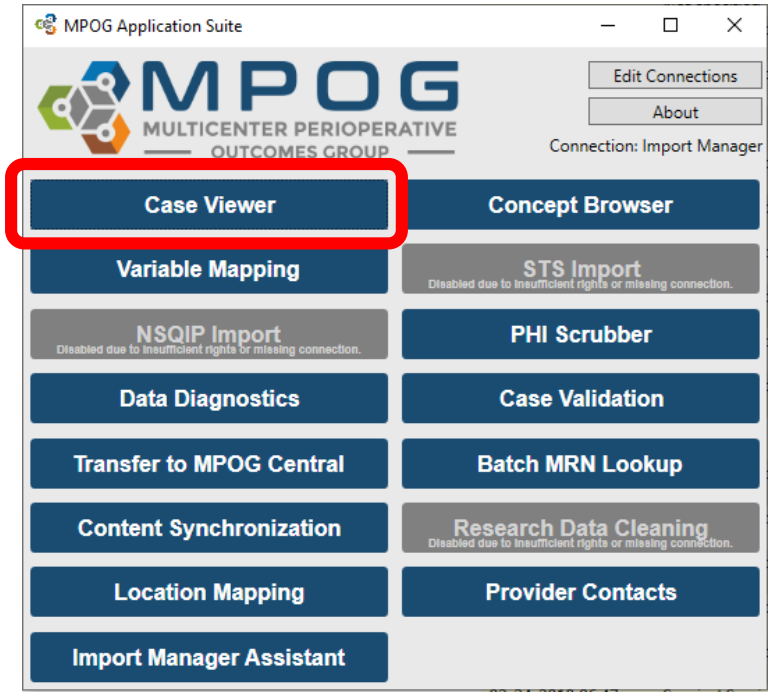
MPOG
MULTICENTER PERIOPERATIVE
OUTCOMES GROUP

Module 5
Case Viewer

MPOG
MULTICENTER PERIOPERATIVE
OUTCOMES GROUP

Case Viewer Overview

The MPOG Case Viewer application displays individual case data just as an anesthesia information management system (AIMS) would display.



MPOG Case Viewer

(No case loaded) ✕ +

Fast Case Lookup

Case Search
Chart
Record Search
Administrative
H & P
Outcomes
Labs

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
- Institution
- 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
CABG	Pediatric	March 2020	Today
Knee Arthroplasty	Adult	February 2020	Yesterday
Labor Epidural		January 2020	This Week
		Year to Date	Last Week
			March 2020
			February 2020

Enter Case List

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

Import

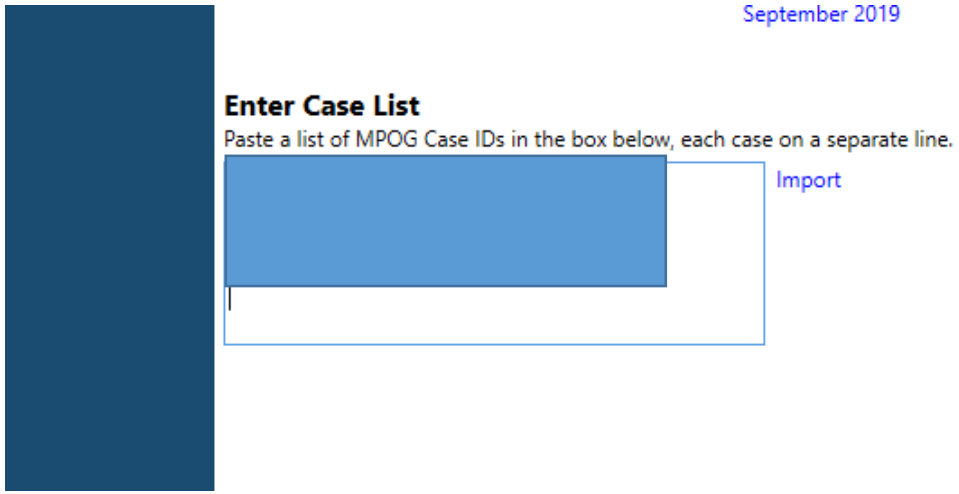
To open a case, search by MPOG Patient ID, MPOG Case ID, or MRN in either location

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.



