



# Module 5

## Case Viewer



# Case Viewer Overview

The MPOG Case Viewer application displays individual case data in a standardized way, similar to an anesthesia information management system (AIMS) but agnostic to the electronic health record used by the participating site.



(No case loaded) ✕ +

**Fast Case Lookup**

**Find a Specific Case**  
Enter patient ID / case ID / MRN

**Case Search**

**Browse for Cases**  
Find cases by using one or more of the filters below.

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

**Filter Shortcuts**

| Case Type              | Patient Age | Date of Surgery | Recently Opened |
|------------------------|-------------|-----------------|-----------------|
| Coronary Artery Bypass | Pediatric   | November 2021   | Today           |
| Knee Arthroplasty      | Adult       | October 2021    | Yesterday       |
| Labor Analgesia        |             | September 2021  | This Week       |
| Labor Epidural         |             | Year to Date    | Last Week       |
|                        |             |                 | November 2021   |
|                        |             |                 | October 2021    |

**Enter Case List**  
Paste a list of MPOG Case IDs in the box below, each case on a separate line.

Import

To open a case, search by MPOG Patient ID, MPOG Case ID, or MRN in either location

Option to browse for cases by using one or more filters listed under “browse for cases”

Import or copy/paste a case list here if interested in viewing multiple specific cases from a list

# View Multiple Cases from Case List

Enter a list of MPOG Case IDs in the box, one per line, and click “Import”. A case will open.

September 2019

Enter Case List

Paste a list of MPOG Case IDs in the box below, each case on a separate line.

Import

# Using the Case List

- Arrows appear along the bottom of the left hand column to scroll between cases. If a case number is known (ex: you want to go to case 50 of 100), use the text field to type the desired case number.
- When scrolling through cases using this feature, any 'Sections' opened in the case view (see 'Sections' slide) will remain open
- User will remain in the same section of the chart when scrolling between cases



# Search by Filter

## Browse for Cases

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

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

## Filter Shortcuts

| Case Type              | Patient Age | Date of Surgery | Recently Opened |
|------------------------|-------------|-----------------|-----------------|
| Coronary Artery Bypass | Pediatric   | November 2021   | Today           |
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| Labor Analgesia        |             | September 2021  | This Week       |
| Labor Epidural         |             | Year to Date    | Last Week       |
|                        |             |                 | November 2021   |
|                        |             |                 | October 2021    |

- **Age-** Search for cases by specific age ranges
- **CPT code-** Search for cases that include a specific CPT code.
- **ICD code-** Search for cases that include a specific ICD code
- **MPOG Concept ID** – Lists all cases that have a specific MPOG concept documented.
  - Without other filters, searching by MPOG Concept ID may take awhile. Consider adding a date range filter.
- **Location-** allows users to search for procedures done at a specific location at their site based on Location Mapping (Module 4)
- **Opened Date Range-** This will generate a list of cases that the user previously opened during that time period.
- **Primary Surgical Service** - allows users to search by the primary surgical service associated with each case
- **Procedure Text-** Searches for matches in the Procedure Text field associated with a case (eg. CABG)
- **Registry Data-** Lists all cases that include data from MSQC, NSQIP, STS Adult Cardiac, STS Congenital Heart and STS General Thoracic
- **Surgery Date Range-** Find cases that occurred between specific dates.

# Search By Filter

MPOG Case Viewer

(No case loaded) ✕ +

**Fast Case Lookup**

**Find a Specific Case**  
*Enter patient ID / case ID / MRN*

**Case Search**

**Browse for Cases**  
Find cases by using one or more of the filters below.

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

**Filter Shortcuts**

| Case Type              | Patient Age | Date of Surgery | Recently Opened |
|------------------------|-------------|-----------------|-----------------|
| Coronary Artery Bypass | Pediatric   | November 2021   | Today           |
| Knee Arthroplasty      | Adult       | October 2021    | Yesterday       |
| Labor Analgesia        |             | September 2021  | This Week       |
| Labor Epidural         |             | Year to Date    | Last Week       |
|                        |             |                 | November 2021   |
|                        |             |                 | October 2021    |

Multiple filters may be applied at a time to narrow down a case list. The “Search Results” pane will automatically update a list of cases as filters are added.

MPOG Case Viewer

Fast Case Lookup

Case Search

Chart

Record Search

Administrative

H & P

Outcomes

Labs

(No case loaded) X +

Find a Specific Case

Enter patient ID / case ID / MRN

Browse for Cases

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

Age

CPT Code

ICD Code

Location

MPOG Concept ID

Opened Date Range

Primary Surgical Service

Procedure Text

Registry Data

Surgery Date Range

Filter Shortcuts

Case Type

Coronary Artery Bypass

Knee Arthroplasty

Labor Analgesia

Labor Epidural

Patient Age

Pediatric

Adult

Enter Case List

Paste a list of MPOG Case IDs in the box below

General

Anesthesiology

Bariatric Surgery

Burn

Cardiac

Cardiothoracic

Cardiothoracic-vascular

Colorectal

Dentistry

Dermatology

Gynecology

Hand Surgery

Medical - cardiology

Medical - gastroenterology

Medical - hematology/oncology

Medical - nephrology

Medical - not specified

Medical - other

Search Results

X

| Case Time                                    | Service | Patient Age | Procedure |
|----------------------------------------------|---------|-------------|-----------|
| No results found. Please try another search. |         |             |           |

To search cases by filter, click the filter name and supply any necessary information.

For example, to find a General Surgery case from September, click “Primary Surgical Service” and choose General from the dropdown box.



(No case loaded) X +

**Fast Case Lookup**

**Find a Specific Case**  
Enter patient ID / case ID / MRN

**Case Search**

Chart  
Record Search  
Administrative  
H & P  
Outcomes  
Labs

**Browse for Cases**  
Find cases by using one or more of the filters below.

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

General x

From 9/1/2021 15 x  
To 9/30/2021 15 x

**Filter Shortcuts**

| Case Type              | Patient Age | Date of Surgery | Recently Opened |
|------------------------|-------------|-----------------|-----------------|
| Coronary Artery Bypass | Pediatric   | December 2021   | Today           |
| Knee Arthroplasty      | Adult       | November 2021   | Yesterday       |
| Labor Analgesia        |             | October 2021    | This Week       |
| Labor Epidural         |             | Year to Date    | Last Week       |
|                        |             |                 | December 2021   |
|                        |             |                 | November 2021   |

**Enter Case List**  
Paste a list of MPOG Case IDs in the box below, each case on a separate line.

Import

Table View  
Preferences

Next, filter down to September cases by clicking “Surgery Date Range” and specifying 9/1/2021 to 9/30/2021.

Click ‘Enter’ to apply the filter

After these filters are applied, you can see General Surgery cases in September in the Search Results Pane to the Right

## Search Results

| Case Time        | Service |
|------------------|---------|
| 09-01-2021 14:30 | General |
| 09-01-2021 07:45 | General |
| 09-01-2021 07:30 | General |
| 09-01-2021 09:45 | General |
| 09-01-2021 07:30 | General |
| 09-01-2021 11:45 | General |
| 09-01-2021 13:45 | General |
| 09-01-2021 10:00 | General |
| 09-01-2021 10:00 | General |
| 09-02-2021 13:00 | General |
| 09-02-2021 10:30 | General |
| 09-02-2021 08:30 | General |
| 09-02-2021 08:30 | General |
| 09-02-2021 15:15 | General |
| 09-03-2021 10:45 | General |
| 09-03-2021 10:00 | General |
| 09-03-2021 07:30 | General |
| 09-03-2021 07:45 | General |
| 09-03-2021 13:20 | General |
| 09-03-2021 07:30 | General |
| 09-03-2021 15:55 | General |
| 09-04-2021 00:30 | General |
| 09-07-2021 13:30 | General |
| 09-07-2021 07:30 | General |
| 09-07-2021 13:35 | General |
| 09-07-2021 07:30 | General |
| 09-07-2021 17:25 | General |
| 09-07-2021 09:30 | General |
| 09-07-2021 07:30 | General |

(No case loaded) ✕ +

[Fast Case Lookup](#)

**Find a Specific Case**  
*Enter patient ID / case ID / MRN*

**Case Search**

[Chart](#)

[Record Search](#)

[Administrative](#)

[H & P](#)

[Outcomes](#)

[Labs](#)

**Browse for Cases**  
Find cases by using one or more of the filters below.

[Age](#)

[CPT Code](#)

[ICD Code](#)

[Location](#)

MPOG Concept ID

50002, 103777, 10007 ✕

Warning: Without other filters, searching by MPOG Concept ID can be slow and may time out. Consider adding date range filter.

[Opened Date Range](#)

[Primary Surgical Service](#)

[Procedure Text](#)

[Registry Data](#)

[Surgery Date Range](#)

**Filter Shortcuts**

| Case Type                              | Patient Age               | Date of Surgery               | Recently Opened               |
|----------------------------------------|---------------------------|-------------------------------|-------------------------------|
| <a href="#">Coronary Artery Bypass</a> | <a href="#">Pediatric</a> | <a href="#">December 2021</a> | <a href="#">Today</a>         |
| <a href="#">Knee Arthroplasty</a>      | <a href="#">Adult</a>     | <a href="#">November 2021</a> | <a href="#">Yesterday</a>     |
| <a href="#">Labor Analgesia</a>        |                           | <a href="#">October 2021</a>  | <a href="#">This Week</a>     |
| <a href="#">Labor Epidural</a>         |                           | <a href="#">Year to Date</a>  | <a href="#">Last Week</a>     |
|                                        |                           |                               | <a href="#">December 2021</a> |
|                                        |                           |                               | <a href="#">November 2021</a> |

**Enter Case List**  
Paste a list of MPOG Case IDs in the box below, each case on a separate line.

[Import](#)

“MPOG Concept ID” filter allows for finding cases based on one or multiple concepts being present on the case

To search by multiple concept IDs, use a comma between IDs

# Opening a Case

- Double click on a case in the Search Results pane to open. Case viewer will open to the “Chart” Tab. PHI has been removed for the purposes of this guide.

| Search Results   |         |             |           |             |
|------------------|---------|-------------|-----------|-------------|
| Case Time        | Service | Patient Age | Procedure | Institution |
| 09-23-2019 09:15 | General |             |           |             |
| 09-26-2019 14:30 | General |             |           |             |
| 09-25-2019 08:45 | General |             |           |             |
| 09-26-2019 09:45 | General |             |           |             |
| 09-24-2019 08:15 | General |             |           |             |
| 09-24-2019 16:42 | General |             |           |             |
| 09-25-2019 09:20 | General |             |           |             |
| 09-25-2019 15:00 | General |             |           |             |
| 09-25-2019 11:00 | General |             |           |             |
| 09-25-2019 09:00 | General |             |           |             |
| 09-26-2019 10:45 | General |             |           |             |
| 09-26-2019 08:15 | General |             |           |             |
| 09-26-2019 07:15 | General |             |           |             |
| 09-27-2019 15:45 | General |             |           |             |
| 09-27-2019 08:00 | General |             |           |             |
| 09-23-2019 07:45 | General |             |           |             |
| 09-18-2019 18:05 | General |             |           |             |
| 09-19-2019 12:25 | General |             |           |             |
| 09-26-2019 13:15 | General |             |           |             |
| 09-25-2019 07:15 | General |             |           |             |
| 09-26-2019 08:45 | General |             |           |             |
| 09-23-2019 14:10 | General |             |           |             |
| 09-24-2019 12:45 | General |             |           |             |
| 09-28-2019 09:15 | General |             |           |             |
| 09-26-2019 11:40 | General |             |           |             |
| 09-23-2019 12:45 | General |             |           |             |
| 09-24-2019 09:45 | General |             |           |             |
| 09-23-2019 09:15 | General |             |           |             |
| 09-26-2019 10:45 | General |             |           |             |
| 09-19-2019 15:15 | General |             |           |             |
| 09-25-2019 07:15 | General |             |           |             |
| 09-26-2019 17:05 | General |             |           |             |
| 09-26-2019 08:30 | General |             |           |             |
| 09-26-2019 11:05 | General |             |           |             |
| 09-27-2019 17:00 | General |             |           |             |
| 09-26-2019 21:30 | General |             |           |             |
| 09-24-2019 20:40 | General |             |           |             |
| 09-24-2019 15:15 | General |             |           |             |
| 09-25-2019 07:15 | General |             |           |             |
| 09-25-2019 16:30 | General |             |           |             |
| 09-22-2019 13:30 | General |             |           |             |
| 09-27-2019 09:15 | General |             |           |             |
| 09-27-2019 09:50 | General |             |           |             |
| 09-25-2019 08:45 | General |             |           |             |

# Chart View

MPOG Case Viewer

Fast Case Lookup

Case ID

Institution

Time 01-01-2020 09:42 - 01-01-2020 11:58 (02 hours, 15 min)

Procedure

Case Search

Chart

Record Search

Administrative

H & P

Outcomes

Labs

Collapse All Expand All

Main Chart [-] ☐ Show Reference Line

- ☒ BP Sys Cuff
- ☒ BP Dias Cuff
- ☒ SpO2 Pulse Rate
- ☒ End Tidal CO2 (mmHg)

Times [-] Preop Anesthesia In Room Surgery

All Staff [-] Staff Level - Anesthesia Attending #1 Staff Level - Anesthesia CRNA #1

Bolus Meds [-] DIPHENHYDRAMINE FENTANYL ONDANSETRON PROPOFOL ROCURONIUM SUGAMMADEX

Bolus Inputs [-] LACTATED RINGERS

Physio [-] Temp 1 - Unspecified Site SpO2 Pulse Rate EKG Pulse Rate

To return to the case list generated in the previous step, click “Case Search” in the upper left hand corner at any time while the case is open

MPOG Case Viewer

Fast Case Lookup

Case Search

Chart

Record Search

Administrative

H & P

Outcomes

Labs

Table View

Preferences

Case ID

Institution

Time 01-02-2020 08:26 - 01-02-2020 11:17 (02 hours, 51 minutes)

Procedure LEFT HARDWARE REMOVAL FEMU  
RIGHT HARDWARE REMOVAL TIBIA

Patient IDs (Last Name Missing), (First Name Missing) (MRN Missing) Copy

Age/Sex/Race

Height/Weight 167.6 cm, 63.5 kg

ASA Class ASA 2

Surgical Service Orthopedics

Admission Outpatient

Room Name

Main Chart

Times

All Staff

Bolus Meds

Bolus Inputs

Outputs

Physio

Temperature - Skin

Temp 1 - Unspecified Site

SpO2 Pulse Rate

EKG Pulse Rate

Respiratory Rate - Unspecified source

Respiratory Rate Actual from EtCO2 trace

BP Sys Cuff

BP Dias Cuff

BP Combined Non-invasive

BP Mean Cuff

Pulse Pressure Variation

08:30:00 09:00:00 09:30:00 10:00:00 10:30:00 11:00:00

Multiple Values

Time Mapped As Value Original Variable

facility Patient in Facility

ication Band Patient ID Verified

Machine Checked Anesthesia Machine Checked

verified Equipment verified

stified, chart review Patient identified, chart review

confirmed to be sc NPO status confirmed to be \_

Left Hand 18 g, pla Peripheral IV

placed on R upper a NIBP Cuff placed on \_

Start Anesthesia Start

y Room Ready

oom Patient In Room

duction/Initiation c PRIOR to Induction/Initiation c

oxygenated using E Patient preoxygenated by \_ L

ation Grade 1: Veni Mask ventilation \_

ved and Eyes taped Mask removed and Eyes \_

ated using Direct I Orally intubated using \_ on th

gle-lumen cuffed E \_ mm \_ ET tube taped @ \_ c

ral breath sounds : Equal bilateral breath sounds i

Laryngoscopy Atraumatic Laryngoscopy

Induction End Anesthesia Induction End

tioned Supine Patient positioned \_

s placed on arm bc Patient arms \_

ned Bed \_

erature probe chec \_ temperature probe checked

eck maintained in Free text

erve stimulator pl: Peripheral nerve stimulator pl

#1 Right Leg up @ Tourniquet #1 \_ up @ \_

ision Surgical Incision

warmer (convective Forced air warmer (convective

#1 down (total elay Tourniquet #1 down

placed Oral airway placed

netic by Surgeon Local Anesthetic by Surgeon

anesthesiologist for Page Staff Anesthesiologist for

essing Complete Surgical Dressing Complete

tioned Pharynx suctioned

ular function intact Neuromuscular function intact

ys commands Patient obeys commands

lated Awake Patient extubated \_

Substances SECURI Controlled Substances SECURI

ported to PACU Patient transported to \_

mitted to PACU Patient Admitted to PACU

The white header at the top of the screen provides basic demographic information:

MPOG Case ID

Institution

Procedure

Patient Name and MRN

Patient demographics (Age/Sex/Race)

Height/Weight

ASA Class

Surgical Service

Admission Status

Room Name

Date of Death (if known)

# Chart View

The MRN and MPOG Case ID can be copied using the 'Copy' button

| Case ID | Patient IDs | (Last Name Missing), (First Name Missing) (MRN Missing) |
|---------|-------------|---------------------------------------------------------|
| 1       | 2           | 3                                                       |

The left side pane allows users to toggle between different views:

- Chart
- Record Search
- Administrative
- H&P
- Outcomes
- Labs.

