



Update_2_0_13

Clinical Reminders

VA-COMBINATION DRUG CLASSES ORDER CHECK

Install Guide

June 2016

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
- CV704 - POTASSIUM SPARING/COMBINATIONS DIURETICS
- DE250 - ANTI-INFECTIVE/ANTI-INFLAMMATORY COMBINATIONS, TOPICAL
- GA802 - ANTIMUSCARINIC/ANTIPASMODIC COMBINATIONS
- OP105 - ANTIGLAUCOMA COMBINATIONS, TOPICAL OPHTHALMIC
- OP350 - ANTI-INFECTIVE/ANTI-INFLAMMATORY COMBINATIONS, TOPICAL OPHTHALMIC
- 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 displays the 'Outpatient Medications' window in the CPRS system. At the top, the medication 'HYDROCHLOROTHIAZIDE/LISINOPRIL TAB' is entered in the search field, with a 'Change' button to its right. Below this is a section titled 'Display Restrictions/Guidelines' containing a table with columns for Dosage, Complex, Route, and Schedule. The table lists several medication options, with '2 TABLETS HCTZ 12.5/LISINOPRIL 10MG TAB' and 'ORAL (BY MOUTH)' selected. A 'PRN' checkbox is also visible. An 'Order Checking' dialog box is open in the foreground, showing two messages: '(1 of 2) Remote Order Checking not available - checks done on local data only' and '(2 of 2) Combination Drug: Perform Manual Allergy-Drug Check'. The second message includes a condition about combination drugs and an action to perform a manual review of allergies. Below the messages are 'Accept Order' and 'Cancel Order' buttons. A red box with an arrow points to the 'Accept Order' button, containing the text 'Warning Message displays upon entry of "Accept Order"'. At the bottom of the window, there is an information icon and a message: 'Drugs in this combination may NOT trigger ALLERGY order checks'. The bottom section of the window shows the final order details: 'HCTZ 12.5/LISINOPRIL 10MG TAB', 'TAKE TWO TABLETS BY MOUTH EVERY MORNING', and 'Quantity: 60 Refills: 0', with 'Accept Order' and 'Quit' buttons.

Outpatient Medications

HYDROCHLOROTHIAZIDE/LISINOPRIL TAB

Change

Display Restrictions/Guidelines

Dosage	Complex	Route	Schedule
2 TABLETS HCTZ 12.5/LISINOPRIL 10MG TAB		ORAL (BY MOUTH)	QAM <input type="checkbox"/> PRN
1 TABLET HCTZ 12.5/LISINOPRIL 10MG TAB		ORAL (BY MOUTH)	QAM
2 TABLETS HCTZ 12.5/LISINOPRIL 10MG TAB			QAMINSULIN
1 TABLET HCTZ 12.5/LISINOPRIL 20MG TAB			QDAY
2 TABLETS HCTZ 12.5/LISINOPRIL 20MG TAB			QDAY-DIG
1 TABLET HCTZ 25/LISINOPRIL 20MG TAB			QDAY-WARF
2 TABLETS HCTZ 25/LISINOPRIL 20MG TAB			QHS
			QID

Order Checking

(1 of 2) Remote Order Checking not available - checks done on local data only

(2 of 2) Combination Drug: Perform Manual Allergy-Drug Check
Condition: The ordered product is in a combination drug class. Drugs in this class may NOT trigger ALLERGY-DRUG order checks.
Action: Perform a manual review of the patient's allergies to assess for possible drug-related adverse events.

Accept Order Cancel Order

Warning Message displays upon entry of "Accept Order"

Drugs in this combination may NOT trigger ALLERGY order checks

HCTZ 12.5/LISINOPRIL 10MG TAB
TAKE TWO TABLETS BY MOUTH EVERY MORNING
Quantity: 60 Refills: 0

Accept Order Quit

Figure 2 - CPRS Order signature

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"/>	<div><div>HCTZ 12.5/LISINOPRIL 10MG TAB TAKE TWO TABLETS BY MOUTH EVERY MORNING Quantity: 60 Refills: 0 *UNSIGNED*</div><div><div>(1 of 2) Remote Order Checking not available - checks done on local data only</div><div><div>*Order Check requires Reason for Override</div><div>(2 of 2) Combination Drug: Perform Manual Allergy-Drug Check Condition: The ordered product is in a combination drug class. Drugs in this class may NOT trigger ALLERGY-DRUG order checks. Action: Perform a manual review of the patient's allergies to assess for possible drug-related adverse events.</div></div></div></div>

Warning displays and an Override is required

Cancel Checked Order(s)

NOTE: The override reason is for tracking purposes and does not change or place new order(s).

Enter reason for overriding order checks:

Accept Order(s)

Return to Orders

Drug Interaction Monograph

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 211 will be used to install, it will vary by site.

```
http://vista.med.va.gov/reminders/UPDATE_2_0_13.PRD successfully loaded.
```

+Item	Entry	Source	Date Packed
211	UPDATE_2_0_13 VA-COMBINATION DRUG CLASSES CROC	SALT LAKE CI	01/19/2016@12:21
212	UPDATE_2_0_1_1 BENEFICIARY TRAVEL/EBOLA UPDATE	MONTGOMERY@SALT LAKE CI	11/20/2015@09:13
213	UPDATE_2_0_1_2 BENEFICIARY TRAVEL/EBOLA UPDATE	GRIFFITH@SALT LAKE CI	01/25/2016@05:08
214	UPDATE_2_0_2 CAREGIVER ELIG	GRIFFITH@SALT LAKE CI	02/18/2016@13:10
215	UPDATE_2_0_2_1 CAREGIVER ELIG	GRIFFITH@SALT LAKE CI	10/01/2015@05:59
216	UPDATE_2_0_2_2 CAREGIVER ELIG	GRIFFITH@SALT LAKE CI	11/30/2015@09:16
217	UPDATE_2_0_2_3 CAREGIVER ELIG	GRIFFITH@SALT LAKE CI	01/08/2016@06:15

```
+      + 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// IFE  Install Exchange File Entry
Enter a list or range of numbers (1-376): 211
```

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

Component	Category	Exists
Source: SILVERMAN,ROBERT at SALT LAKE CITY		
Date Packed: 01/19/2016@12:21:52		
Package Version: 2.0P52		
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: 01/19/2016@12:21:52
Package Version: 2.0P52

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

+ + 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 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: Perform 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.