

**Mental Health
And
Mental Health Assistant Version 3**



Technical Manual/Security Guide
Version 2.5
March 2012
Revised September 2021

**Department of Veterans Affairs
Office of Information and Technology (OIT)
Product Development**

Revision History

Date	Version	Change	Project Manager	Technical Writer
Sept. 2021	2.5	Patch YS*5.01*191: Informational patch for redactions and 508 comp.	CPRS Dev. Team	CPRS Dev. Team
May 2021	2.4	Patch YS*5.01*170: Updated the OPTION file (#19) entry in the Mental Health Remote Procedure Context Option section. Made the "Routines Deleted by Mental Health Patch 60" table more readable.	CPRS Development Team	CPRS Development Team
Dec. 2020	2.3	Updated dates	REDACTED	Liberty IT Solutions HI&M Team
Nov. 2020	2.2	Revised for grammar and spelling errors	VA	REDACTED
Nov. 2020	2.1	Updated version for patch 149. Added Appendix B. Updated Remote Systems, Transmission Options, File Manager Access Codes, and sections and footers.	REDACTED	Liberty IT Solutions HI&M Team
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March 2018	1.3	Updated Title and Footers;	REDACTED	Booz Allen SPP Project Team

Date	Version	Change	Project Manager	Technical Writer
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29 Feb. 2012	1.1	Added table "MHA3 Patch YS*5.01*129 exports the following folders and files" to page 14	REDACTED	MHE-OM Developer Team
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7-Jul-11	0.1	Initial Draft	REDACTED	MHE-OM Team

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Introduction

The Mental Health Technical Manual V. 5.01 is designed as a reference manual to provide a technical description of the Mental Health package for the Department of Veterans Affairs Medical Center (VAMC) Information Resource Management Service (IRMS), Automated Data Processing Application Coordinators (ADPAC), and Clinical Coordinators. For more information regarding options and menus, please see the Mental Health User Manual V. 5.01.

Overview

The Mental Health V. 5.01 package is designed to provide a means of rapidly gathering, storing, and reporting clinical information for patients receiving mental health treatment and /or assistance with vocational issues. The clinical information stored in the Vista database is readily accessible to clinical staff throughout the various Mental Health Treatment Service areas and other clinics in the Medical Center. It can also be sent to enterprise storage facilities such as the Austin Information Technology Center (AITC).

Software and Manual Retrieval

The following software and documentation files are exported as part of Mental Health patch YS*5.01*150:

File Name	Contents	Format
YS_501_150_IG.PDF	YS_MHA3 Installation Guide	Binary
YS_MHA3_UM.PDF	YS_MHA3 User Manual	Binary
YS_MHA3_TM.PDF	YS_MHA3 Technical Manual /Security Guide	Binary

The software files are available on the following OI Field Offices' [ANONYMOUS.SOFTWARE] directories. Use the following FTP address to connect to the first available FTP server: **REDACTED**

OI FIELD OFFICE	FTP ADDRESS	DIRECTORY
REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED

VistA Intranet

Refer to the Web sites listed below when you want to receive more background and technical information about the Mental Health package v 5.01, and to download this manual and related documentation.

Online Documentation for this product is available at: <http://www.va.gov/vdl/>. This website is the VistA Documentation Library (VDL), which has a listing of all the software manuals for VistA. Click on the Mental Health link, and it will take you to the Mental Health v 5.01 documentation.

Screen Displays

Before installing Mental Health package v 5.01, review this section to learn the many conventions used throughout this guide.

- **Keyboard Responses:** Keys provided in boldface, within the copy, help you quickly identify what to press on your keyboard to perform an action. For example, when you see **enter** in the copy, press this key on your keyboard.
- **Screen Captures:** Provide “shaded” examples of what you will see on your computer screen, and possible user responses. The computer dialogue appears in Courier font.
- **Notes:** Provided within the steps describe exceptions or special cases about the information presented. They reflect the experience of our staff, developers, and testers.
- **Note:** This *boxed* element highlights special details about the current topic.
- **Other Names:** File and field names, and Security keys provided in uppercase. For example, you may select a patient's name from the PATIENT file (#2).
- **Menu Options:** Provided in italics. For example, you may establish Electronic Signatures Codes using the Kernel Electronic Signature Code Edit [XUSESIG] option.

Implementation & Maintenance

Minimum Requirements

Before installing Mental Health package v 5.01, make sure that your system includes the following Department of Veterans Affairs (VA) software packages and versions (those listed or higher).

Application Name	Minimum Version Needed
CPRS	31 A
Clinical Reminders	2.0
Kernel	8.0
RPC Broker	1.1

Application Name	Minimum Version Needed
PIMS	5.3
VA FileMan	22.0
Mailman	8.0

Routines and Checksums

The Calculate and Show Checksum Values [XTSUMBLD-CHECK] menu option can be used as shown below to display a list of checksums for Mental Health package V. 5.01. The Mental Health routines are in the YS* and YT* namespaces.

Select Programmer Options Option: Calculate and Show Checksum Values
 This option determines the current Old (CHECK^XTSUMBLD) or New (CHECK1^XTSUMBLD) logic checksum of selected routine(s).

Select one of the following:

- 1 Old
- 2 New

New or Old Checksums: New// 2New New

Checksum CHECK1^XTSUMBLD:

This option determines the current checksum of selected routine(s).

The Checksum of the routine is determined as follows:

1. Any comment line with a single semi-colon is presumed to be followed by comments and only the line tag will be included.
2. Line 2 will be excluded from the count.
3. The total value of the routine is determined (excluding exceptions noted above) by multiplying the ASCII value of each character by its position on the line and position of the line in the routine being checked.

Select one of the following:

- Package
- Build
- Build from: Build

This will check the routines from a BUILD file.

Select BUILD NAME: YS*5.01*150MENTAL HEALTH

YS150PST value = 9122642

YTQAPI2D	value = 6639144
YTSACE	value = 2551823
YTSBSL23	value = 3044905
YTSCMQ	value = 2552097
YTSEAT26	value = 6312697
YTSFOCI	value = 4656413
YTSMHRM	value = 2499615
YTSNUDEC	value = 13752134
YTSSIP30	value = 5052592
YTSSIPST	value = 5906306
YTSSWEM	value = 6610853

Routine Descriptions

To obtain a brief description for all Mental Health routines, use the First Line Routine Print [XU FIRST LINE PRINT] menu option. Including the second line in the report will show which patches have made changes to the routine. This menu option is part of Programmer Options [XUPROG] on the Routine Tools [XUPR-ROUTINE-TOOLS] menu.

Files

The following is a listing of the files exported with Mental Health package v. 5.01:

File Number	File Name	Global
601	MH Instrument	^YTT(601,
601.2	PSYCH INSTRUMENT PATIENT	^YTD(601.2,
601.3	COPYRIGHT HOLDER	^YTT(601.3,
601.4	INCOMPLETE PSYCH TEST PATIENT	^YTD(601.4,
601.6	MH MULTIPLE SCORING	^YTT(601.6,
601.71	MH TESTS AND SURVEYS	^YTT(601.71,
601.72	MH QUESTIONS	^YTT(601.72,
601.73	MH INTRODUCTIONS	^YTT(601.73,
601.74	MH RESPONSE TYPES	^YTT(601.74,
601.75	MH CHOICES	^YTT(601.75,
601.751	MH CHOICETYPES	^YTT(601.751,

File Number	File Name	Global
601.76	MH INSTRUMENT CONTENT	^YTT(601.76,
601.77	MH BATTERIES	^YTT(601.77,
601.78	MH BATTERY CONTENTS	^YTT(601.78,
601.781	MH BATTERY USERS	^YTT(601.781,
601.79	MH SKIPPED QUESTIONS	^YTT(601.79,
601.81	MH SECTIONS	^YTT(601.81,
601.82	MH RULES	^YTT(601.82,
601.83	MH INSTRUMENTRULES	^YTT(601.83,
601.84	MH ADMINISTRATIONS	^YTT(601.84,
601.85	MH ANSWERS	^YTT(601.85,
601.86	MH SCALEGROUPS	^YTT(601.86,
601.87	MH SCALES	^YTT(601.87,
601.88	MH DISPLAY	^YTT(601.88,
601.89	MH CHOICEIDENTIFIERS	^YTT(601.89,
601.91	MH SCORING KEYS	^YTT(601.91,
601.92	MH RESULTS	^YTT(601.92,
601.93	MH REPORT	^YTT(601.93,
601.94	MH CR SCRATCH	^YTT(601.94,
603.01	CLOZAPINE PATIENT LIST	^YSCL(603.01,
603.02	CLOZAPINE LAB TEST	^YSCL(603.02,
603.03	CLOZAPINE PARAMETERS	^YSCL(603.03,
603.04	CLOZAPINE TESTS	^YSCL(603.04,
603.05	CLOZAPINE HL7 TRANSMISSION	^YSCL(603.05,

File Number	File Name	Global
604	ADDICTION SEVERITY INDEX	^YSTX(604,
604.26	ASI PROGRAM TYPE	^YSTX(604.26,
604.3	ASI LEGAL CODE	^YSTX(604.3,
604.4	ASI LIVING ARRANGEMENTS	^YSTX(604.4,
604.45	ASI PATIENT RATING SCALE	^YSTX(604.45,
604.48	ASI ROUTE OF ADMINISTRATION	^YSTX(604.48,
604.5	ASI FAMILY HX CODES	^YSTX(604.5,
604.55	ASI FOLLOW UP	^YSTX(604.55,
604.66	ASI QUICK FORM	^YSTX(604.66,
604.68	ASI NARRATIVE	^YSTX(604.68,
604.77	ASI SUBSTANCE CODE	^YSTX(604.77,
604.8	ASI PARAMETERS	^YSTX(604.8,
615.2	SECLUSION/RESTRAINT	^YS(615.2,
615.5	S/R REASONS	^YSR(615.5,
615.6	S/R CATEGORY	^YSR(615.6,
615.7	S/R RELEASE CRITERIA	^YSR(615.7,
615.8	S/R ALTERNATIVES	^YSR(615.8,
615.9	S/R OBSERVATION CHECKLIST	^YSR(615.9,
627.7	DSM	^YSD(627.7,
627.8	DIAGNOSTIC RESULTS MENTAL HEALTH	^YSD(627.8,
627.9	DSM MODIFIERS	^DIC(627.9,

File Descriptions

For a complete description of each file and fields, use the List File Attributes [DILIST] option of the VA File Manager. See the list above for the file names and numbers.

VA File Manager Access Codes

This list shows all Mental Health package files and their VA File Manager access codes:

FILE ACCESS	NUMBER	DD	RD	WR	DEL
<hr/>					
<hr/>					
MH INSTRUMENT	601	@	Y	Y	Y
PSYCH INSTRUMENT PATIENT	601.2.	@	Y	Y	Y
COPYRIGHT HOLDER	601.3.	@	Y	Y	Y
INCOMPLETE PSYCH TEST PATIENT	601.4.	@	Y	Y	Y
MH MULTIPLE SCORING	601.6	@	@	@	@
MH TESTS AND SURVEYS	601.71	@	@	@	@
MH QUESTIONS	601.72	@	@	@	@
MH INTRODUCTIONS	601.73	@	@	@	@
MH RESPONSE TYPES	601.74	@	@	@	@
MH CHOICES	601.75	@	@	@	@
MH CHOICETYPES	601.751	@	@	@	@
MH INSTRUMENT CONTENT	601.76	@	@	@	@
MH BATTERIES	601.77	@	@	@	@
MH BATTERY CONTENTS	601.78	@	@	@	@
MH BATTERY USERS	601.781	@	@	@	@
MH SKIPPED QUESTIONS	601.79	@	@	@	@
MH SECTIONS	601.81	@	@	@	@
MH RULES	601.82	@	@	@	@
MH INSTRUMENTRULES	601.83	@	@	@	@
MH ADMINISTRATIONS	601.84	@	@	@	@
MH ANSWERS	601.85	@	@	@	@
MH SCALEGROUPS	601.86	@	@	@	@
MH SCALES	601.87	@	@	@	@
MH DISPLAY	601.88	@	@	@	@
MH CHOICEIDENTIFIERS	601.89	@	@	@	@
MH SCORING KEYS	601.91	@	@	@	@
MH RESULTS	601.92	@	@	@	@
MH REPORT	601.93	@	@	@	@
MH CR SCRATCH	601.94	@	@	@	@
CLOZAPINE PATIENT LIST	603.01	-----NONE-----			
-					
CLOZAPINE LAB TEST	603.02	@	@	@	@
CLOZAPINE PARAMETERS	603.03	@	@	@	@

CLOZAPINE TESTS	603.04	-----NONE-----				
-						
CLOZAPINE HL7 TRANSMISSION FILE	603.05	@	Y	@	@	@
ADDICTION SEVERITY INDEX						
604						
-----NONE-----						
-						
ASI PROGRAM TYPE	604.26	-----NONE-----				
-						
ASI LEGAL CODE	604.3	-----NONE-----				
-						
ASI LIVING ARRANGEMENTS	604.4	-----NONE-----				
-						
ASI PATIENT RATING SCALE	604.45	-----NONE-----				
-						
ASI ROUTE OF ADMINISTRATION	604.48	-----NONE-----				
-						
ASI FAMILY HX CODES	604.5	-----NONE-----				
-						
ASI FOLLOW UP	604.55	-----NONE-----				
-						
ASI QUICK FORM	604.66	-----NONE-----				
-						
ASI NARRATIVE	604.68	-----NONE-----				
-						
ASI SUBSTANCE CODE	604.77	-----NONE-----				
-						
ASI PARAMETERS	604.8	-----NONE-----				
-						
SECLUSION/RESTRAINT	615.2.	@	Y	Y	Y	Y
S/R REASONS	615.5.	@	Y	Y	Y	Y
S/R CATEGORY	615.6.	@	Y	Y	Y	Y
S/R RELEASE CRITERIA	615.7.	@	Y	Y	Y	Y
S/R ALTERNATIVES	615.8.	@	Y	Y	Y	Y
S/R OBSERVATION CHECKLIST	615.9.	@	Y	Y	Y	Y
DSM	627.7	-----NONE-----				
-						
DIAGNOSTIC RESULTS-MENTAL HEALTH	627.8.	@	Y	Y	Y	Y
DSM-III-R MODIFIERS	627.9.	@	Y	@	@	@

Pointer Relations

Use the Map Pointer Relations [DI DDMAP] option to create a visual representation of the file pointer relationships.

