



Pharmacy Advisory Committee

March 23rd, 2023

A young woman with curly hair, wearing a white lab coat, is standing in a pharmacy aisle. She is reaching out with her right hand to touch a box on a shelf. The shelves are filled with various pharmaceutical products, including boxes and bottles. The background is slightly blurred, showing more of the pharmacy environment.

Our Mission

The RPhAC mission is to advance pharmacy informatics throughout healthcare organizations, and to enhance safety and efficiency of pharmacy practices. The RPhAC committee members serve as subject matter experts that participate as stakeholders for various development projects, as well as on sprint reviews.

These sprint reviews provide opportunities for our Advisory members to offer feedback on design, functionality, and user-centered workflows for development consideration.

Agenda

- Welcome and follow up from the previous meeting
- Customer Success Stories
- Development Corner
- Drug Shortages
- IV Workflow Management System
 - Workflow discussion
- AIMs interface
 - Workflow discussion
- ISMP Article Discussion: Preventing errors when preparing and administering medications via enteral feeding tubes (December 2022, Volume 20-Issue 12)



Housekeeping/Follow Up

Katelyn Maynard, *Senior Specialist*

Housekeeping/Follow Up

- Pharmacy Advisory Committee webpage updates
 - Mission Statement
 - Current meeting/Past Meeting page
 - New Member Page
- Welcome new members
- IDEA-4676 has been moved to CLIN-233611, which is in progress with development
- ORD-83506
 - This issue was brought up during a functionality discussion. We wanted to note the OM group has provided this solution



Success Stories

Katelyn Maynard, *Senior Specialist*

Success Stories

- Group Success- **1 Month LIVE with MT Circle**
- What new features has your hospital implemented that made a positive impact? All success stories big or small are welcome.
- For example, have you implemented a new interface, such as the robot?
- For example, have you changed a PHA customer-defined parameter to align with recommendations?

A close-up photograph of a person's hands typing on a keyboard. The background is a computer monitor displaying lines of code in a dark theme. The lighting is soft, highlighting the hands and the keys. A semi-transparent blue banner is overlaid at the bottom of the image, containing the title and author information.

Development Corner

Robert Lombardi, *Supervisor, Development*

Recent Pharmacy Enhancements - Completed

- **ORD-38591:** LTC/Continuing Care Medication Management/eRx (Expanse 2.2.33)
 - Ordering through OM utilizing eRx solution, transmit to retail/contract pharmacy for dispensing and administration via MAR
 - Storing MEDID from API drug concept onto PHA Drug dictionary entry through FSV update process, sent to OM for internal use
 - Using MEDID to match ordered drug against received drug for medication administration
 - Several fields locked down on edit screen in Pharmacy to maintain integrity
 - Seeking Early Adopter
- **CLIN-230134:** Consume Order Diagnosis/Problem (Expanse 2.2.37)
- **CLIN-230332:** Google Health - MEDID (Expanse 2.1.46)
 - Search and Summarization tool
 - Early Adopters currently testing

Pharmacy Recent Enhancements - Completed

- **CLIN-232148:** Canadian Clinical Drug Data - Medication Nomenclatures (CS 5.67.48)
 - Provides support for a Canadian Continuity of Care document through RXM
 - CCDD standard concepts loaded from First Databank file
 - Contact FDB to request CCDD files be added to monthly/quarterly streams
 - Solution for Expanse handled in Ordering/Ambulatory using Medication Management drug concepts
- Multiple other related Stories added changes to:
 - Re-label fields from RxCUI to CCDD
 - Link CCDD codes to DINs
 - Re-name MIS Toolbox parameter to control loading of files
 - Add CVC codes to MIS Vaccine Component dictionary (for Immunization CCD retrieval)
- **CLIN-227518:** Charge Reconciliation - Add Grand Total to PHA Billing Log (Expanse 2.1.49, Expanse 2.2.37)

