Camp Lejeune-Veterans (CL-V)

Increment 4

VistA

Computerized Patient Record System (CPRS) V. 3.0

Patch OR\*3.0\*407

System Design Document



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Revision History

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| 05/10/2016 | .14 | Completed updates per and TW from VA review |  |
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# Introduction

Public Law 112-154 was enacted to furnish the Department of Veterans Affairs (VA) medical services and hospital care to Veterans stationed at Camp Lejeune between August 1, 1953 and December 31, 1987. Veterans serving at this location for at least 30 days may suffer from medical conditions and/or illnesses arising from their exposure to water contaminated by hazardous chemicals.

Software enhancements to the Veterans Health Information Systems and Technology Architecture (VistA) and to the centralized Health Eligibility Center (HEC) Enrollment System Core (ESC) are required for maintaining the Camp Lejeune-Veterans (CL-V) support information in the Veteran records. This implies that enhancements to the Health Level 7 (HL7) messaging between VistA and ESC as well as other external consumers of CL-V data are also required as part of the software development effort.

The purpose of this System Design Document (SDD) is to outline the design specifications for the CL-V project for the Computerized Patient Record System (CPRS) application. The change to CPRS will be done via patch OR\*3.0\*407. Wherever the CPRS patch is referenced in this SDD, it is for patch OR\*3.0\*407.

## Scope

For detailed information, refer to the Camp Lejeune PL 112-154 System Changes to Support Provisions Affecting Veterans BRD (Business Requirements Document) v10 located on CL-V Technical Services Project Repository (TSPR).

CPRS is a VistA application Graphical User Interface (GUI) that enables users to enter, review, and update all patient information. With CPRS, users can order lab tests, medications, diets, radiology tests and procedures, record patient allergies or adverse reactions to medications, request and track consultations, enter progress notes, diagnoses, treatments, and discharge summaries for each patient encounter. In addition, CPRS supports clinical decision-making and enables users to review and analyze patient data.

**Note:** The CPRS GUI is updated to support the Camp Lejeune indicator as of CPRS v30b.

User Interface controls on the following three screens are updated to include Camp Lejeune prompts or responses in the CPRS GUI:

* Sign Orders Pop Up screen (for Outpatient Medication Orders)
* Order Details screen
* Encounter Form (Visit Related) in the Notes tab
* Problem List Screen
* See section 2.6.18 of this RSD for Problem List requirements.

## User Profiles

Local Coordinators, Managers, and Clinicians or equivalent, who are responsible for and provide care to VA patients, will be the initial contact for the Veteran, and will be the primary users of the CPRS application. These individuals manually perform the tasks associated with the CPRS applications, and are already familiar with how to establish and track environmental indicators, of which CL-V is one.

# Background

This section provides an overview of the system, business processes, and business benefits.

## Overview of the System

In order to fulfill the legislative requirements, implementation of Camp Lejeune system changes from the front-end applications for point of entry, through the back office processing of Camp Lejeune related care, are required.

The CL-V project implements system changes through front-end applications as well as back office [e.g., Integrated Billing (IB), Office of Policy and Planning (OPP) reporting, and Managerial Cost Accounting (MCA), etc.].

The first phase of the CL-V project addressed the front-end applications involved in Veterans Health Administration (VHA) Eligibility and Enrollment of Camp Lejeune–eligible Veterans; this was accomplished during Increment 3 of the CL-V project. The second phase of the initiative, Increment 4, addresses the downstream clinical, administrative, and back office processing of services related to the Camp Lejeune–eligible Veterans’ healthcare. CPRS is one of the applications that handles the back office processing of services affected by Increment 4.

CPRS is a GUI to the VistA application that enables users to enter, review, and update all patient information. CPRS supports clinical decision-making and enables users to review and analyze patient data. CPRS will be updated to include Camp Lejeune prompts and display in the following areas of the GUI:

* Sign Orders Pop Up screen (for Outpatient Medication Orders)
* Order Details screen/form
* Encounter Form (Visit Related) in the Notes tab
* Problem List Screen

Although these updates will be completed via M routines, they can be seen by CPRS users via the CPRS GUI interface. These changes can be seen on the three forms listed above. Particular updates are detailed below.

1. Enhance CPRS Encounter form to Collect, Display, and Store Camp Lejeune Eligibility.

The CPRS Encounter Form screen will be modified to allow the ability to indicate the Camp Lejeune status for a visit. The Camp Lejeune indicator on the CPRS encounter form will be enabled if the patient has Camp Lejeune status eligibility. The Camp Lejeune indicator, if enabled, will allow the CPRS user to indicate Yes, No or leave blank (it is not a required field). The Camp Lejeune indicator on the CPRS encounter form will be disabled if the patient does not have Camp Lejeune status eligibility.

1. Enhance CPRS Outpatient Medication Orders to Collect, Display, and Store Camp Lejeune Eligibility.

The CPRS Sign Orders screen will be modified to allow the ability to indicate if the Outpatient Medication prescription being prescribed is due to a Veteran's Camp Lejeune related condition. The CPRS Sign Orders screen will include "mouse hover" context sensitive help text for the Camp Lejeune prompt. The context sensitive help text for the "mouse over" of the Camp Lejeune prompt on the CPRS Sign Orders screen will be as follows:

Camp Lejeune (CL): Veterans with conditions associated with exposure to water contaminants at Camp Lejeune North Carolina from August 1, 1953 through December 31, 1987 are eligible for enrollment in priority group 6, unless eligible for enrollment in a higher priority. Veterans receive VA services at no charge for medical care and medications for treatments associated to Camp Lejeune water contaminant related conditions.

If a Veteran is eligible for the Camp Lejeune classification, the provider shall be asked to indicate, at the time an outpatient medication order is being signed in CPRS, if the order is for a condition related to exposure of water contaminants at Camp Lejeune.

**Note**: The Orders file (#100) shall be modified to add the Camp Lejeune status for Outpatient Medication orders.

1. The Order Details screen in CPRS will be updated to include "Camp Lejeune Exposure" when the provider has signed the order and indicated the prescription is related to the patient's Camp Lejeune water contaminant exposure condition.

## Overview of the Business Process

With CPRS, providers can access patient information at the point of care, across multiple sites and for all clinical disciplines. CPRS provides a single interface through witch providers can update a patient’s medical history, submit orders, review test results, review drug prescriptions, and perform other functions to support clinical care delivery and the promotion of wellness.

See details of the requirements and updated user interfaces in Section 2.6.11 of the CL-V Increment 4 VistA RSD, found on CL-V TSPR.

The CL-V Increment 4 RTM (Requirements Traceability Matrix), found on CL-V TSPR, contains a tab for CPRS with a listing of all CPRS requirements linked to the Business Needs found on CL-V TSPR.

## Overview of the Significant Requirements

The RSD for the CL-V Increment 4 applications is the CL-V Increment 4 VistA RSD, found on the CL-V TSPR site.

Table 1 provides an overview of the significant requirements for the CPRS patch.

Table : Overview of Significant Requirements for CPRS Patch

| ID | Requirement |
| --- | --- |
| 2.6.11.1 | The CPRS Encounter form shall be enhanced to Collect, Display, and Store Camp Lejeune Eligibility. |
| 2.6.11.2 | CPRS Outpatient Medication Orders shall be enhanced to Collect, Display, and Store Camp Lejeune Eligibility. |

**Functional and Workload Requirements**

It is expected that functional workload will be the equivalent of current workload and existing performance system requirements:

* There is no anticipated increased user base or increased transaction volume being introduced with this project.
* No new user interfaces are being added or removed with this project. Modification of existing user interfaces to accommodate the new CL-V data fields should have no impact on user response times or system performance.
* Existing interfaces and communication methods are being used to send additional CL-V data fields to the external system at the Austin Information Technology Center. The new data fields should not impact VA network or VistA MailMan servers in any way.

**Security and Privacy Requirements**

There are no special security or privacy requirements that are unique to this project.

**System Criticality and High Availability Requirements**

This is an enhancement to an existing VistA legacy system (CPRS). There will not be any changes to the required level of availability and disaster recovery currently in place for the existing legacy system.

**Single Sign-on Requirement**

This is an enhancement to an existing VistA legacy system (CPRS), and pre-existing standard sign-on applies.

**Requirement for Use of Enterprise Portals**

This is an enhancement to an existing VistA legacy system (CPRS). Modifications will be made to the existing roll and scroll user interface, and there will not be any new user interfaces introduced that require use of Enterprise Portals.

**Special Device Requirements**

No special devices are required for this enhancement.

**Technical Requirements**

There are no applicable technical requirements for this project.

# Conceptual Design

## Conceptual Application Design

This section provides an overview of the conceptual application design.

### Application Context

The context diagram below shows the application context of the components related to this specific release.

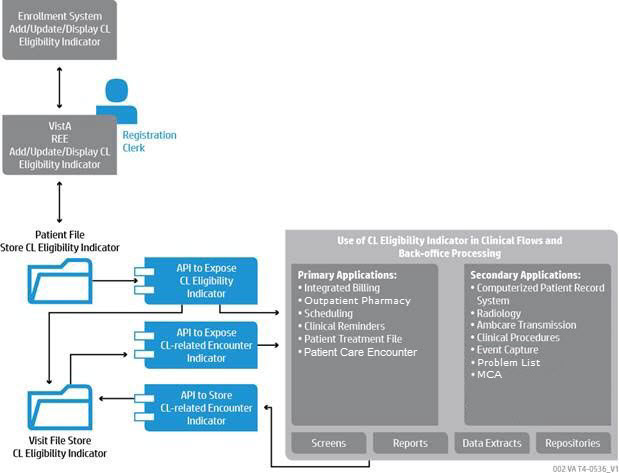


Figure : Camp Lejeune Context Diagram – VistA

Table (Grouping): Application Context Description

Object

| ID | Name | Description | Interface Name | Interface System |
| --- | --- | --- | --- | --- |
| N/A | N/A | N/A | N/A | N/A |

Interfaces External to OI&T

| ID | Name | Related Object | Input Messages | Output Messages | External Party |
| --- | --- | --- | --- | --- | --- |
| N/A | N/A | N/A | N/A | N/A | N/A |

Interfaces Internal to OI&T

| ID | Name | Related Object | Input Messages | Output Messages | External Party |
| --- | --- | --- | --- | --- | --- |
| N/A | N/A | N/A | N/A | N/A | N/A |

Externally Shared Data Stores

| ID | Name | Data Stored | Owner | Access |
| --- | --- | --- | --- | --- |
| N/A | N/A | N/A | N/A | N/A |

### High-Level Application Design

The CL-V Increment 4 modifications to the CPRS application have no impact to the existing high-level design of VistA.

Table (Grouping): Objects in the High Level Application Design

Objects / Components to be Built or Modified

| ID | Name | | Description | Service or Legacy Code | External Interface Name | External Interface ID | Internal Interface Name | Internal Interface ID | SDP Sections 1&2 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N/A | N/A | N/A | | N/A | N/A | N/A | N/A | N/A | NA/ |

Internal Data Stores

| ID | Name | Data Stored | Steward | Access |
| --- | --- | --- | --- | --- |
| N/A | N/A | N/A | N/A | N/A |

### Application Locations

The VistA CPRS application resides within the existing VistA systems and infrastructure servers. No change in this area is introduced.

Table : Application Locations

| Application Component | Description | Location at Which Component is Run | Type |
| --- | --- | --- | --- |
| N/A | N/A | N/A | N/A |

The VistA CPRS application users are shown below:

Table : Application Users

| Application Component | Location | User |
| --- | --- | --- |
| Computerized Patient Record System User Interface | VistA sites | Chief of Health Information Management (HIM) or equivalent and coding staff |

## Conceptual Data Design

This section is not applicable to this SDD.

### Project Conceptual Data Model

N/A

### Database Information

N/A

Table : Database Inventory

| Database Name | Description | Type | Steward |
| --- | --- | --- | --- |
| N/A | N/A | N/A | N/A |

### User Interface Data Mapping

There are no new user interfaces being created for this project. This project is making enhancements to existing user interfaces (menu options) within the CPRS application. The updates are described in the subsections below.

#### Application Screen Interface

The application screen interfaces are shown below.

##### Sign Orders Screen

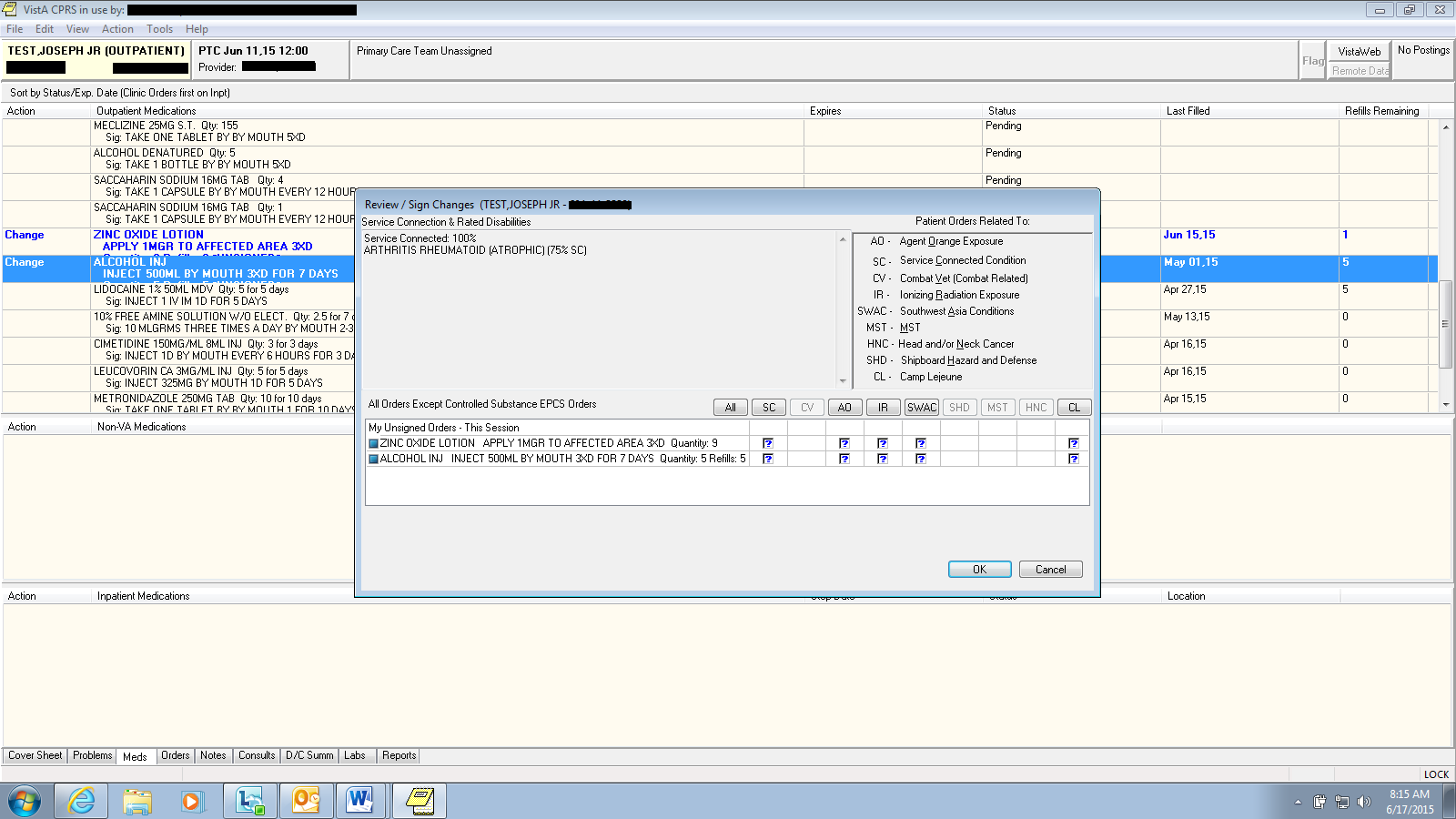


Figure : New Checkbox - Camp Lejeune Indicator on Sign Orders Screen

Table : Sign Orders Screen Description

| Graphical User Interface (GUI) Field | Table (Database Table that field connects to) | Field (Field in Table that the GUI field connects to) | Comments |
| --- | --- | --- | --- |
| Sign Orders Screen | Environmental Factors Table | New Check Box: CL- Camp Lejeune |  |

