

Indian Health Service

EHR HIT for Nursing IT

IHS HQ OFFICE OF INFORMATION
TECHNOLOGY, DIVISION OF INFORMATION
TECHNOLOGY, CLINICAL INFORMATICS



Introduction

This training provides users with information on new RPMS/EHR features and releases for:

ED Dashboard

PCC, Diabetes Management, JVN

CQM, iCARE, Reminders, Clinical Reporting System

EHR

This Course is Suitable for the Following Roles

Any nurse and provider that utilizes the RPMS EHR and is an information share only.

Future trainings are likely to be made available, and presented to accompany these releases.

Prerequisites

There're no prerequisites to have prior to this training. However, participants should be familiar with the basic functionality of the RPMS/EHR applications covered in this presentation.

MELANA BARKER

RPMS/EHR UPDATES FOR HEALTH IT

AUGUST 23, 2023



IHS Emergency Department (BEDD/AMER) Updates

BEDD V2.0 P7 & AMER V3.0 P13



BEDD v2.0 p7 & AMER v3.0 p13


- National release of new BEDD/AMER patches 7/31/23
- Enable colors on the ED Dashboard
- Add Providers/Nurse table at bottom of Patient Edit screen
- Identify the column for Triage Nurse/Provider on the Central Log Report
- Display/Hide sections on Main Dashboard
- Identify the Reports button on the Main Dashboard
- Add 2nd Triage/Primary Provider to ED Dashboard

BEDD v2.0 p7 & AMER v3.0 p13

- Add a Nurse's first name to Nurse Column
- Identify label change from "Initial Acuity" to Emergency Severity Index (ESI)
- Move patients back to triage
- Discharge Patients from ED with lookback days greater than site allowable
- Change patient disposition in AMER
- Assign appropriate key to change list of provider dropdowns to only those who work in ER in the Patient Edit screen
- Discharge patients out of PIMS when discharged out of BEDD/AMER



A Few Upcoming FY2024 Features

- Banner color changes based on specific statuses set by site
 - Example: Suicidal Ideation = magenta, Stroke = purple, MI's = blue
- BEDD ESI level color coded
 - Example: 1 and 2 = Red, 3 = orange, 4 and 5= green
- Patient flags to display in Patient Edit screen and site will have the choice to display  on BEDD
- Trauma Registry: Sites will be able to generate a report to see ER patient's that had a trauma activation
- Actions report to be generated containing information pulled from General Notes section on the Patient Edit screen and from the actions column on BEDD

*Note: Additional features will be included in FY24. The listed features require a large amount of effort and the BEDD/AMER team hope to incorporate these features

RENEE CHASE

RPMS/EHR UPDATES FOR HEALTH IT

AUGUST 23, 2023



EHR HIT for Nursing IT

BJPC, BDM, BJVN & BEDD UPDATES



BJPC (PCC)

- BJPCv1.0p28: Released May 26, 2023
- Social Security Number removed from various reports to accommodate IHS Social Security Number Guidelines
- VGEN/PGEN – Patient email address added as print selection item
- QMAN – Increased the query limit to allow new items added to the system to display.
- New TRVY (Tally of Reviewed/Completed Visits by You) report which allows coders to view only their own reviewed/completed visits.
- This patch contains changes to support the Social Security Number Fraud Prevention Act of 2017 and the Social Security Number Reduction Act.



BJPC: FUTURE UPDATES

Future work may include:

- File work involving reproductive factors, refusals deliveries
- PCC report modification
- Work Supporting other application packages



BJVNv1.0p1

- Currently in beta with pending release of the end of September 2023
- Three sites involved.



BJVNv1.0p1

- Notifications are sent to the designated primary provider and the primary care provider who need to review and sign the note in RPMS once the incoming HL7 message has been processed.



BCDM Updates : BCDM v1.0 p1

Allows patient history to be available to readers even if the study is read the same day as the visit (particularly important for stat reads).

Notifications are sent to the designated primary provider and the primary care provider who need to review and sign the note in RPMS once the incoming HL7 message has been processed.



BCDM Updates : BCDM v1.0 p1

- Patch release to update the interface to the latest ICD-10 codes to restore full BCDM application operability in support of sites using the JVN package
- Controlled release
- Natl release 6/30/2022 4:00 AM



BCDM v1.0 p1

- Allows for retrieving of patient data:
 - Labs
 - Medications
 - Procedures
 - Vital Signs
 - Diagnoses



BDM Diabetes care package: BDM v2.0p16

- Created the 2023 Audit menu options.
- Updated the following logic and codes for the 2023 Audit:
 - HEP B Vaccine, Pneumococcal Vaccine, and Tobacco Cessation Education logic
 - Foot Exam CPT
 - DPCS Education CPT
- Updated the following for the 2023 Audit:



BDM Diabetes care package: BDM v2.0p16

- Updated the following logic and codes for the 2023 Audit:
 - HEP B Vaccine, Pneumococcal Vaccine, and Tobacco Cessation Education logic
 - Foot Exam CPT
 - DPCS Education CPT
 - Updated the following for the 2023 Audit:
 - Audit report, Individual Audit, SDPI RKM report validation, Data Quality Report, and.



BDM Diabetes care package: BDM v2.0p16

- Minor text changes.
- Updated depression diagnosis logic to look for documentation of an active diagnosis during the reporting period.
- Updated the Diabetes Master List Report to include deceased patients.
- Updated the DMU with new immunizations and modified refusal logic.
- Updated taxonomies for the 2023 Audit.
- Updated Visual DMS, including the Online Help files for the 2023 Audit.
- Updated Visual DMS Online Help Files for 2023 Audit.
- Removed the Social Security Number from the GEN report header.
- Removed the PreDiabetes Audit Functionality.



BDM Diabetes care package

- Next future patch: BDMv2.0p17
- Background:
 - Future key dates: January 2024 National release
- Logic updates areas of:
 - Tobacco screening, cessation, dental
 - E cigs
 - Blood pressure ranges
 - Various taxonomies
 - Diabetes Patient care summary



BDM Diabetes care package

- More areas to be updated:
 - Various ICD 10 codes
 - Code lists
 - Help files DMS
 - Address SSN



MELINDA NEZ

RPMS/EHR UPDATES FOR HEALTH IT

AUGUST 23, 2023



EHR HIT for Nursing IT

ECQM, CRS, ICARE, &
VA CLINICAL REMINDERS



Electronic Clinical Quality Measures – eCQM v6.0

Important dates:

- Internal testing: 6/1/2023 – 8/9/2023
- Certification Date is 8/24/2023
- Alpha testing dates: 8/1/2023 – 9/21/2023
- Beta-testing dates: 9/22/2023 - 12/7/2023

New Measures:

- Required to report 2023:
 - CMS 871v2 Hospital Harm – Severe Hyperglycemia (HH-02)
 - CMS 816v2 Hospital Harm – Severe Hypoglycemia (HH-01)
- Required to report 2024:
 - CMS 334v4 Cesarean Birth – PC-02
 - CMS 1028v1 Severe Obstetric Complications - PC-07

Clinical Reporting System – BGP v23.1 – New Features release date 7/28/2023

Alcohol Screening

DM: Nephropathy Assessment

DM Blood Pressure Control – Elder Care

DM BP Control – GPRA Developmental
measure

New Screening for Substance Use measures

Remove ICD-9 codes from pregnancy and
other logic

Remove Reused, D/C'd HCPCS codes

GUI – add new version

SBIRT

Statin Therapy measure updates – GPRA
Developmental

Statin Therapy measure updates – 2023 eCQM

Tobacco measures – new HCPCS codes

Help files and Manuals updated

Streamline CABG and PCI definitions

SUD in Women of Childbearing age

Syphilis Screening measure

Lab/Medication Taxonomies

iCare Patient Population Mgmt – BQI – iCare v2.9, patch 5, release date 11/30/2023

Add New Care Mgmt Group-Pain Management (HOPE)

Panel Def-Add filter by CRS Measure Value

Panel Def-Search by Location of Active HRN

Remove/Hide Employee Health from iCare

Modify Depression Screen measure for Diabetes Care Mgmt Group

Asthma Initiative

Panel Definition-Implement New Panel Population Type by Consults

Panel View - Add Definition Details Section for Panels by RPMS Register

Add Referrals as a Flag Event

Change Reminders Default Template to EHR Reminders

CMET for Suicide Prevention

iCare Due/Overdue Immunization Notifications

Allow iCare Users to add Comments to Referral

Patient Rec - PCC Meds - Add Behavioral Health Filter

Add ICD Procedures to PCC Panel Definition

Export fields for Telephone calls like Mail Merge

Allow iCare Users to Add Custom Panel Columns

New Panel View tab for High Risk Conditions

iCare, View - Select Split View should default to Flags not IPC

Report on Reminder Notifications

VA Clinical Reminder - PXRM

PXRM v2.0, patch 2010

Release date: 8/31/2023

New Features – Remove monovalent Covid booster

PXRM v2.0, patch 1014

Release date: TBD

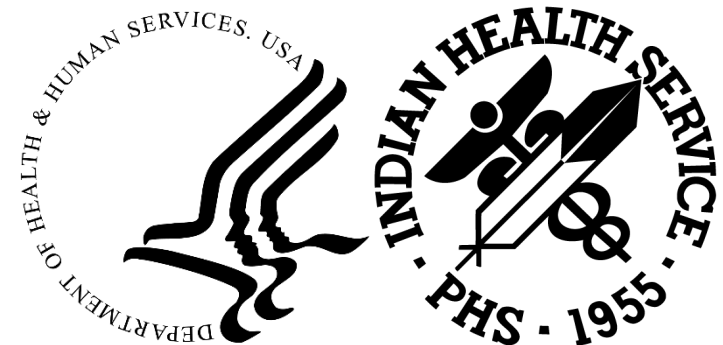
New Features: Update select 2015 Clinical Reminders to 2021 and selection is yet TBD; selection after p2010 release.