Exported Options

The menu and options exported by the Mental Health package V. 5.01 are in the YS* and YT* namespaces. Individual options can be viewed by using the Kernel option XUINQUIRE (Inquire).

Mental Health Menu Distributions

The following is a display of the options in the Mental Health V. 5.01 package.

Mental Health [YSUSER] Menu

The Mental Health [YSUSER] menu is the Mental Health package primary menu. This menu contains two options.

After you select the Mental Health [YSUSER] menu, you will see a display similar to the one below. Assignment of privileges will determine what options are available for your use.

```
** Mental Health version 5.01 **
```

```
1 Clinical Record ...
6 Global Assessment of Functioning ...
```

Each of the options listed submenus that lead to other options and menus. These are described below.

Note: Functionality within some options is controlled by security keys. See the Security Key section for a complete description of the keys.

Transmission Options [YSCL HL7 MAIN]

For Clozapine HL7 Transmission Options, patient Clozapine pharmacy orders and Clozapine lab results are to be sent nightly to the National Clozapine Registry (NCR) via the scheduled Transmit Clozapine Rx HL7 Messages [YSCL HL7 CLOZ TRANSMISSION] option.

The Clozapine HL7 Transmission Options [YSCL HL7 MAIN] menu includes options that allow patient Clozapine HL7 pharmacy orders and Clozapine lab results to be manually sent or re-sent to the NCR database. Previously sent Clozapine HL7 messages may also be printed.

Options:

- Clozapine HL7 Messages Summary
- List of Clozapine Prescriptions
- Print HL7 Report by Date
- Queue Clozapine Rx HL7 Messages
- Retransmit Clozapine Rx HL7 Messages

Clinical Record [YSCLINRECORD]

The Clinical Record [YSCLINRECORD] menu includes options and menus that allow you to access and input patient data.

*** MENTAL HEALTH ***

CLINICAL RECORD

3 Diagnosis ...
13Seclusion/Restraint ...

Diagnosis [YSDIAG]

- 1 Enter Diagnosis
- 2 Print Diagnoses
- 3 Print DXLS History

Seclusion/Restraint [YSSR SEC/RES]

The Seclusion/Restraint [YSSR SEC/RES] menu includes options for information regarding seclusion/restraint. If there are patients in the Seclusion /Restraint files, you will see the following heading above the menu.

The following patient(s) are currently listed as being in Seclusion/Restraint:

DATE & TIMETOTAL
PATIENT SSNINITIATEDORDERED BYTIME
=====

YSPATIENT, ONExxxx*JAN 21, 2012@14:42YSPROVIDER, ONE2400:7
* Written order required.

- 1 Entry of Patient to Seclusion/Restraint
- 2 Release of Patient from Seclusion/Restraint
- 3 Fifteen-Minute Check
- 4 **Seclusion/Restraint Utilities..**

Seclusion/Restraint Report Utilities [YSSR REPORTS]

The Seclusion/Restraint Report Utilities [YSSR REPORTS] menu includes options to display Seclusion/Restraint information in various formats.

- 1 MONTHLY..Monthly Report (VA Form 10-2683)
- 2 PATIENT..S/R Mgmt Report by Patient Episode
- 3 DATE.....S/R Mgmt Report by Date
- 4 NURSING..S/R Mgmt Report by Nursing Shift
- 5 REVIEW...S/R Mgmt Report of Review Actions
- 6 WARD.....S/R Mgmt Ward Report

Global Assessment of Functioning

The Global Assessment of Functioning [YSGAF MAIN] menu is the top menu to enter, graph and print GAF scores. These scores are equivalent to the DSM IV Axis 5 diagnosis.

- 1 Enter GAF by Clinic Visit
- 2 Print GAF's by Clinic/Date
- 3 Single Patient GAF Entry
- 4 Historical GAF listing
- 5 Edit/mark errors on GAF

MHS Manager

The MHS Manager [YSMANAGER] menu is exported with the Mental Health package; it is typically assigned to a user's secondary menu. This menu provides managerial utilities such as the Psychological Test Utilities that should be assigned only to individuals who are responsible for maintaining the Mental Health software.

```
*** MENTAL HEALTH ***
MHS MANAGER FUNCTIONS
2       Mental Health System site parameters ...
3       MHA2 Psych test utilities ...
5 Seclusion/Restraint Management Utilities ...
7 MHA3 Utilities ...
```

Mental Health System Site Parameters

The Mental Health System site parameters [YS SITE PARAMETERS] menu includes options for use by the Mental Health Application Coordinator. Through it, site-specific files are maintained by the coordinator.

```
REASONS.....Edit S/R Reasons File
CATEGORY.....Edit S/R Category File
RELEASE.....Edit S/R Release Criteria File
ALTERNATIVES.Edit S/R Alternatives File
CHECKLIST....Edit S/R Checklist File
INSTRUMENT...Edit Instrument Restart Day Limit
```

MHA2 Psych Test Utilities

The MHA2 Psych test utilities [YSUTIL] menu includes options to access the psych testing utilities options. This is a legacy option and does not affect MHA3.

*** LEGACY Mental Health ***

MHA2 Utilities

- 2 Audit test/interview data
- 3 Check Psych Data Base
- 6 Delete Patient Data
- 7 Print test/interview items
- 8 Delete incomplete tests/interviews

Seclusion/Restraint Management Utilities

Seclusion/Restraint Management Utilities [YSSR MGT UTILITY] menu contains options required for the management of the Seclusion/Restraint features.

MHS Manager Functions

- 1 Review of Seclusion/Restraint Action
- 2 Written Order Edit
- 3 Edit Seclusion/Restraint Entry
- 4 Delete Seclusion/Restraint Entry

MHA3 Utilities

The MHA3 Utilities [YTQ MHA3 MENU] menu includes options for MHA3 settings and utilities.

*** Mental Health ***

MHA3 Utilities

- 1 Print Test Form
- 2 Detailed Definition
- 3 Delete Patient Data
- 4 Stop/Re-Start Progress Notes for an Instrument
- 5 Exempt Test
- 6 Test Usage
- 7 XML Output
- 8 Instrument Exchange

Menu Diagrams

The options comprising the Mental Health package are arranged on menus according to functionality.

The Mental Health [YSUSER] option is used by most Mental Health package users. The MHS Manager [YSMANAGER] menu is for supervisors. Use the Menu Diagrams [XQDIAGMENU] option to create a visual representation of the menu structure.

Mental Health Protocols (File #101)

YS GAFYS GAF A08 SERVERYS GAF A08 CLIENTYS GAF

A08 CLENT

YS MHA A08 CLIENTYS MHA A08 CLIENT

YS MHA A08 EVENT

Used by List Manager for Exchange Utility --

YTXCHG BROWSE SPEC Browse Specification

YTXCHG CREATE ENTRY Create New Entry

YTXCHG DELETE ENTRY Delete Entry

YTXCHG DRYRUN Trial Install <Dry Run>

YTXCHG INSTALL Install Exchange Entry

YTXCHG LOAD HOST Load Host File

YTXCHG LOAD URL Load from URL

YTXCHG MAIN MENU Instrument Exchange Menu

YTXCHG REBUILD ENTRY Rebuild Entry

YTXCHG SAVE HOST Create Host File

Remote Procedure Calls

The Mental Health V. 5.01 Remote Procedure Calls (RPC'S) are in the YS* and YT* namespaces. Use the FileMan Print functionality to find and display the entries in the REMOTE PROCEDURE file (#8994).

Database Integration Agreements

To view the details of a Database Integration Agreements (DBIA) use the VA Forum option “Inquire to an Integration Control Registration” to display the DBIAS where the Mental Health package is the custodial or the subscribing package.

External Relations

The VistA Mental Health Assistant (MHA) is the graphical user interface (GUI) for the VistA Mental Health package. MHA was developed to create an effective and efficient tool for all clinicians and their patients to use for the administration and scoring of assessment instruments and interviews. Additionally, results are displayed in report and graphical formats. MHA supports mental health assessments (e.g., psychological testing, structured interviews, questionnaires, etc.) that are not available elsewhere in the Computerized Patient Record System (CPRS)/Veterans Information System and Technology Architecture (VistA).

To better meet the needs of clinicians and patients in different treatment programs, particularly in nontraditional settings, MHA can now be run in a standalone mode to administer instruments offline for later uploading to Vista. For detailed instructions and requirements installing and implementing the MHA Graphical User Interface (GUI) software application, see the MHA3 Installation Guide.

Non-M Software Distributed with Mental Health Assistant 3 (MHA3)

Here are typical examples of the storage locations for the MHA3 files (executable, DLL and other supporting files) installed on a workstation:

C:\Program Files\Vista\YS\MHA3

YS_MHA.exe (From Patch YS*5.01*123)
YS_MHA.HLP (From Patch YS*5.01*85)
YS_MHA.JCF (From Patch YS*5.01*85)
Borlndmm.dll (From Patch
YS*5.01*123) Uninst000.dat
uninst000.exe

C:\Program Files\Vista\Common Files

YS_MHA_A.dll
YS_MHA_AUX.dll

MHA3 Patch YS*5.01*150 exports the following folders and files:

FILE NAMES	CONTENTS	RETRIEVAL FORMATS
YS_501_150_IG.pdf	Mental Health Assistant Version 3 (MHA3) Installation Guide Patch YS*5.01*150	BINARY
YS_MHA3_UM.pdf	Mental Health Assistant Version 3 (MHA3) User Manual Patch YS*5.01*150	BINARY
YS_MHA3_TM.pdf	Mental Health Assistant Version 3 (MHA3) Technical Manual Patch YS*5.01*150	BINARY

Mental Health Remote Procedure Context Option

The OPTION file (#19) entry “**YS BROKER1 version 1.0.3.85~1.0.5.11~1.0.3.86**” [**YS BROKER1**] provides the context necessary to interface the *VistA* Mental Health Assistant Version 3 application to the *VistA* database via Remote Procedure Calls (RPC).

MHA3 Server Options

The server options being used in the Mental Health package V. 5.01:

Clozapine Data Server [YSCLSERVER]

DESCRIPTION: This is a server to allow the National Clozapine Coordinating Center (NCCC) in Dallas to authorize Clozapine registration numbers for use at individual sites.

ROUTINE: YSCLSERV SERVER ACTION: RUN IMMEDIATELY

Mental Health Test Usage Server [YS TEST USAGE]

DESCRIPTION: Used by the National Mental Health Strategic Healthcare Group to determine the annual psychological test usage by site. This option reports the number of each test by station within any given time period.

The MAILMAN message must be in FILEMAN date format 3031001^3040930

ROUTINE: YSTUSES SERVER ACTION: RUN IMMEDIATELY

Server test usage MHA3 stats [YTQTUSE]

DESCRIPTION: *** MHA3 *** Used by the National Mental Health Strategic Healthcare Group to determine the annual psychological test usage by site. This option reports the number of each test by station within any given time period.

The MAILMAN message must be in FILEMAN date format 3031001^3040930

ROUTINE: YTQTUSES SERVER ACTION: RUN IMMEDIATELY

Remote Systems

All Global Assessment of Functioning (GAF) scores entered through the Mental Health GAF form are dynamically sent to the National Patient Care Database (NPCD) at the Austin Information Technology Center (AITC).

Mental Health Entries in the HL LOGICAL LINK file (#870):

YS GAF-SND

LLP TYPE: MAILMAN

DEVICE TYPE: N

TIME STOPPED: MAR 16, 2011@15:49:59

SHUTDOWN LLP? YES

MESSAGE NUMBER: 1

STATUS: PENDING

NODE: YSCL-NCCC

LLP TYPE: TCP

QUEUE SIZE: 10

DESCRIPTION: This is the logical link for the National Clozapine Registry NCR). The NCR is maintained by the National Clozapine Coordinating Center NCCC).