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

MPOG
MULTICENTER PERIOPERATIVE OUTCOMES GROUP

Search by Filter

Browse for Cases

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

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

Filter Shortcuts

Case Type	Patient Age	Date of Surgery	Recently Opened
CABG	Pediatric	February 2020	Today
Knee Arthroplasty	Adult	January 2020	Yesterday
Labor Epidural		December 2019	This Week
		Year to Date	Last Week
			February 2020
			January 2020

- **Age-** Search for cases by specific age ranges
- **CPT code-** Search for cases that include a specific CPT 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.
- **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

Browse for Cases

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

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

Filter Shortcuts

Case Type	Patient Age	Date of Surgery	Recently Opened
CABG	Pediatric	February 2020	Today
Knee Arthroplasty	Adult	January 2020	Yesterday
Labor Epidural		December 2019	This Week
		Year to Date	Last Week
			February 2020
			January 2020

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

(No case loaded)

Find a Case
Fast Case Lookup

Chart
Record Search
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Labs

Table View
Preferences

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

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

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

Filter Shortcuts
Case Type
CABG
Knee Arthroplasty
Labor Epidural
Case Time
October 2019
September 2019
August 2019
Year to Date
Recently Opened
Today
Yesterday
This Week
Last Week
October 2019
September 2019

Anesthesiology
Burn
Cardiac
Cardiothoracic
Cardiothoracic-vascular
Dentistry
Dermatology
General
Gynecology
Medical - cardiology
Medical - gastroenterology
Medical - hematology/oncology
Medical - nephrology
Medical - not specified
Medical - other
Medical - pulmonology
Neurology
Neurosurgery
Obstetrics
Obstetrics / Gynecology

Search Results

Case Time	Service	Patient Age	Procedure	Institution

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.

MPOG Case Viewer

(No case loaded)

Find a Case
Fast Case Lookup

Chart
Record Search
Administrative
H&P
Outcomes
Labs

Table View
Preferences

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

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

CPT Code
Institution
MPOG Concept ID
Opened Date Range
Primary Surgical Service: General
Procedure Text
Registry Data
Surgery Date Range: From 9/1/2019 To 9/30/2019

Filter Shortcuts
Case Type
CABG
Knee Arthroplasty
Labor Epidural
Case Time
October 2019
September 2019
August 2019
Year to Date
Recently Opened
Today
Yesterday
This Week
Last Week
October 2019
September 2019

Next, filter down to September cases by clicking “Surgery Date Range” and specifying 9/1/2019 to 9/30/2019.

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	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			

MPOG Case Viewer

(No case loaded)

Fast Case Lookup

Case Search
Chart
Record Search
Administrative
H & P
Outcomes
Labs

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
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
CABG	Pediatric	October 2020	Today
Knee Arthroplasty	Adult	September 2020	Yesterday
Labor Epidural		August 2020	This Week
		Year to Date	Last Week
			October 2020
			September 2020