EHRp35 for Nursing IT

LESLIE R. WHITE

RPMS/EHR UPDATES FOR HEALTH IT

AUGUST 23, 2023



Installation/Dependencies

- Additional requirement for BHS p19 **is the** BHS*1.0*18
- Additional requirement for TIU p1028 **is the** TIU*1.0*1027

Read each Notes file (.n) associated with the patch:

- a) VA Kernel (XU) v8.0 patch 1019 or later
- b) VA FileMan (DI) v22.0 Patch 1018 or later
- c) HealthShare 2017.2.2
- d) EHR*1.1*34
- e) Microsoft Visual C++ 2008 and 2010 redistributable packages
(This requirement applies to using the IHS VIEWER component
in RPMS EHR and not installation)
- f) BI*8.5*25

EHRp35 Features

EPCS - Modify EHR order check for GHB drugs to improve efficiency and decrease overall medication ordering slowness

EPCS - Remove EHR order check for Detox drugs no longer requiring DEA X

CCDA - Hyperlinks Fix

CCDA Add message to the 'Recent Vital Signs' header

Fixing CIR - Issues Found in EHRp33

Immunizations - Print Record Fix

Fluid (Patient) Input and Fluid Output (I/O) to document fluid input/output in RPMS EHR

EHR - Various Components - Display Preferred Name Phase

EPCS Log Summary - Cancelled Order Events Error Fix

CIR - 2015 CHIT Beta Findings and Enhancement Requests

Implantable Device List - Add Effective Until: Date to Device

E&M Component not allowing more than one Subsequent inpatient CPT code selection Fix

Change to behcprs20.bpl to eliminate redundant RPC Calls when Ordering Dialog is launched

Mitigation of Thread 6 Errors in Components

Slowness Dev Item in VIM Trace Log Improvements

Update Virtual Basic (VB) components and Telerik Controls –

Immunizations

EPCS - BEPC - Cowlitz - BEHO EPCS Audit Summary task error

EPCS reports - Number of Records is Incorrect in BUSA Integrity Check process

Immunizations - Add VIS Presented Date Field to Immunization Component

IPL - CVG - Receiving Add CVGC Error when selecting Cancel to Signing Visit

Instructions, Care Plan, Goal Notes

IPL - Resolving Usability and Data Integrity Issues when using the IPL

IPL/POV - Not honoring New vs Established patient radio buttons Fix

Resolving Patient (Fluid) Intake & Output (Fluid I&O) - Phase 2 Issues found in EHRp33

Patient Goals - EHR- Resolving Patient Goals Component Updating Incorrectly

Updating POV to primary thru Visit diagnosis component does not update if updated thru adding a new POV and another was Primary

Set Auditing for Patient Goals to NO in VA FM

RPMS Select VA FileMan Option: OTHER Options

- Select Other Options Option: AUDIT Menu
 - Select Audit Menu Option: TURN Data Audit On/Off
 - AUDIT FROM WHAT FILE: PATIENT GOALS//
 - STEP FACILITY (multiple)
 - Select STEP FACILITY SUB-FIELD: .01 STEP FACILITY y

Select Audit Menu Option: TURN Data Audit On/Off

AUDIT FROM WHAT FILE: PATIENT GOALS//

Select FIELD: STEP FACILITY (multiple)

Select STEP FACILITY SUB-FIELD: STEP FACILITY n

AUDIT: Y// **IF Y change to N for NO**

EHR v1.1p35/TIU v1.0p1028/BHS v1.0p19

Highlights

Electronic Prescribing of Controlled Substances (EPCS)

Consolidated-Clinical Data Architecture (CCDA)

Implantable Device List (IDL) Changes – Dr. Peter Ziegler

Patient Intake and Output (I&O)

Patient Preferred Name (PPN)

Immunizations – New Component

Integrated Problem List (IPL) Changes/Fixes -

EHRp35 – Electronic Prescribing of Controlled Substances (EPCS)



EPCS Changes in P35

Changes were made to two order checks related to Electronic Prescribing of Controlled Substances (EPCS):

The order check for a Narcotic Addiction DEA Number (NADEAN, XDEA, DEAX, Detox number) was eliminated due to the elimination of the DATA Waiver Program.

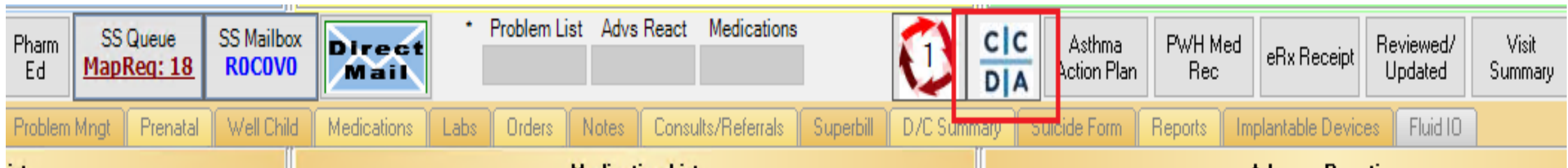
The order check related to the prescribing of Sodium Oxybate (Xyrem) was reworked for greater efficiency to reduce delays in the ordering process. The order check will no longer check inactive dispense drugs associated with a given orderable item and will perform the checks in a more efficient order.

EHRp35 – Consolidated-Clinical Data Architecture (CCDA)