The current tab is highlighted in a lighter blue

Record Search

Administrative

H & P

Outcomes

Labs

Collapse All

Main Chart [-]

Times [-]

All Staff [-]

Bolus Meds [-]

Bolus Inputs [-]

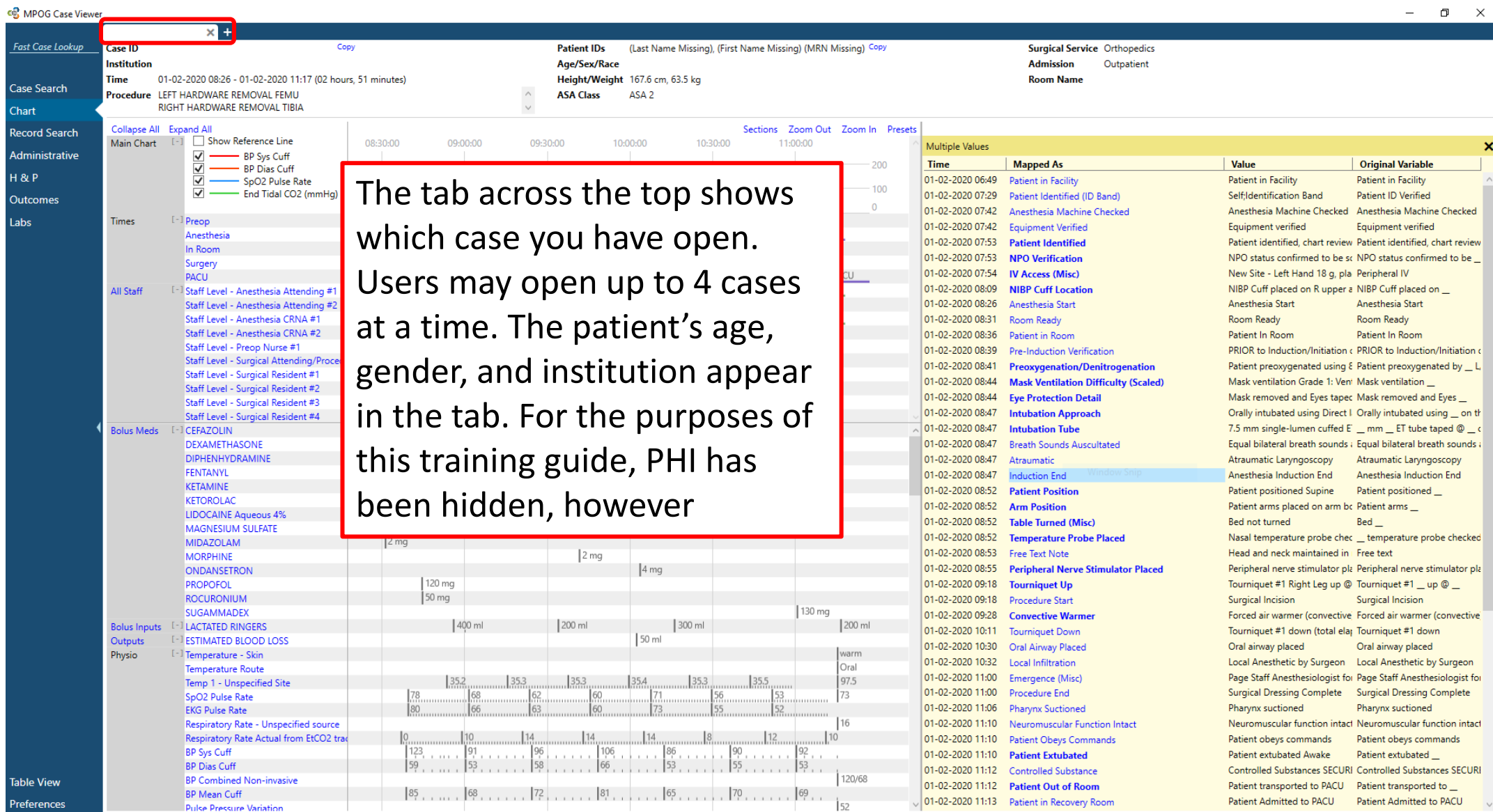
Outputs [-]

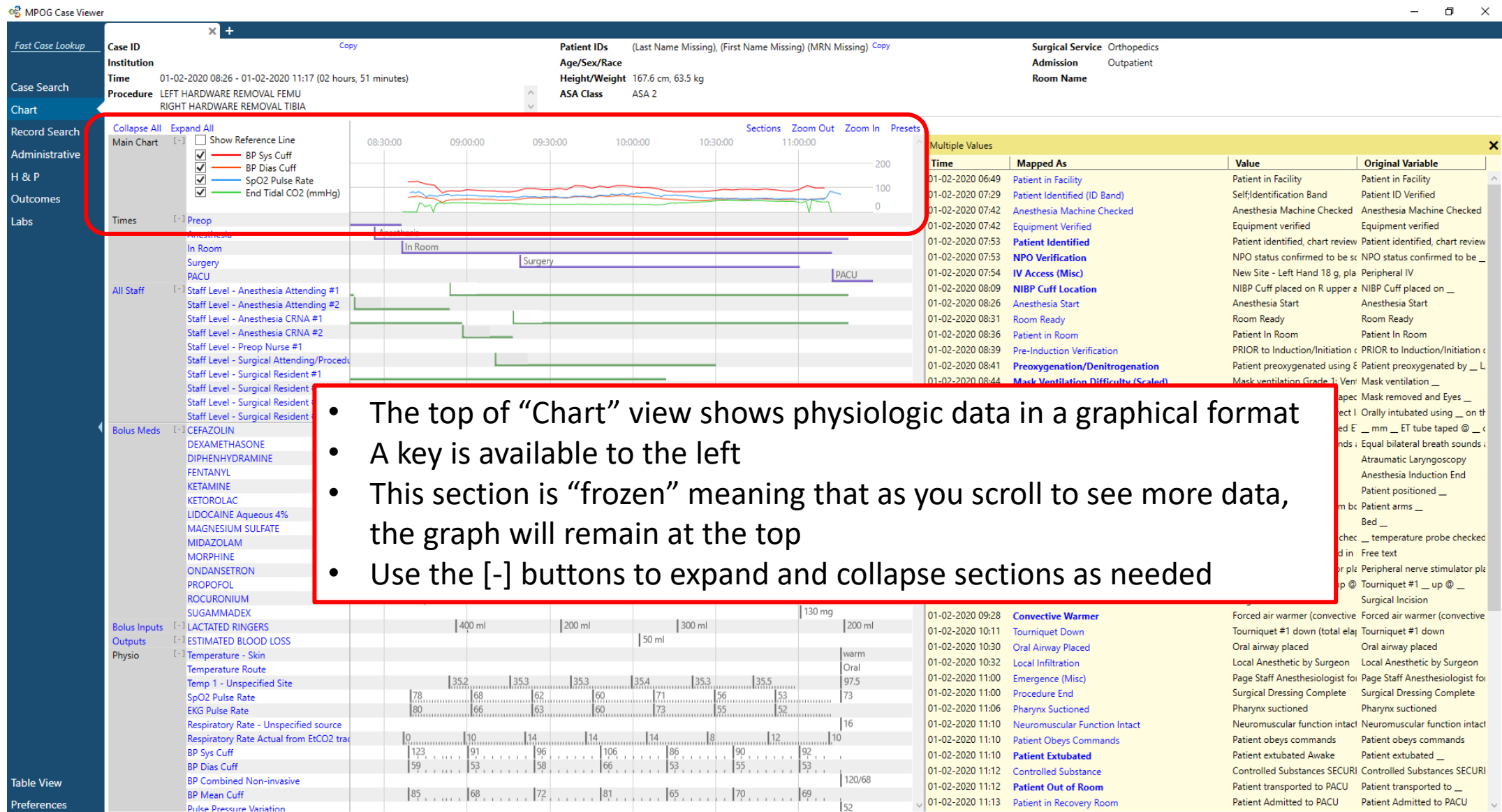
Physio [-]



- For viewing on smaller laptop screens, the blue panel can be collapsed to save space by using the small arrow

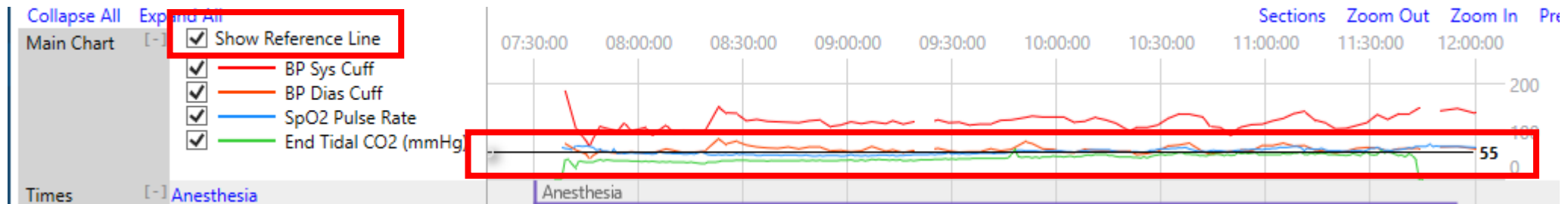


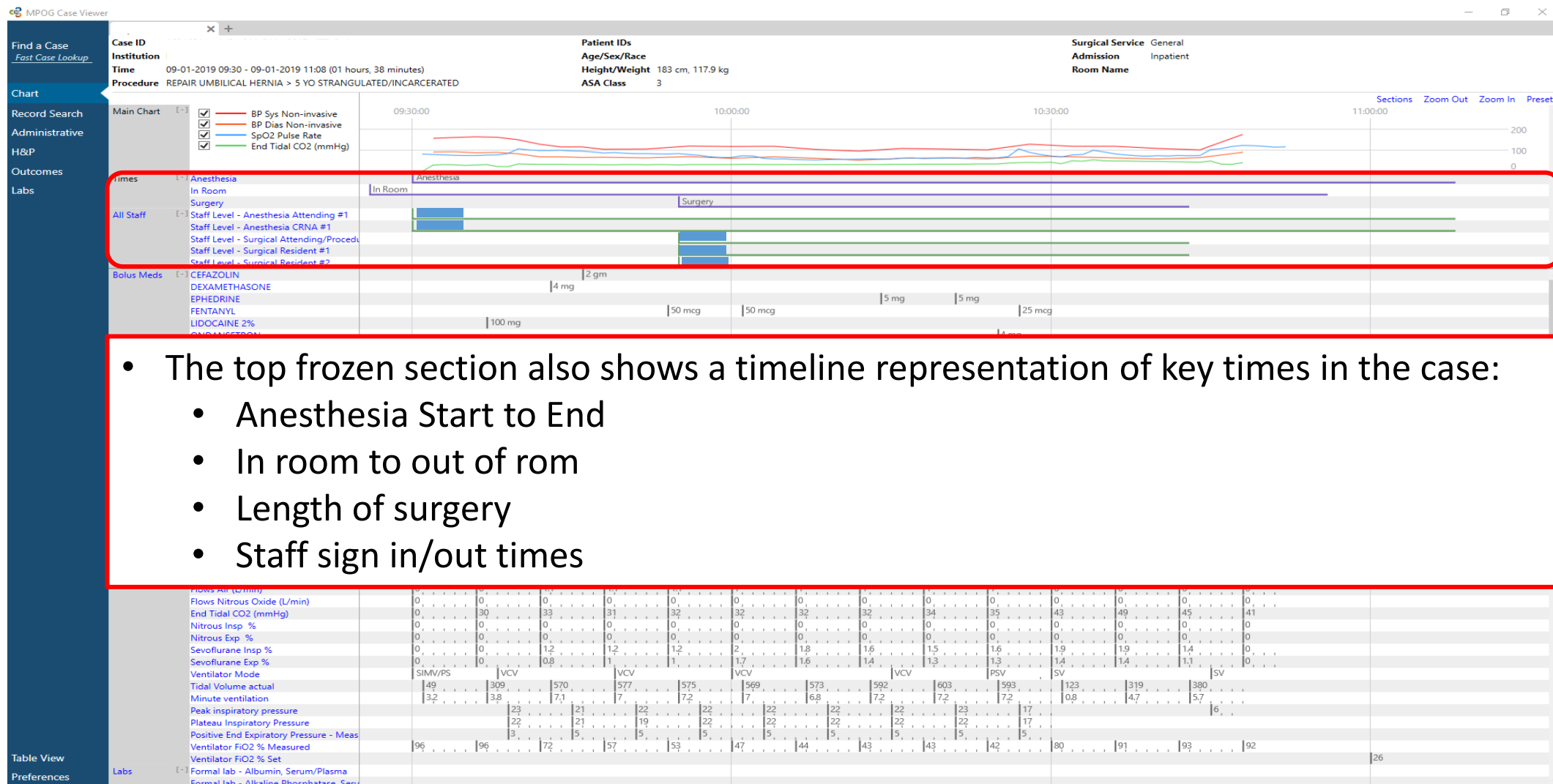




- The top of “Chart” view shows physiologic data in a graphical format
- A key is available to the left
- This section is “frozen” meaning that as you scroll to see more data, the graph will remain at the top
- Use the [-] buttons to expand and collapse sections as needed

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





- The top frozen section also shows a timeline representation of key times in the case:
  - Anesthesia Start to End
  - In room to out of rom
  - Length of surgery
  - Staff sign in/out times

MPOG Case Viewer

Fast Case Lookup

Case Search

Chart

Record Search

Administrative

H & P

Outcomes

Labs

Case ID

Institution

Time

Procedure

Patient IDs

Age/Sex/Race

Height/Weight

ASA Class

Surgical Service

Admission

Room Name

Cardiac

Admit

CVC-OR 04

MIDLINE MITRAL VALVE REPAIR OR REPLACEMENT

MIDLINE CORONARY ARTERY BYPASS GRAFT

ASA 4

Sections

Zoom Out

Zoom In

Presets

Notes

Multiple Values

| Time             | Mapped As                  | Value                      | Original Variable          |
|------------------|----------------------------|----------------------------|----------------------------|
| 10-12-2017 06:15 | Patient in Facility        | Patient in Facility        | Patient in Facility        |
| 10-12-2017 06:17 | Patient Available          | Assigned PreOp             | Assigned PreOp             |
| 10-12-2017 06:19 | Anesthesia Machine Checked | Anesthesia Machine Checked | Anesthesia Machine Checked |
| 10-12-2017 06:19 | Equipment Verified         | Equipment verified         | Equipment verified         |

