

Clinical Case Registries (CCR)

Version 1.5



Release Notes

Documentation Revised September 2010
For Patch ROR*1.5*13

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

Revision History

Date	Description	Author	Role
September, 2010	Final release for Patch ROR*1.5*13. See Table 1 for details.	Kenneth Rikard	Project Manager
April, 2010	Final release for Patch ROR*1.5*10: See <i>User 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)	

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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*13

Patch ROR*1.5*13 introduces new reporting functionality to version 1.5 of the Clinical Case Registries (CCR) application and enhances other existing capabilities. ROR*1.5*13 contains the following modifications (M), fixes (F) and enhancements (E):

Table 1 – Changes for Patch 13

#	Description	Type
1	Adds LOINC code 57006 to the VA Hepatitis C (HEPC) entry of the Lab Search criteria in the ROR LAB SEARCH file (#798.9), sub-file LAB TEST (#2).	M
2	Enhances the nightly and historical HL7 extracts to include ORC and RXE segments for Non-VA medications for registry patients. Non-VA medication data will be pulled if the DOCUMENTED DATE (#13) or the DISCONTINUED DATE (#6) in the NON-VA MEDS sub-file (#52.2) of the PHARMACY PATIENT file (#55) is within the extract range.	E
3	Enhances the Patient Medication History report to allow users to select the most recent fill only, or all fills. The report output has been enhanced to include a column displaying the number of fills remaining.	E
4	Reports BMI by Range, MELD Score by Range, and Renal Function by Range have been enhanced to allow users to sort the report output by the calculations. The BMI by Range report can be sorted by the BMI score. The MELD Score by Range report can be sorted by the MELD or the MELD-Na score. The Renal Function by Range report can be sorted by the CrCL or the eGFR score.	E
5	All reports (except Outpatient Utilization, Inpatient Utilization, List of Registry Patients, and Current Inpatient List) will allow users to select specific clinics or divisions. All reports (except List of Registry Patients and Current Inpatient List) will allow users to select specific patients.	E
6	When users want to select specific medications in the Combined Meds And Labs report or the Patient Medication History report, the text in the search box will automatically convert to uppercase.	E
7	The CCR GUI application will now check VistA for the last CCR M patch installed, and it will display a message if the CCR GUI and the M patches are out of sync with each other.	E
8	The CCR GUI was updated to work towards becoming fully compliant with the Section 508 standards.	F
9	An historical data extraction for Non-VA meds is added to the ROR HISTORICAL DATA EXTRACTION file (#799.6). It will automatically execute during the next nightly extract, and there is no manual intervention required by the sites. The extraction date range for this historical data extraction is 1/1/1985 through current date (installation date).	E
10	Global updates as indicated in Table 2 .	E

Table 2 – Global Updates for Patch ROR*1.5*13

File Name and Number	Update
ROR LAB SEARCH #798.9)	LOINC value 57006 is added to the VA HEPC Lab Search criteria in sub-file LAB TEST (#2).
ROR DATA AREA (#799.33)	New entry “Non-VA Meds” is added to the file.
ROR XML ITEM (#799.31)	New entries “REFILLS”, “ALL_FILLS”, and “RECENT_FILLS” are added to the file.
ROR REPORT PARAMETERS (#799.34)	<p><i>Entries modified:</i></p> <p>General Utilization and Demographics Clinic Follow Up Inpatient Utilization Lab Utilization Radiology Utilization Pharmacy Prescription Utilization Registry Lab Tests by Range Patient Medication History Combined Meds and Labs Diagnoses Registry Medications Procedures Outpatient Utilization VERA Reimbursement Report BMI by Range MELD Score by Range Renal Function by Range</p>
DIALOG (#.84)	<p><i>Entries modified:</i></p> <p>7981011.001 Patient Medication History (HTML) 7981011.002 Patient Medication History (CSV) 7981018.001 BMI Report by Range (HTML) 7981018.002 BMI Report by Range (CSV) 7981019.001 MELD Report by Range (HTML) 7981019.002 MELD Report by Range (CSV) 7981020.001 Renal Function by Range (HTML) 7981020.002 Renal Function by Range (CSV) 7981999.001 Common XSL templates (HTML)</p>
REMOTE PROCEDURE (#8994)	New entry “ROR GET M VERSION” is added to the file. This Remote Procedure Code (RPC) is used to determine whether the CCR GUI

File Name and Number	Update
	application version is in sync with the last CCR M patch installed.
OPTION (#19)	The RPC “ROR GET M VERSION” is added to the RPC list for the existing ROR GUI entry.
ROR HISTORICAL DATA EXTRACTION (#799.6)	Entry “NON-VA MEDS” 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_5P13GUI.ZIP	Zipped GUI distributive	BINARY
ROR1_5P13DOC1.ZIP	Zipped DOC distributive, which includes both .PDF and .DOC formats: <ul style="list-style-type: none"> ▶ User Manual (ROR1_5_13UM) 	BINARY
ROR1_5P13DOC2.ZIP	<ul style="list-style-type: none"> ▶ Installation and Implementation Guide (ROR1_5_13IG) ▶ Technical Manual / Security Guide (ROR1_5_13TM) ▶ Release Notes (ROR1_5_13RN) 	BINARY

Patch ROR*1.5*13 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*13, users' **GUI** installations should also be at Patch level 13. 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>

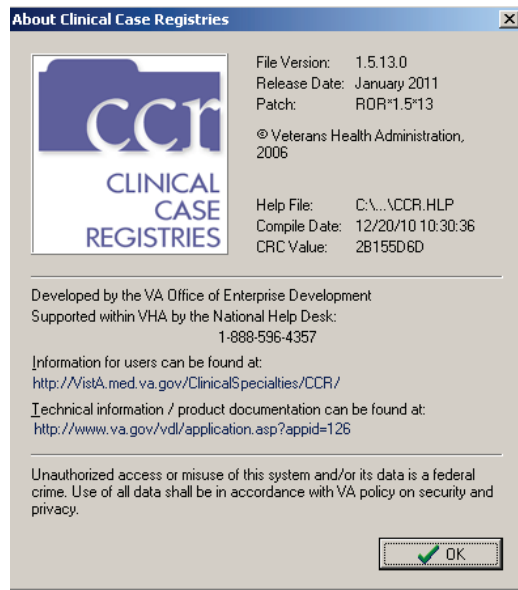


Figure 1 – Help | About pane

This menu option displays the **About Clinical Case Registries** pane. It shows basic information about the current file version including the release date, patch number, 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](#).