



## MPOG Upgrade Release Notes

April 1, 2020

### Sections Updated

1. Case Validation
2. Data Diagnostics
3. Import Manager Assistant
4. Case Viewer 2.0

### 1. Case Validation

#### Overview

- A. Sections were reordered by topics to assist case reviewers
- B. Remove questions
- C. New neuraxial / regional question
- D. Postoperative recover question fixed
- E. Postop physiologic
- F. Intraop infusions

#### A. Sections were reordered by topic to assist case reviewers:

- Case Information
- Times
- Staff
- Physiologic
- Medications
- Labs



Questions for Validation		
+	Case Information	No Time Restriction
+	Preop	From 4 Hours Before Anesthesia Start to Anesthesia Start
+	Perioperative Times	From 4 Hours Before Anesthesia Start to Anesthesia End + 6 Hours
+	Intraop Staff	No Time Restriction
+	Preop Physiologic	From 4 Hours Before Anesthesia Start to Anesthesia Start
+	Intraop Physiologic	From Anesthesia Start to Patient Out of Room
+	Postop Physiologic	From Patient Out of Room to Anesthesia End + 6 Hours
+	Preop Medications	From 4 Hours Before Anesthesia Start to Anesthesia Start
+	Intraop Medications and Fluids	From Anesthesia Start to Patient Out of Room
+	Postop Medications	From Patient Out of Room to Anesthesia End + 6 Hours
+	Labs	From Day Before to Day After

B. Remove questions

- Preop (home) medications
- General anesthesiology

C. New neuraxial / regional question


Did this patient receive an neuraxial anesthetic?	<input type="checkbox"/> Yes <input type="checkbox"/> No
---	--

D. Postoperative recover question fixed

- If postop recovery location concepts were NOT documented, case validation will ask: *'Was the patient transferred somewhere other than the recovery room?'*
- Postop Recovery Concepts considered:
  - 50011 (recovery room out)
  - 50067 (phase I out)
  - 50069 (phase II out)

E. Postop physiologic

- Specifies source (invasive vs. non-invasive) for postop physiologic blood pressure question

 <b>Postop Physiologic</b>	<i>From Patient Out of Room to Anesthesia End + 6 Hours</i>
Was the non-invasive systolic blood pressure 106 at 12:48?	<input type="checkbox"/> Yes <input type="checkbox"/> No