BP Sys Arterial

BP Dias Arterial

BP Sys Cuff

BP Dias Cuff

EKG Pulse Rate

SpO2 Pulse Rate

End Tidal CO2 (mmHg)

Preop

Anesthesia

In Room

Surgery

All Staff

Meds - IV

Calcium Chloride

Cefuroxime

Fentanyl

Furosemide

Glycopyrrrolate

Heparin

Hydralazine

Insulin Regular

Lidocaine

Magnesium Sulfate

Mannitol

Midazolam

Milrinone

Morphine

Neostigmine

Norepinephrine

Pancuronium

Phenylephrine

Potassium Chloride

Propofol

Protamine

Tranexamic Acid

Vancomycin

Vasopressin

Chlorhexidine Alcohol Free 0.5

Amiodarone

Insulin Regular

Meds - PO

Infusion Meds

- The grey column to the left divides the case into the following sections
  - Meds – IV
  - Meds – PO
  - Infusion Meds
  - Inputs
  - Outputs
  - Physiologic
  - Ventilator
  - Flowsheet
  - Notes
  - Labs

Fast Case Lookup

Case Search

Chart

Record Search

Administrative

H & P

Outcomes

Labs

Case ID

Institution

Time

Procedure

Patient IDs

Age/Sex/Race

Height/Weight

ASA Class

Surgical Service

Admission

Room Name

08:00:00

09:00:00

10:00:00

11:00:00

12:00:00

13:00:00

14:00:00

15:00:00

Sections

Zoom Out

Zoom In

Presets

Notes

Multiple Values

| Time             | Mapped As           | Value               | Original Variable   |
|------------------|---------------------|---------------------|---------------------|
| 10-12-2017 06:15 | Patient in Facility | Patient in Facility | Patient in Facility |
| 10-12-2017 06:17 | Patient Available   | Assigned PreOp      | Assigned PreOp      |

[-]

Expand All

[-]

Main Chart

[-]

Preop

[-]

Anesthesia

[-]

Room

[-]

Surgery

[-]

All Staff

[-]

Meds - IV

[-]

Meds - PO

[-]

Infusion Meds

Show Reference Line

BP Sys Arterial

BP Dias Arterial

BP Sys Cuff

BP Dias Cuff

EKG Pulse Rate

SpO2 Pulse Rate

End Tidal CO2 (mmHg)

ALCIUM CHLORIDE

CEFUROXIME

PENTANYL

UROSEMIIDE

LYCOPYRROLATE

EPARIN

HYDRALAZINE

SULIN REGULAR

DOCAINE

MAGNESIUM SULFATE

MANNITOL

IDAZOLAM

ILIRINONE

MORPHINE

NEOSTIGMINE

OREPINEPHRINE

ANCURONIUM

PHNYLEPHRINE

OTASSIUM CHLORIDE

PROPOFOL

DIAMINE

ANEXAMIC ACID

ANCOMYCIN

ASOPRESSIN

CHLORHEXIDINE ALCOHOL FREE 0.12%

MODARONE

ANSULIN REGULAR

1 mg

1.5 mg

2 mcg

4 mcg

2 mg

6 mg

1.5 mg

1 units

1 units

3 units/hr

3 gm

12.5 gm

1.5 mg

2 mcg

4 mcg

2 mg

6 mcg

Mask Ventilation Difficulty (Scaled)

Eye Protection Detail

Intubation Approach

Intubation Tube

Breath Sounds Auscultated

Atraumatic

Bite Block Placed

Anesthesia Procedure Start

Pulmonary Artery Catheter Placed

Induction End

Anesthesia Procedure End

Temperature Probe Placed

Patient Position

Arm Position

Peripheral Nerve Stimulator Placed

Cardiac Surgery (Misc)

Mask ventilation Grade 2: Ven

Mask removed and Eyes taped

Orally intubated using Direct I

7.5 mm Single-lumen cuffed E

Equal bilateral breath sounds

Atraumatic Laryngoscopy

TEE Single-lap sponge bite b

Central Line placement Start

PAC Placement w/ Introducer

Anesthesia Induction End

Central Line placement finishe

Nasal temperature probe plac

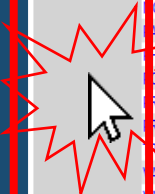
Patient positioned Supine

Patient arms padded and tuck

Peripheral nerve stimulator pl

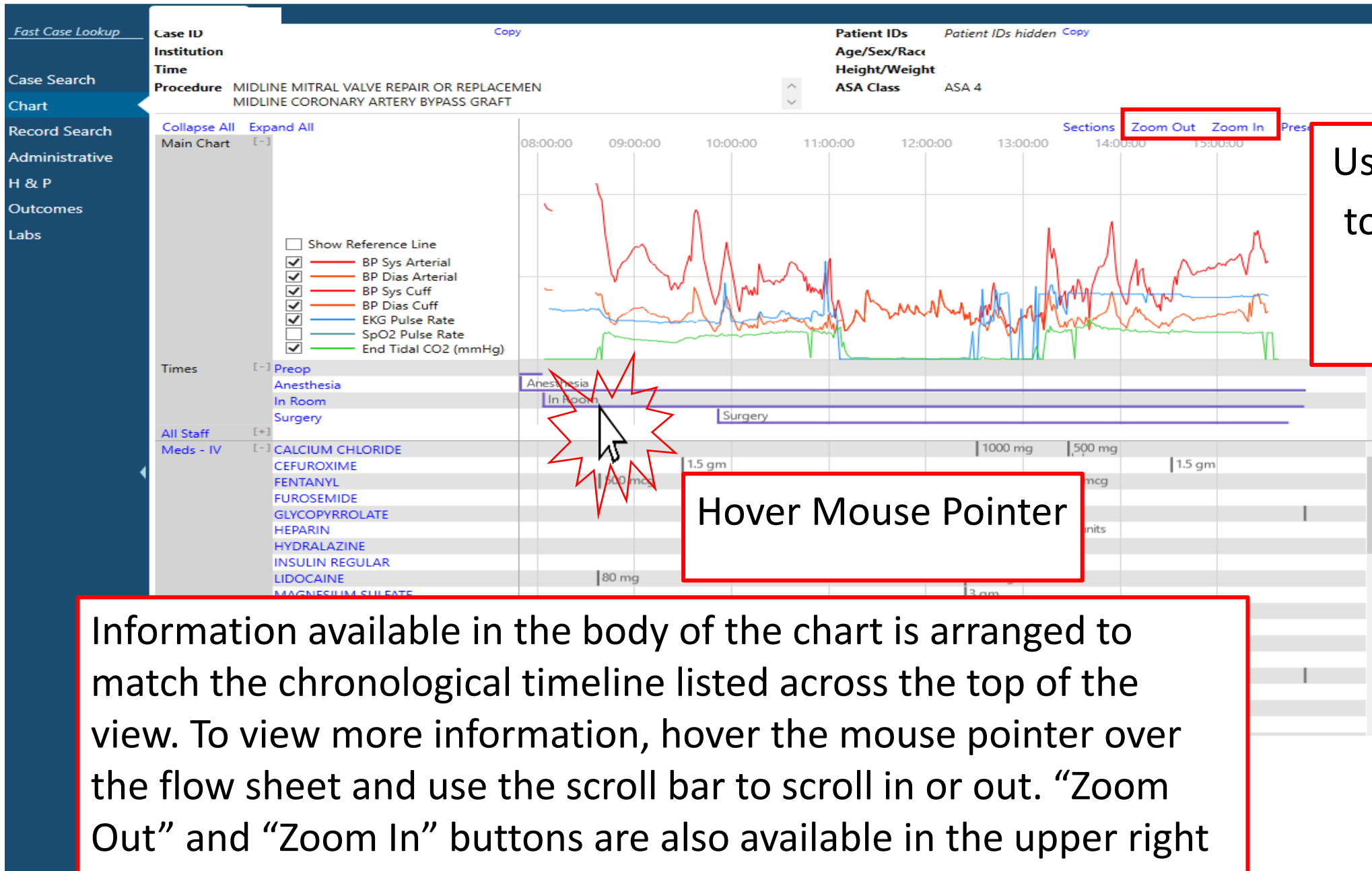
Amount of Autologous Whole

- Scroll through the sections by either hovering over the grey bar and using the scroll wheel on your mouse OR using the scroll bar to the right.
- Use the “[-]” buttons to expand and collapse sections as needed.
- Use “Collapse All” to collapse all sections.

