

# **Clinical Case Registries (CCR)**

**Version 1.5**



## **Release Notes**

April 2014

Patch ROR\*1.5\*21

**Department of Veterans Affairs  
Office of Enterprise Development  
Health Data Systems – Registries**

**THIS PAGE INTENTIONALLY LEFT BLANK**

# Revision History

Date	Description	Author	Role
April, 2014	Final release for Patch ROR*1.5*21. See <a href="#">Table 1</a> for details.	John Sanders Terry Kopp Lori Torrance Edward Micys	Project Manager M Developer Software Quality Assurance Analyst Delphi Developer
March, 2013	Final release for Patch ROR*1.5*20. See <i>User Manual</i> for details.	John Sanders Connie Ray Steven Baxter Edward Micys Karen Jocius	Project Manager M Developer Software Quality Assurance Analyst Delphi Developer Tech Writer
August, 2012	Final release for Patch ROR*1.5*18. See <i>User Manual</i> for details.	John Sanders Connie Ray Linda Berry Edward Micys Dan Zaudtke	Project Manager M Developer Software Quality Assurance Analyst Delphi Developer Tech Writer
April, 2012	Final release for Patch ROR*1.5*17. See <i>User Manual</i> for details.	John Sanders Connie Ray Linda Berry Edward Micys Dan Zaudtke	Project Manager M Developer Software Quality Assurance Analyst Delphi Developer Tech Writer
September, 2011	Final release for Patch ROR*1.5*15. See <i>User Manual</i> for details.	John Sanders Connie Ray Linda Berry Edward Micys Dan Zaudtke	Project Manager M Developer Software Quality Assurance Analyst Delphi Developer Tech Writer
March, 2011	Patch ROR*1.5*14. See <i>User Manual</i> for details.	Vida Dunie Angela Saunders Linda Berry Ed Micys	Tech Writer M Developer Software Quality Assurance Analyst Delphi Developer
September, 2010	Final release for Patch ROR*1.5*13. See <i>User Manual</i> for details.	Kenneth Rikard	Project Manager
April, 2010	Final release for Patch ROR*1.5*10: See <i>User</i>		

Date	Description	Author	Role
	<i>Manual</i> for details.	Edward Micyus Angela Saunders Linda Berry VJ McDonald	Delphi Developer M Developer Software Quality Assurance Analyst Technical Writer
July, 2009	Patch ROR*1.5*8: See <i>User Manual</i> for details.	Kenneth Rikard Edward Micyus Victor Carr Angela Saunders Linda Berry VJ McDonald	Project Manager Delphi Developer M Developer M Developer Software Quality Assurance Analyst Technical Writer
July, 2008	Patch ROR*1.5*7: See <i>User Manual</i> for details.	(unknown)	
May, 2008	Patch ROR*1.5*6: See <i>User Manual</i> for details.	(unknown)	
March, 2008	Patch ROR*1.5*5: See <i>User Manual</i> for details.	(unknown)	
December, 2007	Patch ROR*1.5*4: See <i>User Manual</i> for details.	(unknown)	
November, 2007	Patch ROR*1.5*3: See <i>User Manual</i> for details.	(unknown)	
October, 2007	Patch ROR*1.5*2: See <i>User Manual</i> for details.	(unknown)	
October 2006	Patch ROR*1.5*1: See <i>User Manual</i> for details.	Christine Beynon	
February 2006	Completely updated for CCR Version 1.5	Christine Long	
June 2002	Initial release of CCR Version 1.0	(unknown)	

THIS PAGE INTENTIONALLY LEFT BLANK



# 1.0 Introduction

The Clinical Case Registries (CCR) software application collects data on the population of veterans with certain clinical conditions, namely Hepatitis C and Human Immunodeficiency Virus (HIV) infections at the local and national level as well as 17 local, generic registries.

Data from the registries is used for both clinical and administrative reporting on both a local and national level. Each facility can produce local reports (information related to patients seen in their system). Reports from the national database are used to monitor clinical and administrative trends, including issues related to patient safety, quality of care, and disease evolution across the national population of patients.

