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Run Date: JUL 28, 2016 Designation: PX\*1\*216

Package : PX - PCE PATIENT CARE ENCOUNTER Priority: Mandatory

Version : 1 Status: Under Development

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Associated patches: (v)PX\*1\*197 <<= must be installed BEFORE `PX\*1\*216'

(u)PX\*1\*215 <<= must be installed BEFORE `PX\*1\*216'

Subject: PCE IMMUNIZATION ENHANCEMENTS - INCREMENT 4

Category:

- Data Dictionary

- Enhancement (Mandatory)

- Other

- Routine

Description:

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The Veterans Health Information Systems and Technology Architecture

(VistA) Immunizations Enhancements (VIMM) 2.0 project, Increment 4, builds

upon the file structures and standardized data introduced in Increments 1,

2 and 3 by adding functional enhancements to the existing VistA Patient

Care Encounter (PCE) package.

This patch provides the following new features:

1) This patch introduces a new file, V IMMUNIZATION DELETED (#9000080.11),

that will contain entries that were deleted out of the V IMMUNIZATION

file (#9000010.11). Immediately prior to deleting an entry from the V

IMMUNIZATION file, a copy of the record will be made and filed to the V

IMMUNIZATION DELETED file. The date/time of deletion and the user that

deleted the record will be recorded.

2) This patch creates Remote Procedure Calls (RPCs) for use by the

Enterprise Health Management Platform (eHMP) project, the Computerized

Patient Record System (CPRS) software and others. These RPCs retrieve

skin test information from the following files:

- V SKIN TEST (#9000010.12)

- SKIN TEST (#9999999.28)

- IMM ADMINISTRATION SITE (BODY) (#920.3)

3) This patch created an RPC to retrieve immunization data from the V

IMMUNIZATION (#9000010.11) file. This data will be used in the future

to retrieve patient immunization data and transmit it, using the Health

Level 7 (HL7) standard protocol, to external agencies (e.g., State

Immunization Information Registries). As part of this effort, a new

option will be introduced with this patch, Accounting Of Immunization

Disclosures Report [PXV IMM DISCLOSURE REPORT], that can be run from

the PCE Coordinator Menu [PX PCE COORDINATOR MENU]. This option can be

used to generate a list of immunization records transmitted to external

agencies. This option allows for a date range selection as well as one,

multiple or all agencies and one, multiple or all patients.

4) Previously, auditing has been turned on for all fields of the V

IMMUNIZATION (#9000010.11) file. This patch adds additional safe guards

to ensure that auditing is not turned off and that the data audits

cannot be purged for the V IMMUNIZATION file.

5) The existing immunization inventory functionality is updated to

include multi-divisional features:

- Inventory items may be linked to an associated facility.

- Inventory reports are facility specific

6) The immunization entry process is updated to require the entry of

Dose, Dose Units, Route of Administration and Site of Administration.

(Note: If route is ORAL, site is not required.)

7) The PX SAVE DATA remote procedure call (RPC) has been modified to

provide support for the following fields in the V SKIN TEST file

(#9000010.12):

- READER (#.07)

- ORDERING PROVIDER (#1202)

- ANATOMIC LOCATION OF PLACEMENT (#1212)

- READING COMMENTS (#1301)

8) The functionality for the Health Summary component PCE IMMUNIZATIONS

(IM) is modified to ignore time and occurrence limits, basically

restoring pre-patch PX\*1\*210 behavior.

9) This patch provides an alert whenever specific allergy-type

contraindications are recorded as a reason for not giving an

immunization in the V IMM CONTRA/REFUSAL EVENTS file (#9000010.707).

The alert text reads: "You have recorded an allergy/adverse reaction

contraindication reason. This information should also be recorded in

the Adverse Reaction Tracking package if it is not already present

there."