Recent Pharmacy Enhancements - Completed

- **CLIN-230134: Consume Problem/Diagnosis from OM**
 - Requires ORD-86642
 - Includes Non-Continuing Care environments
 - PHA Copy/Edit is not allowed on CCErx environment orders

Problems & History List

MURPHY,PAUL 52 M 10/29/1970 Allergy/Adv: No Known Drug Allergies

Cancel

Save

Search for:

Sort By:

Active Problems

Description	HCC	Onset	Add to Order
> Liver abscess			<input checked="" type="checkbox"/>
> High blood cholesterol			<input checked="" type="checkbox"/>
> Resolved/Inactive/Ruled-Out (R/I/R)			
> Deleted			

Medical History

No Medical Problems to Display.

Surgical History

No Surgical Problems to Display.

Pharmacy Recent Enhancements - Completed

CURRENT	ENTER	RECONCILE	TRANSFER	
Medications by <input type="text" value="Generic Name"/>				
<input type="button" value="Edit Multiple"/>				
ORDERS BY	CATEGORY	PROVIDER	DATE	STATUS
Medications				
Pending				
Label Comments	<input type="text"/>			
Dose Instruction	<input type="text"/>			
Special Instructions	<input type="text"/>			
Protocol	<input type="text"/>			
Taper	<input type="text" value="Search For Taper"/>			
Problem	<input type="text" value="High blood cholesterol"/>			
	<input type="text" value="Abscess of liver"/>			
	<input type="text"/>			
Diagnosis Code	<input type="text" value="E78.00 - Pure hypercholesterolemia, unspecified"/>			
	<input type="text" value="K75.0 - Abscess of liver"/>			

Pharmacy Recent Enhancements - Completed

Murphy, Paul
 52 M 10/29/1970
 ADM IN DM-I DM-101-1

Code Status Not Ordered No HX Avail
 6ft 1in 250lb 2oz BSA:2.37m²
 Allergy/Adv: No Known Drug Allergies

MG0000058639

Medication Detail

[Detail](#)
[History](#)
[Flowsheet](#)
[Monograph](#)
[AssocData](#)
[Prot/Taper](#)
[Order](#)
[Links](#)

Order	predniSONE 10 mg PO DAILY 0 of 30 Doses Given
Total Doses	30
Ordering Provider	MURPHY,DANIEL J
Order Location	DM-I
Source	Provider
Order	02/17/2023 10:56 EST
Start	02/18/2023 09:00 EST
Stop	03/19/2023 09:01 EDT
Status	Active

Ordering User	MURPHY,DANIEL J
Ordering Device	LAPTOP (Browser)
Category	Medications
Order Number	230217-105608086
Internal Order Number	MG1-B20230217105608086
Rx #	H00000507

Problem

High blood cholesterol
Abscess of liver

Diagnosis Code

E78.00 - Pure hypercholesterolemia, unspecified
K75.0 - Abscess of liver

Audit	User	Event	Ack
02/17/2023 10:56 EST	PHA - MURPHY,DANIEL J	No Signature is Necessary Order is Entered in Pharmacy	N

Conflict Type	Description	Pharmacy Override Comment
Problem Interaction	hypercholesterolemia	Md To Review
Dose Warning	Maintenance (1 Warning)	Dose Changed

Pharmacy Recent Enhancements - Completed

- **CLIN-230332: Google Health - Use FDB's MEDID for Medication search**
 - Search and Summarization tool within Expanse Chart
 - Leverage MEDITECH legacy data
 - Map outside data sources
 - Achieves a true Longitudinal Health Record
 - Retrofit MEDID from the LTC/CCMM/eRx project into 2.1
 - Several related Stories to copy/delete/list MEDID