Mental Health entries in the HL7 APPLICATION PARAMETER file (#771):

NAME: YS GAF

ACTIVE/INACTIVE: ACTIVE

MAIL GROUP: YS GAF TO NPCD

COUNTRY CODE: USA

NAME: YS MHA

ACTIVE/INACTIVE: ACTIVE

MAIL GROUP: YS MHA-MHNDB

COUNTRY CODE: USA

HL7 ENCODING CHARACTERS: ~^\\&

HL7 FIELD SEPARATOR: |

HL7 MESSAGE: ADT

PROCESSING ROUTINE: ACKMHA^YTQHL7

HL7 SEGMENT: PID

FIELDS USED IN THIS SEGMENT: 1,2

HL7 SEGMENT: MSH

FIELDS USED IN THIS SEGMENT: 1

HL7 SEGMENT: MSA

FIELDS USED IN THIS SEGMENT: 1,3,7,8,9,10

Mental Health entries in the HLO APPLICATION REGISTRY file (#779.2):

APPLICATION NAME: YSCL-REG-REC

HL7 MESSAGE TYPE: ADT

HL7 EVENT: A28

ACTION TAG: ACCEPTAR

ACTION ROUTINE: YSCLHLAD

HL7 VERSION: 2.5.1

MINIMUM RETENTION TIME: 10

HL7 MESSAGE TYPE: RDE

HL7 EVENT: O11

ACTION TAG: ACCEPTAR

ACTION ROUTINE: YSCLHLAD

HL7 VERSION: 2.5.1

MINIMUM RETENTION TIME: 10

Package File Link: MENTAL HEALTH

APPLICATION NAME: YSCL-REG-SEND
 HL7 MESSAGE TYPE: ADT
 HL7 EVENT: A28
 ACTION TAG: ACCEPTAR
 ACTION ROUTINE: YSCLHLAD
 HL7 VERSION: 2.5.1
 MINIMUM RETENTION TIME: 10
 HL7 MESSAGE TYPE: RDE
 HL7 EVENT: O11
 ACTION TAG: ACCEPTAR
 ACTION ROUTINE: YSCLHLAD
 HL7 VERSION: 2.5.1
 MINIMUM RETENTION TIME: 10
 Package File Link: MENTAL HEALTH

Mental Health File Relationships

Files accessed by the Mental Health package V. 5.01:

File #	File Name	Package	Agreement Status
.5	FUNCTION file	KERNEL	Supported reference
2	PATIENT file	REGISTRATION	Read Only, Supported reference & DBIA #87
3.1	TITLE file	KERNEL	Pointed to by File #200, Read only Reference
4	INSTITUTION file	KERNEL	Supported reference, Read only
5	STATE file	KERNEL	Supported reference, Read only
8	ELIGIBILITY CODE	REGISTRATION	DBIA #87
13	RELIGION	REGISTRATION	DBIA #277
19.1	SECURITY KEY	MENU DRIVER	Supported reference
22	POW PERIOD	REGISTRATION	DBIA #277
23	BRANCH OF SERVICE	REGISTRATION	DBIA #277
24	NON-VETERAN CLASS	REGISTRATION	DBIA #277

File #	File Name	Package	Agreement Status
25	TYPE OF DISCHARGE	REGISTRATION	DBIA #277
31	DISABILITY CONDITION	REGISTRATION	DBIA #277
35	OTHER FEDERAL AGENCY	REGISTRATION	DBIA #277
36	INSURANCE COMPANY	REGISTRATION	DBIA #277
37	DEPOSITION	REGISTRATION	DBIA #277
41.1	SCHEDULED ADMISSION	REGISTRATION	DBIA#87
41.9	CENSUS file	SCHEDULING	DBIA #47
42	WARD LOCATION file	SCHEDULING	Support reference, Read only
42.4	SPECIALITY file	REGISTRATION	DBIA #277
44	HOSPITAL LOCATION	SCHEDULING	Support reference, Read only
45	PTF (Patient Treatment file)	DRG GROUPER REGISTRATION	DBIA #27 & #87 Support reference
45.7	TREATING SPECIALTY file	REGISTRATION	DBIA #277
50	DRUG file	OUTPATIENT PHARMACY	DBIA #221
52	PRESCRIPTION file	OUTPATIENT PHARMACY	DBIA #276
52.5	RX SUSPENSE file	OUTPATIENT PHARMACY	DBIA #276
55	PHARMACY PATIENT file	OUTPATIENT PHARMACY	DBIA #276 DBIA #4480
80	ICD DIAGNOSIS file	DRG	Support reference, Read only

File #	File Name	Package	Agreement Status
80.1	ICD OPERATION / PROCEDURE	DRG	Support reference, Read only
200	NEW PERSON file	KERNEL	Support reference
211.6	NURSTOUR of DUTY file	NURSING	DBIA #278
405	PATIENT MOVEMENT	PIMS	Support reference
801.41	REMINDER DIALOG	Clinical Reminders	Supported reference
801.43	REMINDER FINDING ITEM PARAMETER	Clinical Reminders	Supported reference

Mental Health Mail Group File (#3.8) Entries

YS ASI PERFORMANCE MEASURES - Members of this mail group will be used to receive the ASI Case Finder Report.

YS GAF TO NPCD - This mail group is being used by Mental Health to transmit data to the National Patient Care Database via HL7.

REMOTE MEMBER: XXX@Q-NPT.MED.VA.GOV

YS GAF TRANSMISSION ACK - This mail group will receive a message when a GAF score is transmitted to the National Patient Care Database or an error in the transmission has occurred.

YS MHA-MHNDB - This group receives error messages from the HL7 system when problems arise, sending messages to the Mental Health National database.

YS PSYCHTEST - Used to notify clinicians when tests and interviews are administered to patients at the requests of someone other than the person administering the test.

YSCLHL7 LOGS - This Mail Group is used for the receipt of mail messages that are created to log the transmission of HL7 messages for Clozapine patients.

Archiving

Data archiving capabilities are not currently available for the Mental Health package.

Package Security

Security in this package is controlled almost exclusively by the menu option that is assigned to a person.

Deletion of entries in many Mental Health files is prohibited under ordinary conditions.

Security Keys (File #19.1)

Allocate the following security keys to appropriate site personnel:

Name Description

YSL AUTHORIZED - The presence of this key designates an authorized Clozapine Provider.

YSD - Allows verification of ICD diagnoses. This is a clinical privilege. The chief of psychiatry will determine who may have this key.

YSP - Provides access to psychological test options. The Chief of Psychology Service will determine who may have this key.

YSQ - Allows verification of DSM-III diagnoses. The Chiefs of Clinical Services will determine who may have this key.

YSZ - Allows Mental Health technicians/aides to queue tests/interviews after completion.

Glossary

This glossary contains definition of terms and abbreviations that may not be familiar to all users. Basic terms, acronyms, and phrases that are used throughout the Vista environment are included.

Term	Definition
@	The at symbol (@) is used to delete an entry in a FileMan file.
ADT	ADMISSIONS DISCHARGES, and TRANSFERS (part of the PIMS package).
ABBREVIATED RESPONSE	Data entry by typing only the first few characters for the desired response. This feature will not work unless the information is already stored in the computer.
AXIS 4	A numeric representation of the severity of psychological stressors.
AXIS 5	A numeric representation of the global assessment of functioning. AXIS 5 is a clinician's overall judgment of a patient's social/psychological and occupational functioning on a continuum of mental health-illness.
CRISIS NOTES	A note containing patient information that displays automatically wherever the patient's name is entered into the system.
CROSS-REFERENCE	An index of file entries. For a description see the VA File Manager documentation.
DEFAULT	A response the considered the most probable answer to the prompt being displayed. A default is identified by two slash marks (//) immediately following the computer-displayed response. You may accept the default answer by pressing the ENTER (or RETURN) key. To change the default answer, type in your response.
DELETE	The key on your keyboard that enables deletion of individual characters. Place the CURSOR immediately after the last character of the string of characters you wish to delete and press the DELETE or RUBOUT key.
DRG	DIAGNOSIS RELATED GROUP is a prospective payment system, based on a complex set of criteria, which established a reimbursement fee determined by the primary diagnosis. Each diagnosis is assigned a DRG number.
DUZ	A user identification number assigned by Vista. It is the IEN of the NEW PERSON file (#200).

Term	Definition
DX	Diagnosis.
DXLS	Diagnosis Length of Stay. The diagnosis most responsible for the patient's length of stay during the current admission.
ENTER	Press the RETURN or ENTER key to instruct the system to store the information you just entered.
FIELD	A FIELD is similar to questions on a questionnaire. It is a statement that requests information. Your response is the value entered into that field. For example, the prompt, "DOB" is a field in which you enter your birth date.
GLOBAL VARIABLE	Usually referred to as a global. A disc-resident structure (e.g. ^YTT(601), used to store data in the VistA database.
HELP	Assistance displayed on your terminal screen. The HELP function displays menus and describes options. To obtain HELP, enter 1-4 question marks in response to a prompt. The level of help you receive increases with the number of question marks you enter.
IEN	The INTERNAL ENTRY NUMBER of a record in a File Manager file.
KERNEL	The VA kernel is the software suite that integrates the operating system with other software applications such as Mental Health, Laboratory, and Pharmacy.
LOS	Length of stay.
LEVEL	Patients are assigned a LEVEL, a scaled position. The definition of each level is up to the local station. For example, a level 1 patient may require staff supervision when involved in off-ward activities, whereas a level 2 patient may leave the ward when accompanied by a level 3 patient.
MASTER TREATMENT PLAN	The comprehensive Treatment Plan for the TREATMENT of an individual patient during each hospitalization. The plan is reviewed at regular intervals and adjusted to accommodate the needs of the patient.
MH	Mental Health
MENU	A list of options that may include submenus or options.
NOK	Next of kin.
ONSET	The beginning of a symptom or disease.

Term	Definition
OPTION NAME	The formal name of an option. By convention, it is displayed in brackets and is the .01 field of the OPTION file (#19).
PATIENT MESSAGE	Information concerning a patient that is not part of the permanent clinical record. If a message has been entered for a patient, a notation indicating that a PATIENT MESSAGE exists is displayed every time the patient's name is entered into the system. A Patient Message may be transferred to a Progress Note where, it becomes part of the permanent clinical record.
PRIMARY	The condition that is chiefly responsible for the DIAGNOSIS the patient's treatment.
PRIORITY CATEGORY	Codes used to denote the order in which a patient's acceptance into a program or clinic is determined.
PROGRESS NOTES	A note containing information concerning a patient. There are numerous kinds of progress notes such as admission, discharge, pre-operative, social work, nursing, etc. A progress note is included in the patient's permanent clinical record.
PSYCHOSIS	Gross impairment in reality testing.
PROMPT	The system interacts with the user by issuing questions and statements called PROMPTS, and the user enters a response.
SIGNATURE BLOCK	Used with electronic signatures. A SIGNATURE BLOCK indicates the author's complete name and title.
SSN	Social Security Number.
TEAM	An organizational sub-unit of a ward which is often composed of residents, medical students, psychologists, social workers, nurses, etc.
VA FileManager	The Database Management System (DBMS) used by Vista. It is often referred to as FileMan.
VERIFY CODE	An additional security precaution used in conjunction with ACCESS CODE. Like the access code, it is also 6-11 digits in length and if entered incorrectly, the user is not allowed access to the computer. Both codes are invisible on the terminal screen to provide user-protection.

Abbreviations, Acronyms, and Descriptions

Abbreviation or Acronym	Description
API	Application Programmer Interface
AITC	Austin Information Technology Center
ARTS	Adverse Reaction Tracking
CPRS	Computerized Patient Record System
DBMS	Database Management System
DFN	Internal entry number of a record in the PATIENT file (#2). DFN is the name of a local variable.
DVA	Department of Veterans Affairs
FDA	Food and Drug Administration
GUI	Graphical User Interface
HL7	Health Level 7 (a data-transmission protocol).
HSD&D	Health System Design and Development
ICN	Integration Control Number, or national VA patient record number
IEN	Internal Entry Number (of a record in a FileMan file).
IMG	Information Management Group
IRM	Information Resource Management
KIDS	Kernel Installation and Distribution System
M	Alternate name for MUMPS
MHA	Mental Health Assistant
MUMPS	Massachusetts General Hospital Utility Multiprogramming System
OINT	Office of Information National Training and Education Office
PCE	Patient Care Encounter
PIMS	Patient Information Management Systems
PMO	Project Management Office
PTF	Patient Treatment File

Abbreviation or Acronym	Description
SI	System Implementation
SPP	Suicide Prevention Project
VA	Department of Veteran Affairs
VERA	Veterans Equitable Resource Allocation
VHA	Veterans Health Administration

Appendix A

The Mental Health package contains a number of software elements that were deprecated (marked as obsolescent) in 2004 or earlier. These software components are deleted or disabled in Mental Health Patch 60 (YS*5.01*60). The following is a description of those items which will become obsolete with the release of Patch 60.

The obsolete software may contain scoring algorithms that are no longer correct, outdated data structures, and code that doesn't meet current VA software standards and conventions.