F. Intraop Infusions

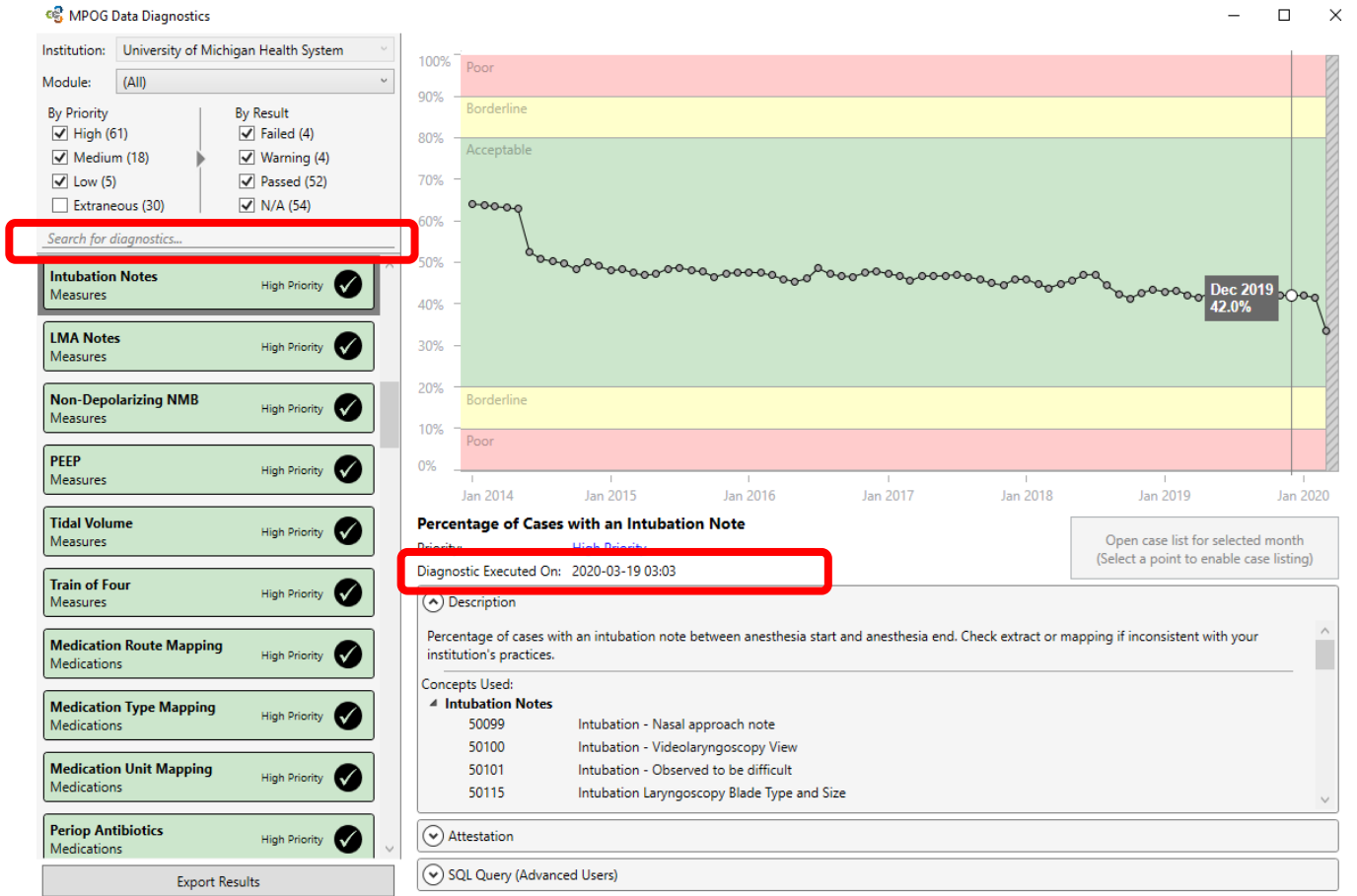
- More specific wording for intraop fluid question- *Were the following infusions started during this time period (Anesthesia Start to Patient out of room)*

<p>Were the following infusions started during this time period:</p> <p>DEXMEDETOMIDINE</p> <p>ESMOLOL</p> <p>MORPHINE</p> <p>TRANEXAMIC ACID</p> <p>VASOPRESSIN</p>
--

## 2. Data diagnostics

### Overview

- A. Added free text search filter
- B. Updated aesthetic – vertical guide allows for easier data point selection
- C. “Diagnostic Executed On” now includes time
- D. Various bug fixes



### 3. Import Manager Assistant

#### Overview

- A. AIMS System Filter
- B. Sorting by Module
- C. Green / Grey boxes

The screenshot displays the 'Import Manager Assistant' application. At the top, there are filter controls: 'Instance/Destination Database: (All)', 'Module: (All)', and 'Source System: (All)'. These controls are highlighted with a red rectangle. Below the filters is a grid showing data for various modules across dates from 09-16 to 10-19. The modules listed include CaseCrosswalk, Cases, Diagnoses, HospitalMortality, Labs, Patients, PeriopAdministrations, PeriopObservationDetails, PeriopObservations, Procedures, and StaffTracking. The grid cells are colored green or grey, representing data status. Below the grid, a detailed view for 'PeriodObservationDetails, EpicClarity, October 2018' is shown, displaying a calendar grid for the month with numbered cells (1-31) that are either green or grey.