Patch Components:

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APIs Associated:

API New/Modified/Deleted

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VSKIN^PXPXRM (ICR #4250) Modified

Files & Fields Associated:

File Name (Number) Field Name (Number) New/Modified/Deleted

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IMM EXTERNAL AGENCY AGENCY NAME (#.01) New

(#920.71)

V IMMUNIZATION IMMUNIZATION (#.01) Modified

(#9000010.11) EVENT DATE AND TIME Modified

(#1201)

DATE/TIME RECORDED Modified

(#1205)

TIMESTAMP (#1221) New

EVENT INFORMATION Modified

SOURCE (#1301)

DISCLOSED TO (multiple New

(field #820, sub-file

#9000010.1182)

AGENCY (#.01) of the New

DISCLOSED TO sub-file

(#9000010.1182)

DISCLOSURE DATE/TIME New

(#.02) of the

DISCLOSED TO sub-file

(#9000010.1182)

IMMUNIZATION LOT LOT NUMBER (#.01) Modified

(#9999999.41) MANUFACTURER (#.02) Modified

VACCINE (#.04) Modified

ASSOCIATED VA FACILITY New

(#.1)

V IMMUNIZATION

DELETED (#9000080.11) IMMUNIZATION (#.01) New

PATIENT NAME (#.02) New

VISIT (#.03) New

SERIES (#.04) New

LOT (#.05) ) New

REACTION (#.06) New

CONTRAINDICATED (#.07) New

DOSE OVERRIDE (#.08) New

INJECTION SITE (#.09) New

VOLUME (#.11) New

DATE OF VAC INFO STATEMENT (#.12) New

CREATED BY V CPT ENTRY (#.13) New

VAC ELIGIBILITY (#.14) New

IMPORT FROM OUTSIDE REGISTRY New

(#.15)

NDC (#.16) New

ADMINISTRATIVE NOTES (#1) New

VIS OFFERED/GIVEN TO PATIENT

(multiple field #2, sub-file

#9000080.112) New

VIS OFFERED/GIVEN TO PATIENT

(#.01) of the VIS OFFERED/GIVEN

TO PATIENT sub-file

(#9000080.112) New

DATE VIS OFFERED/GIVEN (#.02) of

the VIS OFFERED/GIVEN TO PATIENT

sub-file (#9000080.112) New

OTHER DIAGNOSIS (multiple field #3,

sub-file #9000080.113) New

OTHER DIAGNOSIS (#.01) of the

OTHER DIAGNOSIS sub-file

(#9000080.113) New

REMARKS (#1101) New

EVENT DATE AND TIME (#1201) New

ORDERING PROVIDER (#1202) New

CLINIC (#1203) New

ENCOUNTER PROVIDER (#1204) New

DATE/TIME RECORDED (#1205) New

IMMUNIZATION DOCUMENTER (#1206) New

LOT NUMBER (#1207) New

PARENT (#1208) New

EXTERNAL KEY (#1209) New

OUTSIDE PROVIDER NAME (#1210) New

ANCILLARY POV (#1213) New

USER LAST UPDATE (#1214) New

ORDERING LOCATION (#1215) New

DATE/TIME ENTERED (#1216) New

ENTERED BY (#1217) New

DATE/TIME LAST MODIFIED (#1218) New

LAST MODIFIED BY (#1219) New

WARNING ACKNOWLEDGED (#1220) New

EVENT INFORMATION SOURCE (#1301) New

ROUTE OF ADMINISTRATION (#1302) New

SITE OF ADMINISTRATION (BODY)