Files Deleted by Mental Health Patch 60

File Name	File #	Global Location
MEDICAL RECORD	90	^MR (
PT. TEXT	99	^PTX (
CRISIS NOTE DISPLAY	600.7	^YSG ("CNT",
MH TEXT	605	^YTX (
MH CLINICAL FILE	615	^YS(615,
MH WAIT LIST	617	^YSG ("WAIT",
MENTAL HEALTH CENSUS	618	^YSG ("CEN",
MENTAL HEALTH TEAM	618.2	^YSG ("SUB",
MENTAL HEALTH INPT	618.4	^YSG ("INP",
PROBLEM	620	^DIC(620,
JOB BANK	624	^YSG ("JOB",
INDICATOR	625	^DIC(625,
DSM3	627	^DIC(627,
DSM-III-R	627.5	^DIC(627.5,
DSM CONVERSION	627.99	^YSD(627.99,
YSEXPERT	628	^YS(628,

Options Deleted by Mental Health Patch 60

1. YS SITE-FILE 16 - SIGNATURE....Edit Signature Block Title
2. YS SITE-FILE 602 TEST LIM - INSTRUMENT...Edit Instrument Restart Day Limit
3. YS SITE-FILE 602 WWU - WWU.....Edit Weighted Work Unit (WWU)
4. YSADMTEST - Psychological tests/interviews (administer)
5. YSAPROB - Add a new problem
6. YSAS CASE FINDER - ASI Case Finder
7. YSAS FOLLOWUP FINDER - ASI Followup Finder
8. YSCENCAD - Cancel a MH Census Discharge
9. YSCENCL - Custom List
10. YSCENCRISIS - Crisis notes and Messages

11. YSCENDAYHX - Previous Admissions by Date
12. YSCENDCDOC - Discharge Comments Entry
13. YSCENDIA - Active Diagnoses
14. YSCENED - Enter/Edit Current Inpatient Data
15. YSCENEDM - Enter/Edit MH Inpatient Data
16. YSCENFS - Census
17. YSCENGED - Group Data Entry/Edit
18. YSCENIL - Individual Patient List
19. YSCENLOS - Current Inpatient Days
20. YSCENMAIN - Inpatient Features
21. YSCENMEDS - Outpatient Medications
22. YSCENMGR - Inpatient Features management functions
23. YSCENNAM - Name Search
24. YSCENNEW - Recent Admissions
25. YSCENPAHX - Individual Data Look Up
26. YSCENPASS - Pass/Last Transfer List
27. YSCENPL - Patient Lists
28. YSCENPP - Patient Profile Data
29. YSCENREM - Graph of Patients Remaining
30. YSCENROT - Rotation of Teams
31. YSCENSL - Short Patient List
32. YSCENSUBUP - Team Definition
33. YSCENTAH - Team Admissions Record
34. YSCENTCEN - Team Census
35. YSCENTESTING - Psychological Tests and Interviews
36. YSCENTMHX - Ward/Team History - LOS, DRG and DXLS
37. YSCENTPTE - Treatment Plan Tracking data entry
38. YSCENTPTP - Treatment Plan Tracking Report
39. YSCENUNITUP - Ward Definition
40. YSCENUNT - Group Data Lookup
41. YSCENWDM - Statistics
42. YSCENWL - Work List
43. YSCLERK - Clerk-entered tests
44. YSCOMMENT - Append comments to tests and interviews
45. YSCRISNOT - Crisis note
46. YSDECTREES-R - Decision Tree Shell
47. YSDIRTEST - Staff entry of tests/interviews
48. YSEPROB - Edit a problem
49. YSEXTESTS - Exempt psychological tests
50. YSFPROB - Formulate new problem list
51. YSGAF CASE FINDER - GAF Case Finder
52. YSHX1 - History - present illness
53. YSHXPAST - Past medical history
54. YSHXPASTR - Past medical history (results of pt. report)
55. YSINST RESTART LIMIT - Edit Instrument Restart Limit
56. YSIPROB - Inactivate an active problem
57. YSJQBINQ - Inquire to job bank
58. YSJQBKILL - Purge job bank
59. YSJQBLIST - Search job bank
60. YSJQBUPDATE - Update job bank
61. YSMANAGEMENT - General Management
62. YSMLST - List Tests & Interviews
63. YSMOVP - Move crisis notes and messages
64. YSPATMSG - Patient message
65. YSPATPROF - Profile of patient
66. YSPERSHX - Psychosocial history
67. YSPERSHXR - Psychosocial history (results of pt. report)

68. YSPHYEXAM - Physical exam
 69. YSPLDX - DSM Diagnosis (Problem list)
 70. YSPLPDX - ICD9 Diagnosis (Problem list)
 71. YSPPROB - Print the problem list
 72. YSPRINT - Tests and interviews (results)
 73. YSPROBLIST - Problem list
 74. YSPTINSTRU - Patient-administered Instruments
 75. YSRAPROB - Reactivate an inactive problem
 76. YSREVSYS - Review of systems
 77. YSREVSYSR - Review of systems (results of pt. report)
 78. YSRFPROB - Reformulate a problem
 79. YSRSPROB - Resolve a problem
 80. YTESTBAT - Test battery utility
 81. YSVOCATIONAL - Vocational Rehabilitation
 82. YSWAITCR - Create/edit wait lists
 83. YSWAITE - Add patient to wait list
 84. YSWAITEDI - Edit patient list data
 85. YSWAITLST - Wait lists
 86. YSWAITP - Print wait list
 87. YSWAITREM - Remove patient from list
 88. YSWAITSHUF - Move patient on list
 89. YT SF36 HEALTH SURVEY - SF-36 Health Survey

Routines Deleted by Mental Health Patch 60

YS03ENV	YS04ENV	YS04POST	YS05ENV	YS05POST	YS06ENV	YS23ENV	YS23POST
YS24ENV	YS24POST	YS26ENV	YS29ENV	YS30ENV	YS30PRE	YS32ENV	YS33ENV
YS37ENV	YS38ENV	YS38POST	YS39POST	YS42ENV	YS43POST	YS501100	YS501P82
YS501P83	YS85POST	YS85PRE	YS96POST	YS97POST	YSANTEG	YSAPOST	YSASCF
YSCEN	YSCEN1	YSCEN10	YSCEN13	YSCEN14	YSCEN2	YSCEN21	YSCEN22
YSCEN23	YSCEN24	YSCEN26	YSCEN3	YSCEN31	YSCEN32	YSCEN33	YSCEN34
YSCEN35	YSCEN36	YSCEN37	YSCEN39	YSCEN4	YSCEN41	YSCEN5	YSCEN51
YSCEN52	YSCEN53	YSCEN54	YSCEN55	YSCEN56	YSCEN6	YSCEN61	YSCEN7
YSCEN8	YSCEN81	YSCPWF	YSCPAG	YSCPAI	YSCPAK	YSCPAL	YSCPAM
YSCPAQ	YSCUP	YSCUPO00	YSCUP001	YSCUP002	YSCUP003	YSCUP004	YSD40030
YSD40031	YSD40032	YSD40040	YSD40041	YSD40042	YSD40050	YSD40051	YSD40052
YSD40060	YSD40061	YSD40062	YSD4C000	YSD4CK00	YSD4DSM	YSD4E010	YSD4E020
YSD4POS0	YSD4POST	YSD4PRE	YSD4PRE0	YSD4UT01	YSDX0001	YSDX0002	YSDXR000
YSDXR1	YSEMSG	YSESA	YSESD	YSESE	YSESED	YSESH	YSESL
YSESLOG	YSESM	YSESN	YSESP	YSESR	YSESUT	YHELP	YSHX1
YSHX1R	YSJOB	YSJOK	YSKFASI1	YSKFASI2	YSKFASIF	YSKFASIM	YSMV
YSMV1	YSNTEG	YSNTEGO	YSONIT	YSONIT1	YSONIT2	YSONIT3	YSPDR1
YSPDXR	YSPHY	YSPHY1	YSPHYR	YSPP	YSPP1	YSPP1A	YSPP2
YSPP3	YSPP4	YSPP5	YSPP6	YSPP7	YSPP8	YSPP9	YSPPJ
YSPRBR1	YSPRBR2	YSPROB	YSPROB1	YSPROB2	YSPROB3	YSPROB4	YSPROB5
YSPROBR	YSPROBR1	YSPROSE	YSPTX	YSPTX1	YSPTXR	YSWX	YSWX1
YSWZ	YSXRAA	YSXRAA1	YSXRAA2	YSXRAA3	YSXRAA4	YSXRAF	YSXRAF1
YSXRAF2	YSXRAF3	YSXRAF4	YSXRAF5	YSXRAF6	YSXRAG	YSXRAG1	YSXRAG2
YSXRAJ	YSXRAJ1	YSXRAJ2	YSXRAJ3	YSXRAJ4	YSXRAK1	YSXRAK10	YSXRAK11
YSXRAK12	YSXRAK2	YSXRAK3	YSXRAK4	YSXRAK5	YSXRAK6	YSXRAK7	YSXRAK8
YSXRAK9	YSXRAQ	YSXRAQ1	YSXRAQ2	YSXRAQ3	YSXRAQ4	YSXRAR	YSXRAR1
YSXRAR2	YSXRAS	YSXRAS1	YSXRAS2	YSXRAT	YSXRAT1	YSXRAT2	YSXRAT3
YSXRAT4	YSXRAT5	YSXRAT6	YSXRAU	YSXRAU1	YSXRAU2	YSXRAV	YSXRAV1
YSXRAV2	YSXRAW1	YSXRAW2	YSXRAZ1	YSXRAZ2	YSXRAZ3	YSXRAZ4	YSXRAZ5
YSXRAZ6	YSXRBA	YSXRBA1	YSXRBA2	YSXRBA3	YSXRBA4	YSXRBA5	YSXRBA6
YTEX	YTQQI001	YTQQI002	YTQQI003	YTQQI004	YTQQI005	YTQQI006	YTQQI007
YTQQI008	YTQQI009	YTQQI00A	YTQQI00B	YTQQI00C	YTQQI00D	YTQQI00E	YTQQI00F
YTQQI00G	YTQQI00H	YTQQI00I	YTQQI00J	YTQQI00K	YTBB		

These routines are deleted by KIDS during the patch installation.

Appendix B

NCCC HL7 Message Specification

This describes the data being moved through the HL7 interface.

Conventions

The following are the conventions for HL7 messages.

HL7 Messages

HL7 messages shall follow the standard HL7 version 2.5.1 format documented in An Application Protocol for Electronic Data Exchange in Healthcare Environments.

Date/Time of Message Format

The format for MSH-7, Date/Time of Message, is YYYYMMDD[HHMM[SS]] [+ZZZZ] where:

- YYYY is the 4-digit year, e.g., “2002”
- MM is the month number, ranging from “01” to “12”
- DD is the day number within the month, ranging from “01” to “31”
- HH is the hour from “00” to “23”.? MM is the minute from “00” to “59”
- SS is the second from “00” to “59”
- +ZZZZ represents the time zone as a leading signed value time offset from Greenwich Mean Time of the form HHMM using the same convention for HH and MM as given above. For example, Eastern Standard Time (EST) is given as “-0500”

Message and Segment Boundaries

Message starts with American Standard Code for Information Interchange (ASCII) character 11₁₀, vertical tab (VT).

Segment terminates with ASCII character 13₁₀, carriage return (CR).

Message terminates with ASCII character 28₁₀, file separator (FS), followed by ASCII character 13₁₀, carriage return (CR).

The prototypical form is:

- <VT>segment<CR>segment<CR><FS><CR>

<VT> as the prefix and <FS><CR> as the suffix are part of the HL7 Minimal Lower Layer Protocol, (MLLP).

Segment Tables

In the Segment tables that follow, missing sequence numbers indicate that the respective fields are empty in the segment. An empty field has no characters between its boundaries (start of the segment, field separators, and the end of the segment).

The Seq column contains the sequence number of the element.

The Name column gives the HL7 name for the element or sub-element. In those cases where HL7 does not supply a name, this document defines that name for use solely within the VistA and NCR interface.

Following the element name, data type information drawn from the HL7 2.5.1 standard *may* appear in the DT column.

The Len column contains the length of the element.

The Opt column value “R” indicates that the element requires a value and so the sender must place a non-empty value into this HL7 element. The value “O” marks those elements in which a value is optional. The value of optional elements may be empty. “RE” indicates conditional use and “NS” means not supported.

The Rep column contains “TRUE” if the element is repeatable and “FALSE” (or blank) if it isn’t.

The Fixed Value column contains “TRUE” if the value of this element will be fixed for every message of this type. (In this case the example value in the Ex Val column is the value.)

The Code Tbl column contains the relevant code table number.

The Example Value column contains an example value for this element.

The Implementation Notes column contains any relevant implementation notes.

Message Notations

A message notation presents the segment IDs in the correct order. Curly brackets ({}) surround one or more segments that are to be repeated one or more times. Square brackets ([]) surround optional segments. Using both kinds of brackets declares that the enclosed segments may appear zero or more times.

Network Connections

VistA connects to the designated TCP port and IP domain, listed in section 5.1.1, using TCP/IP to send HL7 messages to the NCR InterSystems HealthShare Server on the Cloud Server.

The NCR HealthShare Server returns negative commit acknowledgments for incomplete HL7 messages that it receives to the TCP port on the destination VistA system using TCP/IP.

NCR Patient Registration Message: ADT^A28

The ADT^A28 Registration message is triggered when the YSCL at the individual VAMC VistA system extracts Clozaril Rollup data to generate HL7 messages.