Module	Source System	09-16	10-16	11-16	12-16	01-17	03-17	04-17	05-17	06-17	07-17	08-17	09-17	10-17	11-17	12-17	01-18	02-18	03-18	04-18	05-18	06-18	07-18	08-18	09-18	10-18	11-18	12-18	01-19	02-19	03-19	04-19	05-19	06-19	07-19	08-19	09-19	10-19				
CaseCrosswalk	Centricity																																									
Cases	Centricity																																									
Diagnoses	Centricity																																									
Diagnoses	EpicClarity																																									
HospitalMortality	Centricity																																									
Labs	Centricity																																									
Patients	Centricity																																									
PeriopAdministrations	Centricity																																									
PeriopAdministrations	EpicClarity																																									
PeriopObservationDetails	Centricity																																									
PeriopObservationDetails	EpicClarity																																									
PeriopObservations	Centricity																																									
PeriopObservations	EpicClarity																																									
Procedures	Centricity																																									
Procedures	EpicClarity																																									
StaffTracking	Centricity																																									
StaffTracking	EpicClarity																																									

PeriodObservationDetails, EpicClarity, October 2018

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

## 4. Case Viewer Changes

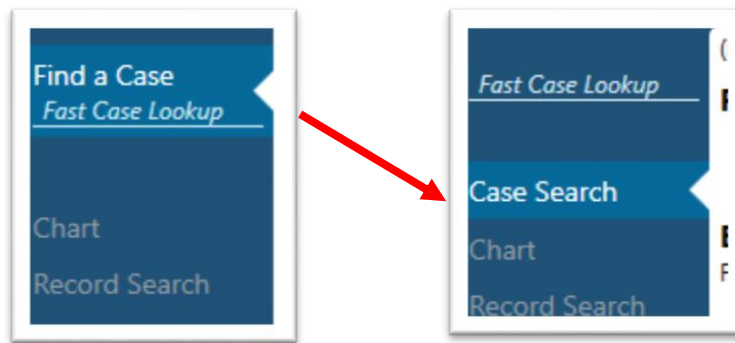
### Overview

- A. Now only one case viewer option
  - B. 'Find a Case' renamed to 'Case Search'
  - C. New: Age Filter
  - D. Notes Section now automatically opens on the right when opening a case
  - E. Date of Death now appears in header (if known)
  - F. New arrow collapses blue pane (if needed)
  - G. New: Copy buttons for MPOG Case ID and MRN
  - H. New: Reference line on graph
  - I. Sections remain open
  - J. Presets updated to include Preop and PACU
  - K. Blue "linked" text now in the "Mapped As" Column
  - L. Not entered time
  - M. Parent and child note details
  - N. Multiple Headers
  - O. Chart review
  - P. Record Search
  - Q. Hide data in preferences tab
- 
- A. Now only one case viewer option



B. 'Find a Case' renamed to 'Case Search'

NOTE: Click this tab to return to case search list



C. New: Age Filter

**Browse for Cases**

Find cases by using one or more of the filters below.

- Age
- CPT Code
- MPOG Concept ID
- Opened Date Range
- Primary Surgical Service
- Procedure Text
- Registry Data
- Surgery Date Range

**Filter Shortcuts**

Case Type

- CABG
- Knee Arthroplasty
- Labor Epidural

Patient Age

- Pediatric
- Adult

Date of Surgery

- March 2020
- February 2020
- January 2020
- Year to Date

Recently Opened

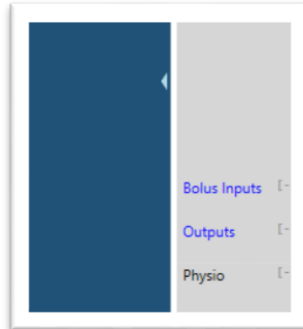
- Today
- Yesterday
- This Week
- Last Week
- March 2020
- February 2020