##### Encounter Form

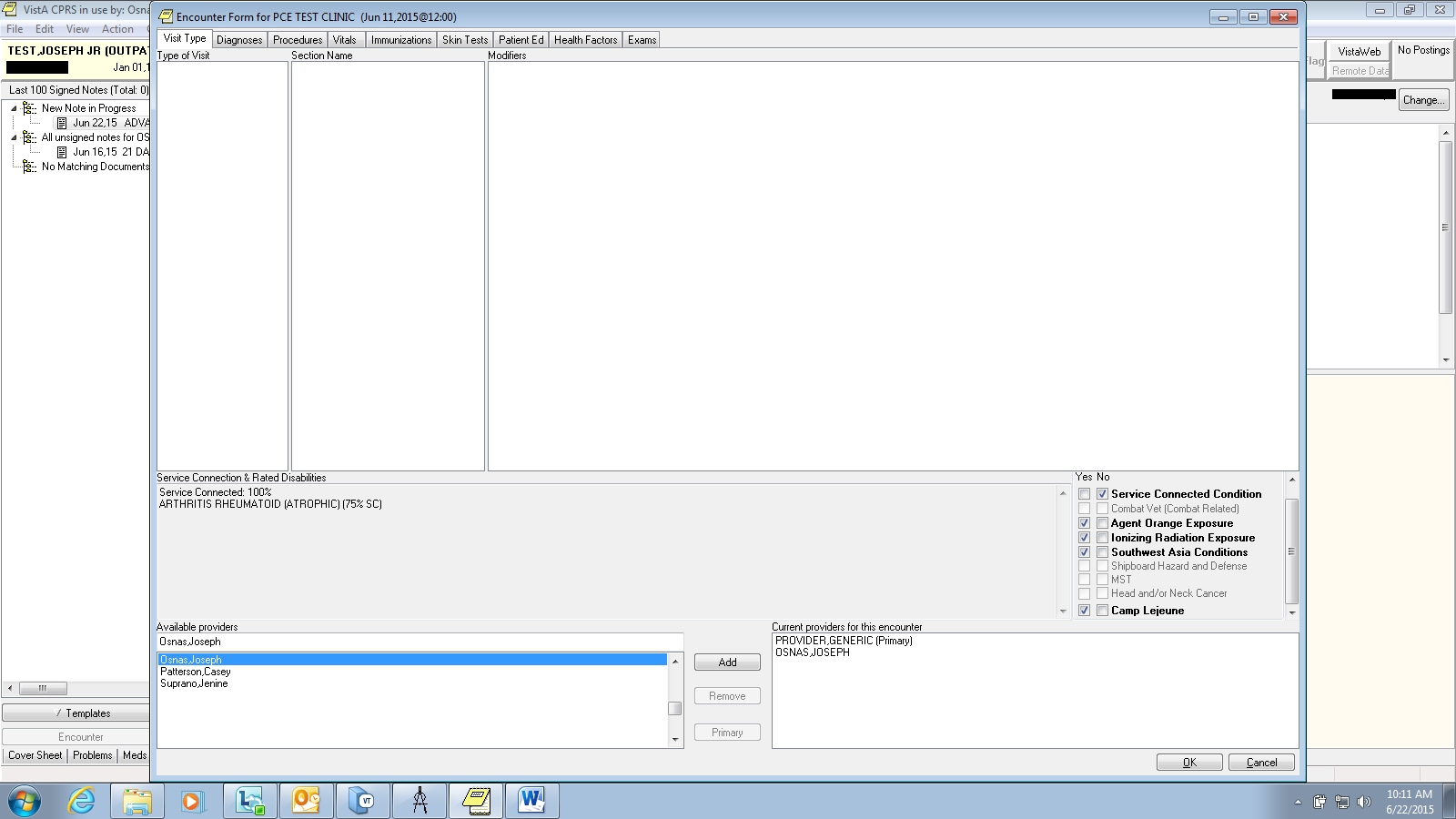


Figure : New Checkbox – Camp Lejeune Indicator on Encounter Form

Table : Encounter Form Screen Description

| Graphical User Interface (GUI) Field | Table (Database Table that field connects to) | Field (Field in Table that the GUI field connects to) | Comments |
| --- | --- | --- | --- |
| Sign Orders Screen | Environmental Factors Table | New Check Box: CL- Camp Lejeune |  |

#### Application Report Interface

The report interface updates to the CPRS application are shown below.

##### New Camp Lejeune Indicator on Outpatient Medication Details Screen

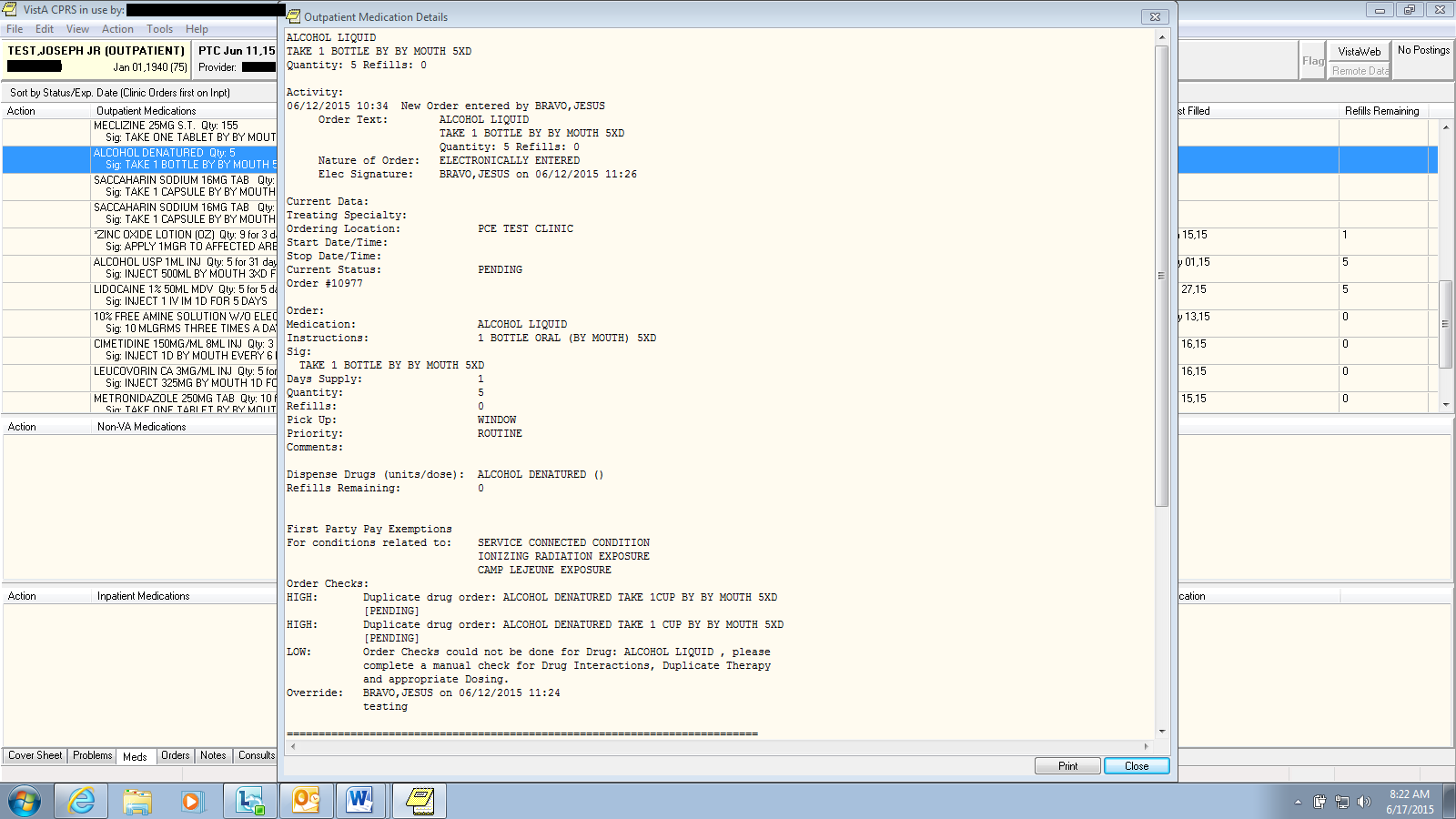


Figure : Outpatient Medical Detail Report

Table : Outpatient Medical Detail Report

| Report Column | Data Source |
| --- | --- |
| Conditions | Outpatient Classification Type.Name |

#### Unmapped Data Element

N/A

## Conceptual Infrastructure Design

There is no change in infrastructure for this release.

### System Criticality and High Availability

N/A

### Special Technology

N/A

Table : Special Technology Requirements

| Special Technology | Description | Notional Location | TRM Status |
| --- | --- | --- | --- |
| N/A | N/A | N/A | N/A |

### Technology Locations

The CPRS patch will be installed in each VA VistA instance by VA OI&T staff.

There are no specific components apart from VistA that the CPRS patch includes or adds. It is all legacy mainframe-based.

Table (Grouping): Technology Location Details

| Technology Component  Production 1 | Location | Usage |
| --- | --- | --- |
| Workstations | N/A | N/A |
| Special Hardware | N/A | N/A |
| Interface Processors | N/A | N/A |
| Legacy Mainframe | N/A | N/A |
| Legacy Application Server | N/A | N/A |
| Legacy Databases | N/A | N/A |
| Other | N/A | N/A |

| Technology Component  Production 2 | Location | Usage |
| --- | --- | --- |
| N/A | N/A | N/A |

| Technology Component  Certification | Location | Usage |
| --- | --- | --- |
| N/A | N/A | N/A |

| Technology Component  Education | Location | Usage |
| --- | --- | --- |
| N/A | N/A | N/A |

| Technology Component  Test | Location | Usage |
| --- | --- | --- |
| N/A | N/A | N/A |

| Technology Component  Development | Location | Usage |
| --- | --- | --- |
| N/A | N/A | N/A |

### Conceptual Infrastructure Diagram

No changes are being made to the infrastructure of the existing legacy VistA system.

#### Location of Environments and External Interfaces

The system will use existing locations and existing VistA technology.

#### Conceptual Production String Diagram

N/A

# System Architecture

There is no change in the System Architecture for this release.

## Hardware Architecture

There is no change in the Hardware Architecture for this release.

## Software Architecture

There is no change in the Software Architecture for this release.

## Network Architecture

There is no change in the Network Architecture for this release.

## Service Oriented Architecture / ESS

There is no change into the Service Oriented Architecture for this release.

## Enterprise Architecture

There is no change into the Enterprise Architecture for this release.

# Data Design

This section describes the data design (where applicable).

## DBMS Files

N/A

## Non-DBMS Files

N/A

## Data View

N/A

# Detailed Design

The CPRS patch has very little architectural impact on the overall VistA system, as it has similarities to other existing features such as Agent Orange, Shipboard Hazard and Defense (SHAD), etc., and uses similar design components to store and maintain.

## Hardware Detailed Design

There is no change in the Hardware for this release.

## Software Detailed Design

There is no change to the Software Detailed Design for this release.

### Conceptual Design

There is no change to the Conceptual Design for this release as all updates will adhere to the existing VistA design concepts, conventions, and guidelines.

#### Product Perspective

Existing CPRS software supports other environmental indicators such as Agent Orange and SHAD. The CL-V project uses the same business model and data structures to add the new functionality for tracking and utilizing the new Environmental Factor for CL-V.

##### User Interfaces

This project will modify existing CPRS user interfaces and users will continue to enter/edit data using these existing interfaces. For details of screen changes, refer to Table 12 of the CL-V Increment 4 VistA RSD, found on CL-V TSPR.

##### Hardware Interfaces

N/A

##### Software Interfaces

Table 12 lists the Integration Control Registrations (ICRs) applicable to this PTF patch.

Table : Applicable ICRs

| **ICR** | **Custodian** | **Usage** | **Description** | **New/Modified** |
| --- | --- | --- | --- | --- |
| 10061 | Registration | Supported | VADPT is a utility routine designed to provide a central point where a programmer can obtain information concerning a patient's record. Supported entry points are provided which will return demographics, inpatient status, eligibility information, etc. | Modified |

##### Communications Interfaces

N/A

##### Memory Constraints

The effects of the CL-V data on the dynamic memory and disk storage is insignificant compared to the existing overall dynamic memory and disk storage for the CPRS package. There are no memory constraints given the nature of the addition. It uses existing features such as Agent Orange, SHAD, etc.

##### Special Operations

The project does not introduce or impact any special operations required by the user such as backup, recovery, and archiving operations.

#### Product Features

The CPRS patch does not add any new features. It adds an additional environmental prompt to existing functionality on screens found under Requirement ID 2.6.11 in the CL-V Increment 4 VistA RSD, which is found on CL-V TSPR.

#### User Characteristics

Local Coordinators, Managers, and Clinicians or equivalent, who are responsible for and provide care to VA patients, will be the initial contact for the Veteran; they use the CPRS interface screens for setting environmental indicators such as Agent Orange, and perform all subsequent, related business processes.

#### Dependencies and Constraints

CL-V Increment 3 VistA Registration Eligibility and Enrollment (REE), in host file DG\_5\_3\_P909.KID containing patches DG\*5.3\*909 and IVM\*2.0\*161, must be in place so that Camp Lejeune eligibility can be displayed in the Registration application and help drive the related business processes.

Patient Care Encounter (PCE) patch PX\*1.0\*207 must be released and installed prior to PTF. PTF must be released and installed before Integrated Billing (IB) patch IB\*2.0\*544 and Scheduling/AmbCare Transmission patch SD\*5.3\*631, as those applications are dependent upon PTF. Refer to sections 2 and 3 of the CL-V Increment 4 VistA Installation, Back-out, and Rollback Guide*,* found on CL-V TSPR*,* for detailed system requirements, pre-installation, and installation instructions.

### Specific Requirements

For specific requirements, see section 2.6.11 in the CL-V Increment 4 VistA RSD, found on CL-V TSPR.

For an historical perspective, refer to the CL-V VistA Registration, Eligibility, and Enrollment (REE) Increment 3 System Design Document.

#### Database Repository

Database Repositories are related to relational databases which are not related to VistA. VistA relies on the Cache hierarchical database design.

#### System Features

The System Features are described in Section 2.6.11 of the CL-V Increment 4 VistA RSD, found on CL-V TSPR.

#### Design Element Tables

This section provides design element tables specifying the modifications to the CPRS software components.

##### Routines (Entry Points)

The second line of each routine listed in this section will be modified to include the patch number “407” in the patch list.