The ADT^A28 Message Type is constructed of the following HL7 segments in the order listed:

- MSH - Message Header
- EVN - Event Type
- PID - Patient Identification
- ROL - Role
- PV1 - Patient Visit
- OBX(1) – Observation/Result - Patient Clozapine Status
- OBX(2) – Observation/Result - WBC

- OBX(3) – Observation/Result - ANC
- OBX(4) – Observation/Result - Site DEA
- OBX(5) – Observation/Result – Site

The notation is: MSH, EVN, PID, ROL, PV1, OBX, OBX, OBX, OBX

NCR Patient Registration MSH Segment

Table: MSH Segment

MSH Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Field Separator	1	ST	1	R	False	True			
Encoding Characters	2	ST	4	R	False	True		~\&	
Sending Application	3	HD	227	R	False		0361		
Namespace ID	1	IS	20	R		True	0300	YSCL CLOZ REGISTRY	This is always “YSCL CLOZ REGISTRY”
Universal ID	2	ST	0	NS					
Universal ID Type	3	ID	0	NS					
Sending Facility	4	HD	227	R	False		0362		
Namespace ID	1	IS	20	R			0300	501 or 501GF	This is the site number of the sending site, e.g., 501 (parent facility) or 501GF (satellite facility)
Universal ID	2	ST	50	R				HL7.SMA.FO - ALBANY.ME D.VA.GOV:5 001	URL and port number of the sending facility HL7 server
Universal ID Type	3	ID	20	R			0301	DNS	
Receiving Application	5	HD	227	R	False		0361		
Namespace ID	1	IS	20	R		True	0300	NCR CLOZ REGISTRY	This is always “NCR CLOZ REGISTRY”
Universal ID	2	ST	0	NS					
Universal ID Type	3	ID	0	NS					
Receiving Facility	6	HD	227	R	False		0362		
Namespace ID	1	IS	20	R		True	0300	3000	Receiving facility identifier (TBD for HealthShare server - alphanumeric)

MSH Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Universal ID	2	ST	50	R				devazrclzpv0 1.dev.dss.loc al:5001	URL and port number of the receiving facility HL7 server
Universal ID Type	3	ID	20	R			0301	DNS	
Date/Time of Message	7	TS	26	R	False				
Time	1	DTM	24	R				2017032813 4602-0500	Date/time the message was created in format YYYYMMDD[HHM M[SS]][+-ZZZZ]00
Degree of Precision	2	ID	0	NS					
Security	8	ST	40	NS					
Message Type	9	MSG	15	R	False				
Message Code	1	ID	3	R		True	0076	ADT	This is always “ADT”
Trigger Event	2	ID	3	R		True	0003	A28	This is always “A28”
Message Structure	3	ID	7	R		True	0354	ADT_A05	This is always “ADT_A05”
Message Control ID	10	ST	20	R	False			12345	Assigned by the HL7 package on Vista by the
Processing ID	11	PT	3	R	False				
Processing ID	1	ID	1	R			0103	P	“P” -Production “T” - Test
Processing Mode	2	ID	0	NS					
Version ID	12	VID	973	R	False				
Version ID	1	ID	5	R		True	0104	2.5.1	This is always “2.5.1”
Internationalization Code	2	CE	0	NS					
International Version ID	3	CE	0	NS					
Sequence Number	13	NM	15	NS					
Continuation Pointer	14	ST	180	NS					
Accept Acknowledgment Type	15	ID	2	R	False	True	0155	AL	This is always “AL”

MSH Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Application Acknowledgment Type	16	ID	2	R	False	True	0155	AL	This is always "AL"
Country Code	17	ID	3	NS					
Character Set	18	ID	16	NS					
Principal Language of Message	19	CE	483	NS					
Alternate Character Set Handling Scheme	20	ID	20	NS					
Message Profile Identifier	21	EI	427	NS					

NCR Patient Registration EVN Segment

Table: EVN Segment

EVN Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Event Type Code	1	ID	3	NS					
Recorded Date/Time	2	TS	26	R	False				
Time	1	DTM	24	R				201703281 34602- 0500	YYYYMMDD[HHMM [SS]] +-ZZZZ]
Degree of Precision	2	ID	0	NS					
Date/Time Planned Event	3	TS	26	NS					
Event Reason Code	4	IS	3	NS					
Operator ID	5	XCN	2930	NS					
Event Occurred	6	TS	26	NS					
Event Facility	7	HD	241	NS					

NCR Patient Registration PID Segment

Table: PID Segment

PID Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Set ID - PID	1	SI	4	NS					
Patient ID	2	CX	1913	NS					
Patient Identifier List	3	CX	1912	R	True				
ID Number	1	ST	15	R				VA12345 or 111223344 or 1000720100 V271387 or 100234567	The 1st instance is the patient's Clozaril authorization number (NCR's number – 2 letters followed by 5 numbers). The 2nd instance is the patient's SSN. The 3rd instance is the patient ICN. The 4th instance is the patient DFN
Check Digit	2	ST	0	NS					
Check Digit Scheme	3	ID	0	NS					
Assigning Authority	4	HD	0	NS					
Identifier Type Code	5	ID	20	R			0203	PN or SS	The 1st instance is "PN" - Patient's Clozaril authorization number. The 2nd instance is "SS" – Patient's Social Security.
Assigning Facility	6	HD	0	NS					
Effective Date	7	DT	0	NS					
Expiration Date	8	DT	0	NS					
Assigning Jurisdiction	9	CWE	0	NS					
Assigning Agency or Department	10	CWE	0	NS					
Alternate Patient ID - PID	4	CX	1913	NS					
Patient Name	5	XPN	1044	R					

PID Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Family Name	1	FN	194	R					
Surname	1	ST	20	R				Doe	Last Name
Own Surname Prefix	2	ST	0	NS					
Own Surname	3	ST	0	NS					
Surname Prefix from Partner/Spouse	4	ST	0	NS					
Surname from Partner/Spouse	5	ST	0	NS					
Given Name	2	ST	20	R				John	First Name
Second and Further Given Names or Initials Thereof	3	ST	0	NS					
Suffix (e.g., JR or III)	4	ST	0	NS					
Prefix (e.g., DR)	5	ST	0	NS					
Degree (e.g., MD)	6	IS	0	NS					
Name Type Code	7	ID	1	R		True	0200	L	This is always "L"
Name Representation Code	8	ID	0	NS					
Name Context	9	CE	0	NS					
Name Validity Range	10	DR	0	NS					
Name Assembly Order	11	ID	0	NS					
Effective Date	12	TS	0	NS					
Expiration Date	13	TS	0	NS					
Professional Suffix	14	ST	0	NS					
Mother's Maiden Name	6	XPN	1044	NS					
Date/Time of Birth	7	TS	26	R	False				
Time	1	DTM	24	R				19700101	YYYYMMDD
Degree of Precision	2	ID	0	NS					
Administrative Sex	8	IS	1	R	False		0001	F	
Patient Alias	9	XPN	1044	NS					
Race	10	CE	478	R	False				
Identifier	1	ST	20	R			0005	2028-9	

PID Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Text	2	ST	20	R				Asian	Race Identifier description
Name of Coding System	3	ID	20	R		True	0396	HL70005	HL7 Defined Code where nnnn is the HL7 table number 0005. This is always "HL70005".HL70005L7
Alternate Identifier	4	ST	0	NS					
Alternate Text	5	ST	0	NS					
Name of Alternate Coding System	6	ID	0	NS					
Patient Address	11	XAD	513	R	False				
Street Address	1	SAD	0	NS					
Other Designation	2	ST	0	NS					
City	3	ST	0	NS					
State or Province	4	ST	0	NS					
Zip or Postal Code	5	ST	12	R				33408	
Country	6	ID	0	NS					
Address Type	7	ID	0	NS					
Other Geographic Designation	8	ST	0	NS					
County/Parish Code	9	IS	0	NS					
Census Tract	10	IS	0	NS					
Address Representation Code	11	ID	0	NS					
Address Validity Range	12	DR	0	NS					
Effective Date	13	TS	0	NS					
Expiration Date	14	TS	0	NS					
County Code	12	IS	4	NS					
Phone Number - Home	13	XTN	651	NS					
Phone Number - Business	14	XTN	651	NS					
Primary Language	15	CE	483	NS					
Marital Status	16	CE	483	NS					
Religion	17	CE	483	NS					

PID Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Patient Account Number	18	CX	1912	NS					
SSN Number - Patient	19	ST	16	NS					
Driver's License Number - Patient	20	DLN	66	NS					
Mother's Identifier	21	CX	1912	NS					
Ethnic Group	22	CE	478	R	False				
Identifier	1	ST	20	R			0189	U	
Text	2	ST	20	R				Unknown	Ethnic Identifier description
Name of Coding System	3	ID	20	R		True	0396	HL70189	HL7 Defined Code where nnnn is the HL7 table number 0005. This is always "HL70189".
Alternate Identifier	4	ST	0	NS					
Alternate Text	5	ST	0	NS					
Name of Alternate Coding System	6	ID	0	NS					
Birth Place	23	ST	250	NS					
Multiple Birth Indicator	24	ID	1	NS					
Birth Order	25	NM	2	NS					
Citizenship	26	CE	483	NS					
Veterans Military Status	27	CE	483	NS					
Nationality	28	CE	483	NS					
Patient Death Date and Time	29	TS	26	NS					
Patient Death Indicator	30	ID	1	NS					
Identity Unknown Indicator	31	ID	1	NS					
Identity Reliability Code	32	IS	20	NS					
Last Update Date/Time	33	TS	26	NS					
Last Update Facility	34	HD	241	NS					
Species Code	35	CE	478	NS					
Breed Code	36	CE	478	NS					
Strain	37	ST	80	NS					

PID Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Production Class Code	38	CE	483	NS					
Tribal Citizenship	39	CWE	705	NS					

NCR Patient Registration ROL Segment

ROL Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Role Instance ID	1	EI	424	NS					
Action Code	2	ID	2	R	False		0287	UP	This is always "UP"
Role-ROL	3	CE	478	R	False				
Identifier	1	ST	20	R		True	0443	PPRX PRPX	This is always "PRX". Need to add "PRX" to table 0443
Text	2	ST	30	R		True		Prescribing Physician	This is always "Prescribing Physician"
Name of Coding System	3	ID	20	R		True	0396	HL70443	HL7 Defined Code where nnnn is the HL7 table number 0443. This is always "HL70443".
Alternate Identifier	4	ST	0	NS					
Alternate Text	5	ST	0	NS					
Name of Alternate Coding System	6	ID	0	NS					
Role Person	4	XCN	2930	R	True				
ID Number	1	ST	15	R				AR7071296	1st instance: This is the DEA number of the prescribing physician. 2nd instance: This is the NPI number of the prescribing physician.
Family Name	2	FN	194	R					
Surname	1	ST	50	R				Lastname	Last name of the prescribing physician
Own Surname Prefix	2	ST	0	NS					
Own Surname	3	ST	0	NS					

ROL Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Surname Prefix from Partner/Spouse	4	ST	0	NS					
Surname from Partner/Spouse	5	ST	0	NS					
Given Name	3	ST	30	R				Firstname	First name of the prescribing physician
Second and Further Given Names or Initials Thereof	4	ST	0	NS					
Suffix (e.g., JR or III)	5	ST	0	NS					
Prefix (e.g., DR)	6	ST	0	NS					
Degree (e.g., MD)	7	IS	0	NS					
Source Table	8	IS	0	NS					
Assigning Authority	9	HD	0	NS					
Name Type Code	10	ID	0	NS					
Identifier Check Digit	11	ST	0	NS					
Check Digit Scheme	12	ID	0						
Identifier Type Code	13	ID	3	R			0203	DEA	1st instance: This is "DEA". Need to add "DEA" to table 0203 2nd instance: This is "NPI".
Assigning Facility	14	HD	0	NS					
Name Representation Code	15	ID	0	NS					
Name Context	16	CE	0	NS					
Name Validity Range	17	DR	0	NS					
Name Assembly Order	18	ID	0	NS					
Effective Date	19	TS	0	NS					
Expiration Date	20	TS	0	NS					
Professional Suffix	21	ST	0	NS					
Assigning Jurisdiction	22	CWE	0	NS					

ROL Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Assigning Agency or Department	23	CWE	0	NS					
Role Begin Date/Time	5	TS	26	NS					
Role End Date/Time	6	TS	26	NS					
Role Duration	7	CE	483	NS					
Role Action Reason	8	CE	483	NS					
Provider Type	9	CE	483	NS					
Organization Unit Type	10	CE	483	NS					
Office/Home Address/Birthplace	11	XAD	513	NS					
Phone	12	XTN	651	NS					

NCR Patient Registration PV1 Segment

Table: PV1 Segment

PV1 Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Set ID - PV1	1	SI	4	NS					
Patient Class	2	IS	1	R	False		0004	O or I	"O" - Outpatient "I" - Inpatient
Assigned Patient Location	3	PL	1230	NS					
Admission Type	4	IS	2	NS					
Preadmit Number	5	CX	1912	NS					
Prior Patient Location	6	PL	1230	NS					
Attending Doctor	7	XCN	2930	NS					
Referring Doctor	8	XCN	2930	NS					
Consulting Doctor	9	XCN	2945	NS					
Hospital Service	10	IS	3	NS					
Temporary Location	11	PL	1230	NS					
Preadmit Test Indicator	12	IS	2	NS					
Re-admission Indicator	13	IS	2	NS					
Admit Source	14	IS	6	NS					
Ambulatory Status	15	IS	2	NS					