D. Notes Section now automatically opens on the right when opening a case



E. Date of Death now appears in header (if known)

F. New arrow collapses blue pane (if needed)



G. New: Copy buttons for MPOG Case ID and MRN



H. New: Reference line on graph

- Choosing "Show Reference Line" adds an adjustable horizontal line across the grid
- This can be adjusted by clicking moving up or down



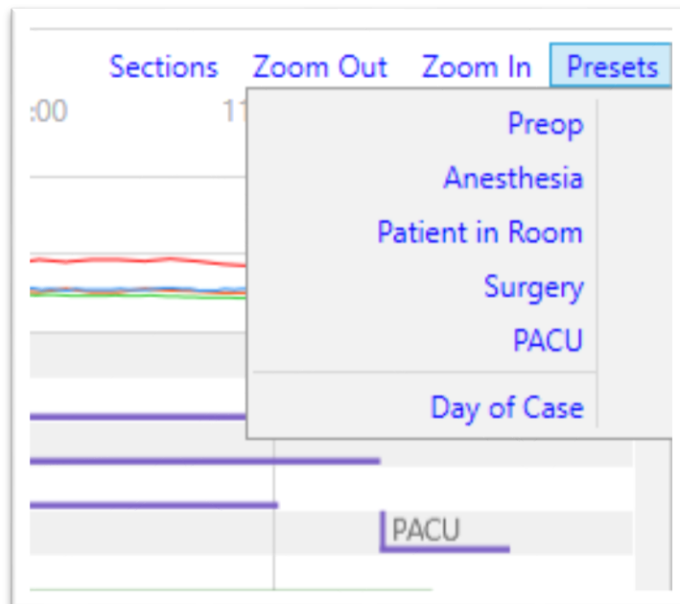
I. Sections remain open

- a. When "Sections" (PONV, GLU, etc) are turned on, those sections will remain open when scrolling through a case list imported via the case list import on the first tab

PONV	ONDANSETRON	DEXAMETHASONE	PROPOFOL	FENTANYL	Sevoflurane Exp %	Sevoflurane Insp %	Nitrous Insp %	Nitrous Exp %	History - Social History - Tobacco Detail	General - PONV Risk Factors	General - BP/HR/SpO2/Tidal Volume			
			200 mg	4 mg										
				30 mcg	30 mcg									
					1.7	1.7	1.6	1.5	1.4	1.3	1.2	1.3	1.4	1.4
					2	2	1.8	1.7	1.5	1.5	1.5	1.6	1.8	1.8
					0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0



J. Presets updated to include Preop and PACU





K. Blue "linked" text now in the "Mapped As" Column

- a. Data in this field can also now be sorted by clicking on the column header
- b. Columns have been reordered and improvements made to spacing

Multiple Values			
Time	Mapped As	Value	Original Variable
12-01-2019 06:10	BP Sys Non-invasive	114	2100310150
12-01-2019 08:08	BP Sys Non-invasive	109	7
12-01-2019 08:12	BP Sys Non-invasive	109	7
12-01-2019 08:15	BP Sys Non-invasive	118	7
12-01-2019 08:18	BP Sys Non-invasive	84	7
12-01-2019 08:21	BP Sys Non-invasive	88	7
12-01-2019 08:24	BP Sys Non-invasive	93	7
12-01-2019 08:27	BP Sys Non-invasive	93	7
12-01-2019 08:30	BP Sys Non-invasive	105	7
12-01-2019 08:33	BP Sys Non-invasive	107	7
12-01-2019 08:36	BP Sys Non-invasive	97	7
12-01-2019 08:39	BP Sys Non-invasive	106	7