Enter Case List

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

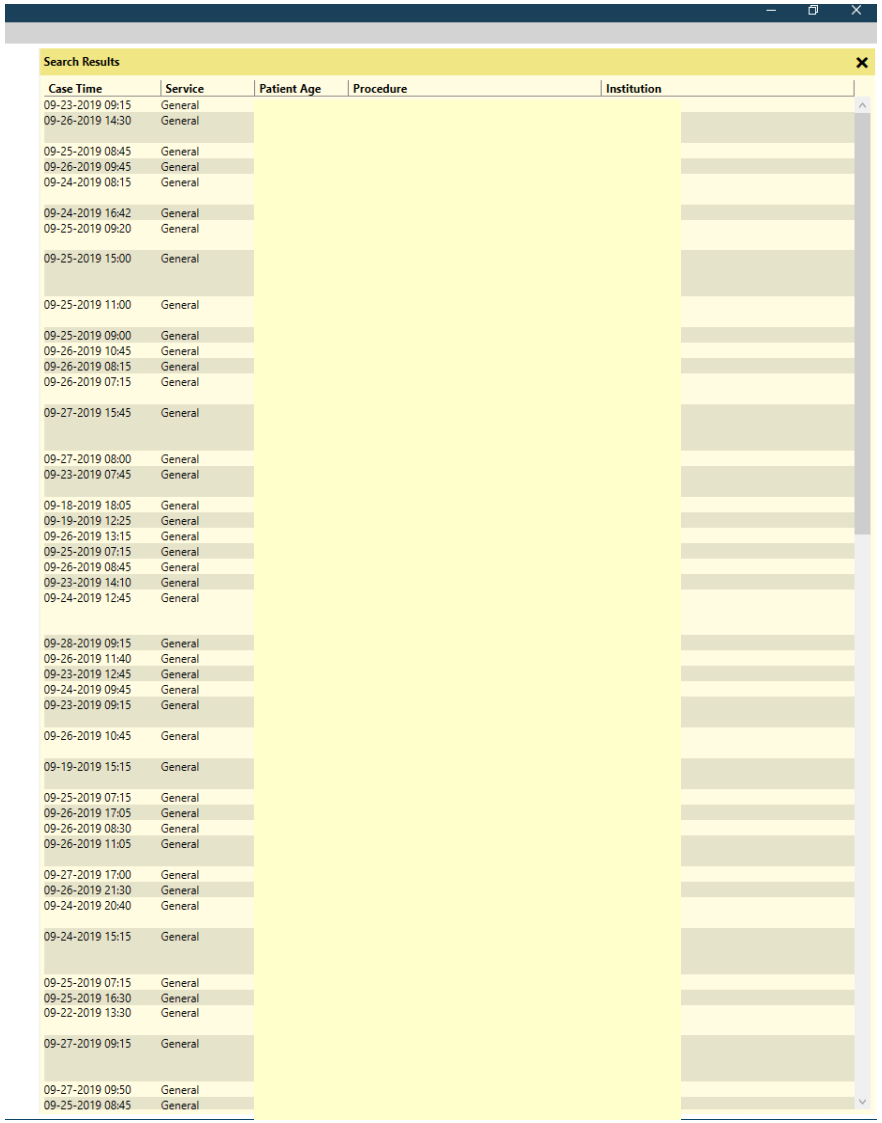
Import

"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 Search

Chart

Record Search

Administrative

H & P

Outcomes

Labs

Case ID

Copy

Institution

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

Procedure

Collapse All Expand All

Main Chart [-]

- [ ] Show Reference Line
- [x] BP Sys Cuff
- [x] BP Dias Cuff
- [x] SpO2 Pulse Rate
- [x] 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 [-]