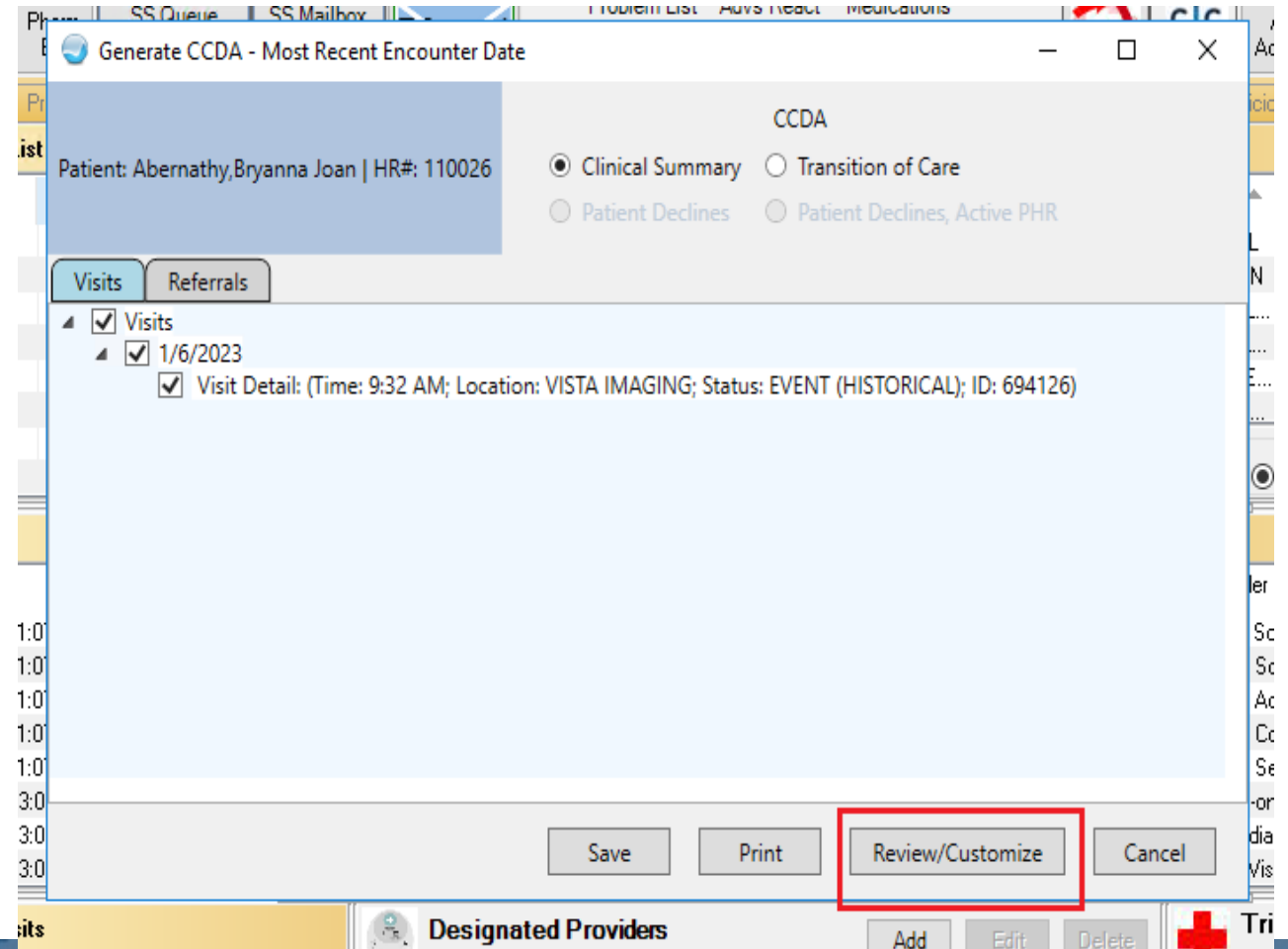
How to activate the CCDA button

Open EHR, select a patient, a visit and navigate to the CCDA icon



Where to access the CCDA hyperlinks

Leave default radio button selection and visit selection and click on the Review/Customize button



CCDA Table of Contents

- Select a CCDA section from the table of contents and click on the hyperlink. CCDA will move to that section of the document.

CCDA - Clinical Summary
Patient: Abernathy, Bryanna Joan | HR#: 110026

- ✓ Clinical Document
 - ✓ Reason for Visit
 - ✓ Problems/Encounter Diagnoses
 - ✓ Active
 - ✓ Common cold [82272006]
 - ✓ ASD-ATRIAL SEPTAL DEFECT [745.5]
 - ✓ PULMONARY HTN [416.8]
 - ✓ Ross River disease [789400009]
 - ✓ Asthma [195967001]
 - ✓ Acne [11381005]
 - ✓ PATENT DUCTUS ARTERIOSUS [747.0]
 - ✓ Acute stroke [457551000124104]
 - ✓ Headache [25064002]
 - ✓ Hypertension AND/OR vomiting complicating pregnancy childbirth AND/OR puerperium [106005003]
 - ✓ Essential hypertension [59621000]

- For help on this subject press F1.
- ✓ Jan 3, 2023 - OTHER - 2017 DEMO CLINIC TEHRA - FAY STRUBLE
- ✓ Ross River disease [789400009]
- ✓ Acne [11381005]
- ✓ Essential hypertension [59621000]
- ✓ Common cold [82272006]
- ✓ Asthma [195967001]
- ✓ Hypertension AND/OR vomiting complicating pregnancy childbirth AND/OR puerperium [106005003]
- ✓ Dec 27, 2022 - OTHER - 2017 DEMO CLINIC TEHRA - SURYAM PALANKI
- ✓ Vaccination given [713404003]
- ✓ Nov 25, 2022 - OTHER - 2017 DEMO CLINIC TEHRA - FAY STRUBLE
- ✓ Oct 6, 2022 - OTHER - 2017 DEMO CLINIC TEHRA - FAY STRUBLE
- ✓ Sep 1, 2022 - GENERAL - 2017 DEMO CLINIC TEHRA - FAY STRUBLE
- ✓ fever [A79.0]
- ✓ Apr 6, 2022 - EMERGENCY MEDICINE - 2017 DEMO CLINIC TEHRA - FAY STRUBLE
- ✓ Jan 10, 2022 - GENERAL - 2017 DEMO CLINIC TEHRA - FAY STRUBLE
- ✓ Assessment and Plan
- ✓ Summary List of Ordered Tests (not including tests with results)
- ✓ Referrals and Consultations
- ✓ Future Appointments
- ✓ Recent Vital Signs
- ✓ Allergies and Intolerances
- ✓ Active allergies
 - ✓ BEEPEN [70618] - POSSIBLE REACTANT
 - ✓ AMOXIL [723] - POSSIBLE REACTANT
 - ✓ PROMETHAZINE [448, 8745] - H1 RECEPTOR ANTAGONIST
 - ✓ TYLENOL WITH CODEINE NO.3 [N02BA01] - ANALGESIC
 - ✓ MAXALT-MLT [88014] - ANXIETY
 - ✓ LIRAGLUTIDE [475968] - CHEST PAIN
- ✓ Inactive allergies
- ✓ Medications
- ✓ Given during visit
- ✓ Outpatient Medications

- [Procedures and Interventions](#)
- [Goals](#)
- [Health Concerns](#)
- [Medical Equipment \(Implantable Devices\)](#)
- [Social History \(Smoking Status\)](#)
- [Recent Test Results](#)
- [Immunizations](#)
- [Progress Notes](#)
- [Consultation Notes](#)
- [History and Physical Notes](#)
- [Care Team](#)

Security and Privacy Prohibitions

This information, except for Alcohol and Drug Abuse Patient Records as defined in 42 Code of Federal Regulations, Part 2, may be subject to redisclosure by the recipient and may no longer be protected by the Health Insurance and the Privacy Act of 1974, as amended.

Reason for Visit

No Reason Information for the extraction criteria

Problems/Encounter Diagnoses

Active:

- Common cold [82272006]
- ASD-ATRIAL SEPTAL DEFECT [745.5]
- PULMONARY HTN [416.8]
- Ross River disease [789400009]
- Asthma [195967001]
- Acne [11381005]
- PATENT DUCTUS ARTERIOSUS [747.0]
- Acute stroke [457551000124104]
- Headache [25064002]
- Hypertension AND/OR vomiting complicating pregnancy childbirth AND/OR puerperium [106005003]
- Essential hypertension [59621000]

Inactive (personal history):

- None

*Reasons for today's visit

Recent Encounters

Jan 3, 2023 - OTHER - 2017 DEMO CLINIC TEHRA - FAY STRUBLE:

- Ross River disease [789400009]
- Acne [11381005]
- Essential hypertension [59621000]
- Common cold [82272006]
- Asthma [195967001]
- Hypertension AND/OR vomiting complicating pregnancy childbirth AND/OR puerperium [106005003]

Dec 27, 2022 - OTHER - 2017 DEMO CLINIC TEHRA - SURYAM PALANKI:

- Vaccination given [713404003]

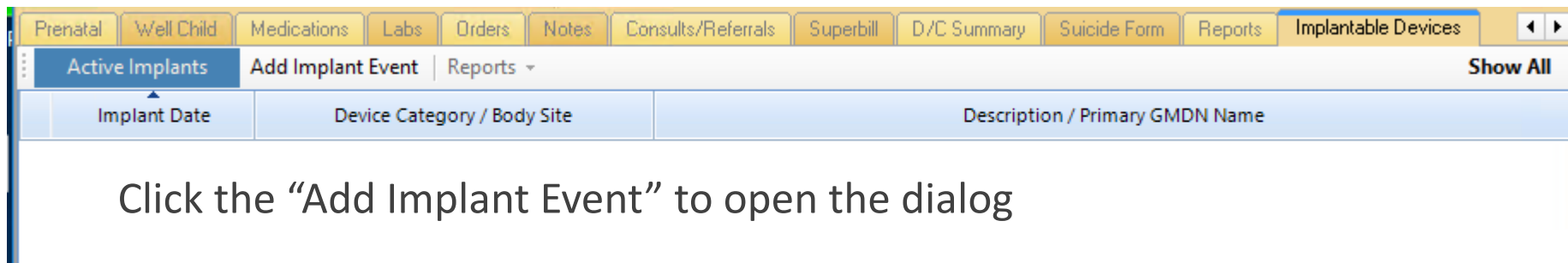
Nov 25, 2022 - OTHER - 2017 DEMO CLINIC TEHRA - FAY STRUBLE

EHRp35 – Implantable Device List (IDL)



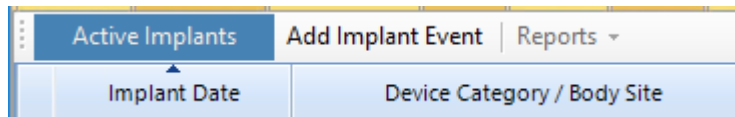
Access the Implantable Device List

Open the EHR, select a patient and visit, and navigate to the Implantable Device tab



The screenshot shows a software interface with a top navigation bar containing tabs: Prenatal, Well Child, Medications, Labs, Orders, Notes, Consults/Referrals, Superbill, D/C Summary, Suicide Form, Reports, and Implantable Devices. Below this is a sub-menu with 'Active Implants', 'Add Implant Event', and 'Reports'. A mouse cursor is pointing at the 'Add Implant Event' button. Below the sub-menu is a table header with three columns: 'Implant Date', 'Device Category / Body Site', and 'Description / Primary GMDN Name'. A 'Show All' link is visible on the right side of the table header.