(#1303) New

PRIMARY DIAGNOSIS (#1304) New

DOSE (#1312) New

DOSAGE (#1312.5) New

DOSE UNITS (#1313) New

SNOMED CT (multiple field #2601,

sub-file #9000080.1126) New

SNOMED CT (#.01) of the SNOMED CT

sub-file (#9000080.1126) New

SNOMED PREFERRED TERM (#.019) of

the SNOMED CT sub-file

(#9000080.1126) New

LOINC CODES (multiple field #2701,

sub-file #9000080.1127) New

LOINC CODES (#.01) of the LOINC

CODES sub-file (#9000080.1127) New

LOINC TEXT (#.019) of the LOINC

CODES sub-file (#9000080.1127) New

RESULTS (#1401) New

READING (#1402) New

DATE/TIME READ (#1403) New

READER (#1404) New

READING RECORDED (#1405) New

HOURS READ POST-INOCULATION

(#1406) New

READING COMMENT (#1501) New

WARNING OVERRIDE REASON

(#1601) New

EDITED FLAG (#80101) New

AUDIT TRAIL (#80102) New

COMMENTS (#81101) New

VERIFIED (#81201) New

PACKAGE (#81202) New

DATA SOURCE (#81203) New

DISCLOSED TO (multiple New

(field #820, sub-file

#9000080.1182)

AGENCY (#.01) of the New

DISCLOSED TO sub-file

(#9000080.1182)

DISCLOSURE DATE/TIME New

(#.02) of the

DISCLOSED TO sub-file

(#9000080.1182)

DELETED BY (#88001) New

DATE/TIME DELETED (#88002) New

Forms Associated:

Form Name File # New/Modified/Deleted

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N/A

Mail Groups Associated:

Mail Group Name New/Modified/Deleted

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N/A

Options Associated:

Option Name Type New/Modified/Deleted

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PXV IMM DISCLOSURE REPORT Run Routine New

Parameters Associated:

Parameter Definition Name New/Modified/Deleted

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PXV SK DAYS BACK New

Protocols Associated:

Protocol Name New/Modified/Deleted

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RPCs Associated:

RPC New/Modified/Deleted

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PXVIMM ICR LIST Modified

PXVIMM IMM DETAILED Modified

PXVIMM IMM DISCLOSURE New

PXVIMM VIMM DATA New

PXVSK DEF SITES New

PXVSK SKIN SHORT LIST New

PXVSK V SKIN TEST LIST New

PX SAVE DATA Modified

Security Keys Associated:

Security Key Name

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N/A

Templates Associated:

Template Name Type File Name (Number) New/Modified/Deleted

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N/A

Additional Information:

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N/A

New Service Requests (NSRs):

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N/A

Patient Safety Issues (PSIs):

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N/A

Defect Tracking System Ticket(s) & Overview:

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N/A

Test Sites:

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Cleveland, OH

Heartland-East HCS, MO

San Antonio, TX

Software and Documentation Retrieval Instructions:

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Software being released as a host file and/or documentation describing

the new functionality introduced by this patch are available.

The preferred method is to retrieve files from download.vista.domain.ext.

This transmits the files from the first available server. Sites may

also elect to retrieve files directly from a specific server.

Sites may retrieve the software and/or documentation directly using Secure

File Transfer Protocol (SFTP) from the ANONYMOUS.SOFTWARE directory at the

following OI Field Offices:

Albany: ftpserver.domain.ext

Hines: ftpserve.domain.ext

Salt Lake City: ftpsrv.domain.ext

Documentation can also be found on the VA Software Documentation Library

at:

http://www4.domain/vdl/

Title File Name FTP Mode

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Patient Care Encounter (PCE) PX\_1\_UM\_R0816.PDF (binary)

V. 1.0 User Manual

Patient Care Encounter (PCE) PX\_1\_TM\_R0816.PDF (binary)

V.1.0 Technical Manual

Patch Installation:

Pre/Post Installation Overview:

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The pre-installation process deletes the trigger cross-reference from the

EVENT DATE AND TIME (#1201) field of the V IMMUNIZATION (#9000010.11)

file. The trigger will be moved to the IMMUNIZATION (#.01) field. The

trigger sets the DATE/TIME RECORDED (#1205) field.

The post-installation process sets a node in the V IMMUNIZATION data

dictionary (DD) that prevents a user from being able to purge data audits

for the V IMMUNIZATION file.

Pre-Installation Instructions:

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N/A

Installation Instructions:

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This patch should be installed during a period of minimal system activity,

preferably with users off the system. Installation time is expected to be

less than 10 minutes.