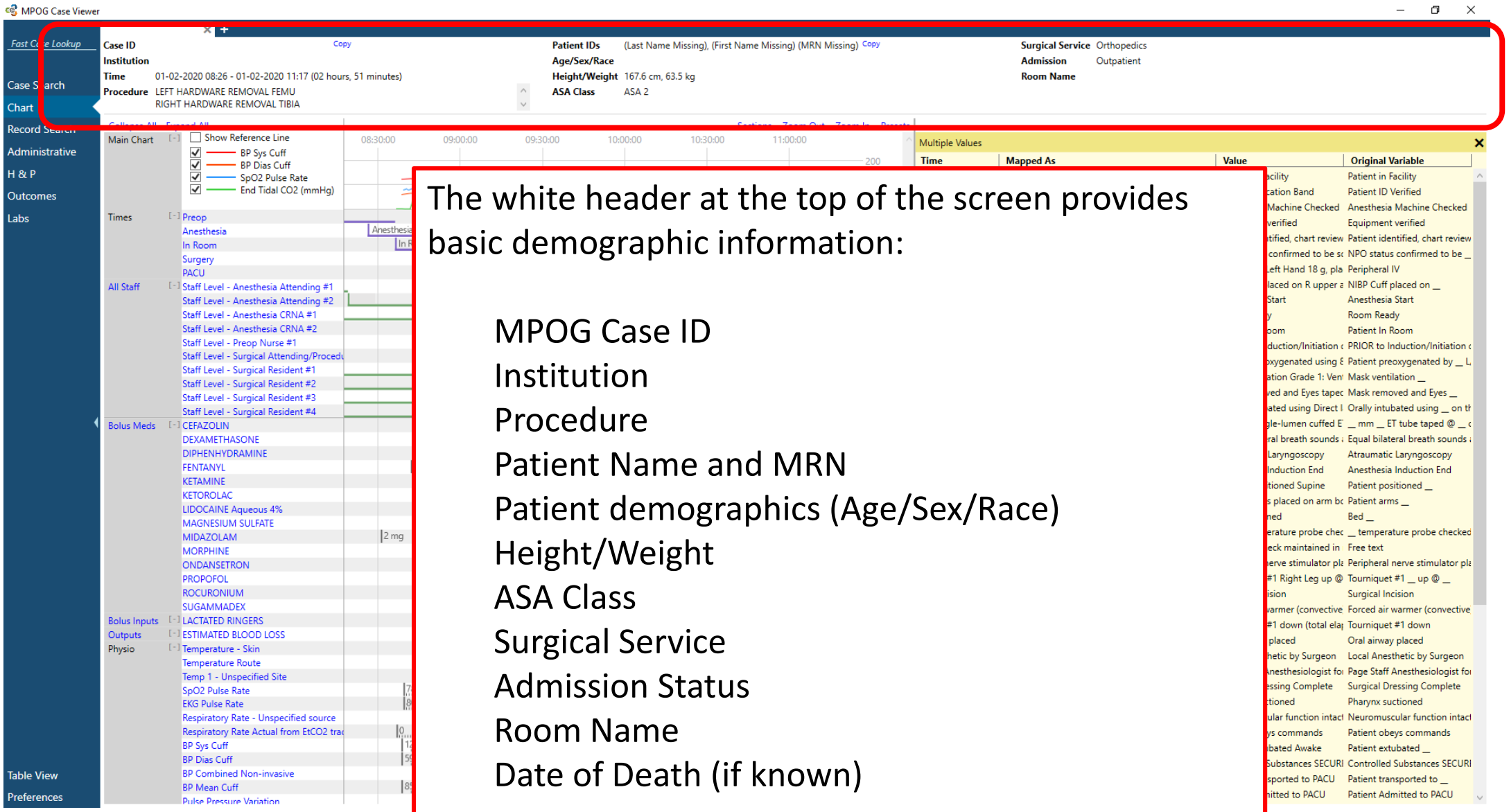
- LACTATED RINGERS

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 MULTICENTER PERIOPERATIVE OUTCOMES GROUP

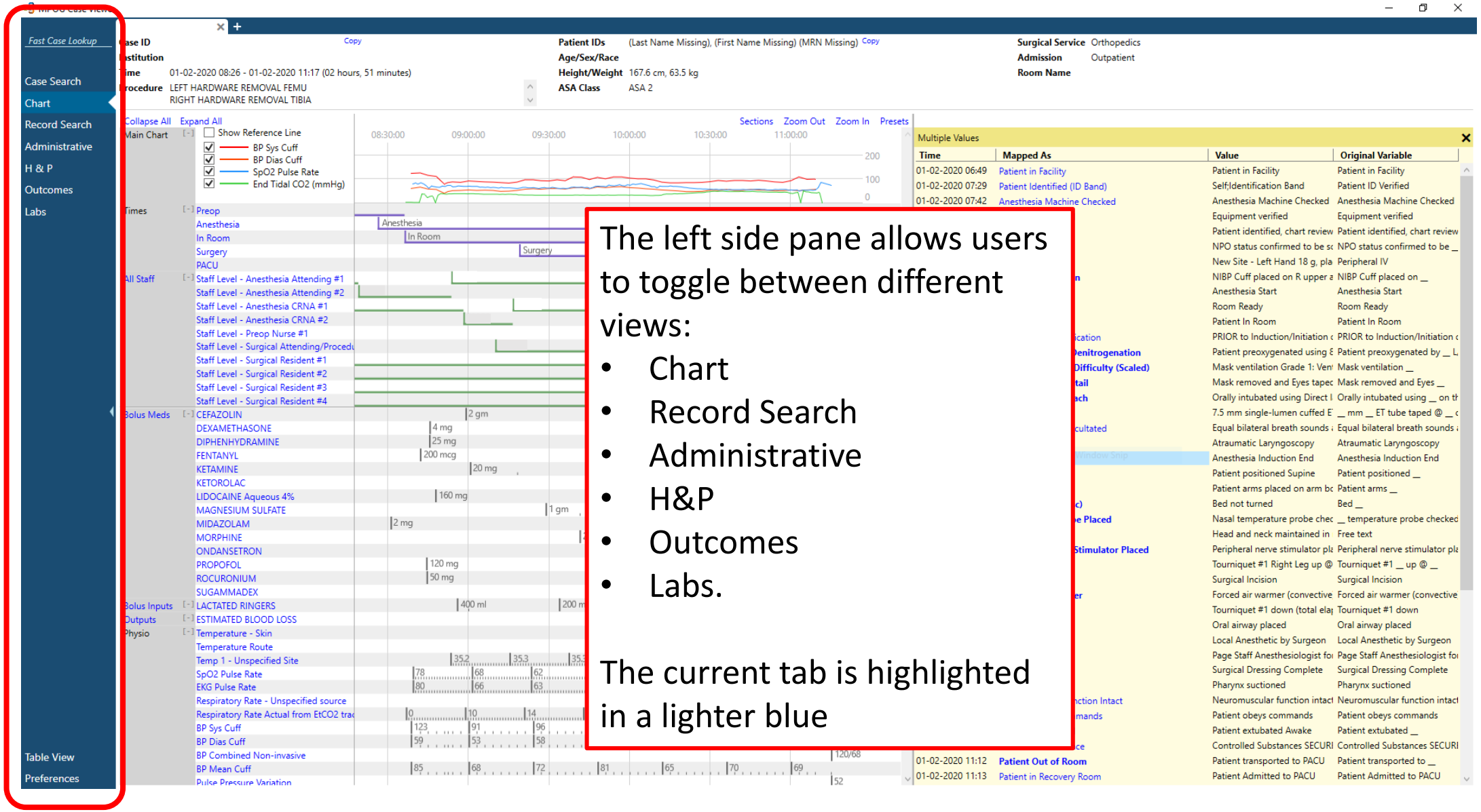


The white header at the top of the screen provides basic demographic information:

- 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



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

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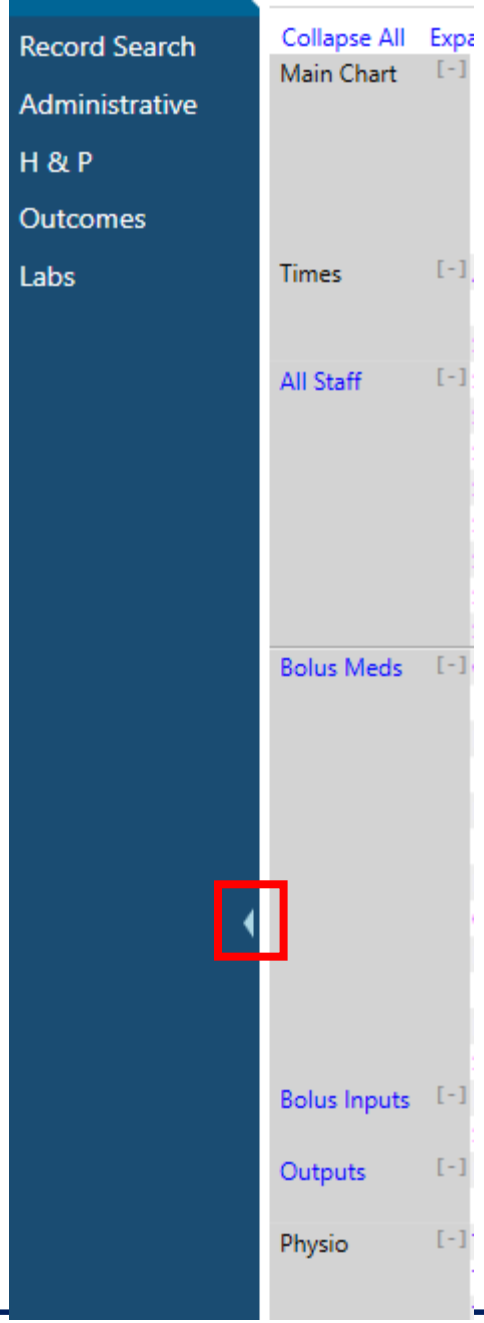
Contact: support@mpog.zendesk.com