Click the “Add Implant Event” to open the dialog



This is a close-up view of the 'Add Implant Event' button from the previous screenshot. It shows the button's position relative to the 'Active Implants' and 'Reports' buttons in the sub-menu, and the 'Implant Date' and 'Device Category / Body Site' columns of the table below it.

Complete “Effective Until” Field

Complete the three mandatory fields

- Device Category
- Implant Description
- Implanted Date

Add Implant for Demo, Patient Ziggy

(Free text, up to 75 characters)

Device Category* Implant Description* 2017 DEMO CLINIC TEHRA

Implanted at (facility)

Implant Location (optional) Implanted Date* ZIEGLER, PETER

Effective Until Implanter

Associated Problem (optional) Enter procedure code

Procedure - CPT/ICD-10 PC

Comments

Add Comment

Add a Device | Remove a Device

Click 'Add a Device' to enter details...

Save Cancel

“Effective Until” date entry is enabled once the “Implanted Date” field is completed

Add Implant for Demo, Patient Ziggy

Cardiovascular

Device Category* Implant Description*

01/18/2023

Implant Location (optional) Implanted Date* Implanted at (facility)

ZIEGLER, PETER

Implanter

Procedure - CPT/ICD-10 PC

Associated Problem (optional)

Comments

1/18/2023...

|

Click 'Add a Device' to enter details...

“Effective Until” date must be AFTER the “Implanted Date”

An error will appear if the user attempts to save with an invalid “Effective Until” date

Add Implant for Demo, Patient Ziggy

Cardiovascular
Device Category*

Pacemaker
Implant Description*

2017 DEMO CLINIC TEHRA
Implanted at (facility)

ZIEGLER, PETER
Implanter

01/18/2023
Implanted Date*

9/11/2019
Effective Until

Enter procedure code
Procedure - CPT/ICD-10 PC

Associated Problem (optional)

Comments

Add Comment

Add a Device

Unable to Save Device

This implantable device cannot be saved for the following reason(s):
Effective Date must be greater than Implant Date.

OK

Save Cancel

Click 'Add a Device' to enter details...

Detailed Report

Active Implants		Add Implant Event	Reports
Implant Date	Device Category		
01/18/2023	Cardio	Pacemaker	<ul style="list-style-type: none">SummaryDetailed

Implanted Device Report

Implanted Devices for DEMO,PATIENT ZIGGY

HRN: T00038
Location: 2017 DEMO CLINIC TEHRA
Requested by ZIEGLER,PETER at 01/18/2023 11:34:56.

Detailed Report

Implant Date: 01/18/2023
Category: Cardiovascular
Body Location:
Facility: 2017 DEMO CLINIC TEHRA
Effective Until: 09/14/2033
Status: Active

Description: Pacemaker
Associated Problem:

No device information available

Close

Edit the Effective Until Date

Active Implants			Add Implant Event	Reports ▾
Implant Date	Device Category / Body Site			
01/18/2023	Cardiovascular	Pacemaker		

- View/Edit Implant Ctrl+E
- Add New Implant Ctrl+N
- Set Inactive ▶
- Details

View/Edit Implantable Device

Cardiovascular Device Category* Pacemaker Implant Description* 2017 DEMO CLINIC TEHRA

01/18/2023 Implant Location (optional) 9/14/2033 Effective Until 01/18/2023 Implanted Date ZIEGLER, PETER Implanter

Enter procedure code Procedure - CPT/ICD-10 PC

Associated Problem (optional)

Comments

Add Comment

Add a Device Remove a Device Checked if device info was manually entered

Click 'Add a Device' to enter details...

Save Changes Cancel

EHRp35 – Patient Intake & Output (I&O)



EHR v1.1 p35 | Patient Intake and Output (I&O)

Introduction

- The new I&O component permits users to enter and view the patient's intake and output data. Data can be graphed over time. This is a new component and is designed to replace paper Intake and Output sheets. Please read all the documentation for EHR v1.1 patch 35 and associated patches.
- The EHR Display for I&O allows sites to customize certain options, such as the default Intake type, the warning level for maximum volume entries, and the types of IV intake displayed. See the User Manual for detailed instructions.
- Site CAC must add the "Patient Intake/Output" object to a tab in their EHR.

EHR v1.1 p35 | Patient I&O

Intake and Output Component

- Viewing the Data

The screenshot displays the EHR interface for patient **Demo, Smeighteen** (181819, 19-Mar-1981, F). The patient is currently in the **MED/SURG** department, admitted on **15-Dec-2021 15:13** as an **Inpatient**. The attending physician is **Austin, Latona**.

The **Intake and Output** component is active, showing data for the **last 24 hours**. The interval is set to **24 Hours**. The data table below shows the following values:

Type	Volume
Intake	0
IV Intake	0
Output	0

The **Totals for last 24 hours** section shows a **Fluid difference: 0**.

The **Intake** line graph shows **Volume (ml)** on the y-axis (0 to 600) and **Time Period** on the x-axis (01-Jan-2022 to 01-Oct-2022). The graph shows several peaks, with the highest peak reaching approximately 500 ml in early January 2022.

Type	12/19/2022 10:38	12/19/2022 10:38	12/19/2022 10:37	12/19/2022 10:37	12/19/2022 10:37	12/18/2022 10:39	12/15/2022 09:05	12/15/2022 09:05
Intake	78	56				56		
IV Intake			600	44	55	500	44	4000
Output		45						

EHR v1.1 p35 | Patient I&O

Patient I&O Data Entry

Interval	Type	01/18/2023 13:01	12/19/2022 10:38	12/19/2022 10:38
<input type="radio"/> 8 Hours	Click To Enter I/O			
<input type="radio"/> 12 Hours				
<input checked="" type="radio"/> 24 Hours				
Totals for last 24 hours				

Type	01/18/2023 13:01	12/19/2022 10:38	12/19/2022 10:38	
Enter Patient Input/Output Values				
01/18/2023 13:03	Type:	<input checked="" type="radio"/> Intake	<input type="radio"/> IV Intake	<input type="radio"/> Output
Value in Milliliters(ml)				

Enter Patient Input/Output Values

01/19/2023 12:32 Type: Intake IV Intake Output

Value in Milliliters(ml)

<input type="checkbox"/> Irrigation	0	Comment
<input checked="" type="checkbox"/> Oral	55	Milk
<input type="checkbox"/> Tube Feeding	0	Comment
<input type="checkbox"/> Other	0	Comment

Volume Total: 55 Activity

Save Cancel

Enter Patient Input/Output Values

01/19/2023 12:34 Type: Intake IV Intake Output

Value in Milliliters(ml)

<input checked="" type="checkbox"/> Admixture	2,000	RL
<input checked="" type="checkbox"/> Blood Products	50	PRBC
<input type="checkbox"/> Heparin/Saline Lock	0	Comment
<input type="checkbox"/> Hyperal	0	Comment
<input type="checkbox"/> Intralipids	0	Comment
<input type="checkbox"/> Piggyback	0	Comment

Volume Total: 2,050 Activity

Save Cancel

Enter Patient Input/Output Values

01/18/2023 13:03 Type: Intake IV Intake Output

Value in Milliliters(ml)

<input checked="" type="checkbox"/> Blood	50	Comment
<input type="checkbox"/> Drainage	0	Comment
<input type="checkbox"/> Emesis	0	Comment
<input type="checkbox"/> Feces	0	Comment
<input type="checkbox"/> N/G	0	Comment
<input checked="" type="checkbox"/> Urine	250	Comment
<input type="checkbox"/> Other	0	Comment

Volume Total: 50 Activity

Save Cancel

EHR v1.1 p35 | Patient I&O

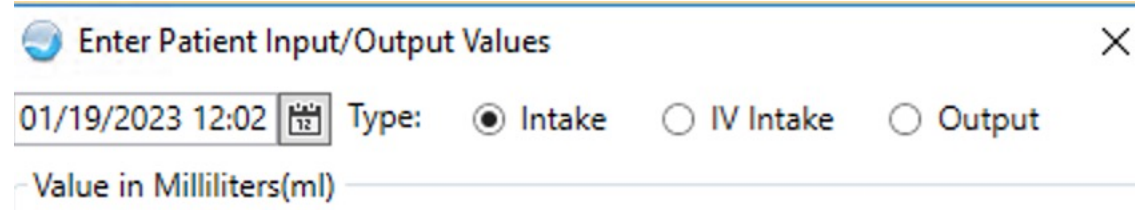
Changing the I&O Defaults

- RPMS General Parameters menu (XX)
- EP to edit parameter values
- BEHOGMY
 - Choose to edit any of the three types:
 - BEHOGMY DEFAULT ENTER TYPE (Default is "intake". Can change to IV intake or output)
 - BEHOGMY WARN AT LEVEL (Default is 5000. Can change to another amount for warning)
 - BEHOGMY EXCLUDE IV TYPES (Default does not exclude any type. Choose to exclude)