The screenshot shows a web application window titled "Enter/Edit PHA Drug Dictionary (DEV21NCMS) - Meditech Mt". The main content area is for "IBUPROFEN 800 MG TABLET", with a "Last Edit: 02/27/23 16:13" timestamp. The interface includes several tabs: "Dispensing", "Ordering", "Rules", "Ingredients", "Screenings", "Site", "Inventory", "Purchasing", "PCS", "Customer-Defined Screen", "OM", "Strings / OM Site", and "Locations". Below the tabs, there is a section for "FSV Concept Identifiers" with a table containing one row: "FSV ID" 008350 and "ibuprofen 800 mg ORAL tablet". There is also a section for "Use for Conflict Checks" with a table containing three rows. A checkbox for "Suppress API Warnings for Drugs Without Concept Identifiers" is present. At the bottom, there is a section for "Use for Home Med Conflict Checks" with a table containing one row: "FsvId (MEDID)" 00173420 and "ibuprofen 800 mg tablet".

Pharmacy Recent Enhancements - Completed

CLIN-230332: [Google Health](#) - Use FDB's MEDID for Medication search

The screenshot shows a web application window titled "Enter/Edit PHA Drug Dictionary (DEV21N.CMS) - Meditech Mt". The main content area is for "IBUPROFEN 800 MG TABLET", with a "Last Edit: 02/27/23 16:13" timestamp. A navigation menu includes buttons for Dispensing, Ordering, Rules, Ingredients, Screenings, Site, Inventory, Purchasing, PCS, Customer-Defined Screen, OM, Strings / OM Site, and Locations. The "FSV Concept Identifiers" section contains a table with one entry: FSV ID 008350, description "ibuprofen 800 mg ORAL tablet". Below this is a "Use for Conflict Checks" section with a table. The "Suppress API Warnings for Drugs Without Concept Identifiers" section has a checkbox. The "Use for Home Med Conflict Checks" section contains a table with one entry: FsvId (MEDID) 00173420, description "ibuprofen 800 mg tablet".

Enter/Edit PHA Drug Dictionary (DEV21N.CMS) - Meditech Mt

IBUP800T5 - IBUPROFEN Last Edit: 02/27/23 16:13

IBUPROFEN 800 MG TABLET

Dispensing Ordering Rules Ingredients Screenings Site Inventory

Purchasing PCS Customer-Defined Screen OM Strings / OM Site Locations

FSV Concept Identifiers

FSV ID	Description
008350	ibuprofen 800 mg ORAL tablet

Use for Conflict Checks

FSV ID	Description

Suppress API Warnings for Drugs Without Concept Identifiers

Use for Home Med Conflict Checks

FsvId (MEDID)	Description
00173420	ibuprofen 800 mg tablet

Pharmacy Recent Enhancements - Completed

CLIN-232148: Canadian Clinical Drug Data - Medication Nomenclatures

The screenshot displays a web application interface with a blue background. At the top, the text reads "MIS Database - (MTUNV56/DS.67LM/5567LM.CAN1) - Dr. MEDITECH". The main content area features a navigation menu on the left with a list of items, each with a right-pointing arrow. The "Formulary Service Vendor Content" item is highlighted in green. To the right of this menu, a sub-menu is open, showing "Formulary Service Vendor Content" and "Medication Nomenclature" (highlighted in green). Below "Medication Nomenclature", there are three options: "List Medication Nomenclature" (highlighted in green), "View Medication Nomenclature", and "Medication Nomenclature Inquiry". On the far right, a vertical sidebar contains four buttons: "Back", "Home", "Recent", and "Frequent".

MIS Database - (MTUNV56/DS.67LM/5567LM.CAN1) - Dr. MEDITECH

Clinical Dictionaries (F-O)

- Facilities (Customer-Defined)
- Financial Classes
- Formulary Service Vendor Content
- Growth Charts
- Holidays
- Imaging Appropriate Use
- Institutions
- Immunizations
- Insurances
- Interaction/Conflict Groups
- Languages
- Locations
- Marital Statuses
- MSA/CBSA Codes
- Messages
- National Provider Identifiers
- Newborn Adm Sources
- Nicknames
- Notifications
- Order Periods
- Order Sources
- Outside Locations
- Override Categories
- Override Comments