**Example:**

ORWPCE ; SLC/JM/REV - wrap calls to PCE and AICS ;09/18/14 12:36

;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*10,85,116,173,190,195,215,243,295

,280,306,361,385,398,**407**\*\*;Dec 17, 1997;Build 28

Table : ORWPCE Routine

| Routines | Activities | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | ORWPCE | | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | No Change | | |
| **RTM** | 2.6.11.1.1, 2.6.11.1.2.1, 2.6.11.1.2.2, 2.6.11.1.2.3, 2.6.11.2.4, 2.6.11.2.5, 2.6.11.2.6 | | | | | | | | |
| **Related Options** | N/A | | | | | | | | |
| Related Routines | Routines “Called By” | | | | | Routines “Called” | | | |
|  | NOTEVIT+2^ORQQVI  REQENC+21^ORRCTIU  CHKPCE+6^ORRCTIU  PCE4NOTE+34^ORWPCE3  PCE4NOTE+13^ORWPCE3 | | | | | %ZTLOAD  DSELECT^GMPLENFM  GETLST^IBDF18A  $$CODEBA^ICDEX  $$VLTD^ICDEX  $$CODM^ICPTCOD  $$MOD^ICPTMOD  LOOK^LEXA  CONFIG^LEXSET  $$CPTONE^LEXU  $$CPCONE^LEXU  $$IMPDATE^LEXU  $$ONE^LEXU  IMPDATE^LEXU  $$CLINUSER^ORQQPL1  DQDEL^ORWPCE1  DQSAVE^ORWPCE1  $$GETENC^PXAPI  $$VST2APPT^PXAPI  $$SVC^PXKCO  SCCOND^PXUTLSCC  DOCCNT^TIUSRVLV  $$VSTRBLD^TIUSRVP  ELIG^VADPT  $$RES^XUDHSET | | | |
| **Data Dictionary (DD) References** | ^DG(391  ^DIC(31  ^DPT(  ^SC(  ^TIU(8925  ^TMP("IB"  ^TMP("LEXFND”  ^TMP("LEXHIT"  ^TMP("LEXLE"  ^TMP("LEXSCH"  ^TMP("ORWPCE” | | | | | | | | |
| **Related Protocols** | CPRS, Notes, New Notes, Encounter screen | | | | | | | | |
| **Related Integration Control Registrations (ICRs)** | N/A | | | | | | | | |
| **Data Passing** | Input | Output Reference | | | Both | | | Global Reference | Local |
| **Input Attribute Name and Definition** | ^TMP("LEXFND",$J)  ^TMP("LEXSCH",$J)  ^TMP("IB",$J) | | | | | | | | |
| **Output Attribute Name and Definition** | ORX("CLV") | | | | | | | | |
| Current Logic | | | | | | | | | |
| ORWPCE ; SLC/JM/REV - wrap calls to PCE and AICS ;09/18/14 12:36  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*10,85,116,173,190,195,215,243,295  ,280,306,361,385,398\*\*;Dec 17, 1997;Build 16  SCSEL(VAL,DFN,ATM,LOC,VST) ; return SC conditions that may be selected  ; VAL=SCallow^SCdflt;AOallow^AOdflt;IRallow^IRdflt;ECallow^ECdflt;  ; MSTallow^MSTdflt;HNCallow^HNCdflt;CVAllow^CVDflt;SHADAllow^SHADDflt  N ORX,S S S=";"  D SCCOND^PXUTLSCC(DFN,ATM,LOC,$G(VST),.ORX)  S VAL=$G(ORX("SC"))\_S\_$G(ORX("AO"))\_S\_$G(ORX("IR"))\_S\_$G(ORX("EC"))\_S\_$G(ORX("MST"))\_S\_$G(ORX("HNC"))\_S\_$G(ORX("CV"))\_S\_$G(ORX("SHAD"))  Q | | | | | | | | | |
| **Modified Logic (Changes are in bold)** | | | | | | | | | |
| ORWPCE ; SLC/JM/REV - wrap calls to PCE and AICS ;09/18/14 12:36  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*10,85,116,173,190,195,215,243,295  ,280,306,361,385,398**,407**\*\*;Dec 17, 1997;Build 28  SCSEL(VAL,DFN,ATM,LOC,VST) ; return SC conditions that may be selected  ; VAL=SCallow^SCdflt;AOallow^AOdflt;IRallow^IRdflt;ECallow^ECdflt;  ; MSTallow^MSTdflt;HNCallow^HNCdflt;CVAllow^CVDflt;SHADAllow^SHADDflt;**CLVallow^CLVdflt ;OR\*3.0\*407**   N ORX,S S S=";"  D SCCOND^PXUTLSCC(DFN,ATM,LOC,$G(VST),.ORX)  S VAL=$G(ORX("SC"))\_S\_$G(ORX("AO"))\_S\_$G(ORX("IR"))\_S\_$G(ORX("EC"))\_S\_$G(ORX("MST"))\_S\_$G(ORX("HNC"))\_S\_$G(ORX("CV"))\_S\_$G(ORX("SHAD"))**\_S\_$G(ORX("CLV")) ;OR\*3.0\*407**  Q | | | | | | | | | |

Table : ORWPCE1 Routine

| Routines | Activities | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | ORWPCE1 | | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | | No Change | |
| **RTM** | 2.6.11.1.1, 2.6.11.1.2.1, 2.6.11.1.2.2, 2.6.11.1.2.3, 2.6.11.2.4, 2.6.11.2.5, 2.6.11.2.6 | | | | | | | | |
| **Related Options** | N/A | | | | | | | | |
| Related Routines | Routines “Called By” | | | | | Routines “Called” | | | |
|  | SAVE+6^ORWPCE  SAVE+11^ORWPCE  DELETE+9^ORWPCE  DELETE+12^ORWPCE | | | | | DSELECT^GMPLENFM  $$ICDDATA^ICDXCODE  $$CODEN^ICPTCOD  $$EXP^LEXCODE  $$IMPDATE^LEXU  $$CHKOUT^ORWPCE2  $$DATA2PCE^PXAPI  $$DELVFILE^PXAPI  FILE^TIUSRVP  $$NOW^XLFDT  $$PATCH^XPDUTL | | | |
| **Data Dictionary (DD) References** | ^DIC(9.4  ^SC  ^TMP("IB" | | | | | | | | |
| **Related Protocols** | N/A | | | | | | | | |
| **Related Integration Control Registrations (ICRs)** | N/A | | | | | | | | |
| **Data Passing** | Input | Output Reference | | | Both | | Global Reference | | Local |
| **Input Attribute Name and Definition** | N/A | | | | | | | | |
| **Output Attribute Name and Definition** | N/A | | | | | | | | |
| Current Logic | | | | | | | | | |
| ORWPCE1 ;ISL/KCM,JER - PCE Calls from CPRS GUI ;06/12/14 16:13  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*10,85,116,132,148,187,190,215,243  ,280,306,361\*\*;Dec 17, 1997;Build 39  . . ;prevents checkout!  . . I CODE="VC" S (SVCAT,@ROOT@("SERVICE CATEGORY"))=$P(X,U,3) Q  . . I CODE="SC" S @ROOT@("SC")=$P(X,U,3) Q  . . I CODE="AO" S @ROOT@("AO")=$P(X,U,3) Q  . . I CODE="IR" S @ROOT@("IR")=$P(X,U,3) Q  . . I CODE="EC" S @ROOT@("EC")=$P(X,U,3) Q  . . I CODE="MST" S @ROOT@("MST")=$P(X,U,3) Q  . . I CODE="HNC" S @ROOT@("HNC")=$P(X,U,3) Q  . . I CODE="CV" S @ROOT@("CV")=$P(X,U,3) Q  . . I CODE="SHD" S @ROOT@("SHAD")=$P(X,U,3) Q  . . I CODE="OL" D Q | | | | | | | | | |
| **Modified Logic (Changes are in bold)** | | | | | | | | | |
| ORWPCE1 ;ISL/KCM,JER - PCE Calls from CPRS GUI ;06/12/14 16:13  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*10,85,116,132,148,187,190,215,243  ,280,306,361**,407**\*\*;Dec 17, 1997;Build 28  . . ;prevents checkout!  . . I CODE="VC" S (SVCAT,@ROOT@("SERVICE CATEGORY"))=$P(X,U,3) Q  . . I CODE="SC" S @ROOT@("SC")=$P(X,U,3) Q  . . I CODE="AO" S @ROOT@("AO")=$P(X,U,3) Q  . . I CODE="IR" S @ROOT@("IR")=$P(X,U,3) Q  . . I CODE="EC" S @ROOT@("EC")=$P(X,U,3) Q  . . I CODE="MST" S @ROOT@("MST")=$P(X,U,3) Q  . . I CODE="HNC" S @ROOT@("HNC")=$P(X,U,3) Q  . . I CODE="CV" S @ROOT@("CV")=$P(X,U,3) Q  . . I CODE="SHD" S @ROOT@("SHAD")=$P(X,U,3) Q  **. . I CODE="CL" S @ROOT@("CLV")=$P(X,U,3) Q ;OR\*3.0\*407**  . . I CODE="OL" D Q | | | | | | | | | |

Table : OPWPCE3 Routine

| Routines | Activities | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | ORWPCE3 | | | | | | | | |
| **Enhancement Category** | New | | Modify | | Delete | | | No Change | |
| **RTM** | 2.6.11.1.1, 2.6.11.1.2.1, 2.6.11.1.2.2, 2.6.11.1.2.3, 2.6.11.2.4, 2.6.11.2.5, 2.6.11.2.6 | | | | | | | | |
| **Related Options** | N/A | | | | | | | | |
| Related Routines | Routines “Called By” | | | | | Routines “Called” | | | |
|  | REQENC+5^ORRCTIU  GETVSIT+15^ ORAMX1 | | | | | $$CODECS^ICDEX  $$CSI^ICDEX  $$SAB^ICDEX  $$ICDDATA^ICDXCODE  ICDDESC^ICDXCODE  $$CODEC^ICPTCOD  NOTEVSTR^ORWPCE  SCSEL^ORWPCE  $$GETENC^PXAPI  ENCEVENT^PXAPI  $$SENTENCE^XLFSTR  $$UP^XLFSTR | | | |
| **Data Dictionary (DD) References** | ^AUTNPOV  ^AUTTEDT(  ^AUTTEXAM(  ^AUTTHF(  ^AUTTIMM(  ^AUTTSK(  ^SC(  ^TIU(8925  ^TMP("ORWPCE"  ^TMP("PXKENC"  ^VA(200 | | | | | | | | |
| **Related Protocols** | N/A | | | | | | | | |
| **Related Integration Control Registrations (ICRs)** | N/A | | | | | | | | |
| **Data Passing** | Input | Output Reference | | Both | | | Global Reference | | Local |
| **Input Attribute Name and Definition** | Name: LST(1)=HDR^AllowEdit^CPTRequired^VStr^Author^hasCPT LST(n)=TYP+^CODE^CAT^NARR^QUAL1^QUAL2 (QUAL1=Primary!Qty, QUAL2=Prv)  Definition: Encounter data array | | | | | | | | |
| **Output Attribute Name and Definition** | Name: ;for provider ; LST(n)="PRV"^ien^^^name^primary/secondary flag  ;for immunization: ; LST(n)="IMM"^Code^^^Series^prv^Reaction^Contraindicated^Refused  ;for skin test:  ; LST(n)="SK"^Code^^^result^prv^reading^d/t read^d/t given  ;for patient education:  ; LST(n)="PED"^Code^^^level of understanding^prv  ;for health factors:  ; LST(n)="HF"^Code^^^level/severity^prv   ;for exam:  ; LST(n)="XAM"^Code^^^result^prv   ;for treatment:  ; LST(n)="TRT"^Code^CAT^NARR^QTY^prv  Definition: Encounter data for an associated note | | | | | | | | |
| Current Logic | | | | | | | | | |
| PATVEE Version (line tag PCE4NOTE) | | | | | | | | | |
| ORWPCE3 ; SLC/KCM/REV/JM/TC - Get a PCE encounter for a TIU document ;02/07/14  13:02  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*10,85,116,190,280,306,371,361,385  \*\*;Dec 17, 1997;Build 12  N VAL  D SCSEL^ORWPCE(.VAL,$P(X0,U,5),$P(X0,U),LOC,VISIT)  S ILST=ILST+1,LST(ILST)="VST^SC^"\_$P($P(VAL,";",1),U,2)  S ILST=ILST+1,LST(ILST)="VST^AO^"\_$P($P(VAL,";",2),U,2)  S ILST=ILST+1,LST(ILST)="VST^IR^"\_$P($P(VAL,";",3),U,2)  S ILST=ILST+1,LST(ILST)="VST^EC^"\_$P($P(VAL,";",4),U,2)  S ILST=ILST+1,LST(ILST)="VST^MST^"\_$P($P(VAL,";",5),U,2)  I $P(VAL,";",6)'="" D  .S ILST=ILST+1,LST(ILST)="VST^HNC^"\_$P($P(VAL,";",6),U,2)  I $P(VAL,";",7)'="" D  .S ILST=ILST+1,LST(ILST)="VST^CV^"\_$P($P(VAL,";",7),U,2)  ;for provider  ; LST(n)="PRV"^ien^^^name^primary/secondary flag | | | | | | | | | |
| **Modified Logic (Changes are in bold)** | | | | | | | | | |
| ORWPCE3 ; SLC/KCM/REV/JM/TC - Get a PCE encounter for a TIU document ;02/07/14  13:02  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*10,85,116,190,280,306,371,361,385  **,407**\*\*;Dec 17, 1997;Build 28  N VAL  D SCSEL^ORWPCE(.VAL,$P(X0,U,5),$P(X0,U),LOC,VISIT)  S ILST=ILST+1,LST(ILST)="VST^SC^"\_$P($P(VAL,";",1),U,2)  S ILST=ILST+1,LST(ILST)="VST^AO^"\_$P($P(VAL,";",2),U,2)  S ILST=ILST+1,LST(ILST)="VST^IR^"\_$P($P(VAL,";",3),U,2)  S ILST=ILST+1,LST(ILST)="VST^EC^"\_$P($P(VAL,";",4),U,2)  S ILST=ILST+1,LST(ILST)="VST^MST^"\_$P($P(VAL,";",5),U,2)  I $P(VAL,";",6)'="" D  .S ILST=ILST+1,LST(ILST)="VST^HNC^"\_$P($P(VAL,";",6),U,2)  I $P(VAL,";",7)'="" D  .S ILST=ILST+1,LST(ILST)="VST^CV^"\_$P($P(VAL,";",7),U,2)  **; OR\*3.0\*407**  **I $P(VAL,";",9)'="" D**  **.S ILST=ILST+1,LST(ILST)="VST^CLV^"\_$P($P(VAL,";",9),U,2)**  ;for provider  ; LST(n)="PRV"^ien^^^name^primary/secondary flag | | | | | | | | | |