Multiple Values			
Time	Mapped As	Value	Original Variable
12-01-2019 08:18	BP Sys Non-invasive	84	
12-01-2019 08:21	BP Sys Non-invasive	88	
12-01-2019 08:24	BP Sys Non-invasive	93	
12-01-2019 08:27	BP Sys Non-invasive	93	
12-01-2019 08:36	BP Sys Non-invasive	97	7
12-01-2019 08:30	BP Sys Non-invasive	105	7
12-01-2019 08:39	BP Sys Non-invasive	106	7
12-01-2019 08:33	BP Sys Non-invasive	107	7
12-01-2019 08:08	BP Sys Non-invasive	109	7
12-01-2019 08:12	BP Sys Non-invasive	109	7
12-01-2019 06:10	BP Sys Non-invasive	114	2100310150
12-01-2019 08:48	BP Sys Non-invasive	115	7
12-01-2019 09:00	BP Svs Non-invasive	115	7

Values sorted in order

L. Not entered time

- a. When applicable, the note entered time is available at the bottom of the yellow pane to compare differences between Observed Time and Entered Time
- b. Observed Time- The time the event/note happened
- c. Entered Time- The time the user entered in the information into the EHR

The screenshot shows a yellow-paneled interface for a note. At the top, it says "ntraop Note" and has a "Back" link. Below are three rows of data: "Concept" (AACD Patient In Facility Date/Time), "Value" (Patient in Facility), and "Observed Time" (11-29-2019 20:43). At the bottom, there is an "Entered Time" (12-01-2019 08:07) and a "Variable Mappings" table.

	<b>Note Type</b>	<b>Mapped As</b>	<b>Original</b>
Variable Mappings		AACD Patient In Facility Date/Time 50016	Patient in Facility 30594

M. Parent and child note details

- a. Bolded "parent" notes have associated "child" detail notes. Clicking on a bolded note will give the additional details as well

5-06-2014 07:31	<b>Mask Ventilation Difficulty (Scaled)</b>	Mask ventilation Grade M
5-06-2014 07:31	<b>Eye Protection Detail</b>	Mask removed and Eye M
5-06-2014 07:32	<b>Intubation Tube</b>	8.0 mm Single-lumen c _
5-06-2014 07:32	Breath Sounds Auscultated	Equal bilateral breath s E
5-06-2014 07:32	<b>Intubation View</b>	Grade Grade 1 - Full vie G
5-06-2014 07:32	<b>Intubation Device/Adjunct (Oral)</b>	Orally intubated using   C
5-06-2014 07:32	Atraumatic	Atraumatic Laryngosco A
5-06-2014 07:45	Induction End	Anesthesia Induction Eri A
5-06-2014 07:46	Control Ventus IV Access Discon	Adult Control Ventus C A

Intraop Note

Back

Concept Intubation Tube Note

Value 8.0 mm Single-lumen cuffed ET tube taped @ 22 cm

Observed Time 05-06-2014 07:32

**Details**

Concept	Value
Endotracheal Tube Size	8
Endotracheal Tube Size	8
Endotracheal Tube Type	Single-lumen cuffed
Endotracheal Tube Type	Single-lumen cuffed
Endotracheal Tube Secured Distance	22
Endotracheal Tube Secured Distance	21

## N. Multiple Headers

- Holding down 'Shift' and selecting multiple headers will open those headers together in the notes pane

The screenshot displays a medical chart interface with several components:

- Main Chart:** A graph showing vital signs (BP Sys Arterial, BP Dias Arterial, BP Sys Cuff, BP Dias Cuff, SpO2 Pulse Rate, End Tidal CO2) over time (10:00:00 to 12:00:00).
- Times:** A timeline showing events: Preop, Anesthesia, In Room, Surgery, PACU.
- All Staff:** A list of staff members and their roles, including Perfusionist #1 and various Anesthesia and Surgical staff.
- Medication List:** A list of medications with their dosages and administration times. Two items, EPINEPHRINE and NOREPINEPHRINE, are highlighted with red boxes.
- Multiple Values Table:** A table on the right showing the results of the selected medications. The table has columns for Time, EndTime, Mapped As, Value, and Original.