Formulary Service Vendor Content

- Allergens
- Medication Nomenclature
- DINs
- Formulary Service Vendor Load

Medication Nomenclature

- List Medication Nomenclature
- View Medication Nomenclature
- Medication Nomenclature Inquiry

Back

Home

Recent

Frequent

Pharmacy Recent Enhancements - Completed

CLIN-232148: Canadian Clinical Drug Data - Medication Nomenclatures

The screenshot displays a web application window titled "View MIS Medication Nomenclature Dictionary (MTUNV56/D5.67LM/5567LM.CAN1) - Dr. MEDITECH". The main content area is light blue and contains the following elements:

- Header:** The mnemonic "C02326809" is on the left, and "Last Edit: 13/01/23 13:29" is on the right.
- Navigation:** Three buttons labeled "General", "CCDD", and "CCDD Audit" are centered below the header.
- Form Fields:**
 - Mnemonic:** A text box containing "C02326809".
 - Active:** A dropdown menu with "Y" selected.
 - Type:** A dropdown menu with "CCDD" selected.
 - Term Type:** A dropdown menu with "Manufactured Product" selected.
 - Replaced by:** An empty text box.
- Description:** A text area with a yellow header containing the text "AMLODIPINE (amlodipine (amlodipine besylate) 5 mg oral tablet) PRO DOC LIMITEE".

Pharmacy Recent Enhancements - Completed

- **CLIN-227518:** Charge Reconciliation - Add Grand Total to PHA Billing Log
 - Trailer includes daily batch totals for each business unit
 - Multiple days/business units now have totals

DATE: 03/06/23 @ 0931
 USER: PCAREY

PHA - DEVN.US
 PHA Billing Log

Account Number	Date	Batch	Billing Sts	Qty	Amount	B/AR Business Unit	Cost	Order Type	Doctor
	Date					B/AR Business Unit		Daily Batch Total	
	09/27/22	MTBU					104733.87		
	09/28/22	MTBU					924.10		
	09/29/22	MTBU					219054.48		
					Total		<u>324712.45</u>		
	09/27/22	MTBU2					6953.60		
	09/28/22	MTBU2					84.80		
	09/29/22	MTBU2					63.60		

Pharmacy Enhancements - *In Progress*

- **IDEA-9474/CLIN-234621:** Auto Verification Improvements (Expanse 2.1, 2.2)

Originated as request to have Unverified orders cross to Dispensing Machines and appear as profiled meds

- Reduces instances of Unverified orders
- Orders are available for vending from dispensing machines and MAR administration in more timely manner
- Drug Strings, Order Strings
- New “File Verified From” multiple
- Unedited/dictionary-defined string will file as verified provided order is complete
- Respect existing infrastructure for auto verification (e.g., rules, missing required field values)
- Existing Customer Defined Parameter will continue to be the default

Pharmacy Enhancements - *In Progress*

E
Return To

Enter/Edit PHA Drug Dictionary (DEVN.CMS)

More Help User Close

IBU - IBUPROFEN

Last Edit: 02/16/23 10:17

Ibuprofen 800 MG TABLET

Dispensing	Ordering	Rules	Ingredients	Screenings	Site	Inventory
Purchasing	PCS	Customer-Defined Screen	OM	Strings / OM Site	Locations	

PHA Site

.DFT	DEFAULT

Order Types Component Strings IV Fluid Strings Order Strings Order Strings 2

	Dose	Units	IV Fluid	Route	Frequency	Schedule
1	800	MG		PO	TID	SCH
2						
3						

File Verified From

OM
EDM
ONC
LTC
NONE

EXPANSE Pharmacy - *In Progress*

- **CLIN-170465** (main Epic): Expanse Pharmacy (*Expanse 2.3*)
 - Dictionaries moved into web-based structures
 - Ordering screens modeled after Web Acute Ordering with emphasis on pharmacist-specific roles, workflows, and Advisory committee feedback
 - Several stakeholder meetings have contributed to design and usability (e.g., PHA New Activity)
 - Access to WEB tools, such as Widgets or Chart viewer, allows access to clinical information without leaving the patient's order
 - Leverage use of FDB API Med Knowledge Framework/drug concepts
 - Direct access to Interprovider messaging for better communication among providers
 - Streamlined maintenance of dictionaries, eliminating duplication of dictionaries (copies of dictionaries from NPR to M-AT)