Table : ORWDBA1 Routine

| Routines | Activities | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | ORWDBA1 | | | | | | | | |
| **Enhancement Category** | New | Modify | | Delete | | | No Change | | |
| **RTM** | 2.6.11.2.3.1, 2.6.11.2.3.2, 2.6.11.2.3.3 | | | | | | | | |
| **Related Options** | N/A | | | | | | | | |
| Related Routines | Routines “Called By” | | | | | Routines “Called” | | | |
|  | LISTU+5^ORWDBA18  DISPLAY+34^ORWDBA3  DG1+9^ORWDBA3  ZCL+3^ORWDBA3  BDOSTR+27^ORWDBA3  BDOSTR+33^ORWDBA3  BDOSTR+58^ORWDBA3  GTF+22^ORWDBA4  GTF+35^ORWDBA4  BDOEDIT+19^ORWDBA7  TFGBLTBL+10^ORWDBA7 | | | | | NOW^%DTC  $$CIDC^IBBAPI  $$ICDDATA^ICDXCODE  $$ORFMDAT^ORWDBA3  $$CHKPS1^ORWDBA5  CL^SDCO21  $$DT^XLFDT  $$GET^XPAR | | | |
| **Data Dictionary (DD) References** | ^DIC(9.4  ^OR(100  ^ORD(101.43  ^VA(200  ^XPD(9.7  ^XUSEC("ORES"  ^XUSEC("PROVIDER" | | | | | | | | |
| **Related Protocols** | CPRS GUI:   * + Sign Orders Pop Up screen (for Outpatient Medication Orders)   + Encounter Form (Visit Related)     - Surgery Tab     - Discharge Summary Tab     - Consults Tab     - Notes Tab     - Problem List Screen | | | | | | | | |
| **Related Integration Control Registrations (ICRs)** | N/A | | | | | | | | |
| **Data Passing** | Input | | Output Reference | | Both | | | Global Reference | Local |
| **Input Attribute Name and Definition** | ORIEN  Order Internal ID# | | | | | | | | |
| **Output Attribute Name and Definition** | Y  Array of Diagnoses (Dx) - Y(#)=#^DxInt#^ICD9^DxDesc^TxF | | | | | | | | |
| Current Logic | | | | | | | | | |
| ORWDBA1 ; SLC OIFO/DKK/GSS - Order Dialogs Billing Awareness ;12/04/12 09:39  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*190,195,229,215,243,361\*\*;Dec 17,  1997;Build 39  ;  ; External References  ; DBIA 406 CL^SDCO21 - call to determine Treatment Factors  ;  ;Ref to ^DIC(9.4 - DBIA \_\_\_  ;BA refers to Billing Awareness Project  ;CIDC refers to Clinical Indicator Data Capture (same project 3/10/2004  )  ;Treatment Factors (TxF) refer to SC,AO,IR,EC,MST,HNC,CV,SHD  ;  SCPRE(DR,DFN) ; Dialog validation, to ask BA questions  ;  ; DR = return value  ; DFN = input patient IEN  ;  Q:$G(DFN)=""  N CPNODE,CT,I,ORX,ORSDCARY,TF,X  K ORSDCARY  S (CPNODE,DR,ORX,TF)="",CT=0,X="T"  ; Call API to acquire Treatment Factors in force  D NOW^%DTC,CL^SDCO21(DFN,%,"",.ORSDCARY) ;DBIA 406  ; Retrved array order: AO,IR,SC,EC,MST,HNC,CV,SHD e.g., ORSDCARY(3) for  SC  ; Convert to ^OR/CPRS GUI order: SC,MST,AO,IR,EC,HNC,CV,SHD  F I=3,5,1,2,4,6,7,8 S TF=0,CT=CT+1 S:$D(ORSDCARY(I)) TF=1 S $P(CPNODE,U  ,CT)=TF  ;  S X=$S($P(CPNODE,U)=1:"SC",1:""),DR=$S($L(X):DR\_U\_X,1:DR)  S X=$S($P(CPNODE,U,2)=1:"MST",1:""),DR=$S($L(X):DR\_U\_X,1:DR)  S X=$S($P(CPNODE,U,3)=1:"AO",1:""),DR=$S($L(X):DR\_U\_X,1:DR)  S X=$S($P(CPNODE,U,4)=1:"IR",1:""),DR=$S($L(X):DR\_U\_X,1:DR)  S X=$S($P(CPNODE,U,5)=1:"EC",1:""),DR=$S($L(X):DR\_U\_X,1:DR)  S X=$S($P(CPNODE,U,6)=1:"HNC",1:""),DR=$S($L(X):DR\_U\_X,1:DR)  S X=$S($P(CPNODE,U,7)=1:"CV",1:""),DR=$S($L(X):DR\_U\_X,1:DR)  S X=$S($P(CPNODE,U,8)=1:"SHD",1:""),DR=$S($L(X):DR\_U\_X,1:DR)  ;  ; TxF's for patient (TxF's include SC,AO,IR,EC,MST,HNC,CV,SHD) where  ; SC = Service Connected  ; AO = Agent Orange  ; IR = Ionizing Radiation  ; EC = Environmental Contaminants  ; MST = Military Sexual Trauma  ; HNC = Head and Neck Cancer  ; CV = Combat Veteran  ; SHD = Shipboard Disability  F I="SC","AO","IR","EC","MST","HNC","CV","SHD" D  . I $D(ORX(I)) S DR=DR\_U\_I\_$S($L(ORX(I)):";"\_ORX(I),1:"")  Q  ;  RCVORCI(Y,DIAG) ;Receive order related Clinical Indicators & Diagnoses from GUI  ; Store data in ^OR(100,ODN,5.1) & ^OR(100,0DN,5.2)  ;  N DXIEN,ODN,ORIEN,SCI,OCDXCT,OCT  S ODN="",OCDXCT=0,Y=""  F S ODN=$O(DIAG(ODN)) Q:ODN="" D  . S ORIEN=$P(DIAG(ODN),";",1) ;Order IEN  . I ORIEN'?1N.N S Y=0 Q  . K ^OR(100,ORIEN,5.1) ;Clear currently stored diagnosis for rewrite  . ; Data from Delphi format: ORIEN;11CNNNCNN^exDx1^exDx2^exDx3^exDx4  . ; Convert 8 Tx Factors  . S SCI=$$TFGUIGBL($RE($E($RE($P(DIAG(ODN),U)),1,8)))  . S ^OR(100,ORIEN,5.2)=SCI ;Store TFs (SC,MST,AO,IR,EC,HNC,CV,SHD)  . ; Get order date for CSV/CTD/HIPAA  . S ORFMDAT=$$ORFMDAT^ORWDBA3(ORIEN)  TFSTGS ; Set Treatment Factor strings sequence order  ; TFGBL is order of TxFs in ^OR(100,ORIEN,5) & ^OR(100,ORIEN,5.2)  ; TFGUI is order of TxFs to/from GUI  ; TFTBL is order of TxFs for table SD008 (used in ZCL segment)  ; NOTE: change examples in TFGUIGBL and TFGBLGUI if order changed  S TFGBL="SC^MST^AO^IR^EC^HNC^CV^SHD"  S TFGUI="SC^AO^IR^EC^MST^HNC^CV^SHD"  S TFTBL="AO^IR^SC^EC^MST^HNC^CV^SHD"  Q  TFGUIGBL(GUI) ;Convert Treatment Factors from GUI to Global order & format  ;  ; Input: GUI in CNU?NCU: C=checked, N=not checked, U=unchecked  ; Output: GBL in 1^^^0^?^1^0^ (global) format (reordered for storage)  ;  N GBL,J,NTF,TF,TFGBL,TFGUI,TFTBL  S GBL="",NTF=8 ;NTF=# of Treatment Factors (TxF)  ;I $L(GUI)'=NTF Q -1 ;invalid # of TxF  ; Get Treatment Factor sequence order strings  D TFSTGS  ; Convert from GBL to GUI format and sequence  F J=1:1:NTF S TF=$E(GUI,J) D  . S TF($P(TFGUI,U,J))=$S(TF="C":1,TF="U":0,TF="?":"?",1:"")  F J=1:1:NTF S GBL=GBL\_U\_TF($P(TFGBL,U,J))  Q $P(GBL,U,2,NTF+1)  ;  TFGBLGUI(GBL) ;Convert Treatment Factors from Global to GUI order & format  ;  ; Input: GBL in 1^0^1^1^^0^?^ (global) format  ; Output: GUI in CCCNUU? (GUI) format (also reordered)  ;  N GUI,J,NTF,TF,TFGBL,TFGUI,TFTBL  S GUI="",NTF=8 ;NCI=# of TxF  ; Get Treatment Factor sequence order strings  D TFSTGS  ; Convert from GUI to GBL format and sequence  F J=1:1:NTF S TF=$P(GBL,U,J) D  . S TF($P(TFGBL,U,J))=$S(TF=1:"C",TF=0:"U",TF="?":"?",1:"N")  F J=1:1:NTF S GUI=GUI\_TF($P(TFGUI,U,J))  Q GUI  ; | | | | | | | | | |
| **Modified Logic (Changes are in bold)** | | | | | | | | | |
| ORWDBA1 ; SLC OIFO/DKK/GSS - Order Dialogs Billing Awareness ;12/04/12 09:39  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*190,195,229,215,243,361**,407**\*\*;Dec  17, 1997;Build 28  ;  ; External References  ; DBIA 406 CL^SDCO21 - call to determine Treatment Factors  ;  ;Ref to ^DIC(9.4 - DBIA \_\_\_  ;BA refers to Billing Awareness Project  ;CIDC refers to Clinical Indicator Data Capture (same project 3/10/2004  )  ;Treatment Factors (TxF) refer to SC,AO,IR,EC,MST,HNC,CV,SHD**,CL ;**  **OR\*3.0\*407 CLV**  ;  SCPRE(DR,DFN) ; Dialog validation, to ask BA questions  ;  ; DR = return value  ; DFN = input patient IEN  ;  Q:$G(DFN)=""  N CPNODE,CT,I,ORX,ORSDCARY,TF,X  K ORSDCARY  S (CPNODE,DR,ORX,TF)="",CT=0,X="T"  ; Call API to acquire Treatment Factors in force  D NOW^%DTC,CL^SDCO21(DFN,%,"",.ORSDCARY) ;DBIA 406  ; Retrved array order: AO,IR,SC,EC,MST,HNC,CV,SHD**,CL** e.g., ORSDCARY(3)  for SC **;OR\*3.0\*407 CLV**  ; Convert to ^OR/CPRS GUI order: SC,MST,AO,IR,EC,HNC,CV,SHD**,CL**  **;OR\*3.0\*407 CLV**  F I=3,5,1,2,4,6,7,8**,9** S TF=0,CT=CT+1 S:$D(ORSDCARY(I)) TF=1 S $P(CPNODE  ,U,CT)=TF **;OR\*3.0\*407**  ;  S X=$S($P(CPNODE,U)=1:"SC",1:""),DR=$S($L(X):DR\_U\_X,1:DR)  S X=$S($P(CPNODE,U,2)=1:"MST",1:""),DR=$S($L(X):DR\_U\_X,1:DR)  S X=$S($P(CPNODE,U,3)=1:"AO",1:""),DR=$S($L(X):DR\_U\_X,1:DR)  S X=$S($P(CPNODE,U,4)=1:"IR",1:""),DR=$S($L(X):DR\_U\_X,1:DR)  S X=$S($P(CPNODE,U,5)=1:"EC",1:""),DR=$S($L(X):DR\_U\_X,1:DR)  S X=$S($P(CPNODE,U,6)=1:"HNC",1:""),DR=$S($L(X):DR\_U\_X,1:DR)  S X=$S($P(CPNODE,U,7)=1:"CV",1:""),DR=$S($L(X):DR\_U\_X,1:DR)  S X=$S($P(CPNODE,U,8)=1:"SHD",1:""),DR=$S($L(X):DR\_U\_X,1:DR)  **S X=$S($P(CPNODE,U,9)=1:"CL",1:""),DR=$S($L(X):DR\_U\_X,1:DR)**  **;OR\*3.0\*407 CLV**  ;  ; TxF's for patient (TxF's include SC,AO,IR,EC,MST,HNC,CV,SHD**,CL**) where  **; CLV**  ; SC = Service Connected  ; AO = Agent Orange  ; IR = Ionizing Radiation  ; EC = Environmental Contaminants  ; MST = Military Sexual Trauma  ; HNC = Head and Neck Cancer  ; CV = Combat Veteran  ; SHD = Shipboard Disability  **; CL = Camp Lejeune**  **;OR\*3.0\*407 CLV**  F I="SC","AO","IR","EC","MST","HNC","CV","SHD"**,"CL"** D  **;OR\*3.0\*407 CLV**  . I $D(ORX(I)) S DR=DR\_U\_I\_$S($L(ORX(I)):";"\_ORX(I),1:"")  Q  ;  RCVORCI(Y,DIAG) ;Receive order related Clinical Indicators & Diagnoses from GUI  ; Store data in ^OR(100,ODN,5.1) & ^OR(100,0DN,5.2)  ;  N DXIEN,ODN,ORIEN,SCI,OCDXCT,OCT  S ODN="",OCDXCT=0,Y=""  F S ODN=$O(DIAG(ODN)) Q:ODN="" D  . S ORIEN=$P(DIAG(ODN),";",1) ;Order IEN  . I ORIEN'?1N.N S Y=0 Q  . K ^OR(100,ORIEN,5.1) ;Clear currently stored diagnosis for rewrite  . ; Data from Delphi format: ORIEN;11CNNNCNN^exDx1^exDx2^exDx3^exDx4  . ; Convert **9** Tx Factors  . S SCI=$$TFGUIGBL($RE($E($RE($P(DIAG(ODN),U)),1,**9**)))  **;OR\*3.0\*407**  . S ^OR(100,ORIEN,5.2)=SCI ;Store TFs (SC,MST,AO,IR,EC,HNC,CV,SHD**,CL**)  **;OR\*3.0\*407 CLV**  . ; Get order date for CSV/CTD/HIPAA  . S ORFMDAT=$$ORFMDAT^ORWDBA3(ORIEN)  ;  TFSTGS ; Set Treatment Factor strings sequence order  ; TFGBL is order of TxFs in ^OR(100,ORIEN,5) & ^OR(100,ORIEN,5.2)  ; TFGUI is order of TxFs to/from GUI  ; TFTBL is order of TxFs for table SD008 (used in ZCL segment)  ; NOTE: change examples in TFGUIGBL and TFGBLGUI if order changed  S TFGBL="SC^MST^AO^IR^EC^HNC^CV^SHD**^CL**"  **;OR\*3.0\*407 CLV**  S TFGUI="SC^AO^IR^EC^MST^HNC^CV^SHD**^CL**"  **;OR\*3.0\*407 CLV**  S TFTBL="AO^IR^SC^EC^MST^HNC^CV^SHD**^CL**"  **;OR\*3.0\*407 CLV**  Q  TFGUIGBL(GUI) ;Convert Treatment Factors from GUI to Global order & format  ;  ; Input: GUI in CNU?NCU: C=checked, N=not checked, U=unchecked  ; Output: GBL in 1^^^0^?^1^0^^ (global) format (reordered for storage)  **;OR\*3.0\*407**  ;  N GBL,J,NTF,TF,TFGBL,TFGUI,TFTBL  S GBL="",NTF=**9** ;NTF=# of Treatment Factors (TxF)  **;OR\*3.0\*407**  ;I $L(GUI)'=NTF Q -1 ;invalid # of TxF  ; Get Treatment Factor sequence order strings  D TFSTGS  ; Convert from GBL to GUI format and sequence  F J=1:1:NTF S TF=$E(GUI,J) D  . S TF($P(TFGUI,U,J))=$S(TF="C":1,TF="U":0,TF="?":"?",1:"")  F J=1:1:NTF S GBL=GBL\_U\_TF($P(TFGBL,U,J))  Q $P(GBL,U,2,NTF+1)  ;  TFGBLGUI(GBL) ;Convert Treatment Factors from Global to GUI order & format  ;  ; Input: GBL in 1^0^1^1^^0^?^^ (global) format  **;OR\*3.0\*407**  ; Output: GUI in CCCNUU? (GUI) format (also reordered)  ;  N GUI,J,NTF,TF,TFGBL,TFGUI,TFTBL  S GUI="",NTF=**9** ;NCI=# of TxF  **;OR\*3.0\*407**  ; Get Treatment Factor sequence order strings  D TFSTGS  ; Convert from GUI to GBL format and sequence  F J=1:1:NTF S TF=$P(GBL,U,J) D  . S TF($P(TFGBL,U,J))=$S(TF=1:"C",TF=0:"U",TF="?":"?",1:"N")  F J=1:1:NTF S GUI=GUI\_TF($P(TFGUI,U,J))  Q GUI  ; | | | | | | | | | |