1. Choose the PackMan message containing this patch.

2. Choose the INSTALL/CHECK MESSAGE PackMan option.

3. From the Kernel Installation and Distribution System Menu, select

the Installation Menu. From this menu, you may elect to use the

following options. When prompted for the INSTALL NAME enter the patch

# (PX\*1.0\*216):

a. Backup a Transport Global - This option will create a backup

message of any routines exported with this patch. It will not

backup any other changes such as DDs or templates.

b. Compare Transport Global to Current System - This option will

allow you to view all changes that will be made when this patch

is installed. It compares all components of this patch

(routines, DDs, templates, etc.).

c. Verify Checksums in Transport Global - This option will allow

you to ensure the integrity of the routines that are in the

transport global.

d. Print Transport Global - This option will allow you to view the

components of the KIDS build.

4. From the Installation Menu, select the Install Package(s) option and

choose the patch to install. Enter PX\*1.0\*216.

5. When prompted 'Want KIDS to Rebuild Menu Trees Upon Completion of

Install? YES//'

Answer NO.

6. When prompted 'Want KIDS to INHIBIT LOGONs during the install?

NO//'

Answer NO.

7. When prompted 'Want to DISABLE Scheduled Options, Menu Options,

and Protocols? NO//'

Answer NO.

Post-Installation Instructions:

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N/A

Routine Information:

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The second line of each of these routines now looks like:

;;1.0;PCE PATIENT CARE ENCOUNTER;\*\*[Patch List]\*\*;Aug 12, 1996;Build 7

The checksums below are new checksums, and

can be checked with CHECK1^XTSUMBLD.

Routine Name: PXAPIDEL

Before: B56745766 After: B57912132 \*\*1,9,22,130,168,197,216\*\*

Routine Name: PXCEVFI1

Before: B23924796 After: B71666657 \*\*23,73,112,136,143,124,184,

185,210,215,216\*\*

Routine Name: PXKFIMM

Before: B4427968 After: B5574555 \*\*22,124,201,209,210,215,216\*\*

Routine Name: PXKMAIN

Before: B55417967 After: B56711884 \*\*22,59,73,88,69,117,130,124,

174,164,210,215,216\*\*

Routine Name: PXKMAIN1

Before: B41644781 After: B56560479 \*\*22,73,124,178,210,216\*\*

Routine Name: PXPXRM

Before: B88904295 After:B156738878 \*\*119,199,210,215,216\*\*

Routine Name: PXRHS03

Before: B56157465 After: B59630785 \*\*13,210,216\*\*

Routine Name: PXRPC

Before:B109684381 After:B167038742 \*\*200,209,210,215,216\*\*

Routine Name: PXVDIS

Before: n/a After: B48092848 \*\*216\*\*

Routine Name: PXVEDIT

Before: B3872063 After: B16872011 \*\*210,216\*\*

Routine Name: PXVINV

Before: B25607408 After: B28488077 \*\*210,216\*\*

Routine Name: PXVP216

Before: n/a After: B1234583 \*\*216\*\*

Routine Name: PXVRPC4

Before: n/a After:B131727625 \*\*215,216\*\*

Routine Name: PXVRPC5

Before: n/a After: B35949423 \*\*215,216\*\*

Routine Name: PXVRPC7

Before: n/a After:B131688794 \*\*216\*\*

Routine Name: PXVRPC7A

Before: n/a After: B60762590 \*\*216\*\*

Routine Name: PXVRPC8

Before: n/a After: B30970984 \*\*216\*\*

Routine Name: PXVRPC9

Before: n/a After: B7189011 \*\*216\*\*

Routine Name: PXVUTIL

Before: B10006565 After: B15840242 \*\*201,210,215,216\*\*

Routine Name: PXVXR

Before: B13167191 After: B20999175 \*\*210,216\*\*

Routine Name: PXVZRT

Before: B71159926 After: B84727294 \*\*206,215,216\*\*

Routine list of preceding patches: 197, 215

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User Information:

Entered By : Date Entered : APR 21, 2016

Completed By: Date Completed:

Released By : Date Released :

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