PV1 Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
VIP Indicator	16	IS	2	NS					
Admitting Doctor	17	XCN	2930	NS					
Patient Type	18	IS	2	NS					
Visit Number	19	CX	1912	NS					
Financial Class	20	FC	50	NS					
Charge Price Indicator	21	IS	2	NS					
Courtesy Code	22	IS	2	NS					
Credit Rating	23	IS	2	NS					
Contract Code	24	IS	2	NS					
Contract Effective Date	25	DT	8	NS					
Contract Amount	26	NM	12	NS					
Contract Period	27	NM	3	NS					
Interest Code	28	IS	2	NS					
Transfer to Bad Debt Code	29	IS	4	NS					
Transfer to Bad Debt Date	30	DT	8	NS					
Bad Debt Agency Code	31	IS	10	NS					
Bad Debt Transfer Amount	32	NM	12	NS					
Bad Debt Recovery Amount	33	NM	12	NS					
Delete Account Indicator	34	IS	1	NS					
Delete Account Date	35	DT	8	NS					
Discharge Disposition	36	IS	3	NS					
Discharged to Location	37	DLD	47	NS					
Diet Type	38	CE	483	NS					
Servicing Facility	39	IS	2	NS					
Bed Status	40	IS	1	NS					
Account Status	41	IS	2	NS					
Pending Location	42	PL	1230	NS					
Prior Temporary Location	43	PL	1230	NS					
Admit Date/Time	44	TS	26	NS					

PV1 Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Discharge Date/Time	45	TS	26	NS					
Current Patient Balance	46	NM	12	NS					
Total Charges	47	NM	12	NS					
Total Adjustments	48	NM	12	NS					
Total Payments	49	NM	12	NS					
Alternate Visit ID	50	CX	1912	NS					
Visit Indicator	51	IS	1	NS					
Other Healthcare Provider	52	XCN	2945	NS					

NCR Patient Registration OBX(1) Segment

Table: OBX(1) Segment

OBX(1) Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Set ID - OBX	1	SI	4	R	False	True		1	This is always "1" to indicate the 1 st instance of the OBX segment
Value Type	2	ID	2	R	False	True	0125	CE	This is always "CE" in the 1 st instance of the OBX segment
Observation Identifier	3	CE	478	R	False				
Identifier	1	ST	0	NS					
Text	2	ST	20	R		True		PTSTAT	This is always "PTSTAT" in the 1 st OBX instance
Name of Coding System	3	ID	0	NS					
Alternate Identifier	4	ST	0	NS					
Alternate Text	5	ST	0	NS					
Name of Alternate Coding System	6	ID	0	NS					
Observation Sub-ID	4	ST	20	NS					
Observation Value	5	CE	99999	R	False				
Identifier	1	ST	1	R				A or D	Patient status: "A" – Active "D" - Discontinued
Text	2	ST	0	NS					

OBX(1) Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Name of Coding System	3	ID	0	NS					
Alternate Identifier	4	ST	0	NS					
Alternate Text	5	ST	0	NS					
Name of Alternate Coding System	6	ID	0	NS					
Units	6	CE	483	NS					
References Range	7	ST	60	NS					
Abnormal Flags	8	IS	5	NS					
Probability	9	NM	5	NS					
Nature of Abnormal Test	10	ID	2	NS					
Observation Result Status	11	ID	1	R	False	True	0085	F	This is always "F"
Effective Date of Reference Range Values	12	TS	26	NS					
User Defined Access Checks	13	ST	20	NS					
Date/Time of the Observation	14	TS	26	NS					
Producer's Reference	15	CE	483	NS					
Responsible Observer	16	XCN	2930	NS					
Observation Method	17	CE	483	NS					
Equipment Instance Identifier	18	EI	427	NS					
Date/Time of the Analysis	19	TS	26	NS					
Reserved for harmonization with V2.6	20	varies	1	NS					
Reserved for harmonization with V2.6	21	varies	1	NS					
Reserved for harmonization with V2.6	22	varies	1	NS					
Performing Organization Name	23	XON	567	NS					

OBX(1) Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Performing Organization Address	24	XAD	631	NS					
Performing Organization Medical Director	25	XCN	3002	NS					

NCR Patient Registration OBX(2) Segment

Table: OBX(2) Segment

OBX(2) Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Set ID - OBX	1	SI	4	R	False	True		2	This is always "2" to indicate the 2nd instance of the OBX segment
Value Type	2	ID	2	R	False	True	0125	CE	This is always "CE" in the 2nd instance of the OBX segment
Observation Identifier	3	CE	478	R	False				
Identifier	1	ST	0	NS					
Text	2	ST	20	R		True	PTSTAT		This is always "Dispense Frequency" in the 2nd OBX instance
Name of Coding System	3	ID	0	NS					
Alternate Identifier	4	ST	0	NS					
Alternate Text	5	ST	0	NS					
Name of Alternate Coding System	6	ID	0	NS					
Observation Sub-ID	4	ST	20	NS					
Observation Value	5	CE	99999	R	False				
Identifier	1	ST	1	R				7 Days	Dispense Frequency: 7 Days, 14 Days, or 28 Days.
Text	2	ST	0	NS					
Name of Coding System	3	ID	0	NS					
Alternate Identifier	4	ST	0	NS					
Alternate Text	5	ST	0	NS					

OBX(2) Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Name of Alternate Coding System	6	ID	0	NS					
Units	6	CE	483	NS					
References Range	7	ST	60	NS					
Abnormal Flags	8	IS	5	NS					
Probability	9	NM	5	NS					
Nature of Abnormal Test	10	ID	2	NS					
Observation Result Status	11	ID	1	R	False	True	0085	F	This is always "F"
Effective Date of Reference Range Values	12	TS	26	NS					
User Defined Access Checks	13	ST	20	NS					
Date/Time of the Observation	14	TS	26	NS					
Producer's Reference	15	CE	483	NS					
Responsible Observer	16	XCN	2930	NS					
Observation Method	17	CE	483	NS					
Equipment Instance Identifier	18	EI	427	NS					
Date/Time of the Analysis	19	TS	26	NS					
Reserved for harmonization with V2.6	20	varies	1	NS					
Reserved for harmonization with V2.6	21	varies	1	NS					
Reserved for harmonization with V2.6	22	varies	1	NS					
Performing Organization Name	23	XON	567	NS					
Performing Organization Address	24	XAD	631	NS					
Performing Organization Medical Director	25	XCN	3002	NS					

NCR Patient Registration OBX(3) Segment

Table: OBX(3) Segment

OBX(3) Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Set ID - OBX	1	SI	4	R	False	True		3	This is always "3" to indicate the 3rd OBX instance
Value Type	2	ID	2	R	False		0125	CE	This is always "CE" in the 3rd OBX instance
Observation Identifier	3	CE	478	R	False				
Identifier	1	ST	0	NS					
Text	2	ST	20	R		True		WBC	This is always "WBC" in the 3rd OBX instance
Name of Coding System	3	ID	0	NS					
Alternate Identifier	4	ST	0	NS					
Alternate Text	5	ST	0	NS					
Name of Alternate Coding System	6	ID	0	NS					
Observation Sub-ID	4	ST	20	NS					
Observation Value	5	NM	20	R	False			7800	The White Blood Count result in the format expected by the manufacturer of the drug (whole number)
Units	6	CE	483	NS					
References Range	7	ST	60	NS					
Abnormal Flags	8	IS	5	NS					
Probability	9	NM	5	NS					
Nature of Abnormal Test	10	ID	2	NS					
Observation Result Status	11	ID	1	R	False	True	0085	F	This is always "F"
Effective Date of Reference Range Values	12	TS	26	NS					
User Defined Access Checks	13	ST	20	NS					

OBX(3) Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Date/Time of the Observation	14	TS	26	R	False				
Time	1	DTM	24	R				2017032813 4602-0500	Date and time of blood sample collection for the WBC Test in the format YYYYMMDD[HHMM[SS]][+-ZZZZ]
Degree of Precision	2	ID	0	NS					
Producer's Reference	15	CE	483	NS					
Responsible Observer	16	XCN	2930	NS					
Observation Method	17	CE	483	NS					
Equipment Instance Identifier	18	EI	427	NS					
Date/Time of the Analysis	19	TS	26	NS					
Reserved for harmonization with V2.6	20	varies	1	NS					
Reserved for harmonization with V2.6	21	varies	1	NS					
Reserved for harmonization with V2.6	22	varies	1	NS					
Performing Organization Name	23	XON	567	NS					
Performing Organization Address	24	XAD	631	NS					
Performing Organization Medical Director	25	XCN	3002	NS					

NCR Patient Registration OBX(4) Segment

Table: OBX(4) Segment

OBX(4) Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Set ID - OBX	1	SI	4	R	False	True		4	This is always "4" to indicate the 4th OBX instance
Value Type	2	ID	2	R	False	True	0125	CE	This is always "CE" in the 4th OBX instance
Observation Identifier	3	CE	478	R	False				
Identifier	1	ST	0	NS					
Text	2	ST	20	R		True		ANC	This is always "ANC" in the 4th OBX instance
Name of Coding System	3	ID	0	NS					
Alternate Identifier	4	ST	0	NS					
Alternate Text	5	ST	0	NS					
Name of Alternate Coding System	6	ID	0	NS					
Observation Sub-ID	4	ST	20	NS					
Observation Value	5	NM	20	R	False			300	ANC test result
Units	6	CE	483	NS					
References Range	7	ST	60	NS					
Abnormal Flags	8	IS	5	NS					
Probability	9	NM	5	NS					
Nature of Abnormal Test	10	ID	2	NS					
Observation Result Status	11	ID	1	R	False	True	0085	F	This is always "F"
Effective Date of Reference Range Values	12	TS	26	NS					
User Defined Access Checks	13	ST	20	NS					
Date/Time of the Observation	14	TS	26	R	False				

OBX(4) Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Time	1	DTM	24	R				2017032813 4602-0500	Date of the blood sample collection for the ANC test in the format YYYYMMDD[HHM M[SS]][+-ZZZZ]
Degree of Precision	2	ID	0	NS					
Producer's Reference	15	CE	483	NS					
Responsible Observer	16	XCN	2930	NS					
Observation Method	17	CE	483	NS					
Equipment Instance Identifier	18	EI	427	NS					
Date/Time of the Analysis	19	TS	26	NS					
Reserved for harmonization with V2.6	20	varies	1	NS					
Reserved for harmonization with V2.6	21	varies	1	NS					
Reserved for harmonization with V2.6	22	varies	1	NS					
Performing Organization Name	23	XON	567	NS					
Performing Organization Address	24	XAD	631	NS					
Performing Organization Medical Director	25	XCN	3002	NS					

NCR Patient Registration OBX(5) Segment

Table: OBX(5) Segment

OBX(5) Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Set ID - OBX	1	SI	4	R	False	True		5	This is always "5" to indicate the 5 th OBX instance
Value Type	2	ID	2	R	False	True	0125	CE	This is always "CE" in the 5 th OBX instance
Observation Identifier	3	CE	478	R	False				
Identifier	1	ST	0	NS					
Text	2	ST	199	R				Facility DEA number	DEA number type description: "Facility DEA number" or "Clinic DEA number" or Pharmacy DEA number" or "Pharmacist DEA number".
Name of Coding System	3	ID	0	NS					
Alternate Identifier	4	ST	0	NS					
Alternate Text	5	ST	0	NS					
Name of Alternate Coding System	6	ID	0	NS					
Observation Sub-ID	4	ST	20	NS					
Observation Value	5	ST	50	R	False			AG9698296	This is a DEA number (in the format 2 letters and 7 numbers)
Units	6	CE	483	NS					
References Range	7	ST	60	NS					
Abnormal Flags	8	IS	5	NS					
Probability	9	NM	5	NS					
Nature of Abnormal Test	10	ID	2	NS					
Observation Result Status	11	ID	1	R	False	True	0085	F	This is always "F"
Effective Date of Reference Range Values	12	TS	26	NS					

OBX(5) Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
User Defined Access Checks	13	ST	20	NS					
Date/Time of the Observation	14	TS	26	NS					
Producer's Reference	15	CE	483	NS					
Responsible Observer	16	XCN	2930	NS					
Observation Method	17	CE	483	NS					
Equipment Instance Identifier	18	EI	427	NS					
Date/Time of the Analysis	19	TS	26	NS					
Reserved for harmonization with V2.6	20	varies	1	NS					
Reserved for harmonization with V2.6	21	varies	1	NS					
Reserved for harmonization with V2.6	22	varies	1	NS					
Performing Organization Name	23	XON	567	NS					
Performing Organization Address	24	XAD	631	NS					
Performing Organization Medical Director	25	XCN	3002	NS					

NCR Patient Registration OBX(6) Segment

Table: OBX(6) Segment

OBX(6) Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Set ID - OBX	1	SI	4	R	False	True		6	This is always "6" to indicate the 6 th OBX instance
Value Type	2	ID	2	R	False	True	0125	CE	This is always "CE" in the 6 th OBX instance
Observation Identifier	3	CE	478	R	False				