Table : ORWDBA3 Routine

| Routines | Activities | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | ORWDBA3 | | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | No Change | | |
| **RTM** | 2.6.11.2.3.1, 2.6.11.2.3.2, 2.6.11.2.3.3 | | | | | | | | |
| **Related Options** | N/A | | | | | | | | |
| Related Routines | Routines “Called By” | | | | Routines “Called” | | | | |
|  | CS1+5^ORMBLDGM  CH+14^ORMBLDLR  UD3+8^ORMBLDPS  IV1+16^ORMBLDPS  EN+21^ORMBLDRA  SN1+3^ORMGMRC  SNQ+3^ORMLR  SN1+2^ORMPS  SNQ+3^ORMRA  BA+4^ORQ21  GETORDX+20^ORWDBA1  RCVORCI+14^ORWDBA1  CONDTLD+6^ORWDBA7  VERTXT+30^ORWDXM2 | | | | NOW^%DTC  $$ICDDATA^ICDXCODE  $$BASTAT^ORWDBA1  RCVORCI^ORWDBA1  TFSTGS^ORWDBA1  GETTFCI^ORWDBA4  CL^SDCO21 | | | | |
| **Data Dictionary (DD) References** | ^OR(100  ^DIC(9.2 | | | | | | | | |
| **Related Protocols** | N/A | | | | | | | | |
| **Related Integration Control Registrations (ICRs)** | N/A | | | | | | | | |
| **Data Passing** | Input | Output Reference | | | | Both | | Global Reference | Local |
| **Input Attribute Name and Definition** | Name: ORIT, ILST, and LST()  Definition:   ILST = line counter, initially from ORWDXM\* routines  LST() = array of lines to output, initially from ORWDXM\* routines | | | | | | | | |
| **Output Attribute Name and Definition** | Name: ILST and LST()  Definition: Appropriately incremented/populated for order display    Variables:  CUN = TxF's in C, U, or N format  I = counter  NTF = # of Treatment Factors  ORITARY = ORIT array of 1 needed to access GETTFCI^ORWDBA4  SPCS = # of characters to space to left of ':'  TF1 = first TxF output (0/1)  TFGBL = TxF's in Global stored order  TFGUI = TxF's in GUI returned order  TFV = TxF verbiage | | | | | | | | |
| Current Logic | | | | | | | | | |
| ORWDBA3 ; SLC/GSS Billing Awareness (CIDC) [8/20/03 9:19am] ;05/23/12 10:36  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*190,195,243,361\*\*;Dec 17, 1997;Bu  ild 39   ; Verbiage for TxF's  S TFV("MST")="MILITARY SEXUAL TRAUMA",TFV("AO")="AGENT ORANGE"  S TFV("IR")="IONIZING RADIATION",TFV("EC")="ENVIRONMENTAL CONTAMINANTS"  S TFV("HNC")="HEAD AND NECK CANCER",TFV("CV")="COMBAT VETERAN"  S TFV("SHD")="SHIPBOARD HAZARD"  ; Output Checked TxF's   S TFS="SC^MST^AO^IR^EC^HNC^CV^SHD",CT=0  ZCL ;create all the ZCL segments (currently 8 TxF's) for order number OCT  ;  N I,J,TABLE,TF,TFGBL,TFGUI,TFTBL,TFIN,TFS,VALUE  D TFSTGS^ORWDBA1 ;set string sequence of treatment factors  ; TFS is TxF data in ^OR(100,ORIEN,5.2) order  S TFS=$G(^OR(100,ORDFN,5.2)),TABLE=""   ; conversion order from ^OR stored data and Table SD008 for HL7 msg  ; convert so that the ZCL segments will be in Table SD008 order (1-8)  F I=1:1:8 S TF=$P(TFTBL,U,I) F J=1:1:8 I $P(TFGBL,U,J)=TF S TABLE=TABLE\_J Q  F TFIN=1:1:8 D  . ; ORMSG counter incremented  D TFSTGS^ORWDBA1 ;set string sequence of treatment factors  S (CT,NDX,OBX)=0,NTF=8,(CPNODE,GUITF,TF,Y,ZCL)="",X="T"  ; Call API to acquire Treatment Factors in force  D NOW^%DTC,CL^SDCO21(DFN,%,"",.ORSDCARY) ;DBIA 406  ; Retrved array order: AO,IR,SC,EC,MST,HNC,CV,SHD, e.g., ORSDCARY(3) fo  r SC  ; Convert to character array, e.g., SDCARYA("SC")=""  F I=1:1:NTF S:$D(ORSDCARY(I)) SDCARYA($P("AO^IR^SC^EC^MST^HNC^CV^SHD",U  ,I))=""  ; Process only four DG1 segments and first set of ZCL segments | | | | | | | | | |
| **Modified Logic (Changes are in bold)** | | | | | | | | | |
| ORWDBA3 ; SLC/GSS Billing Awareness (CIDC) [8/20/03 9:19am] ;05/23/12 10:36  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*190,195,243,361**,407**\*\*;Dec 17, 199  7;Build 28   ; Verbiage for TxF's  S TFV("MST")="MILITARY SEXUAL TRAUMA",TFV("AO")="AGENT ORANGE"  S TFV("IR")="IONIZING RADIATION",TFV("EC")="ENVIRONMENTAL CONTAMINANTS"  S TFV("HNC")="HEAD AND NECK CANCER",TFV("CV")="COMBAT VETERAN"  S TFV("SHD")="SHIPBOARD HAZARD",**TFV("CLV")="CAMP LEJEUNE"**        **; OR\*3.0\*407**   ;  S TFS="SC^MST^AO^IR^EC^HNC^CV^SHD**^CLV**",CT=0 **;OR\*3.0\*407**  ZCL ;create all the ZCL segments (currently **9** TxF's) for order number OCT  ;  N I,J,TABLE,TF,TFGBL,TFGUI,TFTBL,TFIN,TFS,VALUE  D TFSTGS^ORWDBA1 ;set string sequence of treatment factors  ; TFS is TxF data in ^OR(100,ORIEN,5.2) order  S TFS=$G(^OR(100,ORDFN,5.2)),TABLE=""  ; conversion order from ^OR stored data and Table SD008 for HL7 msg  ; convert so that the ZCL segments will be in Table SD008 order (1-8)  F I=1:1:**9** S TF=$P(TFTBL,U,I) F J=1:1:9 I $P(TFGBL,U,J)=TF S TABLE=TABLE\_J **Q      ; OR\*3.0\*407**  F TFIN=1:1:**9** D  . ; ORMSG counter incremented  D TFSTGS^ORWDBA1 ;set string sequence of treatment factors  S (CT,NDX,OBX)=0,NTF=**9**,(CPNODE,GUITF,TF,Y,ZCL)="",X="T**" ; OR**  **\*3.0\*407**  ; Call API to acquire Treatment Factors in force  D NOW^%DTC,CL^SDCO21(DFN,%,"",.ORSDCARY) ;DBIA 406  ; Retrved array order: AO,IR,SC,EC,MST,HNC,CV,SHD**,CL** e.g., ORSDCARY(3)  for SC **; OR\*3.0\*407 CLV**  ; Convert to character array, e.g., SDCARYA("SC")=""  F I=1:1:NTF S:$D(ORSDCARY(I)) SDCARYA($P("AO^IR^SC^EC^MST^HNC^CV^SHD**^CL**  ",U,I))="" **; OR\*3.0\*407 CLV**  Process only four DG1 segments and first set of ZCL segments | | | | | | | | | |

Table : ORCSAVE2 Routine

| Routines | Activities | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | ORCSAVE2 | | | | | | | | |
| **Enhancement Category** | New | Modify | | Delete | | | | No Change | |
| **RTM** | 2.6.11.2.3.1, 2.6.11.2.3.2, 2.6.11.2.3.3, 2.6.11.2.4 | | | | | | | | |
| **Related Options** | N/A | | | | | | | | |
| Related Routines | Routines “Called By” | | | | | Routines “Called” | | | |
|  | NEW+5^EDPFMON  START+3^EDPFMON  MED+22^EDPHIST  ESTEST+4^LR7OF5  GETTEST+4^LR7OU1  Q17+30^LRHYPH2  EN+27^LRJPON  OPIOID+13^OCXOZ11  OPIOID+13^OCXOZ2U  EXPIR+97^ORB3TIM2  LABTHR+23^ORB3U2  CP1+3^ORCACT1  UNREL+11^ORCACT2  UNREL+13^ORCACT2  CLRDLY+5^ORCACT2  MEALTIME+3^ORCDFHO  DATE+2^ORCDLG  DATE+3^ORCDLG  MULT+2^ORCDLR  MULT+4^ORCDLR  MULT+5^ORCDLR  VALID+3^ORCDLR1  VALID+4^ORCDLR1  VALID+15^ORCDLR1  KIDS+21^ORCDLR2  SC+9^ORCDPS3  DELAY+6^ORCHECK  BLD+19^ORCHECK  START+6^ORCHECK  START+7^ORCHECK  IV+4^ORCHECK  OC2+3^ORCMENU1  EN+8^ORCSEND  EN1+9^ ORCSEND  EN1+12^ ORCSEND  EN1+14^ORCSEND  EN2+9^ORCSEND  RN+7^ORCSEND  RN+13^ORCSEND DC+7^ORCSEND  DC1+3^ORCSEND  DC1+6^ORCSEND  CANCEL+2^ORCSEND  HD+3^ORCSEND  RL+3^ORCSEND  VR+3^ORCSEND NOSIG+1^ORCSEND READY+11^ORCSEND  READY+13^ORCSEND  LR+5^ORCSEND1  LR1+10^ORCSEND1  LR1+14^ORCSEND1  PSS+13^ORCSEND1  PSS+13^ORCSEND1  EN1+10^ORCSEND2  EN1+11^ORCSEND2  EN1+14^ORCSEND2  EN1+15^ORCSEND2  START+4^ORCSEND2  START+6^ORCSEND2  LT1+10^ORCSEND2  LT1+11^ORCSEND2  LT1+15^ORCSEND2  CANCEL+7^ORCSEND2  CHILD+2^ORCSEND3  CHILD+3^ORCSEND3  CHILD+9^ORCSEND3  CHILD+12^ORCSEND3  PSJI+18^ORCSEND3  PSJI1+26^ORCSEND3  A+28^ORELR2  A+30^ORELR2  A+32^ORELR2  A+36^ORELR2  A+37^ORELR2  A+40^ORELR2  A+42^ORELR2  A+43^ORELR2  A+53^ORELR2  A+54^ORELR2  A+57^ORELR2  DC+8^ORELR3  DAD+10^ORELR3  STATUS+17^ORELR5  LP1+5-7^OREVNTX  DUP2+7^ORKLR  MAXFREQ2+7^ORKLR2  DAILY2+7^ORKLR2  CHKSESS+48^ORKPS  NEW+1^ORMBLD  IP+4^ORMBLD  PS+4^ORMBLD  PS+5^ORMBLD  PS+6^ORMBLD  DATES+3^ORMBLDFH IP+1^ORMBLDFH  EN+5^ORMBLDOR  IV+8^ORMBLDPS  NW+12^ORMBLDVB  COMP+4^ORMEVNT  EXP+10^ORMEVNT1  ACT+9^ORMEVNT1  PUR+4^ORMEVNT1  PUR+7^ORMEVNT1  DISCH+11^ORMEVNT2  DISCH+13^ORMEVNT2  ZP+2^ORMFH  ZR+1^ORMFH  OK+4^ORMFH  SN1+3^ORMFH  SN1+4^ORMFH  SN1+5^ORMFH  SR+2^ORMFH  SR+4^ORMFH  CR+1^ORMFH  DR+1^ORMFH1  UA+3^ORMFH1  UPDATE+1^ORMFH1  UPDATE+2^ORMFH1  UPDATE+6^ORMFH1  UPDATE+7^ORMFH1  XX1+7^ORMFH1  XX1+8^ORMFH1  XX1+11^ORMFH1  ZP+2^ORMGMRC  ZR+1^ORMGMRC  OK+2^ORMGMRC  OK+3^ORMGMRC  XX+8^ORMGMRC  XX+10^ORMGMRC  XX+13^ORMGMRC  SN1+4^ORMGMRC  SN1+5^ORMGMRC  SN1+6^ORMGMRC  SC+1^ORMGMRC  RE+2^ORMGMRC  OC+3^ORMGMRC  OD+2^ORMGMRC  DR+1^ORMGMRC  UPDATE+5^ORMGMRC  UPDATE+6^ORMGMRC  OK+2^ORMLR  SNQ+4^ORMLR  SNQ+5^ORMLR  SNQ+6^ORMLR  XR+3^ORMLR  XR+4^ORMLR  ZP+2^ORMLR  ZR+1^ORMLR  SC+1^ORMLR  SC+2^ORMLR  RE+2^ORMLR  CR+1^ORMLR  UX+3^ORMLR  UPDATE+2^ORMLR  UPDATE+3^ORMLR  UPDATE+7^ORMLR  UPDATE+8^ORMLR  XX2+7-9^ORMLR1  NW+4^ORMORG  NW+5^ORMORG  NW+6^ORMORG  NW+14^ORMORG  NW+15^ORMORG  DC+1^ORMORG  HD+1^ORMORG  RL+4^ORMORG  ZV+8^ORMPS  ZP+2^ORMPS  ZR+1^ORMPS  XR+1^ORMPS  OK+2^ORMPS  ZC1+6^ORMPS  SN2^ORMPS  SN2+1^ORMPS  SN2+2^ORMPS  SN2+5^ORMPS  SC+17^ORMPS  SC+18^ORMPS  UX+4^ORMPS  CR+2^ORMPS  DR+2^ORMPS  HR+1^ORMPS  OR+1^ORMPS  OR+2^ORMPS  UPDATE+1^ORMPS  UPDATE+2^ORMPS  UDPATE+6^ORMPS  UPDATE+7^ORMPS  RO1+4^ORMPS2  RO1+5^ORMPS2  RO1+6^ORMPS2  RO1+9^ORMPS2  PARENT+9^ORMPS3  PARENT+10^ORMPS3  UPD+8^ORMPS3  UPD+11^ORMPS3  UPD+14^ORMPS3  UPD+16^ORMPS3  UPD+19^ORMPS3  UPD+20^ORMPS3  ZP+3^ORMRA  ZR+1^ORMRA  OK+5^ORMRA  OKQ^ORMRA  XX+8^ORMRA  XX+9^ORMRA  XX12^ORMRA  SNQ+8^ORMRA  SNQ+9^ORMRA  SC+6^ORMRA  SCQ^ORMRA  RE+2^ORMRA  UA+3^ORMRA  DR+1^ORMRA  UPDATE+1^ORMRA  UPDATE+5^ORMRA  UDPATE+6^ORMRA  EXPIR+97^ORB3TIM2  LABTHR+23^ORB3U2  CP1+3^ORCACT1  UNREL+11^ORCACT2  UNREL+13^ORCACT2  CLRDLY+5^ORCACT2  MEALTIME+3^ORCDFHO  DATE+2^ORCDLG  DATE+3^ORCDLG  MULT+2^ORCDLR  MULT+4^ORCDLR  MULT+5^ORCDLR  VALID+3^ORCDLR1  VALID+4^ORCDLR1  VALID+15^ORCDLR1  KIDS+21^ORCDLR2  SC+9^ORCDPS3  DELAY+6^ORCHECK  BLD+19^ORCHECK  START+6^ORCHECK  START+7^ORCHECK  IV+4^ORCHECK  OC2+3^ORCMENU1  OK+2^ORMVBEC  SC+3^ORMVBEC  SC+4^ORMVBEC  SC+5^ORMVBEC  UPDATE+2^ORMVBEC  UPDATE+3^ORMVBEC  UPDATE+7^ORMVBEC  UPDATE+8^ORMVBEC -ZR+1^ORMVBEC  SET+4^ORPR06  SET+7^ORPR06  LBSCREEN+15^ORPR07A  LR+4^ORRCACK  COMP+9^ORRCOR  TASK+34^ORTSKLPS  SAVEACT+11^ORWD  CPINFO+7^ORWDPS4  SC+37^ORWDPS4  CPCOMP+3^ORWDPS4  COMPLETE+5^ORWDPS4  ACCEPT+8^ORWDXC  DELAY+6^ORWDXC  SAVECHK+4^ORWDXC  GTORITM+2^ORWDXR  AEVNT+17^ORY216  AEVNT+18^ORY216  CANCEL+2^ORY141ED  EN+11^ORY216  DATA+124^ORY28006 | | | | | ^%DT  FILE^DICN  ^DIE  ^DIK  COMP^EDPFMON  VER^EDPFMON  $$SIGNREQD^ORCACT  $$PTR^ORCD  $$MEALTIME^ORCDFHO  $$NEXTCOLL^ORCDLR1  DELALRT^ORCSAVE1  CANCEL^ORCSEND  NOTIF^ORCSIGN  UNOTIF^ORCSIGN  RS^ORDD100  S1^ORDD100  S2^ORDD100  SETALL^ORDD100  SK^ORDD100  SS^ORDD100  WK^ORDD100  WS^ORDD100  EK^ORDD100A  ES^ORDD100A  OI1^ORDD100A  OI2^ORDD100A  DELETE^OROCAPI1  DELOCC^OROCAPI1  SAVEOC^OROCAPI1  $$SIGSTS^ORX1  $$RESOLVE^PSJORPOE  $$FMADD^XLFDT  $$NOW^XLFDT  GETLST^XPAR | | | |
| Routines | Activities | | | | | | | | |
| **Data Dictionary (DD) References** | ^OR(100  ^ORD(100.01  ^ORD(100.02  ^ORD(100.05  ^ORD(100.98  ^ORD(101.41  ^ORD(101.43  ^SC  ^TMP($J | | | | | | | | |
| **Related Protocols** | N/A | | | | | | | | |
| **Related Integration Control Registrations (ICRs)** | N/A | | | | | | | | |
| **Data Passing** | Input | | Output Reference | | Both | | Global Reference | | Local |
| **Input Attribute Name and Definition** | N/A | | | | | | | | |
| **Output Attribute Name and Definition** | N/A | | | | | | | | |
| Current Logic | | | | | | | | | |
| ORCSAVE2 ;SLC/MKB-Utilities to update an order ;03/16/11 10:47  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*4,27,56,70,94,116,190,157,215,265  ,243,293,280,346,269\*\*;Dec 17, 1997;Build 5  SC(ORX,ORIFN) ; -- save responses to SC questions  Q:'$G(ORIFN) Q:'$D(^OR(100,+ORIFN,0)) ;invalid order number  N OR5,I,P S OR5=$G(^OR(100,+ORIFN,5)),P=0  F I="SC","MST","AO","IR","EC","HNC","CV","SHD" S P=P+1 S:$D(ORX(I)) $P(  OR5,U,P)=ORX(I)  S ^OR(100,+ORIFN,5)=OR5  Q | | | | | | | | | |
| **Modified Logic (Changes are in bold)** | | | | | | | | | |
| ORCSAVE2 ;SLC/MKB - UTILITIES TO UPDATE AN ORDER ;04/10/15 11:23  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*4,27,56,70,94,116,190,157,215,265  ,243,293,280,346,269**,407**\*\*;Dec 17, 1997;Build 28  SC(ORX,ORIFN) ; -- save responses to SC questions  Q:'$G(ORIFN) Q:'$D(^OR(100,+ORIFN,0)) ;invalid order number  N OR5,I,P S OR5=$G(^OR(100,+ORIFN,5)),P=0  F I="SC","MST","AO","IR","EC","HNC","CV","SHD" **,"CLV**" S P=P+1 S:$D(ORX(I)) $P(OR5,U,P)=ORX(I) **;OR\*3.0\*407**  S ^OR(100,+ORIFN,5)=OR5  Q | | | | | | | | | |