The software uses pre-defined selection rules that identify patients with possible Hepatitis C and/or HIV (such as a disease related *International Statistical Classification of Diseases and Related Health Problems*, ninth edition—commonly abbreviated as “ICD-9”—code or a positive result on an antibody test) and adds them to the registry in a pending state. Pending patients are reviewed by the local registry coordinator and if the data confirm the diagnosis, the local registry coordinator confirms the patient in the registry.

Each night a background process transmits a set of predefined data via [Health Level 7 \(HL7\)](#) message to the national CCR database at the [Corporate Data Center Operations](#) (CDCO). Data from both the Hepatitis C and HIV registries, and the local registries, are aggregated in the same message. If there is more new data than is allowed by the registry parameter for a single CCR HL7 batch message (the current limit is 5 megabytes), the software will send several messages during a single night. The CCR software creates a limited set of database elements to be stored locally in the [Veterans Health Information Systems and Technology Architecture \(VistA\)](#) system, and focuses on assuring that the local listing is complete and accurate, that the desired data elements are extracted, and that data elements are appropriately transmitted to the national database.

The registries at each facility will store selected HIV and Hepatitis C data from 1985 to the present.

CCR provides these key features:

- Automates the development of a local list of patients with evidence of HIV or Hepatitis C infection.
- Automatically transmits patient data from the local registry lists to a national database.
- Provides robust reporting capabilities.

CCR also provides the following functions:

- Facilitates the tracking of patient outcomes relating to treatment.
- Identifies and tracks important trends in treatment response, adverse events, and time on therapy.
- Monitors quality of care using both process and patient outcome measures.

## 2.0 What's New with ROR\*1.5\*21

Patch ROR\*1.5\*21 includes maintenance and enhancement modifications to version 1.5 of the Clinical Case Registries (CCR) application that correct inherent shortcomings in the existing software and enhance other existing capabilities. ROR\*1.5\*21 contains the following enhancements (E), modifications (M) and fixes (F):

**Table 1 – Changes for Patch 21**

#	Description	Type
1	This patch adds the following medication: <ul style="list-style-type: none"><li>• VA Product: DOLUTEGRAVIR</li><li>• VA Generic: DOLUTEGRAVIR</li></ul> <p>This new medication has been added to the ROR GENERIC DRUG (#799.51) file and can now be selected on reports to provide information about the patients who are taking the new medication.</p>	E
2	A new local registry, Obstructive Sleep Apnea (VA APNEA), was added based on ICD9 codes provided by the national Office of Public Health/Population Health.	E
3	An additional selection panel titled "Sex" will be created.	E
4	An additional selection panel titled "Additional Identifier" will be created.	E
5	To facilitate off-line record matching, patient ICN will be added to all reports, except the Current Inpatient List.	E
6	The "Utilization Date Range" selection panel will be added to the Diagnosis Report in order to provide sites with the ability to run reports that limit output to patients with utilization within a specific date range.	E
7	Report enhancement for screen on gender.	E
8	Report enhancement for addition of optional ICN column.	E
9	The nightly HL7 message will be updated to also include the number of reports run in all of the local registries including the new Obstructive Sleep Apnea Registry.	E
10	This patch brings the Clinical Case Registries (CCR) application into 508 compliance in many areas.	E

**Table 2 – Global Updates for Patch ROR\*1.5\*21**

File Name and Number	Update
ROR GENERIC DRUG file (#799.51)	Add DOLUTEGRAVIR



## 3.0 Obtaining Software and Documentation

The CCR 1.5 software distributives and documentation files are available for downloading from the following Office of Information Field Offices (OIFO) [ANONYMOUS SOFTWARE] directories.