EXPANSE Pharmacy - *In Progress*

- **Goals:**

- To enhance the Pharmacist's experience and provide the necessary tools to perform their job effectively and safely.
- Pharmacists are continuously in Web to perform job:
 - Review patient charts
 - Perform Home Med Reconciliation
 - Review transfer orders
- Eliminate returning to Pharmacy routines that are now outdated with sparse real estate left to enhance
 - Resolve long standing issues with Formulary Management

EXPANSE Pharmacy - In Progress

E
Return To
Home
Chart
Orders
Pharmacy
Sign
Workload
Menu
Menu
More
Help
LH
User
Close

Current Orders
Enter Orders
Submit

Transfer Orders
Change Status
Link/Unlink
Copy/Edit
Renew
Verify

Orders With Activity
Review
Sort

<input type="checkbox"/>	morphine [MORPHINE SULFATE ER] 200 mg PO DAILY PRN	Alles,Lauren	11/04/2022 - 0900	12/03/2022 - 1000	Unverified												
<input checked="" type="checkbox"/>	00000019	PHA	PYXIS	1 ER Tab	12.00												
<i>Last Admin:</i>																	
<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th style="width: 20%;">Review Activity</th> <th style="width: 20%;">Date - Time</th> <th style="width: 20%;">User</th> <th style="width: 40%;">Source</th> </tr> </thead> <tbody> <tr> <td>Conflicts Found</td> <td>10/14/21 - 0915</td> <td>BKG JOB</td> <td></td> </tr> <tr> <td>Freq/Sch Edit</td> <td>10/14/21 - 0915</td> <td>L ALLES</td> <td>Provider</td> </tr> </tbody> </table>						Review Activity	Date - Time	User	Source	Conflicts Found	10/14/21 - 0915	BKG JOB		Freq/Sch Edit	10/14/21 - 0915	L ALLES	Provider
Review Activity	Date - Time	User	Source														
Conflicts Found	10/14/21 - 0915	BKG JOB															
Freq/Sch Edit	10/14/21 - 0915	L ALLES	Provider														

Current Orders
Sort

<input type="checkbox"/>	morphine [MORPHINE SULFATE ER ... 100 mg PO NIGHTLY PRN	JOBS,Meditech DONO...	10/24/2022 - 1200	11/07/2022 - 1159	Active
<input type="checkbox"/>	00000004	PHA	MAIN	4 ER Tab	18.00
<i>Last Admin:</i>					
<input type="checkbox"/>	diazepam 10 mg IM BID SCH	JOBS,Meditech DONO...	11/23/2022 - 1216		Active
<input type="checkbox"/>	00000026	PHA	MAIN	2 Solution	15.00
<i>Last Admin:</i>					
<input type="checkbox"/>	warfarin [COUMADIN] 5 mg PO DAILY PRN	Alles,Lauren	10/21/2022 - 1700	11/20/2022 - 1700	Active
<input type="checkbox"/>	00000003	PHA	PYXIS	4 Tab	6.00
<i>Last Admin:</i>					
<input type="checkbox"/>	lorazepam [LORAZEPAM] 1 tab buccal TID SCH	Alles,Lauren	10/26/2022 - 1700		Active
<input type="checkbox"/>	00000017	PHA	MAIN	2 Tab	11.00
<i>Last Admin:</i>					