Table : ORWDBA7 Routine

| Routines | Activities | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | ORWDBA7 | | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | No Change | | |
| **RTM** | 2.6.11.2.4, 2.6.11.2.5, 2.6.11.2.6 | | | | | | | | |
| **Related Options** | N/A | | | | | | | | |
| Related Routines | Routines “Called By” | | | | | Routines “Called” | | | |
|  | EN+15^ORCSEND | | | | | $$CIDC^IBBAPI  $$ICDDATA^ICDXCODE  $$UPDOR^LRBEBA4  EN^ORERR  $$SC^ORQ21  $$BASTAT^ORWDBA1  TFSTGS^ORWDBA1  $$ORFMDAT^ORWDBA3  $$EN^PSOHLNE3  $$CPRSUPD^RABWORD1  $$REPEAT^XLFSTR | | | |
| **Data Dictionary (DD)**  **References** | ^DIC(9.4  ^OR(100 | | | | | | | | |
| **Related Protocols** | N/A | | | | | | | | |
| **Related Integration Control Registrations (ICRs)** | N/A | | | | | | | | |
| **Data Passing** | Input | Output Reference | | | Both | | | Global Reference | Local |
| **Input Attribute Name and Definition** | N/A | | | | | | | | |
| **Output Attribute Name and Definition** | N/A | | | | | | | | |
| Current Logic | | | | | | | | | |
| ORWDBA7 ;SLC/GSS Billing Awareness (CIDC-Clinical Indicators Data Capture) ;12/04/12 11:13  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*195,215,243,361\*\*;Dec 17, 1997;Build 39  TFGBLTBL(GBL) ;Convert Tx Factors from Global to TBL (HL7) order & format  ; Note: this does not set Tx Factors in ZCL segment format but rather  ; AO^IR^SC^EC^MST^HNC^CV^SHD ('^' delimited string) format   ;  ; Input: GBL in 1^1^0^0^^^0^ (global) format   ; Output: TBL in 0^0^1^^1^^0^ (TBL) format (also reordered)   ;   N J,NTF,TBL,TF,TFGBL,TFGUI,TFTBL  S TBL="",NTF=8 ;NCI=# of TxF  I OCT'="" D  ;if there are diagnoses then show Treatment Factors  . S LINE="For conditions related to: "  . F EYE=1:1:8 S TF=$P(^OR(100,ORIFN,5.2),U,EYE) I TF D | | | | | | | | | |
| **Modified Logic (Changes are in bold)** | | | | | | | | | |
| ORWDBA7 ;SLC/GSS Billing Awareness (CIDC-Clinical Indicators Data Capture) ;12/  04/12 11:13  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*195,215,243,361**,407**\*\*;Dec 17, 199  7;Build 28  TFGBLTBL(GBL) ;Convert Tx Factors from Global to TBL (HL7) order & format  ; Note: this does not set Tx Factors in ZCL segment format but rather  ; AO^IR^SC^EC^MST^HNC^CV^SHD**^CLV** ('^' delimited string) format **;OR\*3.0\*407**  ;  ; Input: GBL in 1^1^0^0^^^0^**^1** (global) format **;OR\*3.0\*407**  ; Output: TBL in 0^0^1^^1^^0^**^1** (TBL) format (also reordered)  **;OR\*3.0\*407**  ;   N J,NTF,TBL,TF,TFGBL,TFGUI,TFTBL  S TBL="",NTF=**9** ;NCI=# of TxF **;OR\*3.0\*407**  I OCT'="" D  ;if there are diagnoses then show Treatment Factors  . S LINE="For conditions related to: "  . F EYE=1:1:**9** S TF=$P(^OR(100,ORIFN,5.2),U,EYE) I TF D               **;OR\*3.0\*407** | | | | | | | | | |

Table : ORWDPS4 Routine

| Routines | Activities | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | ORWDPS4 | | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | No Change | | |
| **RTM** | 2.6.11.2.3.1 | | | | | | | | |
| **Related Options** | N/A | | | | | | | | |
| Related Routines | Routines “Called By” | | | | | Routines “Called” | | | |
|  | N/A | | | | | $$VALUE^ORCSAVE2  SC^ORCSAVE2  SCNEW^PSOCP | | | |
| **Data Dictionary (DD) References** | ^DIC(9.4  ^OR(100  ^ORD(100.98  ^ORD(101.41  ^ORD(101.43 | | | | | | | | |
| **Related Protocols** | N/A | | | | | | | | |
| **Related Integration Control Registrations (ICRs)** | N/A | | | | | | | | |
| **Data Passing** | Input | Output Reference | | | Both | | | Global Reference | Local |
| **Input Attribute Name and Definition** | N/A | | | | | | | | |
| **Output Attribute Name and Definition** | N/A | | | | | | | | |
| Current Logic | | | | | | | | | |
| ORWDPS4 ;; SLC/JDL - Order Dialogs CO-PAY and Other;[12/31/01 6:38pm]  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*116,125,131,141,173,187,190,195,215,243\*\*;Dec 17, 1997;Build 242  ;  SC(ORIFN) ; -- Dialog validation, to ask CP questions  ;Expects ORIFN and ORDA  ;  N DR S DR=""  I '$L($T(SCNEW^PSOCP))!('$G(ORIFN))!('$G(ORDA)) Q DR  I $P($G(^OR(100,ORIFN,8,ORDA,0)),U,2)'="NW" Q DR  ;  N OR3,ORDRUG,ORENEW,ORX,I,XACT,YACT,CPNODE,ASC,AAO,AIR,AEC,AMST,AHNC,ACV,  ASHD   .S ASHD=$S($L($P(CPNODE,"^",8)):"SHD;"\_$P(CPNODE,"^",8),1:"")  .S DR=$S($L(ASHD):DR\_U\_ASHD,1:DR)   .D CPCOMP(.DR)  .K ASC,AAO,AIR,AEC,AMST,AHNC,CPNODE  F I="SC","AO","IR","EC","MST","HNC","CV","SHD**"** D                             . I $D(ORX(I)) S DR=DR\_U\_I\_$S($L(ORX(I)):";"\_ORX(I),1:"")  S ORX("SHD")=$P(RST1,U,8)  K RST,RST1  F CPI="SC","AO","IR","EC","MST","HNC","CV","SHD"D                          . I $D(ORX1(CPI)) D | | | | | | | | | |
| **Modified Logic (Changes are in bold)** | | | | | | | | | |
| ORWDPS4 ;; SLC/JDL - Order Dialogs CO-PAY and Other;[12/31/01 6:38pm]  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*116,125,131,141,173,187,190,195,2  15,243**,407**\*\*;Dec 17, 1997;Build 28  ;  SC(ORIFN) ; -- Dialog validation, to ask CP questions  ;Expects ORIFN and ORDA  ;  N DR S DR=""  I '$L($T(SCNEW^PSOCP))!('$G(ORIFN))!('$G(ORDA)) Q DR  I $P($G(^OR(100,ORIFN,8,ORDA,0)),U,2)'="NW" Q DR  ;  N OR3,ORDRUG,ORENEW,ORX,I,XACT,YACT,CPNODE,ASC,AAO,AIR,AEC,AMST,AHNC,ACV,ASHD,**ACLV      ;OR\*3.0\*407**   .S ASHD=$S($L($P(CPNODE,"^",8)):"SHD;"\_$P(CPNODE,"^",8),1:"")  .S DR=$S($L(ASHD):DR\_U\_ASHD,1:DR) **.S ACLV=$S($L($P(CPNODE,"^",9)):"CLV;"\_$P(CPNODE,"^",9),1:"") ;OR\*3.0\*407  .S DR=$S($L(ACLV):DR\_U\_ACLV,1:DR) ;OR\*3.0\*407**  .D CPCOMP(.DR)  .K ASC,AAO,AIR,AEC,AMST,AHNC,CPNODE, **ACLV**  **;OR\*3.0\*407**  F I="SC","AO","IR","EC","MST","HNC","CV","SHD**","CLV"** D                           **;OR\*3.0\*407**  . I $D(ORX(I)) S DR=DR\_U\_I\_$S($L(ORX(I)):";"\_ORX(I),1:"")  S ORX("SHD")=$P(RST1,U,8) **S ORX("CLV")=$P(RST1,U,9)** **;OR\*3.0\*407**  K RST,RST1  F CPI="SC","AO","IR","EC","MST","HNC","CV","SHD"**,"CLV"**D                        **;OR\*3.0\*407**  . I $D(ORX1(CPI)) D | | | | | | | | | |

Table : ORQ21 Routine

| Routines | Activities | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | ORQ21 | | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | No Change | | |
| **RTM** | 2.6.11.2.4, 2.6.11.2.5, 2.6.11.2.6 | | | | | | | | |
| **Related Options** | N/A | | | | | | | | |
| Related Routines | Routines “Called By” | | | | | Routines “Called” | | | |
|  | D4+1^ORQ2  D4+20^ORQ2  D4+21^ORQ2 | | | | | $$GET1^DIQ  ^DIWP  $$ICDDATA^ICDXCODE  $$ORFMDAT^ORWDBA3  OEL^PSOORRL  EN30^RAO7PC1  $$FMTE^XLFDT  $$LJ^XLFSTR  $$REPEAT^XLFSTR | | | |
| **Data Dictionary (DD) References** | ^OR(100  ^TMP("PS"  ^TMP($J  ^UTILITY($J  ^VA(200 | | | | | | | | |
| **Related Protocols** | N/A | | | | | | | | |
| **Related Integration Control Registrations (ICRs)** | N/A | | | | | | | | |
| **Data Passing** | Input | Output Reference | | | Both | | | Global Reference | Local |
| **Input Attribute Name and Definition** | N/A | | | | | | | | |
| **Output Attribute Name and Definition** | N/A | | | | | | | | |
| Current Logic | | | | | | | | | |
| ORQ21 ;SLC/MKB,GSS - DETAILED ORDER REPORT CONTINUED ;01/24/2014 11:39  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*141,190,195,215,243,361,350,417\*\*;Dec  17, 1997;Build 77  ;   I OCT'="" D  ;if there are diagnoses show Treatment Factors  . S X="For conditions related to: "  . F I=1:1:8 S Y=$P(^OR(100,ORIFN,5.2),U,I) I Y D                 ; OR\*3.0\*407   .. S CNT=CNT+1,@ORY@(CNT)=X\_$$SC(I),X=$$REPEAT^XLFSTR(" ",30)  Q   . S X="For conditions related to: "  . F I=1:1:8S Y=$P(OR5,U,I) I Y S CNT=CNT+1,@ORY@(CNT)=X\_$$SC(I),X=$$REPEAT^XLFSTR(" ",30) ; OR\*3.0\*407  Q  SC(J) ; -- Returns name of SC field by piece number  I '$G(J) Q ""  I J=1 Q "SERVICE CONNECTED CONDITION"  I J=2 Q "MILITARY SEXUAL TRAUMA"  I J=3 Q "AGENT ORANGE EXPOSURE"  I J=4 Q "IONIZING RADIATION EXPOSURE"  I J=5 Q "ENVIRONMENTAL CONTAMINANTS"  I J=6 Q "HEAD OR NECK CANCER"  I J=7 Q "COMBAT VETERAN"  I J=8 Q "SHIPBOARD HAZARD AND DEFENSE"  Q "" | | | | | | | | | |
| **Modified Logic (Changes are in bold)** | | | | | | | | | |
| ORQ21 ;SLC/MKB,GSS - DETAILED ORDER REPORT CONTINUED ;01/24/2014 11:39  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*141,190,195,215,243,361,350,417**,4**  **07**\*\*;Dec 17, 1997;Build 28   I OCT'="" D  ;if there are diagnoses show Treatment Factors  . S X="For conditions related to: "  . F I=1:1:**9** S Y=$P(^OR(100,ORIFN,5.2),U,I) I Y D                 **; OR\*3.0\*407**   .. S CNT=CNT+1,@ORY@(CNT)=X\_$$SC(I),X=$$REPEAT^XLFSTR(" ",30)  Q   . S X="For conditions related to: "  . F I=1:1:**9** S Y=$P(OR5,U,I) I Y S CNT=CNT+1,@ORY@(CNT)=X\_$$SC(I),X=$$REPEAT^XLFSTR(" ",30) **; OR\*3.0\*407**  Q  SC(J) ; -- Returns name of SC field by piece number  I '$G(J) Q ""  I J=1 Q "SERVICE CONNECTED CONDITION"  I J=2 Q "MILITARY SEXUAL TRAUMA"  I J=3 Q "AGENT ORANGE EXPOSURE"  I J=4 Q "IONIZING RADIATION EXPOSURE"  I J=5 Q "ENVIRONMENTAL CONTAMINANTS"  I J=6 Q "HEAD OR NECK CANCER"  I J=7 Q "COMBAT VETERAN"  I J=8 Q "SHIPBOARD HAZARD AND DEFENSE" **I J=9 Q "CAMP LEJEUNE EXPOSURE"                ;OR\*3.0\*407**  Q "" | | | | | | | | | |

Table : ORQQPL1 Routine

| Routines | Activities | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | ORQQPL1 | | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | | No Change | |
| **RTM** | 2.6.11.1.2.1 | | | | | | | | |
| **Related Options** | N/A | | | | | | | | |
| Related Routines | Routines “Called By” | | | | | Routines “Called” | | | |
|  | SETELEM+8^ORQQPL4  SAVE+5^ORWPCE  SETELEM+7^ORWPCE4 | | | | | LIST^DIC  $$GET1^DIQ  GETFLDS^GMPLEDT3  EN^GMPLSAVE  NEW^GMPLSAVE  UPDATE^GMPLUTL  $$DUPL^GMPLX  $$SERVICE^GMPLX1  $$VIEW^GMPLX1  VADPT^GMPLX1  $$CODECS^ICDEX  $$SAB^ICDEX  $$ICDDATA^ICDXCODE  $$STATCHK^ICDXCODE  $$CODEN^ICPTCOD  LOOK^LEXA  CONFIG^LEXSET  $$GETASSN^LEXTRAN1  $$IMPDATE^LEXU  $$ONE^LEXU  DEM^VADPT  $$GET^XPAR | | | |
| **Data Dictionary (DD) References** | ^AUPNPROB  ^AUPNPROB(0  ^DIC(49  ^GMPL(125.99  ^SC(  ^SC("B"  ^TMP("LEXSCH"  ^VA(200  ^XUSEC("ORELSE"  ^XUSEC("ORES"  ^XUSEC("PROVIDER" | | | | | | | | |
| **Related Protocols** | N/A | | | | | | | | |
| **Related Integration Control Registrations (ICRs)** | N/A | | | | | | | | |
| **Data Passing** | Input | Output Reference | | | Both | | Global Reference | | Local |
| **Input Attribute Name and Definition** | N/A | | | | | | | | |
| **Output Attribute Name and Definition** | N/A | | | | | | | | |
| Current Logic | | | | | | | | | |
| ORQQPL1 ; ALB/PDR,REV,ISL/JER/TC - PROBLEM LIST FOR CPRS GUI ;08/26/14 09:02  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*10,85,148,173,203,206,249,243,280  ,306,361,385,350\*\*;Dec 17, 1997;Build 77  INITPT(RETURN,DFN) ; GET PATIENT PARAMETERS  Q:+$G(DFN)=0  N GMPSC,GMPAGTOR,GMPION,GMPGULF,GMPHNC,GMPMST,GMPCV,GMPSHD   S RETURN(10)=$G(GMPSHD) ; SHAD   Q | | | | | | | | | |
| **Modified Logic (Changes are in bold)** | | | | | | | | | |
| ORQQPL1 ; ALB/PDR,REV,ISL/JER/TC - PROBLEM LIST FOR CPRS GUI ;08/26/14 09:02  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*10,85,148,173,203,206,249,243,280  ,306,361,385,350**,407**\*\*;Dec 17, 1997;Build 28  INITPT(RETURN,DFN) ; GET PATIENT PARAMETERS  Q:+$G(DFN)=0  N GMPSC,GMPAGTOR,GMPION,GMPGULF,GMPHNC,GMPMST,GMPCV,GMPSHD**,GMPCLV    ; OR\*3.0\*407**   S RETURN(10)=$G(GMPSHD) ; SHAD  **S RETURN(11)=$G(GMPCLV) ; CLV OR\*3.0\*407**  Q | | | | | | | | | |