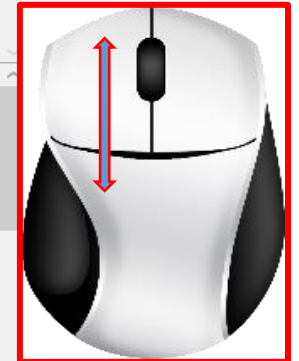


Hover Mouse Pointer





Use scroll wheel  
to zoom in and  
out



Fast Case Lookup

Case Search

Chart

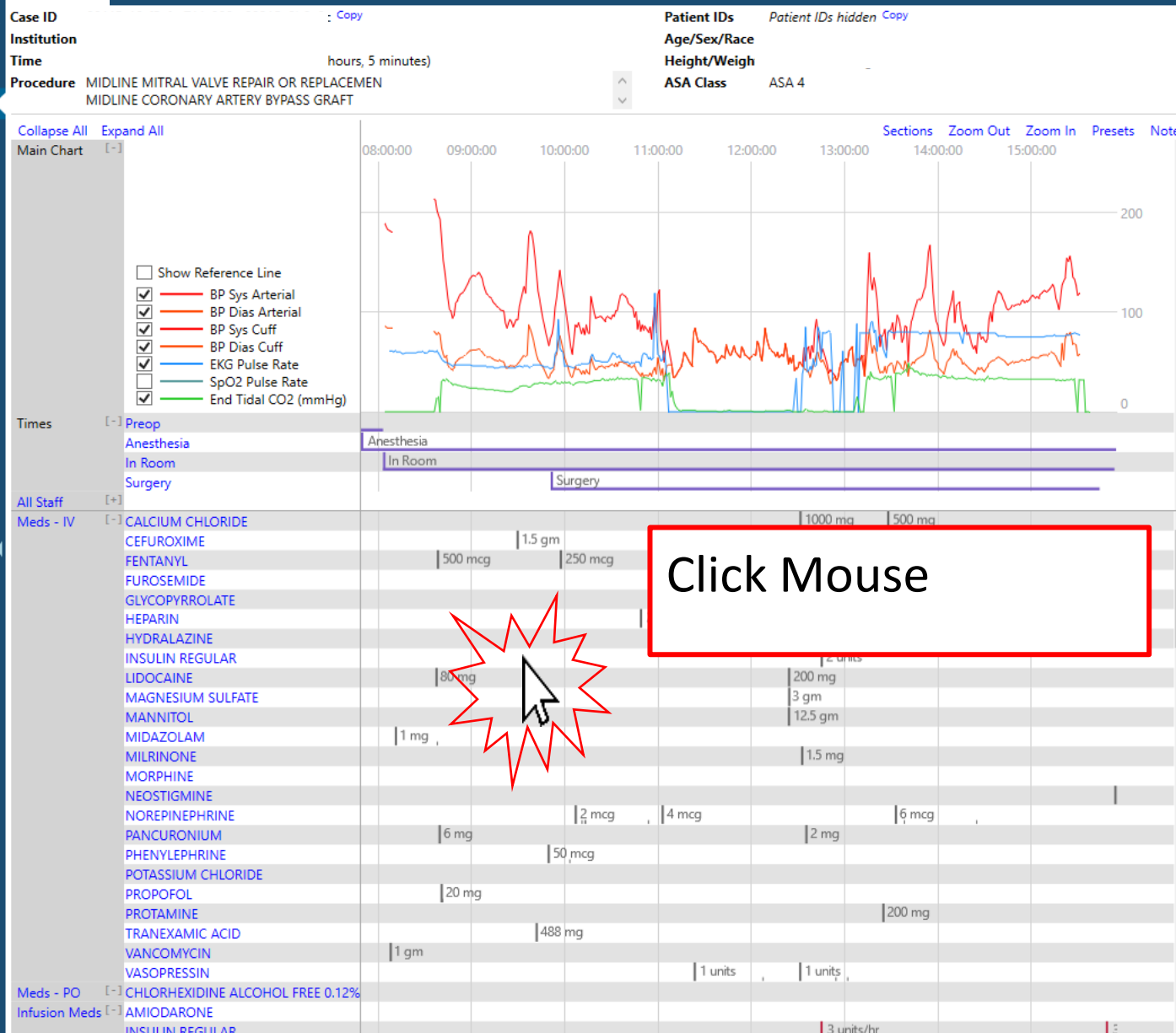
Record Search

Administrative

H & P

Outcomes

Labs

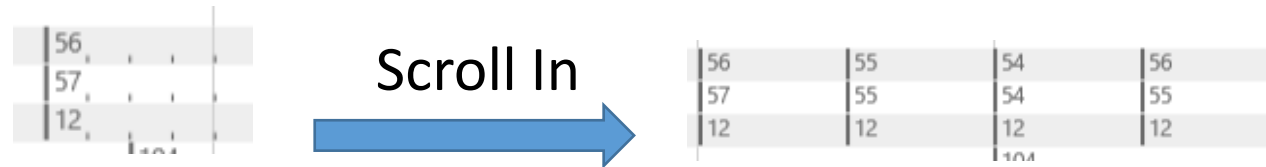


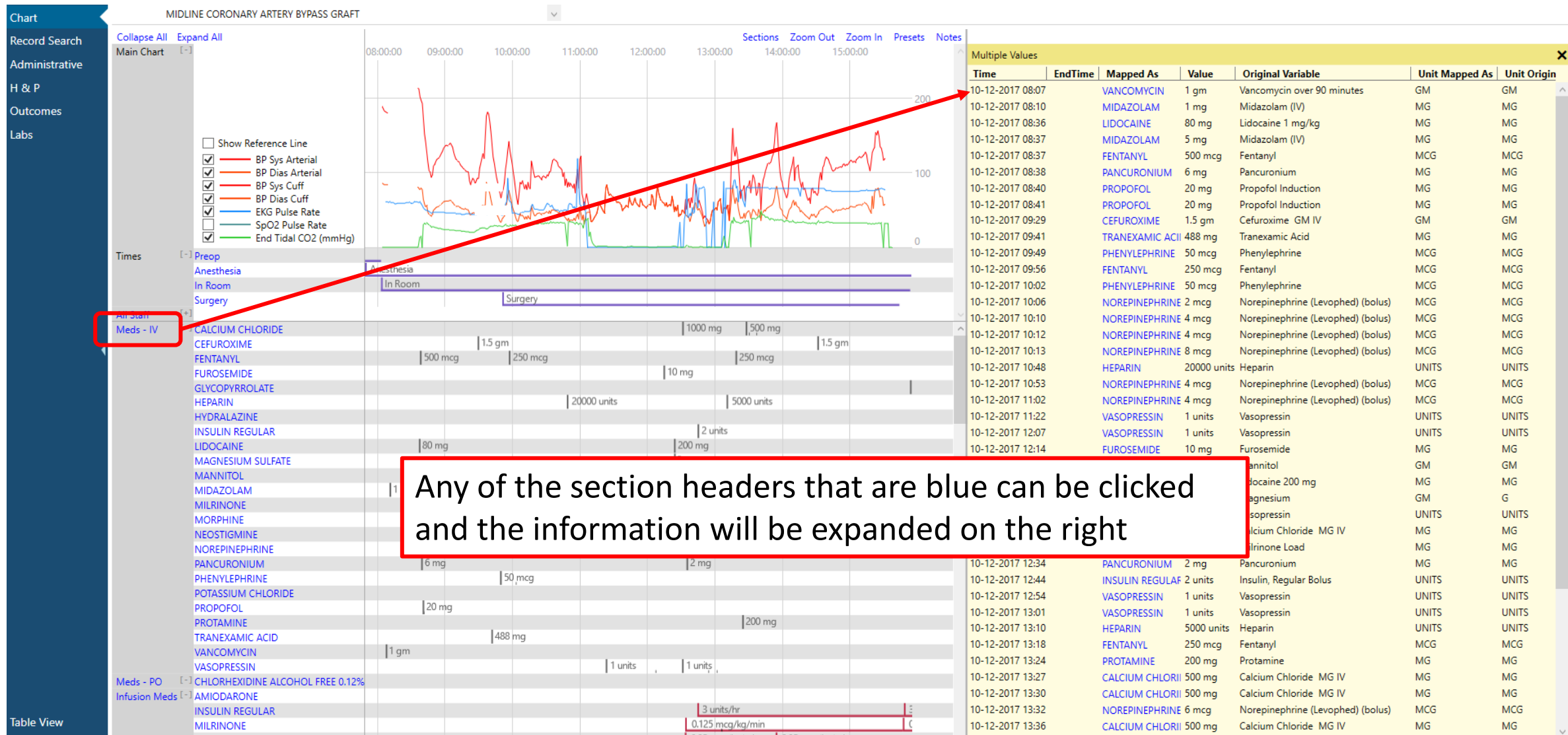
Click and drag  
mouse left or  
right

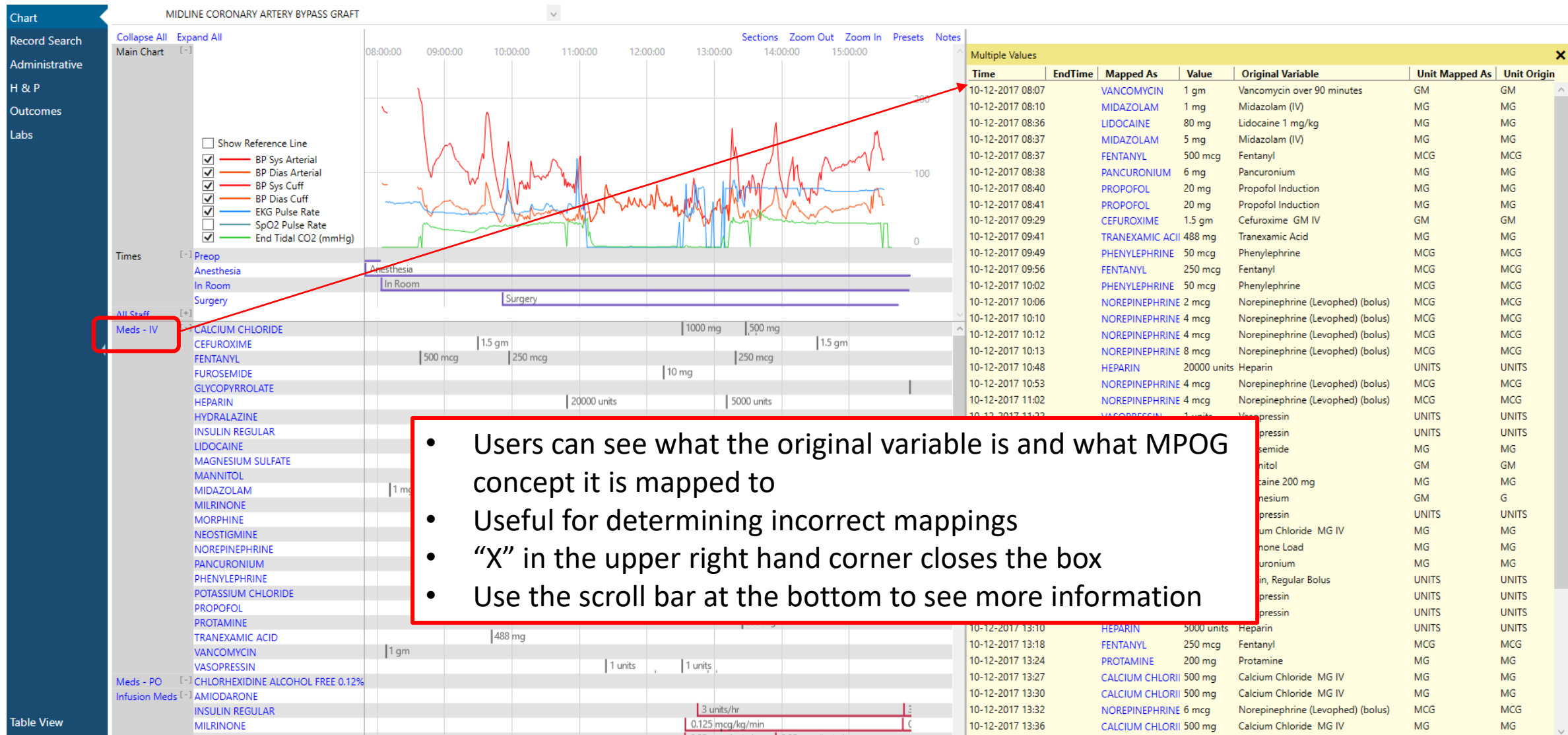




Tick marks on the flowsheet let users know that more information is available if you scroll in.







- Users can see what the original variable is and what MPOG concept it is mapped to
- Useful for determining incorrect mappings
- "X" in the upper right hand corner closes the box
- Use the scroll bar at the bottom to see more information

- Clicking a value brings up more information
- Allows for further drill down of the information

Medication

[Back](#)

Type

LIDOCAINE 2%

Value

100 mg

Time

09-01-2019 09:37:00

End Time

Variable Mappings

|                 |                       |                                     |
|-----------------|-----------------------|-------------------------------------|
| <b>Med Type</b> | LIDOCAINE 2%<br>10250 | Lidocaine 2% 20 mg/mL<br>ERX-112130 |
| <b>Unit</b>     | MG<br>1005            | MG<br>MG                            |
| <b>Route</b>    | IV<br>2001            | INTRAVENOUS<br>INTRAVENOUS          |

- Data in this view can also be sorted by clicking on the column header

Click header

| 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                 |



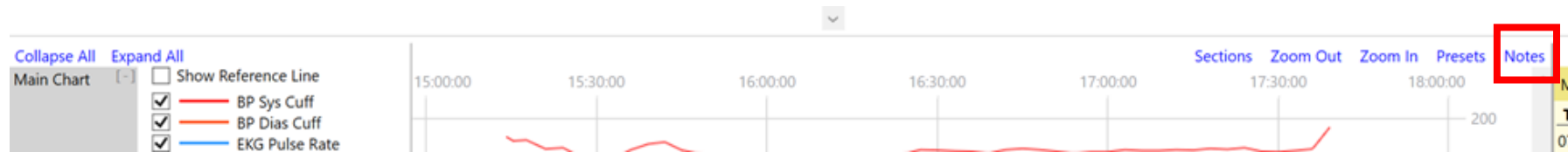
| Multiple Values  |                     |       |                   |
|------------------|---------------------|-------|-------------------|
| Time             | Mapped As           | Value | Original Variable |
| 12-01-2019 08:18 | BP Sys Non-invasive | 84    | 7                 |
| 12-01-2019 08:21 | 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 08:36 | 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 Sys Non-invasive | 115   | 7                 |

Values  
sorted in  
order

- | Multiple Values  |                            |                           |                           |
|------------------|----------------------------|---------------------------|---------------------------|
| Time             | Mapped As                  | Value                     | Original Variable         |
| 11-29-2019 20:43 | Patient in Facility        | Patient in Facility       | Patient in Facility       |
| 12-01-2019 07:28 | Fall Risk Score            | No Risk Factors Present   | Fall Risk Assessment      |
| 12-01-2019 08:22 | Patient Identified (ID Bar | Self-Identification Band  | Patient ID Verified       |
| 12-01-2019 08:59 | Anesthesia Machine Che     | Anesthesia Machine Che    | Anesthesia Machine Che    |
| 12-01-2019 08:59 | Equipment Verified         | Equipment verified        | Equipment verified        |
| 12-01-2019 08:59 | Patient Identified         | Patient identified, chart | Patient identified, chart |
| 12-01-2019 08:59 | NPO Verification           | NPO status confirmed to   | NPO status confirmed to   |
| 12-01-2019 09:00 | Patient Identified (ID Bar | Identification Band;Self  | Patient ID Verified       |
| 12-01-2019 09:05 | Room Ready                 | Room Ready                | Room Ready                |
| 12-01-2019 09:07 | Anesthesia Start           | Anesthesia Start          | Anesthesia Start          |
| 12-01-2019 09:13 | Patient in Room            | Patient In Room           | Patient In Room           |
| 12-01-2019 09:15 | Patient in Room            | Patient In Room           | Patient In Room           |
| 12-01-2019 09:16 | Monitors Specified         | Standard monitors place   | Standard monitors place   |
| 12-01-2019 09:17 | Pre-Induction Verification | PRIOR to Induction/Initi  | PRIOR to Induction/Initi  |
| 12-01-2019 09:24 | Pre-Induction Verification | PRIOR to Induction/Initi  | PRIOR to Induction/Initi  |
| 12-01-2019 09:24 | Preoxygenation/Denitr      | Patient preoxygenated b   | Patient preoxygenated b   |

[illegible]

- The notes pane can be quickly re-opened via the “notes” shortcut in the upper right-hand corner



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

| Intraop Note         |                                    |                                    |                     |
|----------------------|------------------------------------|------------------------------------|---------------------|
| <a href="#">Back</a> |                                    |                                    |                     |
| Concept              | AACD Patient In Facility Date/Time |                                    |                     |
| Value                | Patient in Facility                |                                    |                     |
| Observed Time        | 11-29-2019 20:43                   |                                    |                     |
|                      |                                    |                                    |                     |
| Entered Time         | 12-01-2019 08:07                   |                                    |                     |
| Variable Mappings    | Note Type                          | Mapped As                          | Original            |
|                      |                                    | AACD Patient In Facility Date/Time | Patient in Facility |
|                      |                                    | 50016                              | 30594               |



If you notice a gray box around the time in the note section, there is no Observed Time entered

10-13-2021 09:00 Ankle Block

Intraop Note

[Back](#)

|               |                                        |
|---------------|----------------------------------------|
| Concept       | Regional - Ankle Block                 |
| Value         | Peripheral Block-anesthesia block type |
| Observed Time |                                        |

- Bolded “parent” notes have associated “child” detail notes. Clicking on a bolded note will give the additional details as well
- The original variable as well as the value are displayed in the note details

| e            | Mapped As                    | Value                 | Original Variable     |
|--------------|------------------------------|-----------------------|-----------------------|
| 9-2021 07:30 | <b>Eye Protection Detail</b> | Mask removed and f    | Mask removed and f    |
| 9-2021 07:32 | Breath Sounds Auscultated    | Equal bilateral breat | Equal bilateral breat |
| 9-2021 07:32 | <b>Intubation Tube</b>       | 8.0 mm Single-lume    | __ mm __ ET tube tap  |
| 9-2021 07:32 | <b>Intubation Approach</b>   | Orally intubated usir | Orally intubated usir |
| 9-2021 07:32 | Atraumatic                   | Atraumatic Laryngos   | Atraumatic Laryngos   |
| 9-2021 07:37 | <b>Bite Block Placed</b>     | TEE Plastic bite bloc | TEE __ bite block pla |
| 9-2021 07:38 | Anesthesia Procedure Start   | Central Line placem   | Central Line placem   |

Intraop Note

Back

Concept

Intubation Tube Note

Value

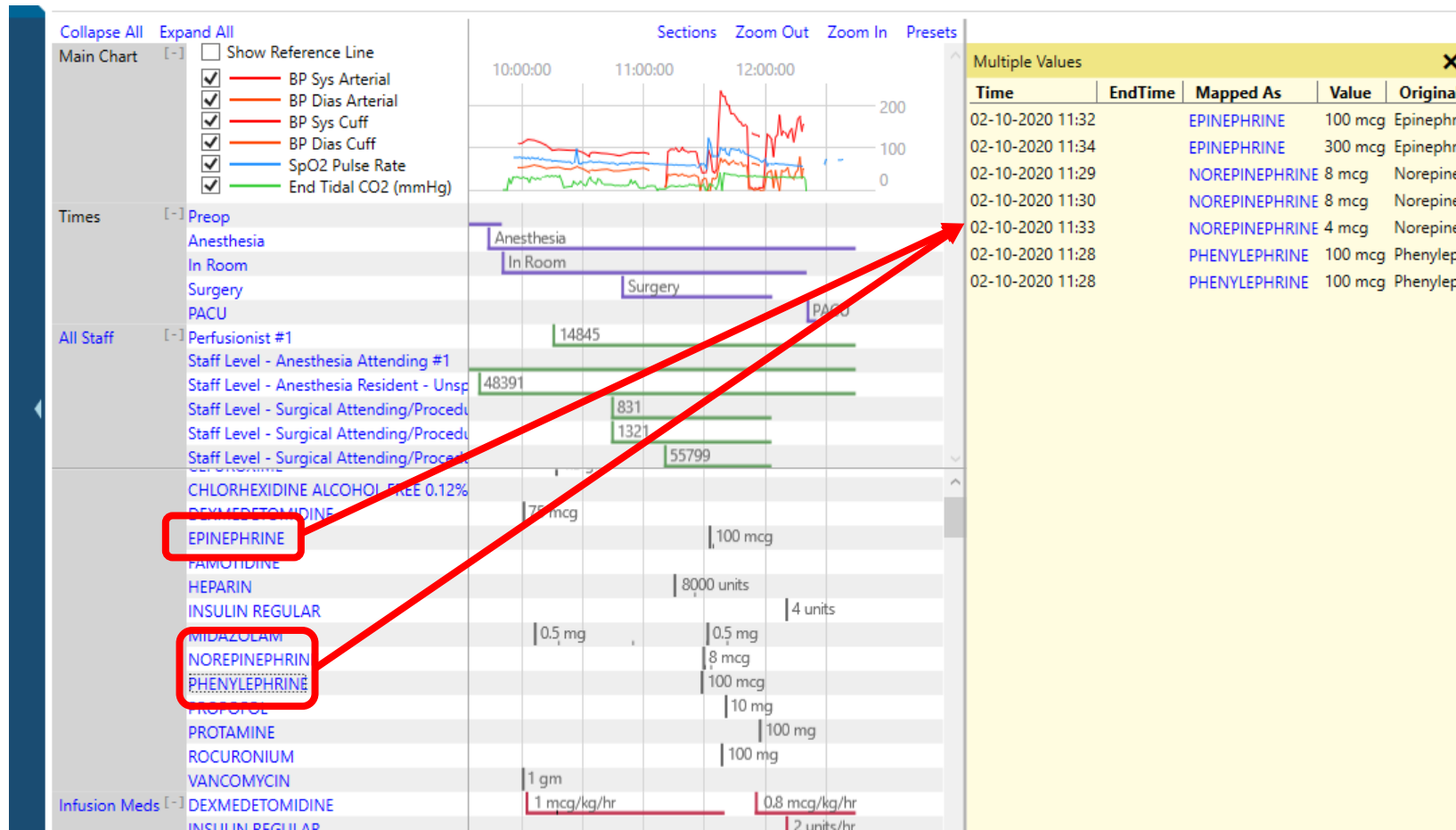
8.0 mm Single-lumen cuffed ET tube taped @ 24 cm

Observed Time

10-19-2021 07:32

Details

| Concept                   | Original Variable | Value               |
|---------------------------|-------------------|---------------------|
| Endotracheal Tube Type    | ET Tube Type      | Single-lumen cuffed |
| Endotracheal Tube Type    | ET Tube Type      | Single-lumen cuffed |
| Endotracheal Tube Size    | ET Tube Size (mm) | 8                   |
| Endotracheal Tube Secured | Taped at (cm)     | 21                  |
| Endotracheal Tube Size    | ET Tube Size (mm) | 8                   |
| Endotracheal Tube Secured | Taped at (cm)     | 24                  |