Alles,Devon

69, F - 07/20/1953
MRN # MR00658790

ADM IN, BGLOC BGRROOM -1

5ft 1in BSA:1.41m²
100lb BMI: 18.9kg/m²

Acc# Resus Status Not
MG0000075840 Ordered
No Hx Avail

Search Patient's Chart

Allergies

No Known Allergies

Problems

Home Meds

Not Confirmed

Prescription Monitoring Program

MEDICATIONS (INSTRUCTIONS) ↑

EXPANSE Pharmacy - In Progress

E **Home** **Chart** **Orders** **Rx Pharmacy** **Sign** **Workload** **Menu** **Menu** **More** **Help** **LH User** **Close**

Current Orders **Enter Orders**

NEW

Medication Rx Id * Order Type

* Dose * Units * Route * Frequency * Schedule

* Start Date * Start Time * Inventory * Dispense

Stop Date Stop Time * Charge Type * Charge

Total Doses Pending Bulk

Alles, Devon
69, F · 07/20/1953
MRN# MR00658790

ADM IN, BGLOC BROOM -1

5ft 1in 100lb BSA: 1.41m² BMI: 18.9kg/m²

Acc# MG0000075840 Resus Status Not Ordered No Hx Avail

Allergies
No Known Allergies

Problems

Home Meds
Not Confirmed
HCC
Hypertension



Introducing

Matt Soehl, RPh, PharmD

- Product Manager, Strategy

BCA

Business and Clinical Analytics

- Web-based business intelligence tool
- BCA sits atop Data Repository
- Standard datasets and dashboards which can be customized for visual representation of clinical and financial data
 - Maximize financial performance
 - Drive operational efficiency
 - Improve patient outcomes

Question:

- What reports or data do you need that you are currently not able to create or retrieve through PHA Searches or RD/RW?

Responses may be sent to: rlombardi@meditech.com

BCA

FILE INSERT FORMAT SHARE VIEW HELP



ED - Throughput

ED Arrival Date

From: 5/19/2020

To: 9/21/2021

Overview

ED Throughput	ED LOS	Door to Doc	Doc to ADM Dec	ADM Dec to Depart	In Room to Depart
ED Provider	Average Minutes	Average Minutes	Average Minutes	Average Minutes	Average Minutes
Total	144.6	115.5	13.6	47.4	67.6
Konevich, Michael	155.9	124.6	14.3	50.8	72.9
Pravda, Joel	153.3	123.3	13.6	46.4	71.2
Cady, Thomas	153.1	123.0	13.3	48.6	71.1
Brancato, Elaine	152.5	122.7	13.6	46.7	70.7
Canavan, Stephanie	152.3	121.2	13.2	49.6	71.5
Cottrill, John Eric	152.3	121.3	14.2	46.8	71.5
Miller, Suellen	152.3	120.5	14.2	47.1	72.0

ED Throughput Trend





Drug Shortages

Caitlyn Mulligan, *Specialist*

Drug Shortages

- [KB:59592](#):Drug Shortage Management
 - Drug shortages can have a significant impact on patient care and public health.
 - Within MEDITECH, queries are used to flag medications that are low in supply or out of stock due to a shortage. These queries are referenced within Pharmacy and Provider Order Management/Order Management rules to keep staff informed of shortages and provide clinical decision support for the most appropriate way to proceed.
- What other solutions or concerns do you have?



IV Workflow Management System

Sara Caetano, *Analyst*

IV Workflow Management System

- Bidirectional HL7 interface available in Expanse (2.1 PP 41 and 2.2 PP 29)
- Outbound interface available in every platform.
- What is your current solution?
 - Interface or Label Intercept method?
 - What vendor is currently being used?
- If using the Label Intercept method, are there any plans to implement the IVWMS HL7 interface in the future?
 - If not, what are the reasons why?