Time	EndTime	Mapped As	Value	Original
02-10-2020 11:32		EPINEPHRINE	100 mcg	Epinephri
02-10-2020 11:34		EPINEPHRINE	300 mcg	Epinephri
02-10-2020 11:29		NOREPINEPHRINE	8 mcg	Norepine
02-10-2020 11:30		NOREPINEPHRINE	8 mcg	Norepine
02-10-2020 11:33		NOREPINEPHRINE	4 mcg	Norepine
02-10-2020 11:28		PHENYLEPHRINE	100 mcg	Phenyleph
02-10-2020 11:28		PHENYLEPHRINE	100 mcg	Phenyleph

O. Chart review

- a. Data can be copied out of the yellow pane and pasted into Excel for purposes of chart review
  - a) Highlight desired rows
  - b) Use Ctrl + C to copy
  - c) Use Ctrl + V to paste in Excel

Time	Mapped As	Value	Original Variable
02-01-2020 07:39	EKG Pulse Rate	63	FLO-892
02-01-2020 07:40	EKG Pulse Rate	62	FLO-892
02-01-2020 07:41	EKG Pulse Rate	59	FLO-892
02-01-2020 07:42	EKG Pulse Rate	69	FLO-892
02-01-2020 07:43	EKG Pulse Rate	71	FLO-892
02-01-2020 07:44	EKG Pulse Rate	68	FLO-892
02-01-2020 07:45	EKG Pulse Rate	68	FLO-892
02-01-2020 07:46	EKG Pulse Rate	67	FLO-892
02-01-2020 07:47	EKG Pulse Rate	65	FLO-892
02-01-2020 07:48	EKG Pulse Rate	61	FLO-892
02-01-2020 07:49	EKG Pulse Rate	58	FLO-892
02-01-2020 07:50	EKG Pulse Rate	56	FLO-892

	A	B	C	D	E	F
1	2/1/2020 7:39	EKG Pulse Rate	63	FLO-892		
2	2/1/2020 7:40	EKG Pulse Rate	62	FLO-892		
3	2/1/2020 7:41	EKG Pulse Rate	59	FLO-892		
4	2/1/2020 7:42	EKG Pulse Rate	69	FLO-892		
5	2/1/2020 7:43	EKG Pulse Rate	71	FLO-892		
6	2/1/2020 7:44	EKG Pulse Rate	68	FLO-892		
7	2/1/2020 7:45	EKG Pulse Rate	68	FLO-892		
8	2/1/2020 7:46	EKG Pulse Rate	67	FLO-892		
9	2/1/2020 7:47	EKG Pulse Rate	65	FLO-892		

P. Record Search

- a. New ability to multi-select for shopping cart and search by MPOG Case ID
- b. Search for multiple terms/variables at the same time using the '|' symbol between variables

Hint: | is found on the same key as \, use 'Shift' to type |

- c. Ex: 50002 | 50003 | Propofol | lactated ringers
  - i. This will pull in everything mapped to those two concept IDs and everything including the words 'propofol' and 'lactated ringers'

50002   50003   Propofol   lactated ringers			
Feb 01, 2020 (day of surgery)			
07:30	Anesthesia Start	Anesthesia Start	+
07:30	Patient in Room	RN Documented in Room	+
07:39	PROPOFOL	150 mg	+
08:45	LACTATED RINGERS	800 ml	+
10:00	LACTATED RINGERS	50 ml	+
11:31	PROPOFOL	50 mg	+