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

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

om In Presets

1:00

200

100

55

0

6951

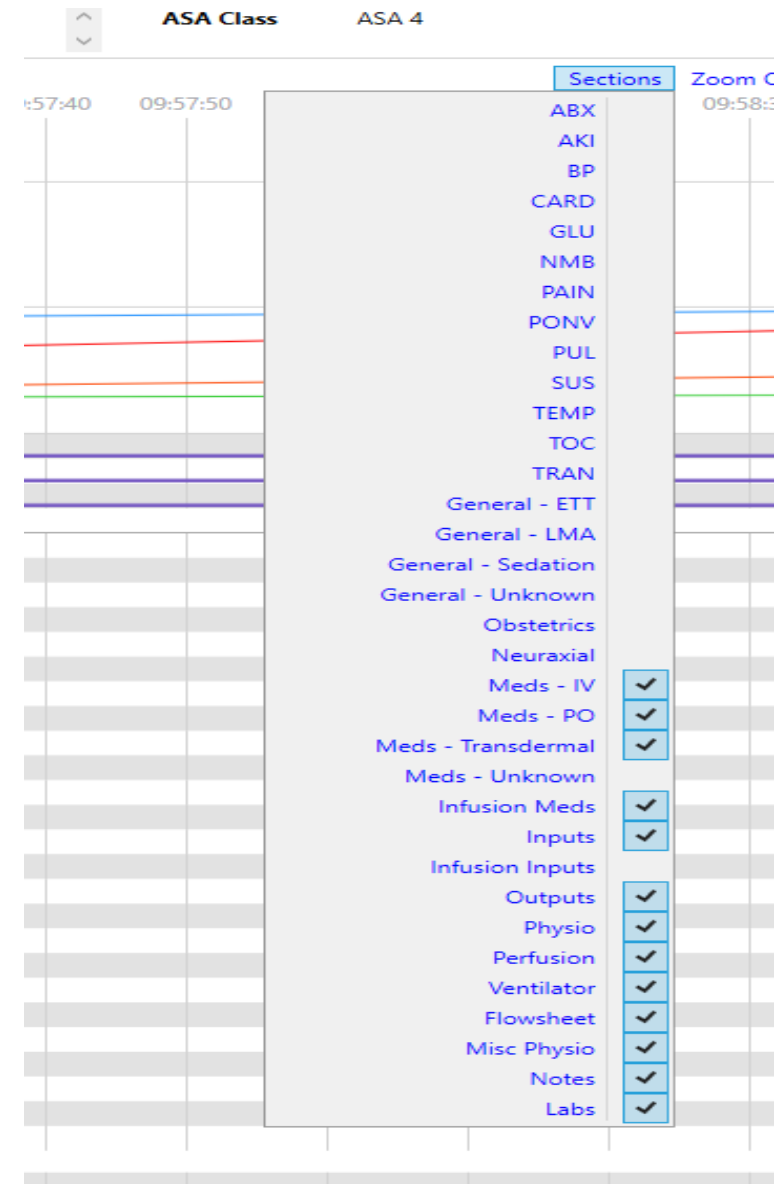
| Multiple Values  |                |       |                   |
|------------------|----------------|-------|-------------------|
| Time             | Mapped As      | Value | Original Variable |
| 02-01-2020 07:39 | EKG Pulse Rate | 63    | FLO-892           |
| 02-01-2020 07:40 | EKG Pulse Rate | 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           |
| 02-01-2020 07:51 | EKG Pulse Rate | 62    | 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 |   |   |

# Sections Menu

- Upper right hand corner
- Use to add and remove sections from the body of the chart as needed
- MPOG Measure related sections pull in a summary section of all relevant variables to complete chart review on those measures.



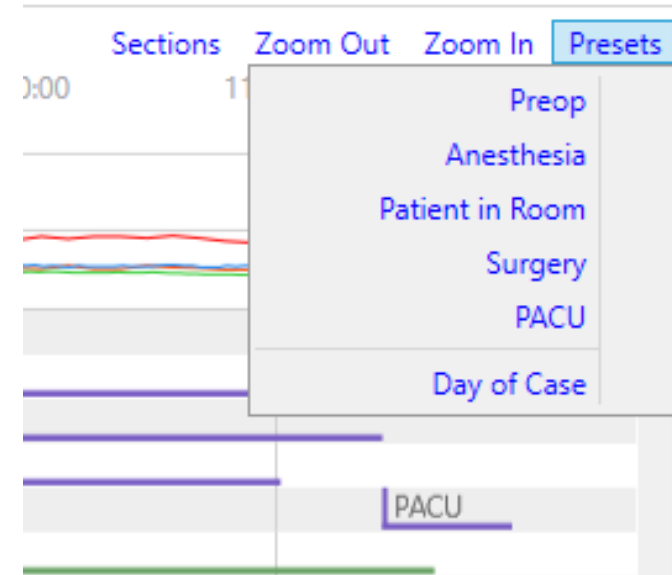
For example, the PONV section summarizes PONV relevant information such as anti-emetics given, anesthetic gases used, and PONV and smoking history and risk factors. While this information is available elsewhere in the chart, this view quickly summarizes and puts the information into one place.

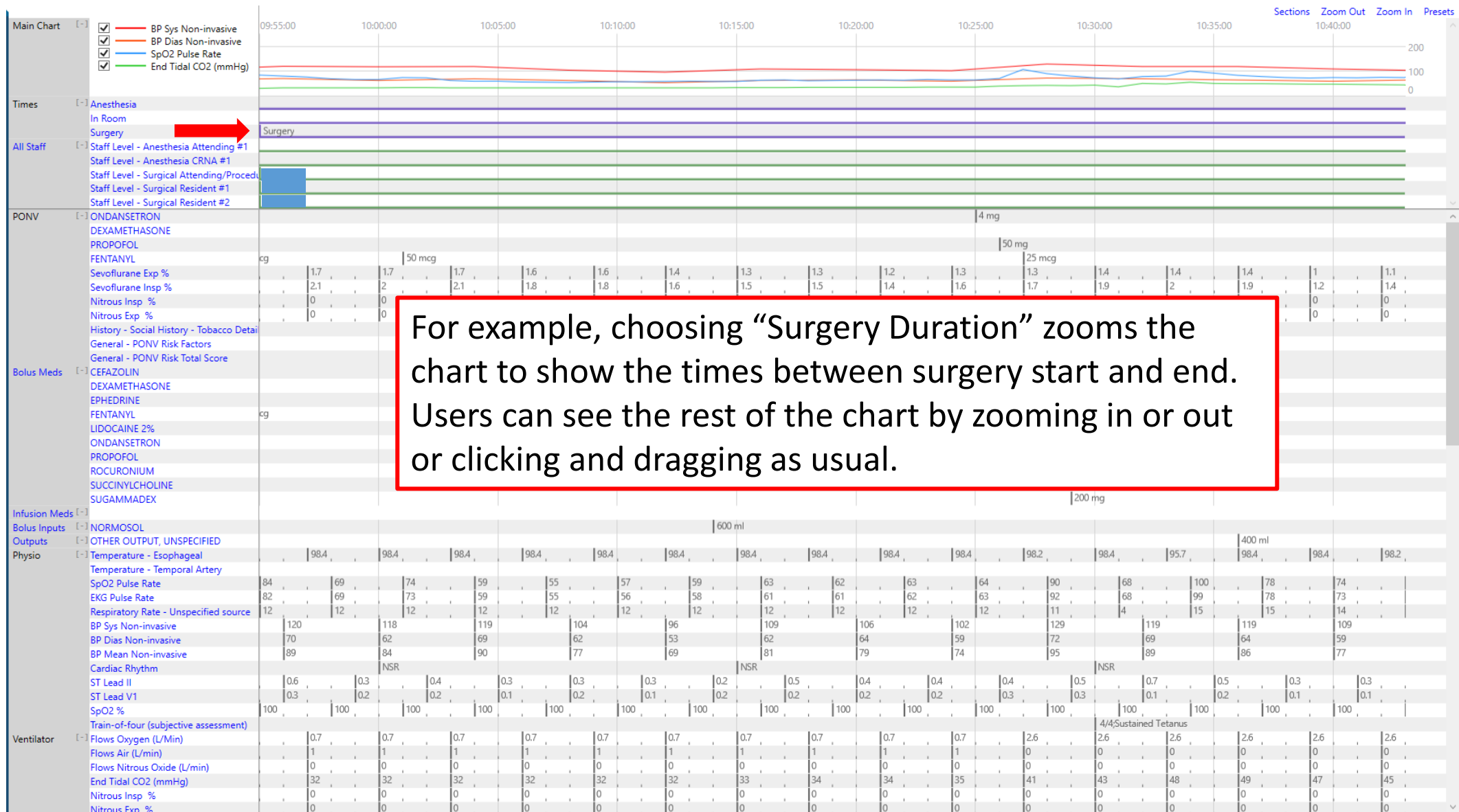
[illegible]

When using an imported case list and the box on the left to move through cases, any 'Section' you have open will remain open case to case

# Preset Menu

- The “Preset” menu in the upper right corner shows users preset views of the chart based on their choice.







# Record Search

- Next view available in the left pane
- Search relevant information, including by MPOG Concept ID (exact match required for Concept ID) and original variable ID/name
  - Use “mpog:” in front of a keyword in order to only consider the MPOG concept ID or name
  - Use “aims:” in front of a keyword in order to only consider the original variable ID or name
  - Use “value:” in front of a keyword in order to only consider the value of the record
- Temporarily save that information together in the “Shopping cart” to the right using the “+”
- Remove information from the shopping cart using the “X”

The screenshot displays the MPOG Record Search interface. On the left is a navigation menu with options: Chart, Record Search (selected), Administrative, H & P, Outcomes, and Labs. The main search area shows the term 'propofol' entered, with a '(What's This?)' link and a 'Jump to surgery' button. Below the search bar, two panels show results for 'May 01, 2021 (day of surgery)'. The left panel lists four records of propofol administration with times 10:20, 10:21, 10:21, and 10:23, each with a dosage and a '+' button in a red circle. The right panel shows a single record at 10:20 with a dosage and an 'X' button in a red circle.

| May 01, 2021 (day of surgery) |          |       |   |
|-------------------------------|----------|-------|---|
| 10:20                         | PROPOFOL | 80 mg | + |
| 10:21                         | PROPOFOL | 20 mg | + |
| 10:21                         | PROPOFOL | 20 mg | + |
| 10:23                         | PROPOFOL | 20 mg | + |

| May 01, 2021 (day of surgery) |          |       |   |
|-------------------------------|----------|-------|---|
| 10:20                         | PROPOFOL | 80 mg | X |

# Record Search

- 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 |
- Ex: 50002 | 50003 | Propofol | lactated ringers
  - This will pull in everything mapped to those two concept IDs and everything including the words 'propofol' and 'lactated ringers'
- CTRL + Z will undo searches in record search

|                               |                                             |
|-------------------------------|---------------------------------------------|
| Record Search                 | 50002   50003   Propofol   lactated ringers |
| Administrative                |                                             |
| H & P                         |                                             |
| Outcomes                      |                                             |
| Labs                          |                                             |
| 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 +                            |

# Record Search

- Presets—clicking on this will show what preset options are available.
  - The preset options will auto populate the search area with all variables that are mapped to MPOG concept IDs related to the preset.
  - For example, the MPOG concept IDs under the GLU preset are:  
10796|10797|3426|3361|3362|3405|5003|5036  
|10152|10153|10229|10230|10231|10232|10233  
|10460|10461|10462|10465|10466|10467|10468  
|10469|10470|10471|10530|10539|10548|10558  
|10559|10588|10594|10602|10659|10752|50012  
|50304|6008|50301|50443|50011|50069|50110  
|50211|10788|50016

The screenshot shows the 'Record Search' interface. On the left is a dark blue sidebar with a list of categories: 'Record Search' (highlighted), 'Administrative', 'H & P', 'Outcomes', and 'Labs'. The main content area has a search bar with the placeholder text 'Search here' and a link '(What's This?)'. Below the search bar is a prompt 'Enter a search query above to find me'. To the right of the search bar is a 'Presets' button and a link 'Jump to surgery'. The 'Presets' dropdown menu is open, showing a list of preset options: PAIN, PONV, GLU, NMB, TRAN, TEMP, BP, CARD, AKI, PUL, SUS, ABX, TOC, LMA, ETT, General, Sedation, Obstetrics, and Neuraxial.

This image shows the 'Record Search' interface with the search bar populated with the MPOG concept IDs: 10796|10797|3426|3361|3362|3405|50. To the right of the search bar are the links '(What's This?)' and 'Presets'.

# Record Search

- Ctrl + Click or Shift + Click allows for multi-select and the ability to add more than one row of information into the “Shopping Cart”

Fentanyl

| Dec 01, 2019 (day of surgery) |          |        |   |
|-------------------------------|----------|--------|---|
| 09:18                         | FENTANYL | 50 mcg | + |
| 09:40                         | FENTANYL | 25 mcg | + |
| 10:34                         | FENTANYL | 25 mcg | + |

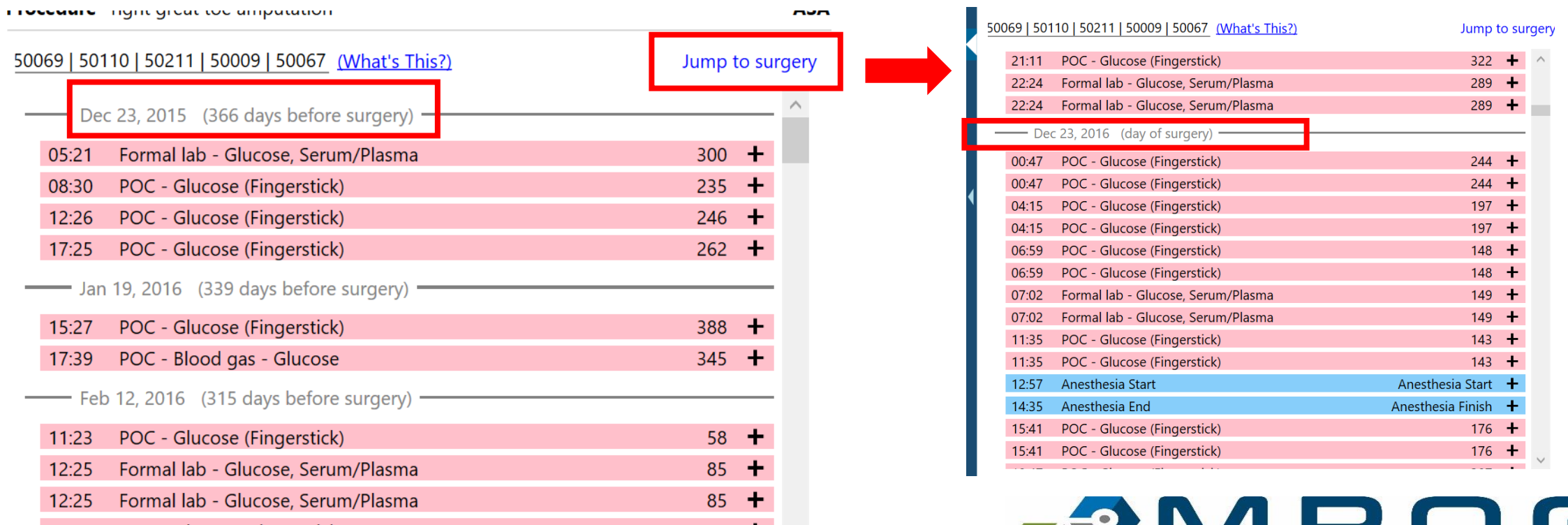
| Dec 01, 2019 (day of surgery) |          |        |   |
|-------------------------------|----------|--------|---|
| 09:18                         | FENTANYL | 50 mcg | × |
| 09:40                         | FENTANYL | 25 mcg | × |
| 10:34                         | FENTANYL | 25 mcg | × |

