

Clinical Case Registries (CCR)

Version 1.5



Release Notes

Documentation Revised March 2011
For Patch ROR*1.5*14

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

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Revision History

Date	Description	Author	Role
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 Manual</i> for details.	Edward Micys 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 Micys 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)	

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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.

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 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*14

Patch ROR*1.5*14 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*14 contains the following enhancements (E):

Table 1 – Changes for Patch 14

#		Type
1	The 13 risk factors for the HIV registry have been changed from mandatory to optional.	E
2	Currently, within the Patient Data Editor in the HIV registry, the user is prompted to click a checkbox if the patient "ever had an AIDS OI." This prompt and checkbox has been replaced with the question "Did the patient ever have an AIDS OI?" and the option to select either Yes, No , or Unknown has been added to the checkbox.	E
3	The following mandatory question has been added to the Patient Data Editor: "Was your VHA facility/station the first health care setting (VA or non-VA) to diagnose HIV?" along with a checkbox to select either Yes, No or Unknown .	E
4	A new column has been added to the List of Registry Patients Report that allows the user to select "Diagnosed at this facility". This column indicates whether this facility was the first health care setting (VA or Non-VA) to diagnose HIV.	E
5	The nightly extract has been enhanced to include Purchased Care data for registry patients.	E
6	The "MELD Score by Range" report has been renamed to "Liver Score By Range".	E
7	The "Liver Score by Range" report now includes the list of LOINC codes used in the report.	E
8	The "Renal Score by Range" report now includes the list of LOINC codes used in the report.	E
9	The "Liver Score by Range" report now includes APRI and FIB-4 calculations.	E
10	Patients will be automatically confirmed into the HEPC Registry if they have a positive Hepatitis C Virus (HCV) viral load test result.	E
11	This patch brings the Clinical Case Registries (CCR) application into 508 compliance in many areas.	E

#		Type
12	An historical data extraction for Purchased Care is added to the ROR HISTORICAL DATA EXTRACTION file (#799.6) for automatic execution during the next nightly extract.	E
13	Global updates as indicated in Table 2 .	

Table 2 – Global Updates for Patch ROR*1.5*14

File Name and Number	Update
ROR LAB SEARCH (#798.9)	HCV Viremic LOINC values are added to the VA HEPC Lab Search criteria in sub-file LAB TEST (#2): 11011 29609 34703 34704 10676 20416 20571 49758 50023
ROR XML ITEM (#799.31)	New entries "FIRSTDIAG" , "LOINC_CODES" , "APRI" , and "FIB4" are added to the file.
ROR DATA AREA (#799.33)	New entry "Purchased Care" is added to the file.
DIALOG (#.84)	7981001.001 List of Registry Patients (HTML) 7981019.001 Liver Report by Range (HTML) 7981019.002 Liver Report by Range (CSV) 7981020.001 Renal Function by Range (HTML) 7981997.001 Patient data Templates (HTML)
ROR HIV Record (#799.4)	1. New field HIV DX: FIRST DIAGNOSED HERE (#12.08) is added to the file. 2. The CLINICAL AIDS field (#.02) is updated to include the value of "UNKNOWN" in the set of codes.

File Name and Number	Update
ROR HISTORICAL DATA EXTRACTION (#799.6)	Entry "PURCHASED CARE" is added to the file.

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	ftp.fo-albany.med.va.gov	ANONYMOUS . SOFTWARE
Hines	ftp.fo-hines.med.va.gov	ANONYMOUS . SOFTWARE
Salt Lake City	ftp.fo-slc.med.va.gov	ANONYMOUS . SOFTWARE

Table 4 – Files Included in Distribution

File Name	Contents	Retrieval Format
ROR1_5P14GUI . ZIP	Zipped GUI distributive	BINARY
ROR1_5P14DOC1 . ZIP	Zipped DOC distributive, which includes both .PDF and .DOC formats: ▶ User Manual (ROR1_5_14UM)	BINARY
ROR1_5P14DOC2 . ZIP	▶ Installation and Implementation Guide (ROR1_5_14IG) ▶ Technical Manual / Security Guide (ROR1_5_14TM) ▶ Release Notes (ROR1_5_14RN)	BINARY

Patch ROR*1.5*14 is available in the National Patch Module on FORUM¹ as a PackMan message.

¹ 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

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*14, users' **GUI** installations should also be at Patch level 14. Users can determine the **GUI** version by using the Help | About CCR menu option.

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>

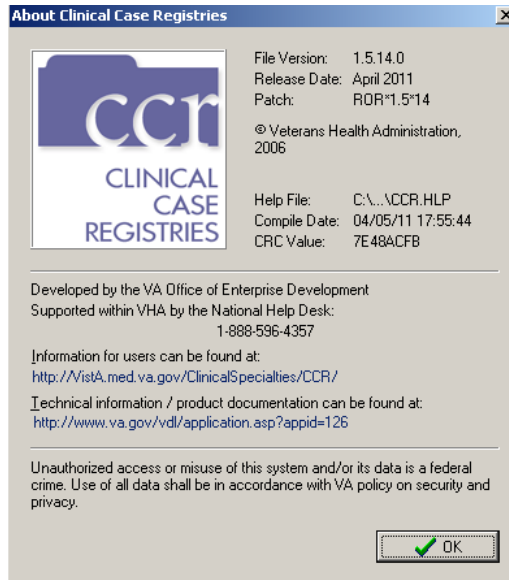


Figure 1 – Help | About Pane

In this example, the menu option displays the **About Clinical Case Registries** pane. The pane display 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](#).

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