EHR v1.1 p35 | Patient I&O

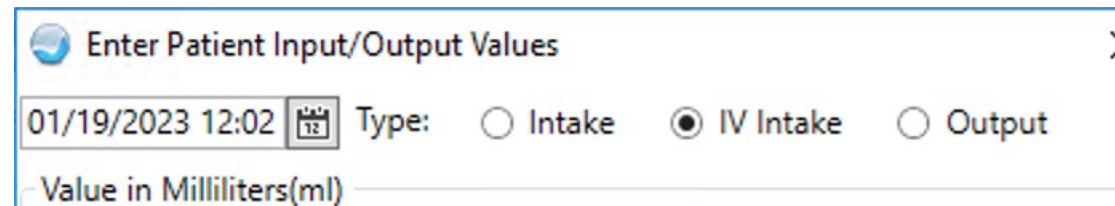
Changing default enter type:

- The default radio button for entering patient I&O is “Intake”:



A screenshot of a web form titled "Enter Patient Input/Output Values" with a close button (X) in the top right. The form contains a date and time input field showing "01/19/2023 12:02" with a calendar icon. To the right of the date is the label "Type:" followed by three radio button options: "Intake" (which is selected), "IV Intake", and "Output". Below these options is a text input field with the placeholder text "Value in Milliliters(ml)".

- This can be changed to “IV Intake” or “Output” if desired:

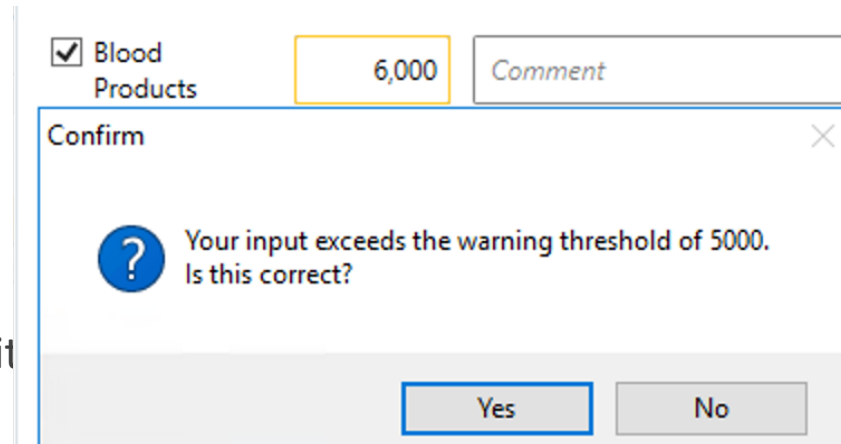


A screenshot of the same web form as above, but with the "IV Intake" radio button selected. The date and time input field still shows "01/19/2023 12:02". The "Type:" label is followed by "Intake", "IV Intake" (selected), and "Output". The text input field for "Value in Milliliters(ml)" is visible below.

EHR v1.1 p35 | Patient I&O

Changing the warning level.

- If a user enters a value above the warning level they see this warning:



The screenshot shows a web form with a checked checkbox labeled "Blood Products", a text input field containing "6,000" (highlighted with a yellow border), and a "Comment" field. A "Confirm" dialog box is overlaid on the form, displaying a question mark icon and the text: "Your input exceeds the warning threshold of 5000. Is this correct?". The dialog box has "Yes" and "No" buttons at the bottom.

- This value can be changed for the site

EHR v1.1 p35 | Patient I&O

Editing the types of IV input that display.

- Default displays all available in RPMS:

Enter Patient Input/Output Values

01/19/2023 12:34 [calendar icon] Type: Intake IV Intake Output

Value in Milliliters(ml)

<input checked="" type="checkbox"/> Admixture	<input type="text" value="2,000"/>	<input type="text" value="RL"/>
<input checked="" type="checkbox"/> Blood Products	<input type="text" value="50"/>	<input type="text" value="PRBC"/>
<input type="checkbox"/> Heparin/Saline Lock	<input type="text" value="0"/>	<input type="text" value="Comment"/>
<input type="checkbox"/> Hyperal	<input type="text" value="0"/>	<input type="text" value="Comment"/>
<input type="checkbox"/> Intralipids	<input type="text" value="0"/>	<input type="text" value="Comment"/>
<input type="checkbox"/> Piggyback	<input type="text" value="0"/>	<input type="text" value="Comment"/>

- This can be edited (in RPMS):

Enter Patient Input/Output Values

01/19/2023 12:41 [calendar icon] Type: Intake IV Intake Output

Value in Milliliters(ml)

<input type="checkbox"/> Admixture	<input type="text" value="0"/>	<input type="text" value="Comment"/>
<input type="checkbox"/> Blood Products	<input type="text" value="0"/>	<input type="text" value="Comment"/>
<input type="checkbox"/> Heparin/Saline Lock	<input type="text" value="0"/>	<input type="text" value="Comment"/>
<input type="checkbox"/> Piggyback	<input type="text" value="0"/>	<input type="text" value="Comment"/>

EHR v1.1 p35 | Patient I&O

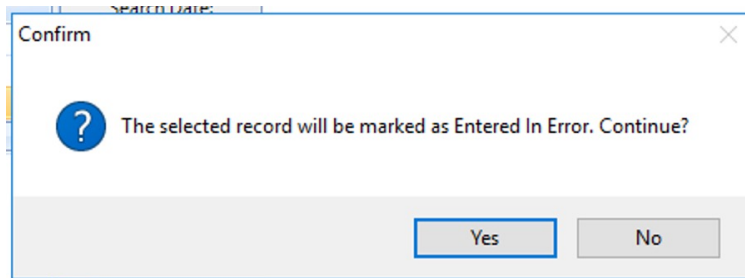
Entries can be edited or marked as “Entered in Error”

Type	04:29	01/27/2022 15:54	01/27/2022 15:54	0
Oral Intake		200		
IV Intake		5000		
Output		50		

Search Date: <

Context menu options: Edit, Mark as EIE

Must confirm “Entered in Error”



EHR v1.1 p35 | Patient I&O

Ad Hoc I&O must be added to Ad Hoc menu by CAC

Using the Health Summary Maintenance Menu, edit an Ad Hoc health summary by adding a new component, IO, and placing it on the ad hoc list of items.

Detailed instructions are in user manual.

EHR v1.1 p35 | Patient I&O Ad Hoc Health Summary

Ad Hoc Health Summary (must be added to Ad Hoc Menu and accessed from “reports” in EHR)

Available Reports

- Vital Signs
- Eye-glass Prescription
- Graphing (local only)
- I&O Summary

Date Range

- Date Range...
- Today
- One Week Back
- Two Weeks Back
- One Month Back
- Six Months Back
- One Year Back
- Two Years Back
- All Results
- 13-Jan-2022 to 20-Jan-2022

I&O Summary [From: Jan 13,2022 to Jan 20,2022]

TEST, PATIENT REG 449991 OCT 22, 1989 (32 YRS) FEMALE
 UNIT: MED/SURG RM/BED: BLANK
 DIVISION:

PATIENT INTAKE/OUTPUT SUMMARY

JAN 13, 2022 - JAN 20, 2022@23:59:59

TIME	INPUT				OUTPUT								
	IV FLUID	IV IVPB	PO		TUBE	IRRIG	OTHER	URINE	N/G	EMESI	DRAIN	FECES	OTHER

1/19/22													
14:00	444		333				555						

1/20/22													
01:00		150	666					250					
03:09										642			
12:00	1000			200	100			500		150			

DAILY TOTALS													
1/19/22	Intake: 333		IV Intake: 444		Output: 1110		Fluid balance:-333						

EHR v1.1 p35 | I&O Summary Report

Intake and Output Summary Report

New report added to list of available reports

This is similar to IO Health Summary but added functionality

- Allows precise start and stop time and date
- Includes summary of fluid balance

Can run report for a precise time period by entering both the time and date for start and finish.

Report can be copied and pasted into provider note

EHR v1.1 p35 | I&O Summary Report

Summary report is added by CAC.

BEHO I&O SUMMARY must be added to ORWRP REPORT LIST from the general parameters menu in RPMS.

Detailed instructions are in user manual.