- Utilize Record Search to look at information relevant to a chart evaluation in one location

|                |              |                                                              |                           |   |
|----------------|--------------|--------------------------------------------------------------|---------------------------|---|
| Chart          | Procedure    | REPAIR UMBILICAL HERNIA 2.5 TO 3.0 STRANGULATED/INCARCERATED | Non class                 | 2 |
| Record Search  | anesthesia   |                                                              |                           |   |
| Administrative | Jan 01, 0001 | No Valid Date Specified                                      |                           |   |
| H&P            | 00:00        | Assessment and Plan - Anesthesia Technique                   | General                   | + |
| Outcomes       | 00:00        | Misc Note                                                    | Placed by Anesthesia Team | + |
| Labs           | 00:00        | Airway Manipulation                                          | ANESTHESIA AIRWAY         | + |
|                | 00:00        | Lines/Tubes/Drains (Misc)                                    | ANESTHESIA PERIPHERAL IV  | + |
|                | Sep 01, 2019 | (day of surgery)                                             |                           |   |
|                | 09:03        | Assessment and Plan - Anesthesia Consent                     | Yes                       | + |
|                | 09:03        | Assessment and Plan - Anesthesia Consent                     | patient                   | + |
|                | 09:29        | Patient Identified                                           | Immdt PreOp Assessment    | + |
|                | 09:30        | Anesthesia Start                                             | Anesthesia Start          | + |
|                | 09:30        | Staff Level - Anesthesia Attending                           | 10082                     | + |
|                | 09:30        | Staff Level - Anesthesia CRNA                                | 2233144                   | + |
|                | 09:37        | Induction Start                                              | Anesthesia Induction      | + |
|                | 09:41        | Misc Note                                                    | Anesthesia Ready          | + |
|                | 10:43        | Emergence (Misc)                                             | Anesthesia Emergence      | + |
|                | 11:08        | Anesthesia End                                               | Anesthesia Stop           | + |
|                | 15:18        | Administrative Note (Misc)                                   | Post Anesthesia Note Sign | + |
|                | 09:30        | Anesthesia Start                                             | Anesthesia Start          | ✗ |
|                | 09:37        | PROPOFOL                                                     | 200 mg                    | ✗ |
|                | 10:26        | PROPOFOL                                                     | 50 mg                     | ✗ |
|                | 11:08        | Anesthesia End                                               | Anesthesia Stop           | ✗ |

# Record Search

- If a case is showing multiple search results from before the surgery date, choose “Jump to Surgery” to quickly scroll down to the day of the case



Procedure: Right great toe amputation

50069 | 50110 | 50211 | 50009 | 50067 [\(What's This?\)](#) [Jump to surgery](#)

Dec 23, 2015 (366 days before surgery)

|       |                                    |     |   |
|-------|------------------------------------|-----|---|
| 05:21 | Formal lab - Glucose, Serum/Plasma | 300 | + |
| 08:30 | POC - Glucose (Fingerstick)        | 235 | + |
| 12:26 | POC - Glucose (Fingerstick)        | 246 | + |
| 17:25 | POC - Glucose (Fingerstick)        | 262 | + |

Jan 19, 2016 (339 days before surgery)

|       |                             |     |   |
|-------|-----------------------------|-----|---|
| 15:27 | POC - Glucose (Fingerstick) | 388 | + |
| 17:39 | POC - Blood gas - Glucose   | 345 | + |

Feb 12, 2016 (315 days before surgery)

|       |                                    |    |   |
|-------|------------------------------------|----|---|
| 11:23 | POC - Glucose (Fingerstick)        | 58 | + |
| 12:25 | Formal lab - Glucose, Serum/Plasma | 85 | + |
| 12:25 | Formal lab - Glucose, Serum/Plasma | 85 | + |

50069 | 50110 | 50211 | 50009 | 50067 [\(What's This?\)](#) [Jump to surgery](#)

Dec 23, 2016 (day of surgery)

|       |                                    |     |   |
|-------|------------------------------------|-----|---|
| 21:11 | POC - Glucose (Fingerstick)        | 322 | + |
| 22:24 | Formal lab - Glucose, Serum/Plasma | 289 | + |
| 22:24 | Formal lab - Glucose, Serum/Plasma | 289 | + |

00:47 POC - Glucose (Fingerstick) 244 +

00:47 POC - Glucose (Fingerstick) 244 +

04:15 POC - Glucose (Fingerstick) 197 +

04:15 POC - Glucose (Fingerstick) 197 +

06:59 POC - Glucose (Fingerstick) 148 +

06:59 POC - Glucose (Fingerstick) 148 +

07:02 Formal lab - Glucose, Serum/Plasma 149 +

07:02 Formal lab - Glucose, Serum/Plasma 149 +

11:35 POC - Glucose (Fingerstick) 143 +

11:35 POC - Glucose (Fingerstick) 143 +

12:57 Anesthesia Start Anesthesia Start +

14:35 Anesthesia End Anesthesia Finish +

15:41 POC - Glucose (Fingerstick) 176 +

15:41 POC - Glucose (Fingerstick) 176 +

# Record Search

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

Dec 01, 2019 (day of surgery)

|       |          |        |   |
|-------|----------|--------|---|
| 09:18 | FENTANYL | 50 mcg | ✕ |
| 09:40 | FENTANYL | 25 mcg | ✕ |
| 10:34 | FENTANYL | 25 mcg | ✕ |

|   | 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 |                 |          |        |   |
| 6 |                 |          |        |   |

# Administrative

Chart

Record Search

Administrative

H & P

Outcomes

Labs

MIDLINE CORONARY ARTERY BYPASS GRAFT

Demographics

MPOG Patient ID

Diagnosis

AIMS Patient ID

AIMS Case ID

AIMS Encounter ID

AIMS Admission Type

AIMS Surgical Service

MPOG Surgical Service

Scheduled Time

Date of Birth

Professional Fee Billing

Procedure Codes (CPT) Required

| Code  | Description           | Type                         | Case-Linked? | Start Time       | End Time         |
|-------|-----------------------|------------------------------|--------------|------------------|------------------|
| 99204 | Unknown Code          | Unspecified Professional Fee |              | 08-08-2017 00:00 | 08-08-2017 15:48 |
| 99204 | Unknown Code          | Unspecified Professional Fee |              | 08-08-2017 00:00 | 08-08-2017 15:48 |
| 99204 | Unknown Code          | Unspecified Professional Fee |              | 08-08-2017 00:00 | 08-08-2017 15:48 |
| 99152 | Unknown Code          | Unspecified Professional Fee |              | 08-21-2017 00:00 | 08-21-2017 15:27 |
| 93460 | Catheter placement ir | Unspecified Professional Fee |              | 08-21-2017 00:00 | 08-21-2017 15:27 |
| 93010 | Unknown Code          | Unspecified Professional Fee |              | 08-21-2017 00:00 | 08-21-2017 15:27 |
| 99152 | Unknown Code          | Unspecified Professional Fee |              |                  |                  |
| 93460 | Catheter placement ir | Unspecified Professional Fee |              |                  |                  |
| 93010 | Unknown Code          | Unspecified Professional Fee |              |                  |                  |
| 93010 | Unknown Code          | Unspecified Professional Fee |              |                  |                  |
| 93460 | Catheter placement ir | Unspecified Professional Fee |              |                  |                  |
| 99152 | Unknown Code          | Unspecified Professional Fee |              |                  |                  |
| 99152 | Unknown Code          | Unspecified Professional Fee |              |                  |                  |

Diagnosis Codes (ICD-9/10)

| Code  | Description            | Type                         | Case-Linked? |
|-------|------------------------|------------------------------|--------------|
| I10   | Essential (primary) hy | Unspecified Professional Fee |              |
| I34.0 | Nonrheumatic mitral    | Unspecified Professional Fee |              |
| I34.1 | Nonrheumatic mitral    | Unspecified Professional Fee |              |
| I10   | Essential (primary) hy | Unspecified Professional Fee |              |
| I34.0 | Nonrheumatic mitral    | Unspecified Professional Fee |              |
| I34.1 | Nonrheumatic mitral    | Unspecified Professional Fee |              |

Location Hierarchy

Locations

Level 1

Level 2

Tag

Level 3

Level 4

Tag: Facility type - Acute care hospital

Tag: Other - Mixed use operating room

Combined Tags

Facility type - Acute care hospital

Other - Mixed use operating room

Hospital Discharge Billing

Diagnosis Codes (ICD-9/10) Required

| Code    | Description            | Type               | Start Time       |
|---------|------------------------|--------------------|------------------|
| I34.1   | Nonrheumatic mitral    | Hospital Discharge | 08-08-2017 14:10 |
| I34.0   | Nonrheumatic mitral    | Hospital Discharge | 08-08-2017 14:10 |
| I10     | Essential (primary) hy | Hospital Discharge | 08-08-2017 14:10 |
| I34.1   | Nonrheumatic mitral    | Hospital Discharge | 08-08-2017 14:34 |
| I34.0   | Nonrheumatic mitral    | Hospital Discharge | 08-08-2017 14:34 |
| I10     | Essential (primary) hy | Hospital Discharge | 08-08-2017 14:34 |
| Z01.812 | Encounter for preproc  | Hospital Discharge | 08-21-2017 08:44 |
| Z01.812 | Encounter for preproc  | Hospital Discharge | 08-21-2017 08:44 |
| Z01.810 | Encounter for preproc  | Hospital Discharge | 08-21-2017 08:44 |
| Z01.810 | Encounter for preproc  | Hospital Discharge | 08-21-2017 08:44 |
| I34.0   | Nonrheumatic mitral    | Hospital Discharge | 08-21-2017 08:44 |
| I34.0   | Nonrheumatic mitral    | Hospital Discharge | 08-21-2017 08:44 |
| I34.0   | Nonrheumatic mitral    | Hospital Discharge | 08-21-2017 08:44 |
| I34.0   | Nonrheumatic mitral    | Hospital Discharge | 08-29-2017 10:35 |

Procedure Codes (CPT/ICD9/ICD10)

| Code  | Description  | Type               | Start Time       | End Time         |
|-------|--------------|--------------------|------------------|------------------|
| G0463 | Unknown Code | Hospital Discharge | 08-08-2017 14:10 | 08-08-2017 14:10 |
| Q9967 | Unknown Code | Hospital Discharge | 08-21-2017 08:44 | 08-21-2017 15:27 |
| J7040 | Unknown Code | Hospital Discharge | 08-21-2017 08:44 | 08-21-2017 15:27 |
| J3010 | Unknown Code | Hospital Discharge | 08-21-2017 08:44 | 08-21-2017 15:27 |
| J3010 | Unknown Code | Hospital Discharge | 08-21-2017 08:44 | 08-21-2017 15:27 |

The Administrative view has information regarding Demographics, Professional Fee Billing, Location Hierarchy, and Hospital Discharge Billing. PHI has been removed for the purposes of this guide.

Table View



## Professional Fee Billing

| Procedure Codes (CPT)<br>Required | Code  | Description            | Type                             | Case-Linked? | Start Time       | End Time         |
|-----------------------------------|-------|------------------------|----------------------------------|--------------|------------------|------------------|
|                                   | 01230 | Anesthesia for open    | Anesthesia Professional Fee Data | Yes          | 08-17-2021 00:00 | 08-21-2021 00:00 |
|                                   | 20650 | Insertion of wire or p | Unspecified Professional Fee     | Yes          | 08-17-2021 00:00 | 08-21-2021 00:00 |
|                                   | 27250 | Closed treatment of    | Unspecified Professional Fee     | Yes          | 08-17-2021 00:00 | 08-21-2021 00:00 |
|                                   | 73552 | Radiologic examinatio  | Unspecified Professional Fee     | Yes          | 08-17-2021 00:00 | 08-21-2021 00:00 |
|                                   | 76604 | Ultrasound, chest (inc | Unspecified Professional Fee     | Yes          | 08-17-2021 00:00 | 08-21-2021 00:00 |
|                                   | 76705 | Ultrasound, abdomin    | Unspecified Professional Fee     | Yes          | 08-17-2021 00:00 | 08-21-2021 00:00 |
|                                   | 93010 | Unknown Code           | Unspecified Professional Fee     | Yes          | 08-17-2021 00:00 | 08-21-2021 00:00 |
|                                   | 93308 | Echocardiography, tra  | Unspecified Professional Fee     | Yes          | 08-17-2021 00:00 | 08-21-2021 00:00 |
|                                   | 99152 | Unknown Code           | Unspecified Professional Fee     | Yes          | 08-17-2021 00:00 | 08-21-2021 00:00 |
|                                   | 99153 | Unknown Code           | Unspecified Professional Fee     | Yes          | 08-17-2021 00:00 | 08-21-2021 00:00 |
|                                   | 99221 | Unknown Code           | Unspecified Professional Fee     | Yes          | 08-17-2021 00:00 | 08-21-2021 00:00 |
|                                   | 99285 | Unknown Code           | Unspecified Professional Fee     | Yes          | 08-17-2021 00:00 | 08-21-2021 00:00 |
|                                   | 27254 | Open treatment of hi   | Unspecified Professional Fee     | Yes          | 08-18-2021 00:00 | 08-21-2021 00:00 |

| Diagnosis Codes<br>(ICD-9/10) | Code     | Description            | Type                             | Case-Linked? | Start Time       | End Time         | Present on Admit? |
|-------------------------------|----------|------------------------|----------------------------------|--------------|------------------|------------------|-------------------|
|                               | S32.421A | Displaced fracture of  | Anesthesia Professional Fee Data | Yes          | 08-17-2021 00:00 | 08-21-2021 00:00 | Yes               |
|                               | S72.051A | Unspecified fracture o | Anesthesia Professional Fee Data | Yes          | 08-17-2021 00:00 | 08-21-2021 00:00 | Yes               |
|                               | S72.301A | Unspecified fracture o | Anesthesia Professional Fee Data | Yes          | 08-17-2021 00:00 | 08-21-2021 00:00 | Yes               |
|                               | S73.014A | Posterior dislocation  | Anesthesia Professional Fee Data | Yes          | 08-17-2021 00:00 | 08-21-2021 00:00 | Yes               |
|                               | V89.2XXA | Person injured in uns  | Anesthesia Professional Fee Data | Yes          | 08-17-2021 00:00 | 08-21-2021 00:00 | Yes               |
|                               | D72.829  | Elevated white blood   | Unspecified Professional Fee     | Yes          | 08-17-2021 00:00 | 08-21-2021 00:00 | Yes               |

The billing section shows all billing codes that have been associated with the patient, including all encounters other than the procedure.

The Professional Fee Billing and the Hospital Discharge Billing sections include a description of what the codes are.

The Case-Linked column flags the billing codes that are linked to the case that you are viewing.

The Diagnosis Codes Sections also have a column that flags diagnoses that were present on admission.