AIMS Inbound Medication Interface

Sue Liebherr, *Senior Specialist*

AIMS Inbound Medication Interface

- Anesthesia Suite- The inbound Messages are an add-on to the Anesthesia Suite and only handles the INBOUND Medications.
 - The site must be LIVE with the HL7 Portion of the Anesthesia Suite
 - Site has to be at Priority Pack 27 or Higher in Expanse
 - We will work with your Anesthesia Vendor (SIS, IPro, Talis, etc)
- Interface connects via API and is **not** an HL7 Message
- Handled separately from the Anesthesia suite implementation
 - Takes 4-6 months of testing and working with your Vendor and MEDITECH to confirm workflow and functionality

AIMS Inbound Medication Interface

- Allows Medications to appear in Pharmacy
 - Orders file as auto verified in Pharmacy and Discontinued

The screenshot displays the 'Pharmacist Desktop' interface for patient 'Grantham, James'. The patient's details include height (6ft 5in), weight (155lb), and BMI (18.5kg/m²). The interface is divided into several sections:

- Patient View:** Shows patient information and a list of orders.
- Current Orders:** A table listing active orders. One order for 'ACETAMINOPHEN (ACETAMINOPHEN) 500 MG TABLET' is highlighted with a red box, showing it is 'Discontinued' and has a status of 'ANE'. The order is dated 03/17/22 1100.
- Orders with Activity:** A table showing the history of the selected order. It includes columns for 'Review Activity', 'Date - Time', 'User', and 'Source'. Two entries are visible: 'Anesthesia Interface Order' and 'MAR Activity Prior to Edit', both dated 03/17/22. A red box highlights these entries.
- Home Meds:** A section for home medications, currently empty.

The interface also features a sidebar on the right with various navigation options like 'Patient Lists', 'Patient Profile', and 'Enter Orders'. At the bottom, there is a toolbar with buttons for 'PDMP', 'Verify', 'Change Status', 'Copy Edit', 'Debit Credit', 'Renew', 'Link Unlink', 'Find', 'Session Orders', 'Enter Patient Comments', 'Other', 'Print', 'Recompile', and 'Return to List'.

AIMS Inbound Medication Interface

- Orders appear as administered on the MAR and are view only

The screenshot displays the AIMS Inbound Medication Interface for patient Grantham, James (MR00002339). The interface shows a list of medication orders with columns for Start/Stop/Total Doses, Status, Medication (Route), Time, and columns for Wed Mar 16 and Thu Mar 17. The selected order is for Acetaminophen 500 mg PO .ANE PRN, which is highlighted in yellow. The PRN reason is 'Anesthesia Interface'. The interface also shows a 'PRN Admin' table with columns for Last Admin, Time, and Dose. The PRN Admin table shows a last administration on Thu Mar 17 at 11:00 MT for a 500 mg dose.

Grantham, James MR00002339 - PCS Open Chart (DEV21.US)

Code Status Not Ordered No Hx Avail MG0000068394 MR00002339
6ft 5in 155lb 14.504oz BSA:2.01m² BMI:18.5kg/m² D34345343
Allergy/Adv: strawberry

Include: Active STAT/ONE IVs PCAs PRNs Pending Discontinued

Start Stop/Total Doses Status	Medication (Route)	Time	Wed Mar 16	Thu Mar 17
UnAcknowledged Cancelled	Current Rate: 600 mls/hr Bag Volume: 50 mls Duration: 5 min Trade: Sodium Chloride Cefazolin Sodium Rx#: U00043712 M LC SI V Inf			
03/07/2022 15:00 03/08/2022 14:59 Cancelled UnAcknowledged	Cefazolin Sodium in 0.9 % NaCl 2 gm @ 50 mls/hr IV Q8H SCH Current Rate: 50 mls/hr Bag Volume: 100 mls Duration: 2 hr Trade: Cefazolin 2 G/100 ml-0.9% NaCl Rx#: 00038707 M LC SI V Inf			
03/17/2022 11:00 03/17/2022 11:01 Discontinued	Acetaminophen 500 mg PO .ANE PRN Trade: Acetaminophen Rx#: 00038883 M LC SI Dispense: 1 TABLET/500 mg Give: 1 TABLET (500 mg total) PRN Reason: Anesthesia Interface			

PRN		
Last Admin		500 mg 11:00 MT

Refresh Change View Document Document Unsched Document Assess Document Inf/Titr Detail Manual Barcode Enter Med Renewal Sch/Freq Med Review Sched Cmt

AIMS Inbound Medication Interface

- How is your site handling Infusions for Surgery?
 - **Scenario:** Patient starts infusion and the Nurse Documents on the MAR. How is this handled when that patient goes down for Surgery?
 - Do you continue the Infusion?
 - Do you stop the Infusion?