OBX(6) Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Identifier	1	ST	0	NS					
Text	2	ST	20	R		True		SITELOC	This is always "SITELOC" in the 6 th OBX instance
Name of Coding System	3	ID	0	NS					
Alternate Identifier	4	ST	0	NS					
Alternate Text	5	ST	0	NS					
Name of Alternate Coding System	6	ID	0	NS					
Observation Sub-ID	4	ST	20	NS					
Observation Value	5	ST	50	R	False			22	Pointer to QUIC SORT DATA FILE (#736), that is the pointer to the Hospital Location (file #44) which is associated with the Ward Location (file #42)
Units	6	CE	483	NS					
References Range	7	ST	60	NS					
Abnormal Flags	8	IS	5	NS					
Probability	9	NM	5	NS					
Nature of Abnormal Test	10	ID	2	NS					
Observation Result Status	11	ID	1	R	False	True	0085	F	This is always "F"
Effective Date of Reference Range Values	12	TS	26	NS					
User Defined Access Checks	13	ST	20	NS					
Date/Time of the Observation	14	TS	26	NS					
Producer's Reference	15	CE	483	NS					
Responsible Observer	16	XCN	2930	NS					
Observation Method	17	CE	483	NS					
Equipment Instance Identifier	18	EI	427	NS					

OBX(6) Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Date/Time of the Analysis	19	TS	26	NS					
Reserved for harmonization with V2.6	20	varies	1	NS					
Reserved for harmonization with V2.6	21	varies	1	NS					
Reserved for harmonization with V2.6	22	VARI ES	567	NS					
Performing Organization Name	23	XON	179	R	False				
Organization Name	1	ST	50	R				VAMC Name	Site Name
Organization Name Type Code	2	IS	0	NS					
ID Number	3	NM	0	B					
Check Digit	4	NM	0	NS					
Check Digit Scheme	5	ID	0	NS					
Assigning Authority	6	HD	0	NS					
Identifier Type Code	7	ID	0	NS					
Assigning Facility	8	HD	0	NS					
Name Representation Code	9	ID	0	NS					
Organization Identifier	10	ST	20	R				402	Site Number
Performing Organization Address	24	XAD	631	R	False				
Street Address	1	SAD	134	R					
Street or Mailing Address	1	ST	120	R				123 Main St.	The 1st Line of the street address of the VAMC where patient has been treated
Street Name	2	ST	0	NS					
Dwelling Number	3	ST	12	O					

OBX(6) Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Other Designation	2	ST	120	RE				2nd line of street address	The 2nd Line of the street address of the VAMC where patient has been treated, if available
City	3	ST	50	R		1		North Palm Beach address	City where the VAMC is located
State or Province	4	ST	50	R		1		FL	VACM state
Zip or Postal Code	5	ST	12	R		1		33408	VAMC zip code
Country	6	ID	0	NS					
Address Type	7	ID	0	NS					
Other Geographic Designation	8	ST	0	NS					
County/Parish Code	9	IS	0	NS					
Census Tract	10	IS	0	NS					
Address Representation Code	11	ID	0	NS					
Address Validity Range	12	DR	0	NS					
Effective Date	13	TS	0	NS					
Expiration Date	14	TS	0	NS					
Performing Organization Medical Director	25	XCN	3002	NS					

NCR Clozapine Dispense Message: RDE^O11

The RDE^O11 Clozapine Dispense message is triggered when the YSCL at the individual VAMC VistA system extracts Clozaril Rollup data to generate HL7 messages.

The RDE^O11 Message Type is constructed of the following HL7 segments in the order as listed:

- MSH – Message Header
- PID – Patient Identification
- PV1 – Patient Visit
- ORC – Common Order
- RXE – Pharmacy/Treatment Encoded Order
- TQ1 – Timing/Quantity
- RXR – Pharmacy/Treatment Route
- PV1 – Patient Visit

The notation is: MSH, PID, PV1, ORC, RXE, {TQ1}, RXR

NCR Clozapine Dispense MSH Segment

Table: MSH Segment

MSH Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Field Separator	1	ST	1	R	False	True			
Encoding Characters	2	ST	4	R	False	True		~\&	
Sending Application	3	HD	227	R	False		0361		
Namespace ID	1	IS	20	R		True	0300	YSCL CLOZ REGISTRY	This is always "YSCL CLOZ REGISTRY"
Universal ID	2	ST	0	NS					
Universal ID Type	3	ID	0	NS					
Sending Facility	4	HD	227	R	False		0362		
Namespace ID	1	IS	20	R			0300	501 or 501GF	This is the site number of the sending site, e.g., 501 (parent facility) or 501GF (satellite facility)
Universal ID	2	ST	50	R				HL7.SMA.FO - ALBANY.ME D.VA.GOV:5 001	URL and port number of the sending facility HL7 server
Universal ID Type	3	ID	20	R			0301	DNS	

MSH Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Receiving Application	5	HD	227	R	False		0361		
Namespace ID	1	IS	20	R		True	0300	NCR CLOZ REGISTRY	This is always "NCR CLOZ REGISTRY"
Universal ID	2	ST	0	NS					
Universal ID Type	3	ID	0	NS					
Receiving Facility	6	HD	227	R	False		0362		
Namespace ID	1	IS	20	R		True	0300	3000	Receiving facility identifier (TBD for HealthShare server - alphanumeric)
Universal ID	2	ST	50	R				devazrclzpv0 1.dev.dss.loc al:5001	URL and port number of the receiving facility HL7 server
Universal ID Type	3	ID	20	R			0301	DNS	
Date/Time of Message	7	TS	26	R	False				
Time	1	DTM	24	R				2017032813 4602-0500	Date/time the message was created in format YYYYMMDD[HHM M[SS]] [+ZZZZ]00
Degree of Precision	2	ID	0	NS					
Security	8	ST	40	NS					
Message Type	9	MSG	15	R	False				
Message Code	1	ID	3	R		True	0076	ADT	This is always "RDE"
Trigger Event	2	ID	3	R		True	0003	A28	This is always "O11"
Message Structure	3	ID	7	R		True	0354	ADT_A05	This is always "RDE_O11"
Message Control ID	10	ST	20	R	False			12354	Generated by the HL7 module in Vista
Processing ID	11	PT	3	R	False				
Processing ID	1	ID	1	R			0103	P	"P" -Production "T" - Test
Processing Mode	2	ID	0	NS					
Version ID	12	VID	973	R	False				

MSH Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Version ID	1	ID	5	R		True	0104	2.5.1	This is always "2.5.1"
Internationalization Code	2	CE	0	NS					
International Version ID	3	CE	0	NS					
Sequence Number	13	NM	15	NS					
Continuation Pointer	14	ST	180	NS					
Accept Acknowledgment Type	15	ID	2	R	False	True	0155	AL	This is always "AL"
Application Acknowledgment Type	16	ID	2	R	False	True	0155	AL	This is always "AL"
Country Code	17	ID	3	NS					
Character Set	18	ID	16	NS					
Principal Language of Message	19	CE	483	NS					
Alternate Character Set Handling Scheme	20	ID	20	NS					
Message Profile Identifier	21	EI	427	NS					

NCR Clozapine Dispense PID Segment

Table: PID Segment

PID Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Set ID - PID	1	SI	4	NS					
Patient ID	2	CX	1913	NS					
Patient Identifier List	3	CX	1912	R	True				

PID Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
ID Number	1	ST	15	R				VA12345 or 111223344 or 1000720100 V271387 or 100234567	The 1 st instance is the patient's Clozaril authorization number (NCR's number – 2 letters followed by 5 numbers). The 2 nd instance is the patient's SSN. The 3 rd instance is the patient ICN. The 4 th instance is the patient DFN
Check Digit	2	ST	0	NS					
Check Digit Scheme	3	ID	0	NS					
Assigning Authority	4	HD	0	NS					
Identifier Type Code	5	ID	20	R			0203	PN or SS	The 1 st instance is "PN" - Patient's Clozaril authorization number. The 2 nd instance is "SS" – Patient's Social Security.
Assigning Facility	6	HD	0	NS					
Effective Date	7	DT	0	NS					
Expiration Date	8	DT	0	NS					
Assigning Jurisdiction	9	CWE	0	NS					
Assigning Agency or Department	10	CWE	0	NS					
Alternate Patient ID - PID	4	CX	1913	NS					
Patient Name	5	XPN	1044	R					
Family Name	1	FN	194	R					
Surname	1	ST	50	R				Doe	Last Name
Own Surname Prefix	2	ST	0	NS					
Own Surname	3	ST	0	NS					
Surname Prefix from Partner/Spouse	4	ST	0	NS					

PID Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Surname from Partner/Spouse	5	ST	0	NS					
Given Name	2	ST	50	R				John	First Name
Second and Further Given Names or Initials Thereof	3	ST	0	NS					
Suffix (e.g., JR or III)	4	ST	0	NS					
Prefix (e.g., DR)	5	ST	0	NS					
Degree (e.g., MD)	6	IS	0	NS					
Name Type Code	7	ID	1	R		0200	L	This is always "L"	
Name Representation Code	8	ID	0	NS					
Name Context	9	CE	0	NS					
Name Validity Range	10	DR	0	NS					
Name Assembly Order	11	ID	0	NS					
Effective Date	12	TS	0	NS					
Expiration Date	13	TS	0	NS					
Professional Suffix	14	ST	0	NS					
Mother's Maiden Name	6	XPN	1044	NS					
Date/Time of Birth	7	TS	26	R	False				
Time	1	DTM	24	R				19700101	YYYYMMDD
Degree of Precision	2	ID	0	NS					
Administrative Sex	8	IS	1	R	False	0001	M		
Patient Alias	9	XPN	1044	NS					
Race	10	CE	478	R	False	0005			
Identifier	1	ST	20	R		0005	2028-9		
Text	2	ST	20	R				Asian	Race Identifier description
Name of Coding System	3	ID	20	R		True	0396	HL70005	HL7 Defined Code where nnnn is the HL7 table number 0005. This is always "HL70005".
Alternate Identifier	4	ST	0	NS					
Alternate Text	5	ST	0	NS					

PID Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Name of Alternate Coding System	6	ID	0	NS					
Patient Address	11	XAD	513	R	False				
Street Address	1	SAD	0	NS					
Other Designation	2	ST	0	NS					
City	3	ST	0	NS					
State or Province	4	ST	0	NS					
Zip or Postal Code	5	ST	12	R				33408	
Country	6	ID	0	NS					
Address Type	7	ID	0	NS					
Other Geographic Designation	8	ST	0	NS					
County/Parish Code	9	IS	0	NS					
Census Tract	10	IS	0	NS					
Address Representation Code	11	ID	0	NS					
Address Validity Range	12	DR	0	NS					
Effective Date	13	TS	0	NS					
Expiration Date	14	TS	0	NS					
County Code	12	IS	4	NS					
Phone Number - Home	13	XTN	651	NS					
Phone Number - Business	14	XTN	651	NS					
Primary Language	15	CE	483	NS					
Marital Status	16	CE	483	NS	False			3.4.2.16	
Religion	17	CE	483	NS	False				
Patient Account Number	18	CX	1912	NS	False				
SSN Number - Patient	19	ST	16	NS	False				
Driver's License Number - Patient	20	DLN	66	NS	False				
Mother's Identifier	21	CX	1912	NS	False				
Ethnic Group	22	CE	478	RE	False				
Identifier	1	ST	20	R			0189	U	
Text	2	ST	20	R				Unknown	Ethnic Identifier description

PID Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Name of Coding System	3	ID	20	R		True	0396	HL70189	HL7 Defined Code where nnnn is the HL7 table number 0005. This is always "HL70189".
Alternate Identifier	4	ST	0	NS					
Alternate Text	5	ST	0	NS					
Name of Alternate Coding System	6	ID	0	NS					
Birth Place	23	ST	250	NS					
Multiple Birth Indicator	24	ID	1	NS					
Birth Order	25	NM	2	NS					
Citizenship	26	CE	483	NS					
Veterans Military Status	27	CE	483	NS					
Nationality	28	CE	483	NS					
Patient Death Date and Time	29	TS	26	NS					
Patient Death Indicator	30	ID	1	NS					
Identity Unknown Indicator	31	ID	1	NS					
Identity Reliability Code	32	IS	20	NS					
Last Update Date/Time	33	TS	26	NS					
Last Update Facility	34	HD	241	NS					
Species Code	35	CE	478	NS					
Breed Code	36	CE	478	NS					
Strain	37	ST	80	NS					
Production Class Code	38	CE	483	NS					
Tribal Citizenship	39	CWE	705	NS					