EHR v1.1 p35 | Patient I&O Report

Available Reports	I&O Summary [From: Jan 16,2023 to Jan 18,2023]	DAILY TOTALS																																																																						
<ul style="list-style-type: none"> Vital Signs EyeGlasses Prescription Graphing (local only) I&O Summary 	<p>-----</p> <p>DEMO, SMEIGHTEEN 181819 MAR 19,1981 (41 YRS) FEMALE</p> <p>UNIT: MED/SURG RM/BED: BLANK</p> <p>DIVISION:</p>	<p>1/17/23 Intake: IV Intake: 100 Output: Fluid balance: 100</p> <p>1/18/23 Intake: 50 IV Intake: 2500 Output: 800 Fluid balance: 1750</p> <p>1/18/23 Intake: 105 IV Intake: 2000 Output: 300 Fluid balance: 1805</p> <p>1/18/23 Intake: 99 IV Intake: Output: Fluid balance: 99</p>																																																																						
<p>Date Range</p> <p>Date Range...</p> <p>Today</p> <p>One Week Back</p> <p>Two Weeks Back</p> <p>One Month Back</p> <p>Six Months Back</p> <p>One Year Back</p> <p>Two Years Back</p> <p>All Results</p> <p>11-Jan-2023 to 18-Jan-2023</p> <p>16-Jan-2023 07:00 to 18-Jan-2023 14:2</p>	<p>PATIENT INTAKE/OUTPUT SUMMARY</p> <p>JAN 16, 2023@07:00 - JAN 18, 2023@14:24:07</p> <table border="1"> <thead> <tr> <th>TIME</th> <th>INPUT</th> <th>OUTPUT</th> </tr> <tr> <th></th> <th>ADMIX BLOOD PO</th> <th>TUBE IRRIG URINE N/G BLOOD</th> </tr> </thead> <tbody> <tr> <td colspan="3">-----</td> </tr> <tr> <td>1/17/23</td> <td></td> <td></td> </tr> <tr> <td>13:03</td> <td> 100 </td> <td> </td> </tr> <tr> <td colspan="3">-----</td> </tr> <tr> <td>1/18/23</td> <td></td> <td></td> </tr> <tr> <td>13:01</td> <td> 2500 </td> <td> 150 800 </td> </tr> <tr> <td>13:03</td> <td> 2000 </td> <td> 55 150 250 150 </td> </tr> <tr> <td>13:53</td> <td> </td> <td> 155 144 </td> </tr> </tbody> </table>	TIME	INPUT	OUTPUT		ADMIX BLOOD PO	TUBE IRRIG URINE N/G BLOOD	-----			1/17/23			13:03	100		-----			1/18/23			13:01	2500	150 800	13:03	2000	55 150 250 150	13:53		155 144	<p>TOTAL SUMMARY</p> <p>Intake: 254 IV Intake: 4600 Output: 1100 Fluid Balance: 3754</p> <p>COMMENTS:</p> <table border="1"> <thead> <tr> <th>Date/Time</th> <th>Type</th> <th>Amount</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>1/17/23 13:03</td> <td>IV</td> <td>100</td> <td>BLOOD/BLOOD PRODUCTS: WB</td> </tr> <tr> <td>1/18/23 13:01:25</td> <td>Intake</td> <td>50</td> <td>IRRIGATION:</td> </tr> <tr> <td>1/18/23 13:01:25</td> <td>IV</td> <td>2500</td> <td>ADMIXTURE:</td> </tr> <tr> <td>1/18/23 13:01:25</td> <td>Output</td> <td>800</td> <td>URINE:</td> </tr> <tr> <td>1/18/23 13:03:44</td> <td>Intake</td> <td>50</td> <td>IRRIGATION: Chest tube</td> </tr> <tr> <td>1/18/23 13:03:44</td> <td>Intake</td> <td>55</td> <td>PO: Milk</td> </tr> <tr> <td>1/18/23 13:03:44</td> <td>IV</td> <td>2000</td> <td>ADMIXTURE: NS</td> </tr> <tr> <td>1/18/23 13:03:44</td> <td>Output</td> <td>50</td> <td>BLOOD:</td> </tr> <tr> <td>1/18/23 13:03:44</td> <td>Output</td> <td>250</td> <td>URINE:</td> </tr> </tbody> </table>	Date/Time	Type	Amount	Comment	1/17/23 13:03	IV	100	BLOOD/BLOOD PRODUCTS: WB	1/18/23 13:01:25	Intake	50	IRRIGATION:	1/18/23 13:01:25	IV	2500	ADMIXTURE:	1/18/23 13:01:25	Output	800	URINE:	1/18/23 13:03:44	Intake	50	IRRIGATION: Chest tube	1/18/23 13:03:44	Intake	55	PO: Milk	1/18/23 13:03:44	IV	2000	ADMIXTURE: NS	1/18/23 13:03:44	Output	50	BLOOD:	1/18/23 13:03:44	Output	250	URINE:
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EHR v1.1 p35 | Patient I&O Data Objects

I&O Data Objects have been created –

- I&O-8HRS, I&O-12HRS, I&O-24HRS

CAC must add these to templates before providers can use in notes

Header must be locally created (8 hr, 12 hr, 24 hr)

```
8hrs Intake and output  
08 Dec 2021 14:37:27 Location: GENERAL Entered By: USER, DEMO
```

```
Intake  
PO 350ml  
IRRIGATION 50ml  
IV Intake  
PIGGYBACK 150ml  
Output  
DRAINAGE 50ml  
EMESIS 100ml  
URINE 300ml
```

EHRP35 – PATIENT PREFERRED NAME (PPN)



How to Enter a Patient's Preferred First Name (PFN)

RPMS Registration

IHS REGISTRATION EDITOR (page 7) INDIAN HEALTH HOSPITAL

=====

DOE, JOHN E HRN:5194 CHS & DIRECT

=====

Death Info/Other Names

1. DATE OF DEATH :

2. STATE OF DEATH :

3. DEATH CERTIFICATE NO. :

----- Other Names -----

4. OTHER NAMES : DOE, JOHN

5. **PREFERRED NAME :**

----- Legal Names -----

CHANGED TO	BY	PROOF	DOC. #	DATE
6. <NO LEGAL NAME CHANGES ON FILE>				

=====

Last edited by: DEMO,USER M on May 04, 2020

=====

CHANGE which item? (1-6) NONE// :

BPRM Registration

STRUBLE, FAITH E - SHICKAWASHANER* SSN: XXX-XX-8741 Sex: M Liability Status: CHS & DIRECT View: NO
01/01/1965 (37y) FEMALE HRN: 125896 Active Insurance: NO
Last Updated: 12/7/2022 (STRUBLE,FAI) PCP: Veteran

Profile Details Appointments ADT Record Flags Errors Warnings Print

Demographics Family Tribal **Names & HRN** Document Summary Legal Documents Veteran Migrant/Homeless Notes Errors/Warnings SCD/OT

Preferred Name Edit

SHICKAWASHANER

Legal Names Add Edit Delete

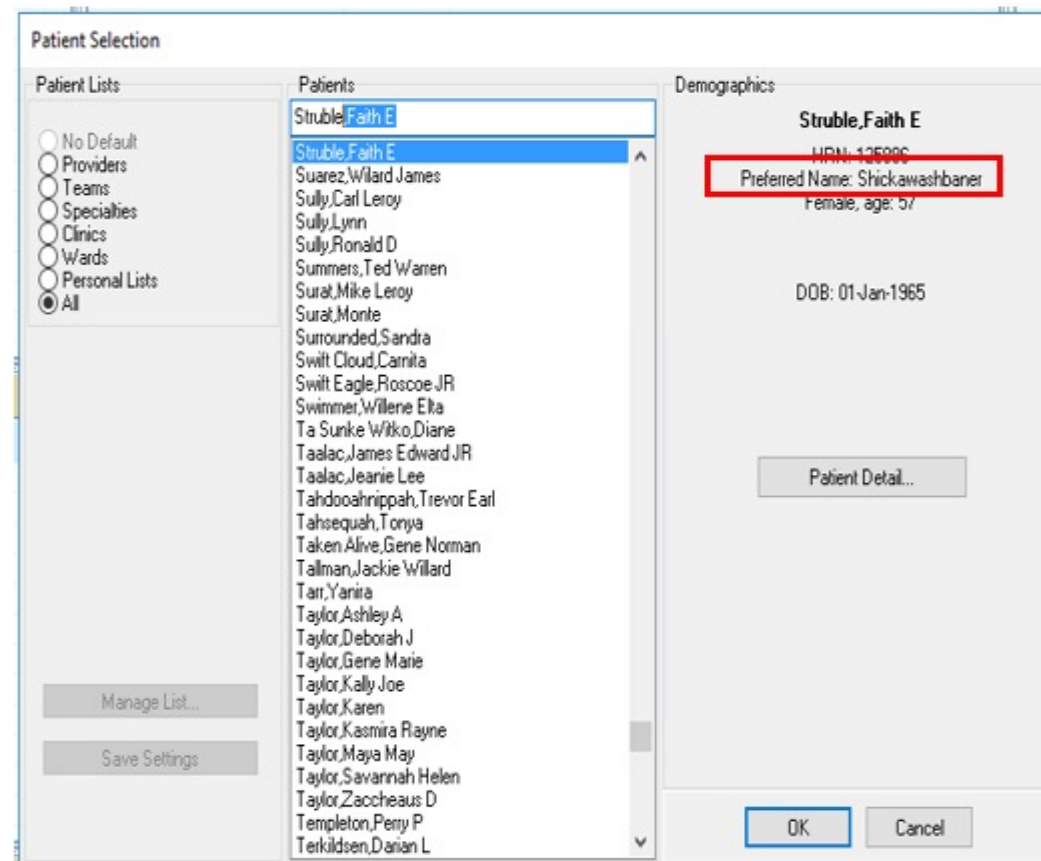
Document Number	Name Changed To	Date Changed	Proof Provided
-----------------	-----------------	--------------	----------------