Table : ORQQPL3 Routine

| Routines | Activities | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | ORQQPL3 | | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | No Change | | |
| **RTM** | 2.6.11.1.2.1 | | | | | | | | |
| **Related Options** | N/A | | | | | | | | |
| Related Routines | Routines “Called By” | | | | | Routines “Called” | | | |
|  | N/A | | | | | GETPLIST^GMPLMGR1  $$ICDDESC^GMPLUTL2  $$PROBTEXT^GMPLX  $$CODECS^ICDEX  $$CSI^ICDEX  $$SAB^ICDEX  $$ICDDATA^ICDXCODE  $$STATCHK^ICDXCODE  $$STATCHK^LEXSRC2  $$IMPDATE^LEXU  $$PAD^ORCHTAB | | | |
| **Data Dictionary (DD) References** | ^AUPNPROB  ^AUPNPROB("ACTIVE"  ^DIC(49  ^GMPL(125  ^GMPL(125.1  ^GMPL(125.12  ^GMPL(125.99  ^SC  ^VA(200 | | | | | | | | |
| **Related Protocols** | N/A | | | | | | | | |
| **Related Integration Control Registrations (ICRs)** | N/A | | | | | | | | |
| **Data Passing** | Input | Output Reference | | | Both | | | Global Reference | Local |
| **Input Attribute Name and Definition** | N/A | | | | | | | | |
| **Output Attribute Name and Definition** | N/A | | | | | | | | |
| Current Logic | | | | | | | | | |
| ORQQPL3 ; ALB/PDR,REV,ISL/JER/TC - Problem List RPCs ;04/15/14 10:29  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*10,148,173,243,280,306,361,385\*\*;Dec 17, 1997;Build 12  ;  N GMPL0,GMPL1,GMPL800,GMPL802,I,IFN,SCT,ST,ONSET,ICD,LASTMOD,PRIO,DTREC,ICDD,ORDTINT,ORPLCSYS  . N SC,ORTOTAL,LIN,LOC,LT,PROV,SERV,HASCMT,SCCOND,AO,IR,ENV,HNC,MST,CV,SHD,INACT   . S SC=$S(+$P(GMPL1,U,10):"SC",$P(GMPL1,U,10)=0:"NSC",1:"")  . S AO=$S(+$P(GMPL1,U,11):"/AO",1:"")  . S IR=$S(+$P(GMPL1,U,12):"/IR",1:"")  . S ENV=$S(+$P(GMPL1,U,13):"/EC",1:"")  . S HNC=$S(+$P(GMPL1,U,15):"/HNC",1:"")  . S MST=$S(+$P(GMPL1,U,16):"/MST",1:"")  . S CV=$S(+$P(GMPL1,U,17):"/CV",1:"")  . S SHD=$S(+$P(GMPL1,U,18):"/SHD",1:"")   . S SCCOND=SC\_AO\_IR\_ENV\_HNC\_MST\_CV\_SHD   . S LOC=$P(GMPL1,U,8  . S SP=""  . F I=11,12,13 S:$P(GMPL1,U,I) SP=SP\_$S(I=11:"A",I=12:"I",1:"P")  . S PRIO=$P(GMPL1,U,14)  . N IFN,L0,L1,L800,L802,SCT,ST,TXT,ICD,ONSET,MOD,SC,SP,LOC,LT,PROV,SERV  ,PRIO,HASCMT,DTREC  . N SCCOND,AO,IR,ENV,HNC,MST,CV,SHD,INACT,ORPLCSYS,ICDD,ORDTINT  ... S CV=$S(+$P(L1,U,17):"/CV",1:"")  ... S SHD=$S(+$P(L1,U,18):"/SHD",1:"")  ... S SCCOND=SC\_AO\_IR\_ENV\_HNC\_MST\_CV\_SHD     S SP=""  F I=11,12,13 S:$P(L1,U,I) SP=SP\_$S(I=11:"A",I=12:"I",1:"P")   Q SP | | | | | | | | | |
| **Modified Logic (Changes are in bold)** | | | | | | | | | |
| ORQQPL3 ; ALB/PDR,REV,ISL/JER/TC - Problem List RPCs ;04/15/14 10:29  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*10,148,173,243,280,306,361,385**,40**  **7**\*\*;Dec 17, 1997;Build 28  N GMPL0,GMPL1,GMPL800,GMPL802,I,IFN,SCT,ST,ONSET,ICD,LASTMOD,PRIO,DTREC,ICDD,ORDTINT,ORPLCSYS  . N SC,ORTOTAL,LIN,LOC,LT,PROV,SERV,HASCMT,SCCOND,AO,IR,ENV,HNC,MST,CV,SHD,INACT,**CLV     ; OR\*3.0\*407**   . S SC=$S(+$P(GMPL1,U,10):"SC",$P(GMPL1,U,10)=0:"NSC",1:"")  . S AO=$S(+$P(GMPL1,U,11):"/AO",1:"")  . S IR=$S(+$P(GMPL1,U,12):"/IR",1:"")  . S ENV=$S(+$P(GMPL1,U,13):"/EC",1:"")  . S HNC=$S(+$P(GMPL1,U,15):"/HNC",1:"")  . S MST=$S(+$P(GMPL1,U,16):"/MST",1:"")  . S CV=$S(+$P(GMPL1,U,17):"/CV",1:"")  . S SHD=$S(+$P(GMPL1,U,18):"/SHD",1:"") **. S CLV=$S(+$P(GMPL1,U,19):"/CLV",1:"") ; OR\*3.0\*407**  . S SCCOND=SC\_AO\_IR\_ENV\_HNC\_MST\_CV\_SHD**\_CLV                      ; OR\*3.0\*407**  . S LOC=$P(GMPL1,U,8  . S SP=""  . F I=11,12,13**,19** S:$P(GMPL1,U,I) SP=SP\_$S(I=11:"A",I=12:"I",**I=19:"L",**1:"P") ; **OR\*3.0\*407**  . S PRIO=$P(GMPL1,U,14)  . N IFN,L0,L1,L800,L802,SCT,ST,TXT,ICD,ONSET,MOD,SC,SP,LOC,LT,PROV,SERV  ,PRIO,HASCMT,DTREC  . N SCCOND,AO,IR,ENV,HNC,MST,CV,SHD,INACT,ORPLCSYS,ICDD,ORDTINT**,CLV**  **; OR\*3.0\*407**  ... S CV=$S(+$P(L1,U,17):"/CV",1:"")  ... S SHD=$S(+$P(L1,U,18):"/SHD",1:"")  **... S CLV=$S(+$P(L1,U,19):"/CLV",1:"") ; OR\*3.0\*407**  ... S SCCOND=SC\_AO\_IR\_ENV\_HNC\_MST\_CV\_SHD**\_CLV ; OR\*3.0\*407**  ... S SP=$$GETSP  S SP=""  F I=11,12,13**,19** S:$P(L1,U,I) SP=SP\_$S(I=11:"A",I=12:"I",**I=19:"L"**,1:"P")  **; OR\*3.0\*407**  Q SP | | | | | | | | | |

Table : ORMPS3 Routine

| Routines | Activities | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Routine Name** | ORMPS3 | | | | | | | |
| **Enhancement Category** | New | | Modify | Delete | | | No Change | |
| **RTM** | 2.6.11.2.6 | | | | | | | |
| **Related Options** | N/A | | | | | | | |
| Related Routines | Routines “Called By” | | | | Routines “Called” | | | |
|  | SN1+8^ORMPS  SN1+9^ORMPS  SC+25^ORMPS  UD2^ORMPS1  UD2+12^ORMPS1  OUT1+9^ORMPS1  OUT2 ^ORMPS1  OUT2+12^ORMPS1  OUT2+17^ORMPS1  OUT3+1^ORMPS1  IV+1^ORMPS1  IV1^ORMPS1  WPX+3^ORMPS2  WPX+4^^ORMPS2  IVX+6^ORMPS2  CHANGED+9^ORMPS2  CHANGED+16^ORMPS2  CHANGED+18^ORMPS2  CHANGED+21^ORMPS2  CHANGED+22^ORMPS2  RO2+9^ORMPS2 | | | | $$DOSES^ORCACT4  EN^ORCSAVE  ORDTEXT^ORCSAVE1  DATES^ORCSAVE2  RELEASE^ORCSAVE2  RESP^ORCSAVE2  SIGSTS^ORCSAVE2  $$UNESC^ORHLESC  $$UNESC^ORMPS2 | | | |
| **Data Dictionary (DD) References** | ^OR(100  ^ORD(101.41,  ^TMP("ORWORD" | | | | | | | |
| **Related Protocols** | N/A | | | | | | | |
| **Related Integration Control Registrations (ICRs)** | N/A | | | | | | | |
| **Data Passing** | Input | Output Reference | | Both | | Global Reference | | Local |
| **Input Attribute Name and Definition** | N/A | | | | | | | |
| **Output Attribute Name and Definition** | N/A | | | | | | | |
| Current Logic | | | | | | | | |
| ORMPS3 ;SLC/MKB - Process Pharmacy ORM msgs cont ;05/08/2008 10:32  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*213,243\*\*;Dec 17, 1997;Build 242  I $G(PKGIFN)'["N" D  ;Rx only, not non-VA  . S X=$P(RXE,"|",23) S:$E(X)="D" X=+$E(X,2,99)  . I +X'=+$$VALUE(ORDER,"SUPPLY") D RESP^ORCSAVE2(ORDER,"OR GTX DAYS SUPPLY",X)  . I $P(ZRX,"|",5)'=$$VALUE(ORDER,"PICKUP") D RESP^ORCSAVE2(ORDER,"OR GTX ROUTING",$P(ZRX,"|",5))  . S NTE=$$NTE(7),PI=+$O(^OR(100,ORDER,4.5,"ID","PI",0))  . I NTE,PI,$$NTXT(NTE)'=$$VALTXT(ORDER,PI) D  .. N CNT K ^OR(100,ORDER,4.5,PI,2)  .. S CNT=1,^OR(100,ORDER,4.5,PI,2,1,0)=$$UNESC^ORMPS2($P(@ORMSG@(NTE),"|",4))  .. S I=0 F  S I=$O(@ORMSG@(NTE,I)) Q:I<1 S CNT=CNT+1,^OR(100,ORDER,4.5,PI,2,CNT,0)=$$UNESC^ORMPS2(@ORMSG@(NTE,I))  .. S ^OR(100,ORDER,4.5,PI,2,0)="^^"\_CNT\_U\_CNT\_U\_DT\_U  S ZSC=$$ZSC I ZSC,$P(ZSC,"|",2)'?2.3U S ^OR(100,ORDER,5)=$TR($P(ZSC,"|",2,7),"|","^") ; | | | | | | | | |
| **Modified Logic (Changes are in bold)** | | | | | | | | |
| ORMPS3 ;SLC/MKB - Process Pharmacy ORM msgs cont ;05/08/2008 10:32  ;;3.0;ORDER ENTRY/RESULTS REPORTING;\*\*213,243**,407**\*\*;Dec 17, 1997;Build  28  I $G(PKGIFN)'["N" D  ;Rx only, not non-VA  . S X=$P(RXE,"|",23) S:$E(X)="D" X=+$E(X,2,99)  . I +X'=+$$VALUE(ORDER,"SUPPLY") D RESP^ORCSAVE2(ORDER,"OR GTX DAYS SUPPLY",X)  . I $P(ZRX,"|",5)'=$$VALUE(ORDER,"PICKUP") D RESP^ORCSAVE2(ORDER,"OR GTX ROUTING",$P(ZRX,"|",5))  . S NTE=$$NTE(7),PI=+$O(^OR(100,ORDER,4.5,"ID","PI",0))  . I NTE,PI,$$NTXT(NTE)'=$$VALTXT(ORDER,PI) D  .. N CNT K ^OR(100,ORDER,4.5,PI,2)  .. S CNT=1,^OR(100,ORDER,4.5,PI,2,1,0)=$$UNESC^ORMPS2($P(@ORMSG@(NTE),"|",4))  .. S I=0 F  S I=$O(@ORMSG@(NTE,I)) Q:I<1 S CNT=CNT+1,^OR(100,ORDER,4.5,PI,2,CNT,0)=$$UNESC^ORMPS2(@ORMSG@(NTE,I))  .. S ^OR(100,ORDER,4.5,PI,2,0)="^^"\_CNT\_U\_CNT\_U\_DT\_U  S ZSC=$$ZSC I ZSC,$P(ZSC,"|",2)'?2.3U S ^OR(100,ORDER,5)=$TR($P(ZSC,"|",2,**10**),"|","^") ; **OR\*3.0\*407** | | | | | | | | |

##### Templates

N/A

##### Bulletins

N/A

##### Data Entries Affected by the Design

Table : Data Entries Affected by the Design

| Field Name | Current Value | New Value |
| --- | --- | --- |
| CAMP LEJEUNE EXPOSURE  100,59 | N/A | This field is a SET OF CODES field which can be Y-YES or N-NO and represents whether the order is for treatment of a condition related to Camp Lejeune Exposure. |
| BA CAMP LEJEUNE EXPOSURE  100,99 | N/A | This field is a SET OF CODES field which can be Y-YES or N-NO and represents whether the order is for treatment of a condition related to Camp Lejeune Exposure. |

The following is a complete FileMan listing of the new fields:

Order File (#100) Updates:

STANDARD DATA DICTIONARY #100 -- ORDER FILE MAY 25,2015@22:57:40 PAGE 1

STORED IN ^OR(100, (3991 ENTRIES) SITE: TROY ISC SUPPORT ACCOUNT UCI: DEVEV

C,DEVEVC (VERSION 3.0)

DATA NAME GLOBAL DATA

ELEMENT TITLE LOCATION TYPE

-------------------------------------------------------------------------------

100,59 CAMP LEJEUNE EXPOSURE 5;9 SET

'1' FOR YES;

'0' FOR NO;

LAST EDITED: APR 01, 2015

HELP-PROMPT: Enter YES if this order is for treatment of a

condition due to Camp Lejeune Exposure.

DESCRIPTION: If a patient has been identified as having been

exposed to Camp Lejeune (CLV), then the

provider may be asked when signing the order if

it is for treatment of a condition related to

CLV and his/her response to the question will

be stored in this field. Currently this

question is only asked for Outpatient

Medications, and the response is passed to that

package with the new order.

TECHNICAL DESCR: This field is a SET OF CODES field which can be

Y-YES or N-NO and represents whether the order

is for treatment of a condition due to Camp

Lejeune Exposure.

