSES CROC** using SL Action. Once you find your entry, you will use IFE Action to install the entry. In this example, entry 102 will be used to install, it will vary by site.

```
Exchange File Entries.
```

+Item	Entry	Source	Date Packed
97	UPDATE 9 BACKUP 0712	GRIFFITH@SALT LAKE CI	07/12/2016@13:18
98	UPDATE_2_0_1 BENEFICIARY TRAVEL/EBOLA UPDATE	GRIFFITH@SALT LAKE CI	02/18/2016@13:34
99	UPDATE_2_0_10 VA-MAMMOGRAM TAX	GRIFFITH@SALT LAKE CI	10/29/2015@10:33
100	UPDATE_2_0_11 BENZODIAZEPINE/OPIOID ORDER CHECK	SILVERMAN@SALT LAKE CI	04/14/2016@13:40
101	UPDATE_2_0_12 VA-DIFFICULT AIRWAY	GRIFFITH@SALT LAKE CI	03/10/2016@14:12
102	UPDATE_2_0_13 VA-COMBINATION DRUG CLASSES CROC	SILVERMAN@SALT LAKE CI	07/29/2016@09:12

```
+ + 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
Select Action: Next Screen// IFE Install Exchange File Entry
Enter a list or range of numbers (1-272): 102
```

Once you select your entry to install, use the IA Action

```
Component Category Exists
Source: SILVERMAN,ROBERT at SALT LAKE CITY
Date Packed: 07/29/2016@09:12:44
Package Version: 2.0P63

Description:
R. Silverman 12-2-2015
For NCPS Alert AL 16-xx "Allergy-drug order checks may not trigger for combination drugs"

Keywords:

Components:

ROUTINE
PXRMPDEM X

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

The following is a listing of the prompts you will see when installing the entry:

Select Action: Next Screen// IA Install all Components

REMINDER TERM entry VA-ALL PATIENTS (TERM) 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

REMINDER ORDER CHECK RULES entry VA-COMBINATION DRUG CLASSES 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

REMINDER ORDER CHECK ITEMS GROUP entry VA-COMBINATION DRUG CLASSES
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

You will be returned to this screen.

Component	Category	Exists
Source: SILVERMAN,ROBERT at SALT LAKE CITY		
Date Packed: 07/29/2016@09:12:44		
Package Version: 2.0P63		
Description:		
R. Silverman 12-2-2015		
For NCPS Alert AL 16-xx "Allergy-drug order checks may not trigger for combination drugs"		
Keywords:		
Components:		
ROUTINE		
PXRMPDEM		X
+ Enter ?? for 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 Complete.

Post Install Instructions

1. *Activate the Reminder Order Check Rules*

The installation of CLINICAL REMINDER UPDATE_2_0_13 will require the STATUS of the Reminder Order Check Rule “VA-COMBINATION DRUG CLASSES” be changed to PROD. Shown below are the steps to make this change.

The option represented here is **Add/Edit Reminder Order Check Rule [PXRM ORDER CHECK RULE EDIT]**.

Select Reminder Order Check Menu Option: **RE** Add/Edit Reminder Order Check Rule
Select Reminder Order Check Rule by: (N/R/T/Q): N// **N** ORDER CHECK RULE
NAME

Select Reminder Order Check Rule: **VA-COMBINATION DRUG CLASSES**

RULE NAME: VA-COMBINATION DRUG CLASSES

DISPLAY NAME: COMBINATION DRUG REQUIRES MANUAL ALLERGY-DRUG
CHECK

STATUS: **PROD**

^ change to PROD to activate Production Mode

CLASS: NATIONAL

SPONSOR:

REVIEW DATE:

I=INACTIVE, P=PRODUCTION, T=TESTING

Save and Exit

NOTE: If you don't get the expected results or require further technical assistance, please notify your local IT support to log a national CA Service Desk Manager (SDM) ticket (previously a Remedy™ ticket) or contact the VA Service Desk at 1-888-596-4357 and have them submit a national CA ticket to the Incident Area:

NTL.APP.VISTA.CLINICAL REMINDERS 2_0 and we will contact you.