Health Record Number Change Health Record Number

Record Number	Facility	Status	Record Disposition	Inactivated on
13506	2017 DEMO CLINIC THRA			

Where to View Patient First Name (PFN) in EHR

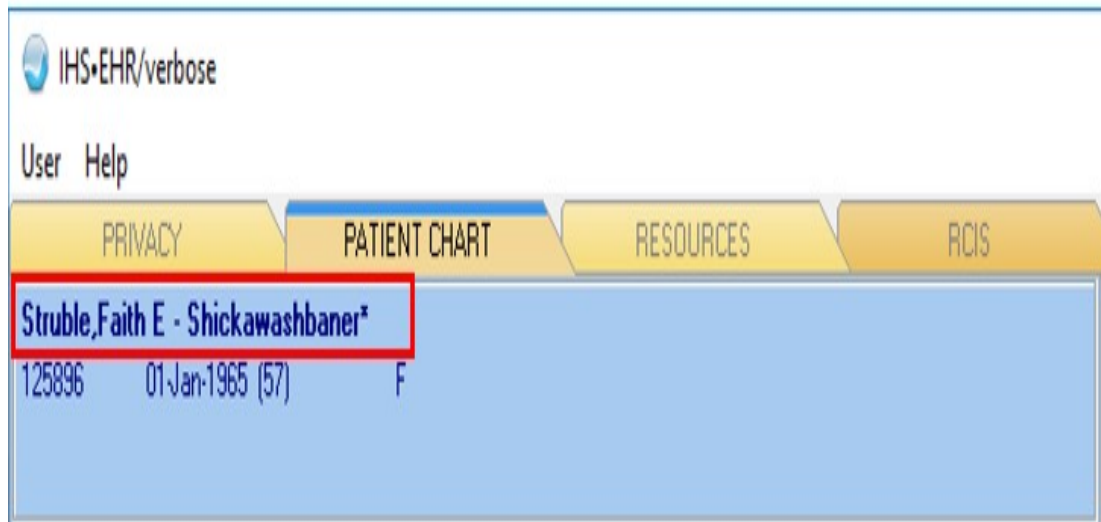
Patient Selection Dialog



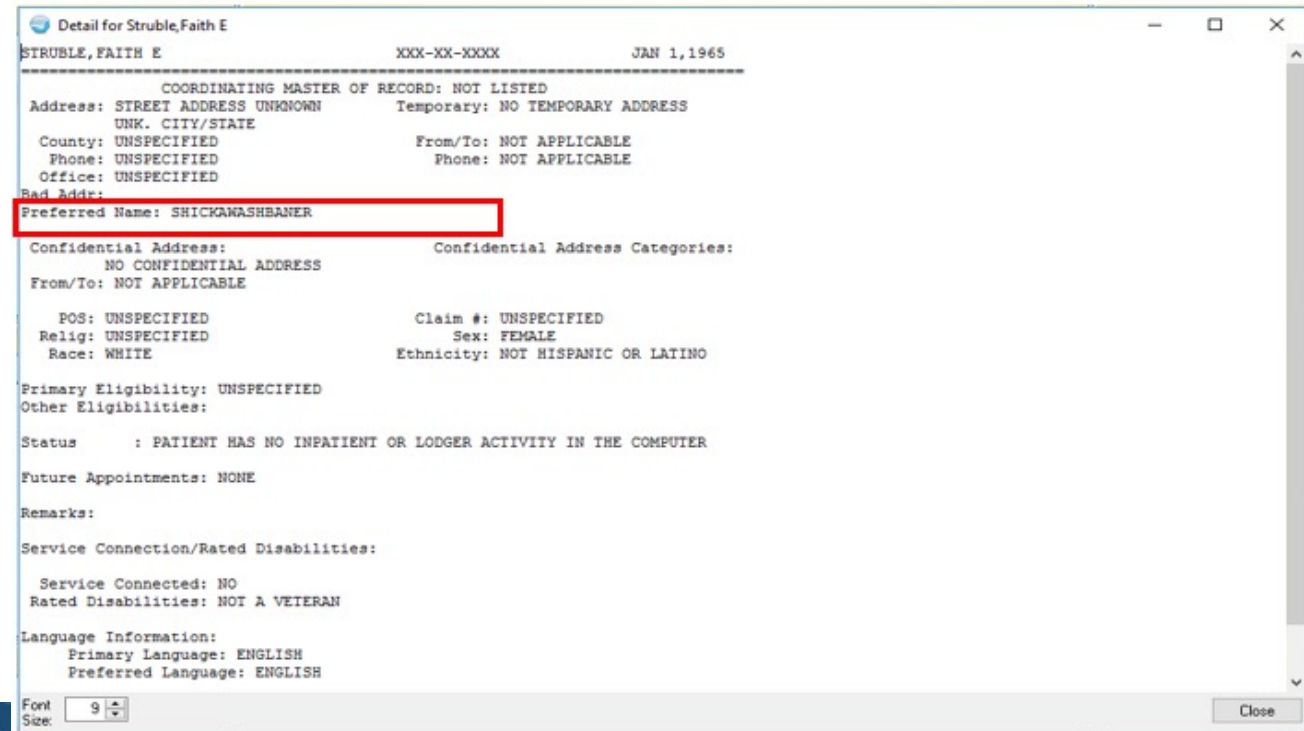
Where to View Patient First Name (PFN) in EHR

Patient Chart

Patient Identification Header



Patient Detail View Component



EHRP35 – IMMUNIZATION COMPONENT



New Immunization Component

Immunization Record ⓘ State Immunization Profile

Immunizations from Outside Sources Updates: Arizona: Aug 04, 2020 Refresh States

Forecast: HEP B,NOS Past Due ⓧ

Contraindications Add Delete

Source	Reaction	Date
H1N1	GBS	27-Jun-2022
HEP A PED	Anaphylaxis	27-Jun-2022
COV,Jsx	Anaphylaxis	27-Jun-2022
BCG	Fever 104F	27-Jun-2022

Immunization History ? Actions ▾

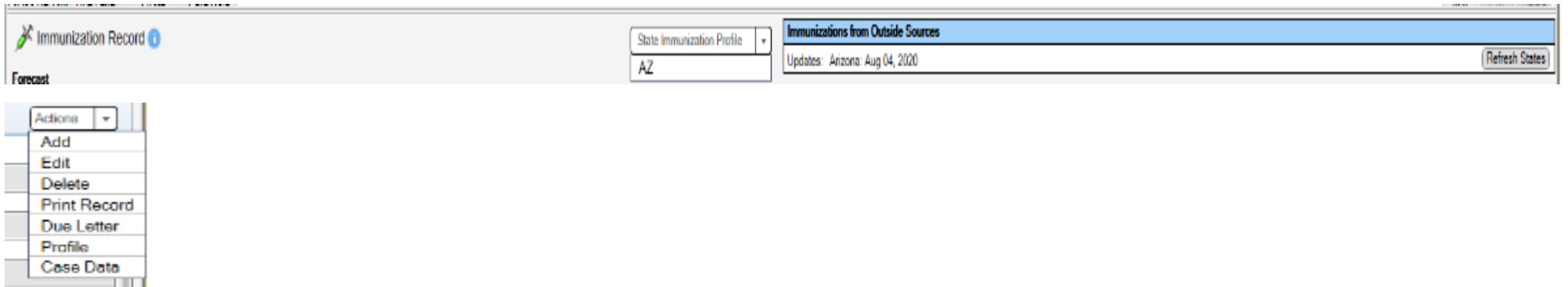
Registry	Visit Date	Admin Date	Vaccine	Ordered By	Administered By	Age@Visit	Location	Reaction	Inj. Site	Lot
RPMS ONLY	08/01/2022	08/01/2022	HEP B PED (COMVAX)			57 mths	Walgreens			
RPMS ONLY	08/01/2022	08/01/2022	PEDVAXHIB (COMVAX)			57 mths	Walgreens			
RPMS ONLY	01/12/2021	01/12/2021	COV,Mod		FLOOD,WILLIAM	38 mths	2017 DEMO CLINIC TEHRA		Right Deltoid IM	23456MOD
RPMS ONLY	02/10/2023	02/10/2023	COV,ModBPd			5 yrs	Tesuque			
RPMS ONLY	03/06/2023	03/06/2023	COV,ModBPd			5 yrs	Elim Yukuniarag Yungcarvik Cln			
RPMS ONLY	08/01/2022	08/01/2022	COV,ModTot			57 mths	Walgreens			
RPMS ONLY	01/12/2021	01/12/2021	COV,Pfr		FLOOD,WILLIAM	38 mths	2017 DEMO CLINIC TEHRA		Left Thigh IM	8769PFIZ
RPMS ONLY	06/27/2022	10/05/2022	COV,PfrTot	STRUBLE,FAY	GEMELAS,JAMES	55 mths	2017 DEMO CLINIC TEHRA		Left Thigh IM	
RPMS ONLY	08/01/2022	08/01/2022	DTaP			57 mths	Walgreens			
RPMS ONLY	02/15/2023	02/15/2023	DTaP			5 yrs	Tucson Indian Center			
RPMS+AZ	07/26/2018	07/26/2018	DTaP			8 mths	Claremore Hospital			