100,99 BA CAMP LEJEUNE EXPOSURE 5.2;9 SET

'1' FOR YES;

'0' FOR NO;

LAST EDITED: APR 01, 2015

HELP-PROMPT: Enter YES if this order is for treatment of a

condition related to exposure of Water

Contaminants at Camp Lejeune.

DESCRIPTION: When signing orders, the provider may be asked

if this order is for a treatment related to

Camp Lejeune Exposure.

TECHNICAL DESCR: This field is a SET OF CODES field which can be

Y-YES or N-NO and represents whether the order

is for treatment of a condition related to Camp

Lejeune Exposure.

##### Unique Record(s)

N/A

Table : Unique Record ID

| Field Name(s) | Current Value | New Value |
| --- | --- | --- |
| N/A | N/A | N/A |

##### File or Global Size Changes

CPRS updated the following:

Table : File or Global Size Changes

| File/Global Name(s) | Estimated Increase | Estimated Decrease |
| --- | --- | --- |
| 100 | Increased file definition, created 2 new fields  2 bytes per record | None |
| 9.2 | No file definition or field changes; increased by 1 record | None |

##### Mail Groups

No mail groups are affected.

Table (Grouping): Mail Groups

| Mail Groups | Activities | | | |
| --- | --- | --- | --- | --- |
| **Mail Group Name** | N/A | | | |
| **Enhancement Category** | New | Modify | Delete | No Change |
| **Related Options** | N/A | | | |

| Related Routines | Routines “Called By” | Routines “Called” |
| --- | --- | --- |
| N/A | N/A | N/A |

| Mail Groups | Instructions | |
| --- | --- | --- |
| **Data Dictionary (DD) References** | N/A | |
| **Related Protocols** | N/A | |
| **Mail Group Description** | N/A | |
| **Self-Enrollment Allowed** | Yes | No |
| **Type** | Public | Private |

##### Security Keys

N/A

Table (Grouping): Security Keys

| Security Keys | Activities | | | |
| --- | --- | --- | --- | --- |
| **Security Key Name** | N/A | | | |
| **Enhancement Category** | New | Modify | Delete | No Change |
| **Related Options** | N/A | | | |

| Related Routines | Routines “Called By” | Routines “Called” |
| --- | --- | --- |
| N/A | N/A | N/A |

| Security Keys | Activities | | | | |
| --- | --- | --- | --- | --- | --- |
| **Data Passing** | Input | Output | Both | Global Reference | Local Reference |
| **Security Key Description** | N/A | | | | |
| **Subordinate Keys** | N/A | | | | |
| **Mutually Exclusive Keys** | N/A | | | | |
| **Granting Condition Logic** | N/A | | | | |

| Current Logic |
| --- |
| N/A |

| Modified Logic (Changes are in bold) |
| --- |
| N/A |

| Security Keys | Activities |
| --- | --- |
| **Hierarchical Precedence** | N/A |

##### Options

N/A

Table (Grouping): Options

| Options | Activities | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Option Name** | N/A | | | | | | | | | | |
| **Enhancement Category** | New | Modify | | | | Delete | | | No Change | | |
| **Associated Menu Options that will invoke this reference** | N/A | | | | | | | | | | |
| **Data Passing** | Input | | Output | | Both | | | Global Reference | | | Local Reference |
| **Menu Text Description** | N/A | | | | | | | | | | |
| **Option Type** | Edit | | | Print | | | Menu | | | Inquire | |
| Action | | | Run Routine | | | Other | | |  | |
| **Associated Routine** | N/A | | | | | | | | | | |
| **Option Definition** | N/A | | | | | | | | | | |

| Current Entry Action Logic |
| --- |
| N/A |

| Modified Entry Action Logic (Changes are in bold) |
| --- |
| N/A |

| Current Exit Action Logic |
| --- |
| N/A |

| Modified Exit Action Logic (Changes are in bold) |
| --- |
| N/A |

##### Protocols

N/A

Table (Grouping): Protocols

| Protocols | Activities |
| --- | --- |
| **Protocol Name** | N/A |
| **Enhancement Category** | New  Modify  Delete  No Change |
| **Associated Protocols** | N/A |
| **Data Passing** | Input  Output  Both  Global Reference  Local Reference |
| **Item Text Description** | N/A |
| **Protocol Type** | Action  Menu  Protocol  Protocol Menu  Limited Protocol  Extended Action  Dialog  Other |
| **Associated Routine** | N/A |

| Current Entry Action Logic |
| --- |
| N/A |

| Modified Entry Action Logic (Changes are in bold) |
| --- |
| N/A |

| Current Exit Action Logic |
| --- |
| N/A |

| Modified Exit Action Logic (Changes are in bold) |
| --- |
| N/A |

##### Remote Procedure Call (RPC)

N/A

Table : RPCs

| RPCs | Activities | | |
| --- | --- | --- | --- |
| **Name** | N/A | | |
| **TAG^RTN** | N/A | | |
| **Input Parameters** | N/A | | |
| **Results Array** | Single Value | Array | Word Processing |
| Global Array | Global Instance |  |
| **Description** | N/A | | |

##### Constants Defined in Interface

N/A

Table : Constants Defined in Interface

| Name | Description |
| --- | --- |
| N/A | N/A |

##### Variables Defined in Interface

N/A

Table : Variables Defined in Interface

| Name | Type | Description |
| --- | --- | --- |
| N/A | N/A | N/A |

##### Types Defined in Interface

N/A

Table : Types Defined in Interface

| Name | Type | Description |
| --- | --- | --- |
| N/A | N/A | N/A |

##### GUI

N/A

Table : GUI

| Unit Name | Description |
| --- | --- |
| N/A | N/A |

##### GUI Classes

N/A

Table : GUI Classes (Instructions)

| GUI Classes | Instructions |
| --- | --- |
| **Class Name** | N/A |
| **Derived From Class** | N/A |
| **Purpose** | N/A |

##### Current Form

N/A

##### Modified Form

N/A

##### Components on Form

N/A

Table : Components on Form

| Name | Type | Description |
| --- | --- | --- |
| N/A | N/A | N/A |

##### Events

N/A

Table : Events

| Name | Type | Description |
| --- | --- | --- |
| N/A | N/A | N/A |

##### Methods

N/A

Table : Methods

| Method Name | Procedure/Function | Description |
| --- | --- | --- |
| N/A | N/A | N/A |

##### Special References

N/A

Table : Special References

| Special Reference Name | Type | Description |
| --- | --- | --- |
| N/A | N/A | N/A |

##### Class Events

N/A

Table : Class Events

| Name | Type | Description |
| --- | --- | --- |
| N/A | N/A | N/A |

##### Class Methods

N/A

Table : Class Methods

| Name | Procedure/Function | Description |
| --- | --- | --- |
| N/A | N/A | N/A |

##### Class Properties

N/A

Table : Class Properties

| Class Properties Name | Type | Visibility | Description |
| --- | --- | --- | --- |
| N/A | N/A | N/A | N/A |

##### Uses Clause

N/A

##### Forms

N/A

Table (Grouping): Forms

| Forms | Description | | | |
| --- | --- | --- | --- | --- |
| **Form Name** | N/A | | | |
| **Enhancement Category** | New | Modify | Delete | No Change |
| **Form Functionality** | N/A | | | |

| Current Form Layout |
| --- |
| N/A |

| Modified Form Layout (Changes are in bold) |
| --- |
| N/A |

##### Functions

N/A

Table (Grouping): Functions

| Function Name | Activities | | | |
| --- | --- | --- | --- | --- |
| **Short Description** | N/A | | | |
| **Enhancement Category** | New | Modify | Delete | No Change |
| **Related Options** | N/A | | | |

| Related Routines | Routines “Called By” | Routines “Called” |
| --- | --- | --- |
| N/A | N/A | N/A |

| Function Name | Activities | | | | |
| --- | --- | --- | --- | --- | --- |
| **Data Dictionary (DD) References** | N/A | | | | |
| **Related Protocols** | N/A | | | | |
| **Related Integration Control Registrations (ICRs)** | N/A | | | | |
| **Data Passing** | Input | Output | Both | Global Reference | Local Reference |
| **Input Attribute Name and Definition** | Name: | | | | |
| Definition: | | | | |
| **Output Attribute Name and Definition** | Name: | | | | |
| Definition: | | | | |

| Current Logic |
| --- |
| N/A |

| Modified Logic (Changes are in bold) |
| --- |
| N/A |

##### Dialog

N/A

Table : Dialog

| Dialog | Instructions | | | |
| --- | --- | --- | --- | --- |
| **Dialog Message (Description)** | N/A | | | |
| **Enhancement Category** | New | Modify | Delete | No Change |
| **Dialog Message (Description) Condition** | N/A | | | |
| **Current Dialog Message (Description)** | N/A | | | |
| **Modified Dialog Message (Description)  (Changes are in bold)** | N/A | | | |

##### Help Frame

N/A

Table (Grouping): Help Frame

| Help Frame | Description | | | |
| --- | --- | --- | --- | --- |
| **Help Frame Text** | N/A | | | |
| **Enhancement Category** | New | Modify | Delete | No Change |
| **Help Frame Text Calling Mechanism** | N/A | | | |

| Current Help Frame Text |
| --- |
| N/A |

| Modified Help Frame Text (Changes are in bold) |
| --- |
| N/A |

##### HL7 Application Parameter

N/A

Table (Grouping): HL7 Application Parameter

| HL7 Application Parameter Name | Description |
| --- | --- |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Enhancement Category** | New | Modify | Delete | No Change |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Application Status** | Active | Inactive | Active | Inactive |

| Enhancement Category | Current | Modified |
| --- | --- | --- |
| **Facility Name** | N/A | N/A |
| **Country Code** | N/A | N/A |
| **HL7 Field Separator** | N/A | N/A |
| **HL7 Encoding Characters** | N/A | N/A |
| **Mail Group** | N/A |  |

##### HL7 Logical Link

N/A

Table (Grouping): HL7 Logical Link

| HL7 Logical Link | Description |
| --- | --- |
| **HL7 Logical Link Parameter Name** | N/A |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Enhancement Category** | **New** | **Modify** | **Delete** | **No Change** |

| Enhancement Category | Current | Modified |
| --- | --- | --- |
| **Node** | N/A | N/A |
| **Institution** | N/A | N/A |
| **Domain** | N/A | N/A |
| **Autostart** | N/A | N/A |
| **Queue Size** | N/A | N/A |
| **LLP Type** | N/A | N/A |

##### COTS Interface

N/A

Table : COTS Interface

| COTS Interface | Description |
| --- | --- |
| **Communication Method** | N/A |
| **Application Interface** | N/A |

## Network Detailed Design

No change in all subsections from previous releases.

## Security and Privacy

No special considerations apply for security and privacy for the CL-V Increment 4 enhancements.

### Security

N/A

### Privacy

N/A

## Service Oriented Architecture / ESS Detailed Design

The current CPRS package is a VistA legacy application and not based on a Service Oriented Architecture. No enterprise shared services are consumed or provided as part of this project.

### Service Description

Not applicable to VistA.

### Service Design

Not applicable to VistA.

#### Introduction

##### Purpose and Scope of Service

Not applicable to VistA.

##### Links to Other Documents

Not applicable to VistA.

#### Service Details

##### Service Identification

Not applicable to VistA.

Table : Service Identification

| Service Attribute | Value |
| --- | --- |
| N/A | N/A |
| Overview | N/A |
| Version | N/A |
| Latest Status | N/A |
| Service Type | N/A |
| Architecture Layer | N/A |
| Business Domain | N/A |
| Service Domain | N/A |
| Business Organization and Owner | N/A |
| Technical Organization and Owner | N/A |
| Development Organization and Owner | N/A |
| Support Organization and Owner | N/A |
| Target Consumer Organization(s) and Owner(s) | N/A |

##### Service Versions

Not applicable to VistA.

Table : Service Versions

|  |  |  |
| --- | --- | --- |
| Version Numbers | Current Status of Version | A Brief Description of the change implemented in that version |
| N/A | N/A | N/A |

##### Summary of Design and Platform Details

###### SOA Pattern(s) Implemented

Not applicable to VistA.

###### COTS Platform Vendor Names and Versions for Hosting Platform

Not applicable to VistA.

#### Dependencies

Not applicable to VistA.

#### Service Design Details

Not applicable to VistA.

##### Interface Technical Specs

Not applicable to VistA.

###### Service Invocation Type

Not applicable to VistA.

###### Service Interface Type

Not applicable to VistA.

###### Service Name

Not applicable to VistA.

###### Interface

Not applicable to VistA.

###### End Points

Not applicable to VistA.

###### Operations or Methods

Not applicable to VistA.

Table : Operations

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Operation Name | Inputs | Outputs | Transactional Qualities if relevant (Updating?, Atomic?, Can participate in transaction?) | Pre and Post Conditions | Exception (s) |
| N/A | N/A | N/A | N/A | N/A | N/A |

###### Message Schemas

Not applicable to VistA.

##### Information Model

Not applicable to VistA.

###### Class Diagram and Description of Entities Involved

Not applicable to VistA.

###### Mappings from ELDM to Standards Based Schemas

Not applicable to VistA.

##### Behavior Model (AKA Use Case Realization)

Not applicable to VistA.

###### Use Cases (Use Case Model)

Not applicable to VistA.

###### Interaction Diagrams

Not applicable to VistA.

#### Gap Analysis

Not applicable to VistA.

Table : Gap Analysis

| Design Elements🡪  Policies / SLD elements etc.↓ | Design  Element A | Design  Element B | Design  Element C | Comment for Non-Conformance |
| --- | --- | --- | --- | --- |
| N/A | N/A | N/A | N/A | N/A |

##### Variances from Enterprise Target Architecture

Not applicable to VistA.

##### Variances from SLDs

Not applicable to VistA.

##### Variances from Standards and Policies

Not applicable to VistA.

##### Justification for Exceptions and Mitigation

Not applicable to VistA.

# External System Interface Design

N/A

## Interface Architecture

No change from previous releases.

## Interface Detailed Design

No change from previous releases.

# Human-Machine Interface

There are no changes to the human-machine interface for the CL-V enhancements.

## Interface Design Rules

N/A

## Inputs

N/A

## Outputs

N/A

## Navigation Hierarchy

N/A

# Attachment A – Approval Signatures

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signed: Date:

< Business Sponsor >

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signed: Date:

*, CL-V Project Manager*

1. Additional Information

Additional information is provided in the sub-sections that follow.

* 1. Identification of Technology and Standards

The only standard that applies to the patch described in this SDD are the American National Standards Institute [ANSI] standards.

This application conforms to the current VistA Standards and Conventions Committee (SACC) and has passed through all of the VA vetting processes before its national release.

In addition, it utilizes the latest versions of key VistA infrastructure applications (FileMan, Kernel, MailMan, etc.)

* 1. Constraining Policies, Directives and Procedures

Directive: Public Law 112-154: On August 6, 2012, President Obama signed into law the “Honoring America’s Veterans and Caring for Camp Lejeune Families Act of 2012” (P. L. 112-154). This law provides healthcare for Veterans who served on active duty at Camp Lejeune and reimbursement for healthcare to family members who resided at Camp Lejeune for not fewer than 30 days between August 1, 1953 and December 31, 1987. The law authorizes care for 15 medical conditions, even if there is insufficient medical evidence to conclude that such illnesses or conditions are attributable to the Veterans’ military service or family members’ residence at Camp Lejeune.

The Camp Lejeune-Veterans (CL-V) project improves organizational efficiency in providing services to affected Veterans by ensuring they are appropriately identified as Camp Lejeune eligible, assigning them to Priority Group 6, and waiving co-payments for their conditions related to Camp Lejeune. This helps to address the mandated House Resolution (H.R.) 1627 [now Public Law (P.L.) 112-154, Honoring America’s Veterans], which requires the Department of Veterans Affairs (VA) to provide hospital care and medical services to Veterans who meet the specified conditions.

The changes to the CPRS application, the subject of this SDD, is one of the backend processing systems for Camp Lejeune related care that allows implementation of Camp Lejeune system changes.

* 1. Requirements Traceability Matrix

The CL-V Increment 4 RTM can be found on CL-V TSPR. The requirements traceability for the CPRS patch is found on the CPRS tab of the RTM.

* 1. Packaging and Installation

Not applicable to VistA.

* 1. Design Metrics

Not applicable to VistA.