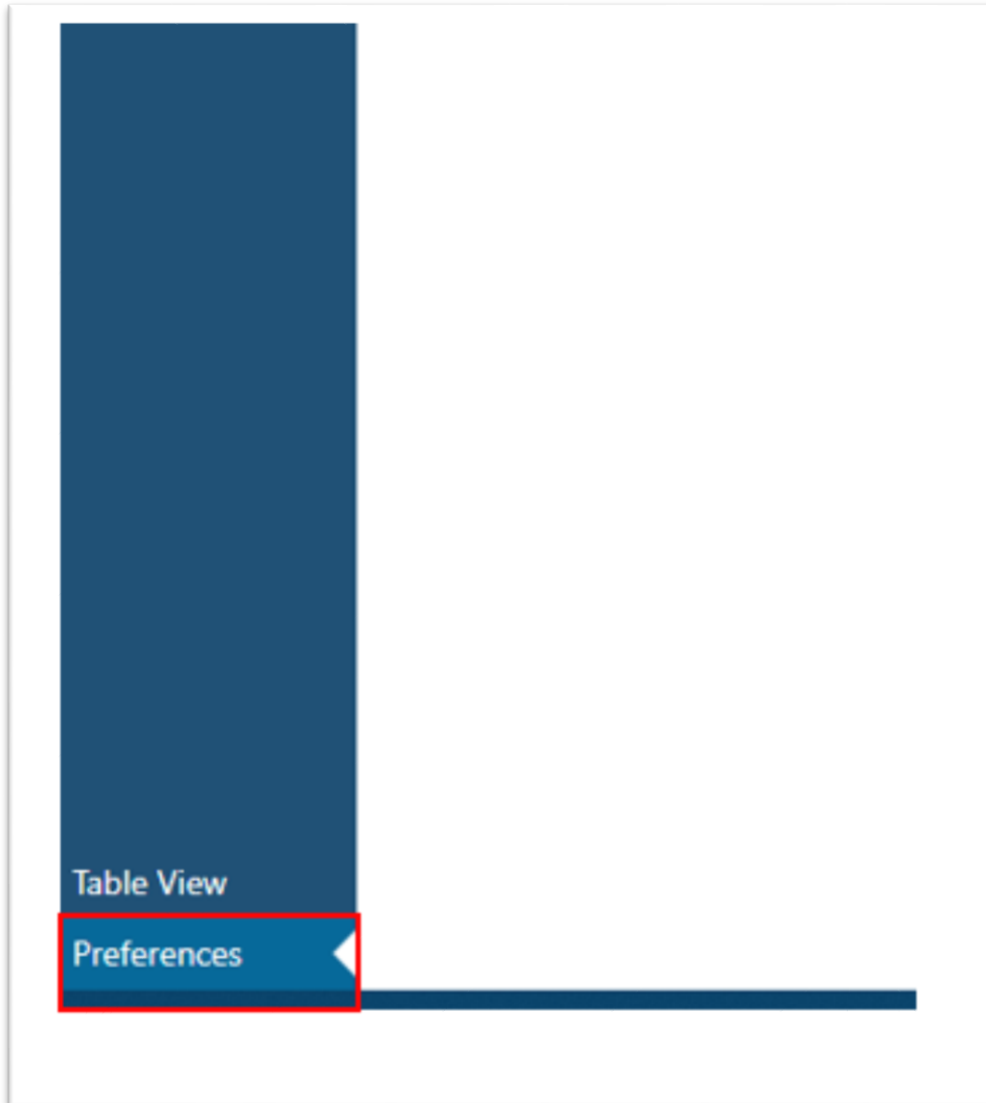
- d. Users can copy and paste select information from the "Shopping Cart" into an Excel file if needed
- e. Select the desired rows and use Ctrl + C to copy information
- f. In an Excel spreadsheet, Paste the information

50002   50003   Propofol   lactated ringers			
Dec 01, 2019 (day of surgery)			
09:18	FENTANYL	50 mcg	X
09:40	FENTANYL	25 mcg	X
10:34	FENTANYL	25 mcg	X

	A	B	C	D
1	12/1/2019 9:18	FENTANYL	50 mcg	
2	12/1/2019 9:40	FENTANYL	25 mcg	
3	12/1/2019 10:34	FENTANYL	25 mcg	
4				
5				

Q. Hide data in preferences tab

- a. Ability to hide deleted data in preferences tab on bottom left
- b. Values marked as "Artifact" are not shown when the option to not show Deleted data is selected



Any questions, please contact <mailto:support@mpog.zendesk.com>