NCR Clozapine Dispense PV1 Segment

Table: PV1 Segment

PV1 Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Set ID - PV1	1	SI	4	NS					

PV1 Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Patient Class	2	IS	1	R	False		0004	O or I	"O" - Outpatient "I" - Inpatient
Assigned Patient Location	3	PL	1230	NS					
Admission Type	4	IS	2	NS					
Preadmit Number	5	CX	1912	NS					
Prior Patient Location	6	PL	1230	NS					
Attending Doctor	7	XCN	2930	NS					
Referring Doctor	8	XCN	2930	NS					
Consulting Doctor	9	XCN	2945	NS					
Hospital Service	10	IS	3	NS					
Temporary Location	11	PL	1230	NS					
Preadmit Test Indicator	12	IS	2	NS					
Re-admission Indicator	13	IS	2	NS					
Admit Source	14	IS	6	NS					
Ambulatory Status	15	IS	2	NS					
VIP Indicator	16	IS	2	NS					
Admitting Doctor	17	XCN	2930	NS					
Patient Type	18	IS	2	NS					
Visit Number	19	CX	1912	NS					
Financial Class	20	FC	50	NS					
Charge Price Indicator	21	IS	2	NS					
Courtesy Code	22	IS	2	NS					
Credit Rating	23	IS	2	NS					
Contract Code	24	IS	2	NS					
Contract Effective Date	25	DT	8	NS					
Contract Amount	26	NM	12	NS					
Contract Period	27	NM	3	NS					
Interest Code	28	IS	2	NS					
Transfer to Bad Debt Code	29	IS	4	NS					
Transfer to Bad Debt Date	30	DT	8	NS					
Bad Debt Agency Code	31	IS	10	NS					

PV1 Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Bad Debt Transfer Amount	32	NM	12	NS					
Bad Debt Recovery Amount	33	NM	12	NS					
Delete Account Indicator	34	IS	1	NS					
Delete Account Date	35	DT	8	NS					
Discharge Disposition	36	IS	3	NS					
Discharged to Location	37	DLD	47	NS					
Diet Type	38	CE	483	NS					
Servicing Facility	39	IS	2	NS					
Bed Status	40	IS	1	NS					
Account Status	41	IS	2	NS					
Pending Location	42	PL	1230	NS					
Prior Temporary Location	43	PL	1230	NS					
Admit Date/Time	44	TS	26	NS					
Discharge Date/Time	45	TS	26	NS					
Current Patient Balance	46	NM	12	NS					
Total Charges	47	NM	12	NS					
Total Adjustments	48	NM	12	NS					
Total Payments	49	NM	12	NS					
Alternate Visit ID	50	CX	1912	NS					
Visit Indicator	51	IS	1	NS					
Other Healthcare Provider	52	XCN	2945	NS					

NCR Clozapine Dispense ORC Segment

Table: ORC Segment

ORC Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Order Control	1	ID	2	R	False	True	0119	RE	This is always "RE"
Placer Order Number	2	EI	424	NS					

ORC Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Filler Order Number	3	EI	424	NS					
Placer Group Number	4	EI	427	NS					
Order Status	5	ID	2	NS					
Response Flag	6	ID	1	NS					
Quantity/Timing	7	TQ	1778	NS					
Parent	8	EIP	855	NS					
Date/Time of Transaction	9	TS	26	R	False				
Time	1	DTM	24	R				20170328	Date prescribed YYYYMMDD
Degree of Precision	2	ID	0	NS					
Entered By	10	XCN	2930	NS					
Verified By	11	XCN	2930	NS					
Ordering Provider	12	XCN	2930	R	False				
ID Number	1	ST	20	R				1235319599	This is the NPI number of the prescribing physician.
Family Name	2	FN	194	R					
Surname	1	ST	50	R				Lastname	Last name of the prescribing physician
Own Surname Prefix	2	ST	0	NS					
Own Surname	3	ST	0	NS					
Surname Prefix from Partner/Spouse	4	ST	0	NS					
Surname from Partner/Spouse	5	ST	0	NS					
Given Name	3	ST	30	R				Firstname	First name of the prescribing physician
Second and Further Given Names or Initials Thereof	4	ST	0	NS					
Suffix (e.g., JR or III)	5	ST	0	NS					
Prefix (e.g., DR)	6	ST	0	NS					

ORC Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Degree (e.g., MD)	7	IS	0	NS					
Source Table	8	IS	0	NS					
Assigning Authority	9	HD	0	NS					
Name Type Code	10	ID	0	NS					
Identifier Check Digit	11	ST	0	NS					
Check Digit Scheme	12	ID	0						
Identifier Type Code	13	ID	3	R		True	0203	NPI	This is always "NPI"
Assigning Facility	14	HD	0	NS					
Name Representation Code	15	ID	0	NS					
Name Context	16	CE	0	NS					
Name Validity Range	17	DR	0	NS					
Name Assembly Order	18	ID	0	NS					
Effective Date	19	TS	0	NS					
Expiration Date	20	TS	0	NS					
Professional Suffix	21	ST	0	NS					
Assigning Jurisdiction	22	CWE	0	NS					
Assigning Agency or Department	23	CWE	0	NS					
Enterer's Location	13	PL	1230	NS					
Call Back Phone Number	14	XTN	651	NS					
Order Effective Date/Time	15	TS	26	NS					
Order Control Code Reason	16	CE	483	NS					
Entering Organization	17	CE	483	NS					
Entering Device	18	CE	483	NS					
Action By	19	XCN	2930	NS					
Advanced Beneficiary Notice Code	20	CE	483	NS					
Ordering Facility Name	21	XON	563	NS					

ORC Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Ordering Facility Address	22	XAD	513	NS					
Ordering Facility Phone Number	23	XTN	651	NS					
Ordering Provider Address	24	XAD	513	NS					
Order Status Modifier	25	CWE	705	NS					
Advanced Beneficiary Notice Override Reason	26	CWE	697	NS					
Filler's Expected Availability Date/Time	27	TS	26	NS					
Confidentiality Code	28	CWE	705	NS					
Order Type	29	CWE	705	NS					
Enterer Authorization Mode	30	CNE	697	NS					
Parent Universal Service Identifier	31	CWE	705	NS					

NCR Clozapine Dispense RXE Segment

Table: RXE Segment

RXE Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Quantity/Timing	1	TQ	1778	NS	False				
Give Code	2	CE	478	R	False				
Identifier	1	ST	0	NS					
Text	2	ST	0	NS					
Name of Coding System	3	ID	0	NS					
Alternate Identifier	4	ST	20	R				64725-1260	NDC Number
Alternate Text	5	ST	199	R				Clozaril	Drug Name
Name of Alternate Coding System	6	ID	20	R		True T	0396	NDC	This is always "NDC"
Give Amount - Minimum	3	NM	20	R	False			100	
Give Amount - Maximum	4	NM	20	NS					
Give Units	5	CE	478	R	False				

RXE Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Identifier	1	ST	20	R				MG	
Text	2	ST	0	NS					
Name of Coding System	3	ID	0	NS					
Alternate Identifier	4	ST	0	NS					
Alternate Text	5	ST	0	NS					
Name of Alternate Coding System	6	ID	0	NS					
Give Dosage Form	6	CE	483	NS					
Provider's Administration Instructions	7	CE	483	RE	False				
Identifier	1	ST	0	R				91	
Text	2	ST	0	NS					
Name of Coding System	3	ID	0	NS					
Alternate Identifier	4	ST	0	NS					
Alternate Text	5	ST	0	NS					
Name of Alternate Coding System	6	ID	0	NS					
Deliver-To Location	8	LA1	790	NS					
Substitution Status	9	ID	1	NS					
Dispense Amount	10	NM	20	NS					
Dispense Units	11	CE	478	NS					
Number of Refills	12	NM	3	NS					
Ordering Provider's DEA Number	13	XCN	2930	NS					
Pharmacist/Treatment Supplier's Verifier ID	14	XCN	2930	CE					Only if REX.7 is populated
ID Number	1	ST	20	R				AR7071296	The 1st instance is the DEA number of the prescriber who approved the denial/override. The 2nd instance is this prescriber's DUZ number from file 200.
Family Name	2	FN	194	R					

RXE Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Surname	1	ST	50	R				Lastname	Last name of the prescriber who approved the denial/override.
Own Surname Prefix	2	ST	0	NS					
Own Surname	3	ST	0	NS					
Surname Prefix from Partner/Spouse	4	ST	0	NS					
Surname from Partner/Spouse	5	ST	0	NS					
Given Name	3	ST	30	R				Firstname	First name of prescriber who approved the denial/override.
Second and Further Given Names or Initials Thereof	4	ST	0	NS					
Suffix (e.g., JR or III)	5	ST	0	NS					
Prefix (e.g., DR)	6	ST	0	NS					
Degree (e.g., MD)	7	IS	0	NS					
Source Table	8	IS	0	NS					
Assigning Authority	9	HD	0	NS					
Name Type Code	10	ID	0	NS					
Identifier Check Digit	11	ST	0	NS					
Check Digit Scheme	12	ID	0						
Identifier Type Code	13	ID	3	R			0203	DEA	The 1st instance is "DEA", the 2nd instance is "PN".
Assigning Facility	14	HD	0	NS					
Name Representation Code	15	ID	0	NS					
Name Context	16	CE	0	NS					
Name Validity Range	17	DR	0	NS					
Name Assembly Order	18	ID	0	NS					

RXE Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Effective Date	19	TS	0	NS					
Expiration Date	20	TS	0	NS					
Professional Suffix	21	ST	0	NS					
Assigning Jurisdiction	22	CWE	0	NS					
Assigning Agency or Department	23	CWE	0	NS					
Prescription Number	15	ST	20	C				13519100	If patient type in PV1.2 is "I" (Inpatient), then it is an order number. If patient type in PV1.2 is "O" (Outpatient), it is a prescription number.
Number of Refills Remaining	16	NM	20	NS					
Number of Refills/Doses Dispensed	17	NM	20	NS					
D/T of Most Recent Refill or Dose Dispensed	18	TS	26	NS					
Total Daily Dose	19	CQ	499	NS					
Needs Human Review	20	ID	1	NS					
Pharmacy/Treatment Supplier's Special Dispensing Instructions	21	CE	483	NS					
Give Per (Time Unit)	22	ST	20	NS					
Give Rate Amount	23	ST	6	NS					
Give Rate Units	24	CE	483	NS					
Give Strength	25	NM	20	NS					
Give Strength Units	26	CE	483	NS					
Give Indication	27	CE	483	NS					
Dispense Package Size	28	NM	20	NS					
Dispense Package Size Unit	29	CE	483	NS					

RXE Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Dispense Package Method	30	ID	2	NS					
Supplementary Code	31	CE	483	NS					
Original Order Date/Time	32	TS	26	NS					
Give Drug Strength Volume	33	NM	5	NS					
Give Drug Strength Volume Units	34	CWE	705	NS					
Controlled Substance Schedule	35	CWE	705	NS					
Formulary Status	36	ID	1	NS					
Pharmaceutical Substance Alternative	37	CWE	705	NS					
Pharmacy of Most Recent Fill	38	CWE	705	NS					
Initial Dispense Amount	39	NM	250	NS					
Dispensing Pharmacy	40	CWE	705	NS					
Identifier	1	ST	20	R				1234567	This is pharmacy number NCPDP
Text	2	ST	0	NS					
Name of Coding System	3	ID	0	NS					
Alternate Identifier	4	ST	0	NS					
Alternate Text	5	ST	0	NS					
Name of Alternate Coding System	6	ID	0	NS					
Coding System Version	7	ST	0	NS					
Alternate Coding System Version ID	8	ST	0	NS					
Original Text	9	ST	0	NS					
Dispensing Pharmacy Address	41	XAD	513	NS					
Deliver-to Patient Location	42	PL	1230	NS					
Deliver-to Address	43	XAD	513	NS					

RXE Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Pharmacy Order Type	44	ID	1	NS					

NCR Clozapine Dispense TQ1 Segment

Table: TQ1 Segment

TQ1 Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Set ID - TQ1	1	SI	4	R	False			1	This is consecutive numbers 1, 2, 3, etc. to indicate the order of repetitions
Quantity	2	CQ	500	R	False				
Quantity	1	NM	16	R				100	This is drug dosage amount
Units	2	CE	483	R					
Identifier	1	ST	20	R				MG	This is drug dosage units
Text	2	ST	0	NS					
Name of Coding System	3	ID	0	NS					
Alternate Identifier	4	ST	0	NS					
Alternate Text	5	ST	0	NS					
Name of Alternate Coding System	6	ID	0	NS					
Repeat Pattern	3	RPT	984	NS					
Explicit Time	4	TM	20	NS					
Relative Time and Units	5	CQ	500	NS					
Service Duration	6	CQ	500	NS					
Start date/time	7	TS	26	NS					
End date/time	8	TS	26	NS					
Priority	9	CWE	705	NS					
Condition text	10	TX	250	NS					
Text instruction	11	TX	250	NS					
Conjunction	12	ID	10	NS					
Occurrence duration	13	CQ	500	NS					
Total occurrence's	14	NM	10	NS					

NCR Clozapine Dispense RXR Segment

Table: RXR Segment

RXR Field Name	Seq	DT	Len	Opt	Rep	Fixed Value	Code Tbl	Example Value	Implementation Notes
Route	1	CE	478	R	False				
Identifier	1	ST	20	R		True	0162	PO	This is always "PO" for oral.
Text	2	ST	199	R		True		ORAL	This is always "ORAL"
Name of Coding System	3	ID	20	R		True	0396	HL70162	This is always "HL70162"
Alternate Identifier	4	ST	0	NS					
Alternate Text	5	ST	0	NS					
Alternate Coding System Name	6	ID	0	NS					
Administration Site	2	CWE	705	NS					
Administration Device	3	CE	483	NS					
Administration Method	4	CWE	705	NS					
Routing Instruction	5	CE	483	NS					
Administration Site Modifier	6	CWE	705	NS					