ISMP Article

Caitlyn Mulligan, *Specialist*

ISMP Article

- **Title:** Preventing errors when preparing and administering medications via enteral feeding tubes (December 2022, Volume 20-Issue 12)
- **Problem:** Enteral feeding tubes are complex in preparation and administration. There are continued occurrences of patient harm, due to reported instances of occluded tubes, reduced therapeutic effects, and toxicity
- **Identified causes:** Lack of readily accessible information, gaps in training/experience, unknown feeding tube status, incorrect or inappropriate route or tube size, improper/wrong preparation and administration.

ISMP Article: Preventing errors when preparing and administering medications via enteral feeding tubes

- **Safe Practice Recommendations:**

- Interdisciplinary team that reviews concerns or events at your organization. This team should also review information from other sources:
 - [American Society for Parenteral and Enteral Nutrition \(ASPEN\)](#)
 - [Guidebook on Enteral Medication Administration](#)
 - [Making the Enteral Route Safe and Effective for Tube-Fed Patients](#)
 - Drug Monographs

ISMP Article: Preventing errors when preparing and administering medications via enteral feeding tubes

- Establish drug and dosage form suitability.
 - Review any drugs added to your formulary for enteral feeding tube restrictions.
- Create a policy/procedure that is updated regularly. Also, ensure it is in a central location for practitioners to reference.
- Create education specific to safely prescribing, dispensing, preparing and administering medications via a feeding tube that is part of onboarding at your organization.
- Validate the route and tube size as part of the admission process and medication reconciliation.
- Flush before and after administration of each medication.

ISMP Article: Preventing errors when preparing and administering medications via enteral feeding tubes

- **Safe Practice Recommendations for an EHR:**
 - Select the route and access site while ordering
 - Restrict prescribers' ability to order medications that are contraindicated for tube administration
 - Include preparation instructions in the medication orders
 - Setup enteral feeding tube orders to prompt a MAR entry of "tube", and trigger an alert if an inappropriate formulation is ordered

ISMP Article: Preventing errors when preparing and administering medications via enteral feeding tubes

- **Potential MEDITECH Solutions:**

- [KB:68686](#)
 - Pharmacy Rule to Alert of Enteral Feeding Tube During Order Entry
- Create a feeding tube query and add it to an assessment, such as admission or nutrition assessment. The assessment can trigger an order set ([reflex set](#)), or [query links](#) can be utilized.
- KB:68693
 - Ordering Rule: Alert of Enteral Feeding Tube During Order Entry
- [KB:58380](#)
 - reviews instructions and comments fields. Potentially useful fields are formulary comments, preparatory comments, protocol, and inpatient/outpatient comments.
- Create an order type specific to tube feedings

ISMP Article: Preventing errors when preparing and administering medications via enteral feeding tubes

- **Potential MEDITECH Solutions:**
 - What methods does your organization employ in MEDITECH currently as well as overall?
 - Do you typically use diet orders?
 - Do you order as an IV/build in the drug dictionary?
 - The intent being MAR display
 - Are OM Reflex ordering and tube feeding assessments utilized?

Thank You

- Thank you for attending, and providing insight on the topics discussed. Your continued input and feedback is important to the success of these meetings.
- Including a link to [MEDITECH On Demand](#), which contains many useful Pharmacy resources.
- Don't forget to check out our [Pharmacy Advisory Committee Webpage](#)!
 - Edits and updates to the site are ongoing