New Layout and updates to aid in staff workflows

State Profiles can be displayed and printed for one or all.

- State Registry updates and messages display

All buttons have been moved under an Action Dropdown.



New Functionality

Immunization History User Preference

User column display setting

Filtering

Re-ordering columns

Group by

Sorting

Admin Date
 Ordered By
 Administered By
 Age@Visit
 Location
 Reaction
 Inj. Site
 Lot
 Volume
 Manufacturer
 VIS Date
 Vaccine Eligibility
 VIS Presented
 Admin Notes
 Restore Defaults Close

Vaccine Ordered By Administered By

Selected All
 ACTHIB
 ADENO,oral
 ADENOIV,NOS
 Anthrax IG
 AS03,adj
 BCG
 BOTULINUM
 Cholera/WCr
 CMVIG
 COV.Mod
 COV.ModBPd
 FL.COV.ModTot
 HEP B PED (COMVAX)
 PEDVAXHIB (COMVAX)
 COV.Mod
 COV.ModBPd
 COV.ModTot
 COV.Pfr
 COV.PfrTot
 DTaP
 DTaP
 DTaP
 DTaP
 DTaP
 DTaP
 FLU-cel4
 HBIG
 HEP A,3PED
 HEP B PED
 ACTHIB
 ACTHIB
 HIB,NOS
 HPV-9v
 MMR
 Clear Filter

Immunization Record ⓘ

Forecast

HEP B,NOS

Drag a column header and drop it here to Admin Date ▼

Registry	Visit Date	Admin Date	Vaccine
RPMS ONLY	08/01/2022	08/01/2022	HEP B PED (COMVAX)
RPMS ONLY	08/01/2022	08/01/2022	PEDVAXHIB (COMVAX)

Grouped by: Admin Date

Registry	Visit Date	Admin Date	Vaccine
RPMS+AZ	05/26/2020		MMR
REFUSED	12/02/2020		HBIG
REFUSED	06/03/2022		HEP B, ADOLESCENT OR PEDIATRIC
REFUSED	06/27/2022@12:30		MMR
REFUSED	02/17/2023@08:26		COVID-19 vaccine, vector-nr, rS-Ad26, PF, 0.5 mL
REFUSED	02/17/2023@08:34		INFLUENZA, seasonal, injectable, preservative free, trivalent
REFUSED	02/16/2023@14:16		RABIES, INTRAMUSCULAR INJECTION
REFUSED	02/22/2023@05:00		Smallpox monkeypox vaccine (National Stockpile)
REFUSED	03/02/2023		VARICELLA
07/26/2018			
RPMS+AZ	07/26/2018	07/26/2018	DTaP
RPMS+AZ	07/26/2018	07/26/2018	IPV
11/15/2018			
RPMS+AZ	11/15/2018	11/15/2018	DTaP
RPMS+AZ	11/15/2018	11/15/2018	IPV
06/09/2020			
RPMS+AZ	06/09/2020	06/09/2020	DTaP

New Functionality continued

Ability to add new vaccines from Forecaster due or past due.

The screenshot displays a software interface for immunization records. A 'Vaccine Search' dialog box is open, showing search criteria for 'HEP B'. The dialog has three radio button options: 'Show all active vaccines', 'Show only active vaccines with a Lot number' (which is selected), and 'Show all vaccines'. Below these options, it says 'Select one of the following records' and lists two records: 'HEP B ADLT' (CVX 43) and 'HEP B, ADOLESCENT OR PEDIATRIC' (CVX 8). The main interface shows a 'Forecast' section with 'HEP B, NOS'. Below that, a table lists immunization records with columns for Registry, Visit Date, and Admin Date. A 'Past Due' section is also visible. On the right, there are sections for 'Immunizations from Outside Sources' and 'Contraindications'. The 'Contraindications' table has columns for Source, Reaction, and Date, with entries for H1N1, HEP A PED, and COV, Jan.

Registry	Visit Date	Admin Date
RPMS-AZ	05/26/2020	
REFUSED	12/02/2020	
REFUSED	06/03/2022	
REFUSED	06/27/2023@12:30	
REFUSED	02/17/2023@08:26	
REFUSED	02/17/2023@08:34	
REFUSED	02/16/2023@14:16	
REFUSED	02/22/2023@05:00	
REFUSED	03/02/2023	

Source	Reaction	Date
H1N1	GBS	27-Jun-2022
HEP A PED	Anaphylaxis	27-Jun-2022
COV, Jan	Anaphylaxis	27-Jun-2022
HPV

Short Name (IHS)	CVX	Immunization
HEP B ADLT	43	HEP B, ADULT
HEP B PED	8	HEP B, ADOLESCENT OR PEDIATRIC

Changes to Vaccine Search and Add

Vaccine search dialog

- Search is no longer case sensitive
- Default search is “Show only active vaccines with a lot number”.

New data fields when adding current immunization

The screenshot shows the 'Add Vaccine' dialog box with the following fields and values:

- Vaccine: RABIES, INTRAMUSCULAR INJECTION
- Ordered By: STRUBLE,FAY
- Administered By: STRUBLE,FAY
- Lot: (empty dropdown)
- Injection Site: (empty dropdown)
- Volume: 0.5 ml
- Given: 03/14/2023 09:09 AM
- Vac Info Sheet: 10/06/2009
- Patient/Family Counsellled:
- VIS Presented: 03/14/2023
- Vac. Eligibility: Am Indian/AK Native
- Admin Notes: (empty text area)

On the right side of the dialog, there are buttons for 'OK' and 'Cancel', and radio buttons for 'Current' (selected), 'Historical', and 'Not Done'.

EHRP35 – INTEGRATED PROBLEM LIST (IPL)



Integrated Problem List Fixes

- Usability and Data Integrity Issues

1) COM error when attempting to use the SnoMed lookup service (eg, in IPL -> Add Problem -> search) results in an error message: "COM object that has been separated from its underlying RCW cannot be used.". The issue persists and the lookup service is unavailable until EHR is restarted.

2) Data Integrity - Findings not correctly updated.

3) : Data integrity - Educations in POV view are only saved on one problem if multiple problems are edited and "Apply to all educations" checkbox is unchecked

4) Data integrity? - Deleting an unsigned Care Plan, Goal Note, or Visit Instruction does not remove it from the list of pending items to sign.

5) Usability - Episodicity controls can be overwritten.

Integrated Problem List Fixes

Usability and Data Integrity Issues continued...

- 6) Usability - POV view grid does not react if the mouse wheel is scrolled over some columns.
- 7) Usability - IPL main grid does not scroll if mouse wheel is scrolled over expanded problem info.
- 8) Usability - POV view Education column allows selection of parent container of checkboxes.
- 9) Usability - POV view "Tx/Regimen/FU display only" column issues.
- 10) Usability - Cannot clear educations from problem in edit view.
- 11) Usability - "Freq" column on IPL does not update after saving a problem as POV.

Integrated Problem List Fixes

- IPL/POV Not honoring New vs Established patient radio button
- IPL Received an error when user selected to click cancel button on Review/Sign dialog for newly added Visit instructions/Care Plan/Goal Notes
- IPL Primary POV was not updating when user changed defaulted Primary purpose of visit diagnosis.

QUESTIONS?