# History and Physical

The H&P View shows perioperative assessment data. Similar to Chart view, any blue text can be clicked to show more information in the right yellow pane

**History**

| Section           | Category                   | Content                                                                                                                                                                                                                                                                                                                                                                                        | Right Pane                                                                                                                                                                                                                                                                                                       |
|-------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| History           | Family History             | General - Family History of Anesthetic Problems (None)                                                                                                                                                                                                                                                                                                                                         | Anesth   Family Hx of Anesth Problem                                                                                                                                                                                                                                                                             |
|                   | History Of Present Illness | General - Surgical Diagnosis CAD                                                                                                                                                                                                                                                                                                                                                               | OR   Surgical Diagnosis                                                                                                                                                                                                                                                                                          |
|                   | Past Medical History       | General - Past Medical History Free Text Comments<br>Allergy<br>Asthma<br>Cancer (CMS/HCC)<br>GERD (gastroesophageal reflux disease)<br>Hodgkin lymphoma (CMS/HCC)<br>Hyperlipidemia<br>Melanoma (CMS/HCC)<br>Seasonal allergies<br>Varicella                                                                                                                                                  | Anes   MiChart Past Medical<br>Anes   MiChart Past Medical<br>Anes   MiChart Past Medical<br>Anes   MiChart Past Medical<br>Anes   MiChart Past Medical<br>Anes   MiChart Past Medical<br>Anes   MiChart Past Medical<br>Anes   MiChart Past Medical                                                             |
|                   | Past Surgical History      | General - Past Surgical History<br>Cardiac Cath<br>Skin Cancer Excision<br>Splenectomy<br>Tonsillectomy and Adenoidectomy<br>CAD                                                                                                                                                                                                                                                               | Hx   Past Surgical History<br>Hx   Past Surgical History<br>Hx   Past Surgical History<br>Hx   Past Surgical History<br>OR   Surgical Diagnosis                                                                                                                                                                  |
|                   | Social History             | General - Surgical Diagnosis<br>History - Social History - General<br>ALCOHOL: Amount: Low (Occasional)<br>TOBACCO: Tobacco Use: None                                                                                                                                                                                                                                                          | Social   Social History<br>Social   Social History                                                                                                                                                                                                                                                               |
| Medications       | Current                    | General - Medications - Current<br>ALBUTEROL SULFATE INHL<br>ASCORBIC ACID ORAL<br>ASPIRIN ORAL<br>CALCIUM ORAL<br>fluticasone (FLONASE)<br>fluticasone-salmeterol (ADVAIR DISKUS)<br>levothyroxine (SYNTHROID)<br>metoprolol succinate (TOPROL XL)<br>MULTIVITAMIN ORAL<br>nitroglycerin (NITROSTAT)<br>omeprazole (PRILOSEC)<br>rosuvastatin (CRESTOR)<br>VITAMIN E ACETATE (VITAMIN E ORAL) | Meds   Medications<br>Meds   Medications<br>Meds   Medications<br>Meds   Medications<br>Meds   Medications<br>Meds   Medications<br>Meds   Medications<br>Meds   Medications<br>Meds   Medications<br>Meds   Medications<br>Meds   Medications<br>Meds   Medications<br>Meds   Medications<br>Meds   Medications |
|                   | Home                       | No Data Found                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                  |
|                   | Preop                      | General - Medications - Anticoagulation<br>General - Medications - Beta Blocker<br>General - Medications - Chronic Steroid Use<br>General - Medications - Infusions<br>Name: Brilinta (ticagrelor)? Indication: DES to LAD (placed 4/2017)<br>Yes - Date AND Time of last beta blocker dose (IV or PO)?11/24/2017 05:27<br>(None)<br>None                                                      | Anes   Anticoagulation geninput<br>Anes   Beta Blocker Continued<br>APS   Chronic Steroid Use Hx<br>Proced   JMC Vasoactive Infusions                                                                                                                                                                            |
| Review of Systems |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                  |

MPOG  
concept

Value

AIMS  
description

# Outcomes

The Outcomes view shows documented outcomes and mortality if available. The blue text in this view also remains clickable to reveal more information in the yellow right pane.

- Most cases will show 'No Data Found' for Registry Data. You will only see data here if your site submits this data to MPOG and it is one of the sampled cases from that registry.
- More information can be found on our website at <https://mpog.org/surgicalregistries/>

**Documented Outcomes**

| Outcomes                                       | Unmapped Outcome Concept                                                                                                                                                 | Patient unavailable at time of visit                                                                                                                                     | MC IPO Anesthesia Events                                                                                                                                                 |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Postoperative visit patient satisfaction score | 0 = Unable to Assess                                                                                                                                                     | 0 = Unable to Assess                                                                                                                                                     | Anes [Postop Satisfaction New                                                                                                                                            |
| Postoperative Anesthesia Evaluation Complete   | Postop Anesthesia Evaluation: Assessment of cardiovascular, respiratory, mental functions, temperature, pain, PONV, and hydration is complete. [PHI],[PHI] ([PHI],[PHI]) | Postop Anesthesia Evaluation: Assessment of cardiovascular, respiratory, mental functions, temperature, pain, PONV, and hydration is complete. [PHI],[PHI] ([PHI],[PHI]) | Postop Anesthesia Evaluation: Assessment of cardiovascular, respiratory, mental functions, temperature, pain, PONV, and hydration is complete. [PHI],[PHI] ([PHI],[PHI]) |

**Mortality**

| Date of Death | No Data Found |
|---------------|---------------|
|---------------|---------------|

**Registries**

| Registry Name        | No Data Found |
|----------------------|---------------|
| NSQIP                | No Data Found |
| STS General Thoracic | No Data Found |
| STS Adult Cardiac    | No Data Found |
| STS Congenital Heart | No Data Found |
| MSQC                 | No Data Found |

# Labs

|                                                                     |                                                                    |                                           |                     |                     |                     |                     |       |                     |                     |                     |                     |                     |  |
|---------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------|---------------------|---------------------|---------------------|-------|---------------------|---------------------|---------------------|---------------------|---------------------|--|
| Chart<br>Record Search<br>Administrative<br>H&P<br>Outcomes<br>Labs | Procedure REPAIR UMBILICAL HERNIA > 5 YO STRANGULATED/INCARCERATED |                                           | ASA Class 3         |                     |                     |                     |       |                     |                     |                     |                     |                     |  |
|                                                                     |                                                                    |                                           | 06-03-2019<br>15:43 | 08-19-2019<br>17:19 | 08-28-2019<br>01:43 | 08-29-2019<br>10:10 | 12:27 | 08-30-2019<br>05:43 | 08-31-2019<br>05:42 | 09-01-2019<br>07:03 | 09-01-2019<br>09:07 | 09-02-2019<br>05:01 |  |
|                                                                     | Blood Bank                                                         | ABO/Rhesus (Rh) Factor<br>Antibody Screen |                     |                     |                     |                     |       |                     |                     |                     |                     |                     |  |
|                                                                     | Blood Gas                                                          | None documented                           |                     |                     |                     |                     |       |                     |                     |                     |                     |                     |  |
|                                                                     | Cardiac                                                            | Cholesterol                               | 219                 |                     |                     |                     |       |                     |                     |                     |                     |                     |  |
|                                                                     |                                                                    | HDL                                       | 53                  |                     |                     |                     |       |                     |                     |                     |                     |                     |  |
|                                                                     |                                                                    | LDL                                       | 145                 |                     |                     |                     |       |                     |                     |                     |                     |                     |  |
|                                                                     |                                                                    | Triglycerides                             | 107                 |                     |                     |                     |       |                     |                     |                     |                     |                     |  |
|                                                                     | Chemistry                                                          | Alanine Aminotransferase (ALT)            | 41                  | 51                  |                     |                     |       |                     |                     |                     |                     |                     |  |
|                                                                     |                                                                    | Albumin                                   | 4.3                 | 3.6                 |                     |                     |       |                     |                     |                     |                     |                     |  |
|                                                                     |                                                                    | Alkaline Phosphatase                      | 101                 | 83                  |                     |                     |       |                     |                     |                     |                     |                     |  |
|                                                                     |                                                                    | Aspartate Aminotransferase (AST)          | 23                  | 28                  |                     |                     |       |                     |                     |                     |                     |                     |  |
|                                                                     |                                                                    | Bilirubin, Total                          | 0.6                 | 1                   |                     |                     |       |                     |                     |                     |                     |                     |  |
|                                                                     |                                                                    | Calcium                                   | 9.7                 | 10.1                | 9                   | 9.7                 | 8.7   |                     | 9.1                 | 9.5                 |                     |                     |  |
|                                                                     |                                                                    | Chloride                                  | 108                 | 107                 | 106                 | 104                 | 109   |                     | 108                 | 107                 |                     |                     |  |
|                                                                     |                                                                    | Creatinine                                | 1.1                 | 1.1                 | 1.1                 | 1.1                 | 1     |                     | 1                   | 1.3                 |                     |                     |  |
|                                                                     |                                                                    | Glucose                                   | 91                  | 71                  | 105                 | 117                 | 98    |                     | 100                 | 93                  |                     |                     |  |
|                                                                     |                                                                    | Lactate                                   | 208                 |                     |                     |                     |       | 1.3                 | 1.2                 |                     |                     |                     |  |
|                                                                     |                                                                    | LDH                                       | 208                 |                     |                     |                     |       |                     |                     |                     |                     |                     |  |
|                                                                     |                                                                    | Magnesium                                 |                     |                     |                     |                     |       |                     |                     |                     |                     |                     |  |
| Potassium                                                           |                                                                    | 4.2                                       | 3.7                 | 4.2                 | 4.2                 | 3.9                 |       | 4.3                 | 4                   |                     |                     |                     |  |
| Protein                                                             |                                                                    | 7.2                                       | 6.5                 |                     |                     |                     |       |                     |                     |                     |                     |                     |  |
| Sodium                                                              |                                                                    | 144                                       | 142                 | 139                 | 140                 | 141                 |       | 141                 | 141                 |                     |                     |                     |  |
| Urea Nitrogen                                                       |                                                                    | 13                                        | 13                  | 13                  | 10                  | 9                   |       | 7                   | 9                   |                     |                     |                     |  |
| Coagulation                                                         |                                                                    | International Normalized Ratio (INR)      | 1                   |                     | 1.1                 |                     | 1.1   |                     |                     |                     |                     |                     |  |
|                                                                     |                                                                    | Partial Thromboplastin Time (PTT)         | 28.3                |                     | 27.3                |                     |       |                     |                     |                     |                     |                     |  |
|                                                                     | Prothrombin Time (PT)                                              | 13.1                                      |                     | 13.2                |                     | 13.2                |       |                     |                     |                     |                     |                     |  |
| Complete Blood Count                                                | Hemoglobin (HGB)                                                   | 14.3                                      | 14.2                | 12.2                | 14.2                | 12.6                |       | 12.5                | 12.7                |                     |                     |                     |  |
|                                                                     | Hematocrit (HCT)                                                   | 45.3                                      | 44.9                | 37.6                | 43.2                | 39.3                |       | 38.3                | 38.6                |                     |                     |                     |  |
|                                                                     | Platelets (PLT)                                                    | 268                                       | 272                 | 270                 | 328                 | 289                 |       | 302                 | 323                 |                     |                     |                     |  |
|                                                                     | WBC Count                                                          | 5.9                                       | 5.8                 | 11.8                | 13.8                | 11.1                |       | 11.3                | 11.3                |                     |                     |                     |  |
| Drug Monitoring                                                     | None documented                                                    |                                           |                     |                     |                     |                     |       |                     |                     |                     |                     |                     |  |
| Endocrine                                                           | Hemoglobin A1c                                                     | 4.7                                       |                     |                     |                     |                     |       |                     |                     |                     |                     |                     |  |
| Other                                                               | None documented                                                    |                                           |                     |                     |                     |                     |       |                     |                     |                     |                     |                     |  |
| Urine                                                               | None documented                                                    |                                           |                     |                     |                     |                     |       |                     |                     |                     |                     |                     |  |

- Shows labs in clinical groupings and chronological order
- Info is also available in chart view
- Blue shading across the top shows the day of surgery

- Shows labs in clinical groupings and chronological order
- Info is also available in chart view
- Blue shading across the top shows the day of surgery

|                      |                                      |      |      |      |      |      |     |     |     |     |     |            |                  |      |                                    |           |  |
|----------------------|--------------------------------------|------|------|------|------|------|-----|-----|-----|-----|-----|------------|------------------|------|------------------------------------|-----------|--|
| Blood Bank           | ABO/Rhesus (Rh) Factor               |      |      |      |      |      |     |     |     |     |     | B Positive |                  | Time | Value                              | Mapped As |  |
|                      | Antibody Screen                      |      |      |      |      |      |     |     |     |     |     | Negative   |                  |      |                                    |           |  |
| Blood Gas            | None documented                      |      |      |      |      |      |     |     |     |     |     |            |                  |      |                                    |           |  |
| Cardiac              | Cholesterol                          | 219  |      |      |      |      |     |     |     |     |     |            | 06-03-2019 15:43 | 91   | Formal lab - Glucose, Serum/Plasma |           |  |
|                      | HDL                                  | 53   |      |      |      |      |     |     |     |     |     |            | 08-19-2019 17:19 | 71   | Formal lab - Glucose, Serum/Plasma |           |  |
|                      | LDL                                  | 145  |      |      |      |      |     |     |     |     |     |            | 08-28-2019 01:43 | 105  | Formal lab - Glucose, Serum/Plasma |           |  |
|                      | Triglycerides                        | 107  |      |      |      |      |     |     |     |     |     |            | 08-29-2019 10:10 | 117  | Formal lab - Glucose, Serum/Plasma |           |  |
|                      |                                      |      |      |      |      |      |     |     |     |     |     |            | 08-30-2019 05:43 | 98   | Formal lab - Glucose, Serum/Plasma |           |  |
| Chemistry            | Alanine Aminotransferase (ALT)       | 41   |      |      |      |      |     |     |     |     | 64  |            | 08-31-2019 05:42 | 100  | Formal lab - Glucose, Serum/Plasma |           |  |
|                      | Albumin                              | 4.3  |      |      |      |      |     |     |     |     | 3.6 |            | 09-01-2019 07:03 | 93   | Formal lab - Glucose, Serum/Plasma |           |  |
|                      | Alkaline Phosphatase                 | 101  |      |      |      |      |     |     |     |     | 83  |            | 09-02-2019 05:01 | 93   | Formal lab - Glucose, Serum/Plasma |           |  |
|                      | Aspartate Aminotransferase (AST)     | 23   |      |      |      |      |     |     |     |     | 28  |            |                  |      |                                    |           |  |
|                      | Bilirubin, Total                     | 0.6  |      |      |      |      |     |     |     |     | 1   |            |                  |      |                                    |           |  |
|                      | Calcium                              | 9.7  | 10.1 | 9.9  | 9.7  |      | 8.7 | 9.1 | 9.5 | 8.5 |     |            |                  |      |                                    |           |  |
|                      | Chloride                             | 108  | 107  | 106  | 104  |      | 109 | 108 | 107 | 107 |     |            |                  |      |                                    |           |  |
|                      | Creatinine                           | 1.1  | 1.1  | 1.1  | 1.1  |      | 1   | 1   | 1.3 | 1   |     |            |                  |      |                                    |           |  |
|                      | Glucose                              | 91   | 71   | 105  | 117  |      | 98  | 100 | 93  | 93  |     |            |                  |      |                                    |           |  |
|                      | Lactate                              | 208  |      |      |      |      | 1.3 | 1.2 |     |     |     |            |                  |      |                                    |           |  |
|                      | LDH                                  | 208  |      |      |      |      |     |     |     |     |     |            |                  |      |                                    |           |  |
|                      | Magnesium                            |      |      |      |      |      |     |     |     | 2.2 |     |            |                  |      |                                    |           |  |
|                      | Potassium                            | 4.2  | 3.7  | 4.2  | 4.2  |      | 3.9 |     |     |     |     |            |                  |      |                                    |           |  |
|                      | Protein                              | 7.2  |      |      |      |      |     |     |     |     |     |            |                  |      |                                    |           |  |
|                      | Sodium                               | 144  | 142  | 139  | 140  |      | 141 |     |     |     |     |            |                  |      |                                    |           |  |
| Urea Nitrogen        | 13                                   | 13   | 13   | 10   |      | 9    |     |     |     |     |     |            |                  |      |                                    |           |  |
| Coagulation          | International Normalized Ratio (INR) | 1    |      | 1.1  |      |      |     |     |     |     |     |            |                  |      |                                    |           |  |
|                      | Partial Thromboplastin Time (PTT)    | 28.3 |      | 27.3 |      |      |     |     |     |     |     |            |                  |      |                                    |           |  |
|                      | Prothrombin Time (PT)                | 13.1 |      | 13.2 |      |      |     |     |     |     |     |            |                  |      |                                    |           |  |
| Complete Blood Count | Hemoglobin (HGB)                     | 14.3 | 14.2 | 12.2 | 14.2 | 12.6 |     |     |     |     |     |            |                  |      |                                    |           |  |
|                      | Hematocrit (HCT)                     | 45.3 | 44.9 | 37.6 | 43.2 | 39.3 |     |     |     |     |     |            |                  |      |                                    |           |  |
|                      | Platelets (PLT)                      | 268  | 272  | 270  | 328  | 289  |     |     |     |     |     |            |                  |      |                                    |           |  |
|                      | WBC Count                            | 5.9  | 5.8  | 11.8 | 13.8 | 11.1 |     |     |     |     |     |            |                  |      |                                    |           |  |
| Drug Monitoring      | None documented                      |      |      |      |      |      |     |     |     |     |     |            |                  |      |                                    |           |  |
| Endocrine            | Hemoglobin A1c                       | 4.7  |      |      |      |      |     |     |     |     |     |            |                  |      |                                    |           |  |
| Other                | None documented                      |      |      |      |      |      |     |     |     |     |     |            |                  |      |                                    |           |  |
| Urine                | None documented                      |      |      |      |      |      |     |     |     |     |     |            |                  |      |                                    |           |  |

Clicking on the lab name on the right will show all labs in that category in the right hand yellow pane. Clicking a lab value itself will give more information about that lab value.