**Table 3 – Software and Documentation Sources**

OIFO	FTP Address	Directory
Albany	<a href="ftp.fo-albany.med.va.gov">ftp.fo-albany.med.va.gov</a>	ANONYMOUS . SOFTWARE
Hines	<a href="ftp.fo-hines.med.va.gov">ftp.fo-hines.med.va.gov</a>	ANONYMOUS . SOFTWARE
Salt Lake City	<a href="ftp.fo-slc.med.va.gov">ftp.fo-slc.med.va.gov</a>	ANONYMOUS . SOFTWARE

**Table 4 – Files Included in Distribution**

File Name	Contents	Retrieval Format
ROR1_5P21GUI.ZIP	Zipped GUI distributive	BINARY
ROR1_5P21DOC1.ZIP	Zipped DOC distributive, which includes both .PDF and .DOC formats: ▶ User Manual (ROR1_5_21UM)	BINARY
ROR1_5P21DOC2.ZIP	▶ Installation and Implementation Guide (ROR1_5_21IG) ▶ Technical Manual / Security Guide (ROR1_5_21TM) ▶ Release Notes (ROR1_5_21RN)	BINARY

Patch ROR\*1.5\*21 is available in the National Patch Module on FORUM<sup>1</sup> as a PackMan message.

---

<sup>1</sup> FORUM is the VA's national-scale email system. FORUM uses the VistA mail software and provides an excellent interface for threaded messages that can take the form on ongoing discussions. The national patch module is a VistA application that helps developers to manage the numbering, inventory, and release of patches. Patches are developed in response to request submissions and an error reporting request system known as National Online Information Sharing. A process called the Kernel Installation Distribution System (KIDS) is used to roll up patches into text messages that can be sent to sites along with installation instructions. The patch builds are sent as text messages via email, and the recipient (*e.g.*, a site administrator) can run a PackMan function to unpack the KIDS build and install the selected routines.

See <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.100.5551&rep=rep1&type=pdf>

## 4.0 VistA Documentation on the Intranet

Documentation for this product, including all of the software manuals, is available in the VistA Document Library (VDL). The Clinical Case Registries documentation may be found at <http://www.va.gov/vdl/application.asp?appid=126>.

For additional information about the CCR, access the CCR Home Page at the following address: <http://VistA.med.va.gov/ClinicalSpecialties/CCR/>.

Training links and information are also available at <http://vaww.VistAu.med.va.gov/VistAu/CCR/>.

## 5.0 Specific Instructions

(See the *CCR Installation and Implementation Guide* for installation instructions.)

## 6.0 Matching GUI Version to Patch

**WARNING** If the **GUI** and **VistA** software versions do not match, users may encounter problems with the application. For example, if the site has installed Patch ROR\*1.5\*21, users' **GUI** installations should also be at Patch level 21. Users can determine the **GUI** version by using the Help | About CCR menu option.

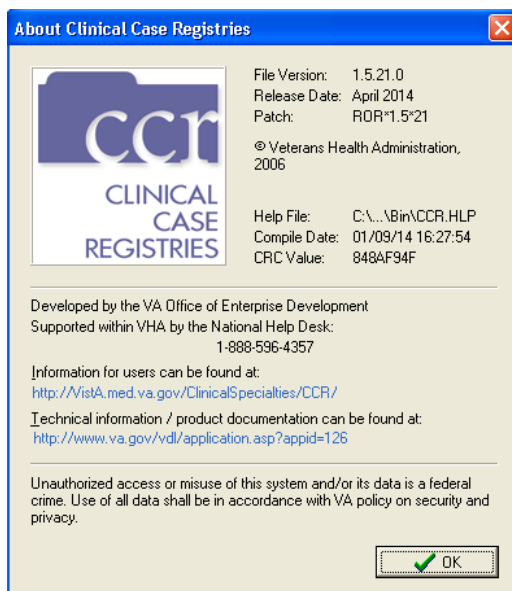


Figure 1 – Help | About Pane

This menu option displays the **About Clinical Case Registries** screen. It shows basic information about the current file version including the release date, patch number, similar to the screen shown here where the Clinical Case Registries software was developed and the software compile date. Click **[OK]** or press the **< Esc >** key to close the pane.

Since CCR 1.5.10, this window meets current VA GUI Standards and Conventions requirements.

Users may download the latest GUI software as outlined in [3.0 above](#).

THIS PAGE INTENTIONALLY LEFT BLANK