- Clicking a value brings up more information

| Procedure            |                                           | REPAIR UMBILICAL HERNIA > 5 TO STRANGULATED/INCARCERATED |                     |                     |                     |       |                     |                     |                     |       |                     | ASA Class              |  | 3 |  |
|----------------------|-------------------------------------------|----------------------------------------------------------|---------------------|---------------------|---------------------|-------|---------------------|---------------------|---------------------|-------|---------------------|------------------------|--|---|--|
|                      |                                           | 06-03-2019<br>15:43                                      | 08-19-2019<br>17:19 | 08-28-2019<br>01:43 | 08-29-2019<br>10:10 | 12:27 | 08-30-2019<br>05:43 | 08-31-2019<br>05:42 | 09-01-2019<br>07:03 | 09:07 | 09-02-2019<br>05:01 |                        |  |   |  |
| Blood Bank           | ABO/Rhesus (Rh) Factor<br>Antibody Screen |                                                          |                     |                     |                     |       |                     |                     |                     |       |                     | B Positive<br>Negative |  |   |  |
| Blood Gas            | None documented                           |                                                          |                     |                     |                     |       |                     |                     |                     |       |                     |                        |  |   |  |
| Cardiac              | Cholesterol                               | 219                                                      |                     |                     |                     |       |                     |                     |                     |       |                     |                        |  |   |  |
|                      | HDL                                       | 53                                                       |                     |                     |                     |       |                     |                     |                     |       |                     |                        |  |   |  |
|                      | LDL                                       | 145                                                      |                     |                     |                     |       |                     |                     |                     |       |                     |                        |  |   |  |
|                      | Triglycerides                             | 107                                                      |                     |                     |                     |       |                     |                     |                     |       |                     |                        |  |   |  |
| Chemistry            | Alanine Aminotransferase (ALT)            | 41                                                       |                     |                     |                     |       |                     |                     | 51                  |       |                     |                        |  |   |  |
|                      | Albumin                                   | 4.3                                                      |                     |                     |                     |       |                     |                     | 3.6                 |       |                     |                        |  |   |  |
|                      | Alkaline Phosphatase                      | 101                                                      |                     |                     |                     |       |                     |                     | 83                  |       |                     |                        |  |   |  |
|                      | Aspartate Aminotransferase (AST)          | 23                                                       |                     |                     |                     |       |                     |                     | 28                  |       |                     |                        |  |   |  |
|                      | Bilirubin, Total                          | 0.6                                                      |                     |                     |                     |       |                     |                     | 1                   |       |                     |                        |  |   |  |
|                      | Calcium                                   | 9.7                                                      | 10.1                | 9                   | 9.7                 |       |                     | 8.7                 | 9.1                 | 9.5   | 8.5                 |                        |  |   |  |
|                      | Chloride                                  | 108                                                      | 107                 | 108                 | 104                 |       |                     | 109                 | 108                 | 107   | 107                 |                        |  |   |  |
|                      | Creatinine                                | 1.1                                                      | 1.1                 | 1.1                 | 1.1                 |       |                     | 1                   | 1                   | 1.3   | 1                   |                        |  |   |  |
|                      | Glucose                                   | 91                                                       | 71                  | 105                 | 117                 |       |                     | 98                  | 100                 | 93    | 93                  |                        |  |   |  |
|                      | Lactate                                   | 2.8                                                      |                     |                     |                     |       |                     |                     |                     |       | 1.2                 |                        |  |   |  |
|                      | LDH                                       | 208                                                      |                     |                     |                     |       |                     |                     |                     |       |                     |                        |  |   |  |
|                      | Magnesium                                 |                                                          |                     |                     |                     |       | 2.2                 | 2                   | 2.1                 | 2.1   |                     |                        |  |   |  |
|                      | Potassium                                 | 4.2                                                      | 3.7                 | 4.2                 | 4.2                 |       |                     | 3.9                 | 4.3                 | 4     | 3.9                 |                        |  |   |  |
|                      | Protein                                   | 7.2                                                      |                     |                     |                     |       |                     |                     | 6.5                 |       |                     |                        |  |   |  |
|                      | Sodium                                    | 144                                                      | 142                 | 139                 | 140                 |       |                     | 141                 | 141                 | 141   | 139                 |                        |  |   |  |
| Urea Nitrogen        | 13                                        | 13                                                       | 13                  | 10                  |                     |       | 9                   | 7                   | 9                   | 10    |                     |                        |  |   |  |
| Coagulation          | International Normalized Ratio (INR)      |                                                          |                     | 1                   | 1.1                 |       |                     |                     |                     | 1.1   | 1                   |                        |  |   |  |
|                      | Partial Thromboplastin Time (PTT)         |                                                          |                     | 28.3                | 27.3                |       |                     |                     |                     | 27.5  |                     |                        |  |   |  |
|                      | Prothrombin Time (PT)                     |                                                          |                     | 13.1                | 13.2                |       |                     |                     |                     | 13.2  | 12.9                |                        |  |   |  |
| Complete Blood Count | Hemoglobin (HGB)                          | 14.3                                                     | 14.2                | 12.2                | 14.2                |       |                     | 12.6                | 12.5                | 12.7  | 11.6                |                        |  |   |  |
|                      | Hematocrit (HCT)                          | 45.3                                                     | 44.9                | 37.6                | 43.2                |       |                     | 39.3                | 38.3                | 38.6  | 36                  |                        |  |   |  |
|                      | Platelets (PLT)                           | 268                                                      | 272                 | 270                 | 328                 |       |                     | 289                 | 302                 | 323   | 319                 |                        |  |   |  |
|                      | WBC Count                                 | 5.9                                                      | 5.8                 | 11.8                | 13.8                |       |                     | 11.1                | 11.3                | 11.3  | 9.9                 |                        |  |   |  |
| Drug Monitoring      | None documented                           |                                                          |                     |                     |                     |       |                     |                     |                     |       |                     |                        |  |   |  |
| Endocrine            | Hemoglobin A1c                            | 4.7                                                      |                     |                     |                     |       |                     |                     |                     |       |                     |                        |  |   |  |
| Other                | None documented                           |                                                          |                     |                     |                     |       |                     |                     |                     |       |                     |                        |  |   |  |

Lab Value

Concept

Formal lab - Glucose, Serum/Plasma

Value

91

Time

06-03-2019 15:43

User Comment

Fasting reference:  
Pre-Diabetes 100-125  
Diabetes >125  
Non-Fasting:  
Normal <140  
Diabetes >=200

Lab Value

Concept

Formal lab - Glucose, Serum/Plasma

Value

91

Time

06-03-2019 15:43

User Comment

Fasting reference:  
 Pre-Diabetes 100-125  
 Diabetes >125  
 Non-Fasting:  
 Normal <140  
 Diabetes >=200



AIMS\_IntraopMedications

Find value

| MPOGDose_ID                          | MPOGCase_ID                          | MPOGMed_Concept_ID | MPOGDose_Type_CD | MPOGUOM_Concept_ID | MPOGRoute_Concept_ID | AIMSDose_ID                                      | AIMSMed_Concept_ID | AIMSDose_Start_DT     | AIMSDose_End_DT | AIMSMed_Nar     |
|--------------------------------------|--------------------------------------|--------------------|------------------|--------------------|----------------------|--------------------------------------------------|--------------------|-----------------------|-----------------|-----------------|
| adffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10702              | 1                | 1005               | 2008                 | 2330975-27694-2020-09-15 09:13:00-1-465158003    | 27694              | 9/15/2020 9:13:00 AM  |                 | omeprazole 20   |
| aeffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10253              | 1                | 1014               | 2014                 | 2330975-28203-2020-09-15 20:00:00-1-465321507    | 28203              | 9/15/2020 8:00:00 PM  |                 | lidocaine 5 % t |
| afffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10186              | 1                | 1010               | 2001                 | 2330975-3037-2020-09-15 17:18:00-1-465230852     | 3037               | 9/15/2020 5:18:00 PM  |                 | fentaNYL (PF) 5 |
| b0ffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10186              | 1                | 1010               | 2001                 | 2330975-3037-2020-09-15 17:27:00-2-465230852     | 3037               | 9/15/2020 5:27:00 PM  |                 | fentaNYL (PF) 5 |
| b1ffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10186              | 1                | 1010               | 2001                 | 2330975-3037-2020-09-15 17:47:00-3-465230852     | 3037               | 9/15/2020 5:47:00 PM  |                 | fentaNYL (PF) 5 |
| b2ffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10219              | 1                | 1005               | 2001                 | 2330975-3757-2020-09-15 18:17:00-1-465230853     | 3757               | 9/15/2020 6:17:00 PM  |                 | HYDROMorpha     |
| b3ffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10070              | 1                | 1025               | 2007                 | 2330975-40822484-2020-09-15 16:54:00-2-465230834 | 40822484           | 9/15/2020 4:54:00 PM  |                 | bupivacaine (P) |
| b4ffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10306              | 1                | 1005               | 2001                 | 2330975-40823880-2020-09-15 22:16:00-1-465321534 | 40823880           | 9/15/2020 10:16:00 PM |                 | morphine 2 mg   |
| b5ffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10374              | 1                | 1005               | 2001                 | 2330975-40840565-2020-09-15 21:22:00-1-465321530 | 40840565           | 9/15/2020 9:22:00 PM  |                 | PROMETHAZIN     |
| b6ffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10374              | 1                | 1005               | 2001                 | 2330975-40843105-2020-09-15 10:18:00-2-465158026 | 40843105           | 9/15/2020 10:18:00 AM |                 | PROMETHAZIN     |
| b7ffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10301              | 1                | 1005               | 2001                 | 35921702                                         | 3092               | 9/15/2020 12:17:00 PM |                 | Midazolam (IV)  |
| b8ffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10131              | 1                | 1005               | 2001                 | 35921960                                         | 5456               | 9/15/2020 12:31:00 PM |                 | Clindamycin N   |
| b9ffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10216              | 1                | 1005               | 2001                 | 35922076                                         | 21090              | 9/15/2020 12:47:46 PM |                 | Hydrocortisone  |
| baffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10160              | 1                | 1005               | 2001                 | 35922154                                         | 47653              | 9/15/2020 12:52:50 PM |                 | Diphenhydram    |
| bbffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10210              | 1                | 1005               | 2001                 | 35922156                                         | 42297              | 9/15/2020 12:52:56 PM |                 | Haloperidol (H  |
| bcffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10377              |                  |                    |                      |                                                  |                    |                       |                 | Induc           |
| bdffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10393              |                  |                    |                      |                                                  |                    |                       |                 | tum             |
| beffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10186              |                  |                    |                      |                                                  |                    |                       |                 |                 |
| bfffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10186              |                  |                    |                      |                                                  |                    |                       |                 |                 |
| c0ffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10202              |                  |                    |                      |                                                  |                    |                       |                 | cin M           |
| c1ffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10219              |                  |                    |                      |                                                  |                    |                       |                 | orphor          |
| c2ffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10219              |                  |                    |                      |                                                  |                    |                       |                 | orphor          |
| c3ffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10239              |                  |                    |                      |                                                  |                    |                       |                 | c               |
| c4ffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10070              |                  |                    |                      |                                                  |                    |                       |                 | ine 0.2         |
| c5ffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10206              |                  |                    |                      |                                                  |                    |                       |                 | trolate         |
| c6ffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10315              |                  |                    |                      |                                                  |                    |                       |                 | mine            |
| c7ffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10335              |                  |                    |                      |                                                  |                    |                       |                 | atron (I        |
| c8ffd0cb-b60c-eb11-910d-005056b4993c | 07b7f25e-17fb-ea11-910c-005056b4993c | 10219              |                  |                    |                      |                                                  |                    |                       |                 | orphor          |

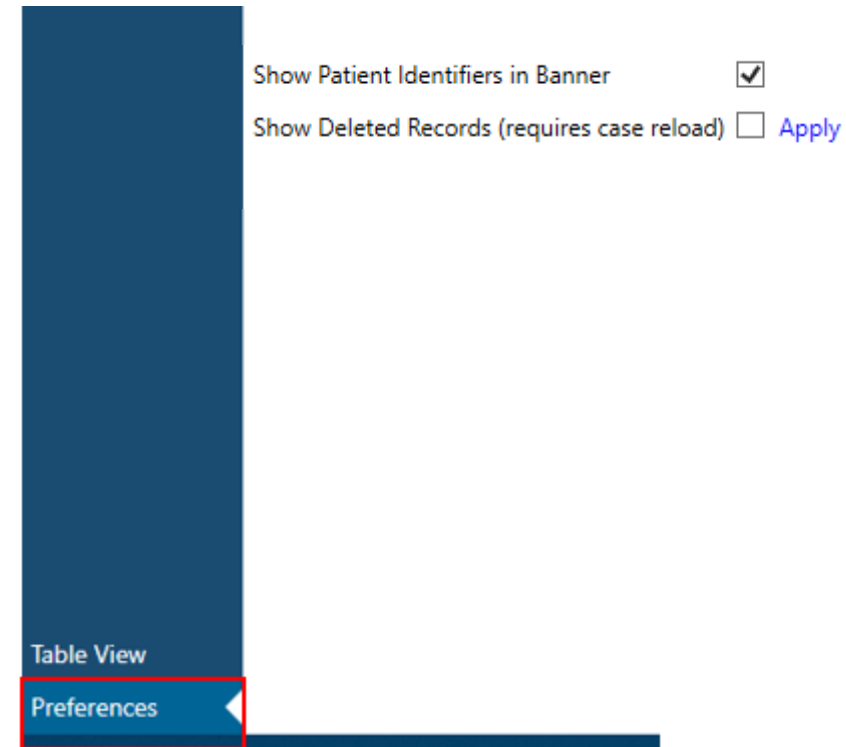
## Table View

Table view displays all data submitted to MPOG central that was documented for a particular case regardless of if it was mapped to an MPOG concept or not. The dropdown menu allows to view data in specific storage tables.

The search bar below the drop down allows for text search of the information in table view

# Preferences

- The preferences option on the bottom of the left pane lets users turn on/off PHI viewing and deleted record information
- Values marked as 'Artifact' are not shown when the option to not show Deleted data is selected





# ACQR “Cheat Sheet”

- Example search strings for failed case review. Copy and paste into “Record Search”

- Glucose Measures:

glucose | insulin | anesthesia start | anesthesia End | dextrose | diabetes | 50012 | 50304  
| 6008 | 50301 | 50443 | 50016 | 50002 | 50011 | 50069 | 50110 | 50211 | 50009

- Transfusion Measures:

anesthesia start | anesthesia end | HCT | hematocrit | hemoglobin | HGB | Red blood cells  
| Estimated blood loss | Saline 0.9% | lactated ringers | albumin | platelets |  
phenylephrine | ephedrine | epinephrine