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

MPOG Case Viewer

Fast Case Lookup

Case Search
Chart
Record Search
Administrative
H & P
Outcomes
Labs
Table View
Preferences

Case ID Copy
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

Collapse All Expand All Sections Zoom Out Zoom In Presets

Main Chart
Show Reference Line
BP Sys Cuff
BP Dias Cuff
SpO2 Pulse Rate
End Tidal CO2 (mmHg)

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

Times
Preop
Anesthesia
In Room
Surgery
PACU

All Staff
Staff Level - Anesthesia Attending #1
Staff Level - Anesthesia Attending #2
Staff Level - Anesthesia CRNA #1
Staff Level - Anesthesia CRNA #2
Staff Level - Preop Nurse #1
Staff Level - Surgical Attending/Proce
Staff Level - Surgical Resident #1
Staff Level - Surgical Resident #2
Staff Level - Surgical Resident #3
Staff Level - Surgical Resident #4

Bolus Meds
CEFAZOLIN
DEXAMETHASONE
DIPHENHYDRAMINE
FENTANYL
KETAMINE
KETOROLAC
LIDOCAINE Aqueous 4%
MAGNESIUM SULFATE
MIDAZOLAM 2 mg
MORPHINE 2 mg
ONDANSETRON 4 mg
PROPOFOL 120 mg
ROCURONIUM 50 mg
SUGAMMADEX 130 mg

Bolus Inputs
LACTATED RINGERS 400 ml 200 ml 300 ml 200 ml

Outputs
ESTIMATED BLOOD LOSS 50 ml

Physio
Temperature - Skin warm
Temperature Route Oral
Temp 1 - Unspecified Site 35.2 35.3 35.3 35.4 35.3 35.5 97.5
SpO2 Pulse Rate 78 68 62 60 71 56 53 73
EKG Pulse Rate 80 66 63 60 73 55 52
Respiratory Rate - Unspecified source 16
Respiratory Rate Actual from EtCO2 trac 0 10 14 14 14 8 12 10
BP Sys Cuff 123 91 96 106 86 90 92
BP Dias Cuff 59 53 58 66 53 55 53
BP Combined Non-invasive 120/68
BP Mean Cuff 85 68 72 81 65 70 69
Pulse Pressure Variation 52

The tab across the top shows which case you have open. Users may open up to 4 cases at a time. The patient's age, gender, and institution appear in the tab. For the purposes of this training guide, PHI has been hidden, however

Multiple Values

Time	Mapped As	Value	Original Variable
01-02-2020 06:49	Patient in Facility	Patient in Facility	Patient in Facility
01-02-2020 07:29	Patient Identified (ID Band)	Self;Identification Band	Patient ID Verified
01-02-2020 07:42	Anesthesia Machine Checked	Anesthesia Machine Checked	Anesthesia Machine Checked
01-02-2020 07:42	Equipment Verified	Equipment verified	Equipment verified
01-02-2020 07:53	**Patient Identified**	Patient identified, chart review	Patient identified, chart review
01-02-2020 07:53	**NPO Verification**	NPO status confirmed to be s	NPO status confirmed to be _
01-02-2020 07:54	**IV Access (Misc)**	New Site - Left Hand 18 g, pla	Peripheral IV
01-02-2020 08:09	**NIBP Cuff Location**	NIBP Cuff placed on R upper a	NIBP Cuff placed on _
01-02-2020 08:26	Anesthesia Start	Anesthesia Start	Anesthesia Start
01-02-2020 08:31	Room Ready	Room Ready	Room Ready
01-02-2020 08:36	Patient in Room	Patient In Room	Patient In Room
01-02-2020 08:39	Pre-Induction Verification	PRIOR to Induction/Initiation c	PRIOR to Induction/Initiation c
01-02-2020 08:41	**Preoxygenation/Denitrogenation**	Patient preoxygenated using E	Patient preoxygenated by _ L,
01-02-2020 08:44	**Mask Ventilation Difficulty (Scaled)**	Mask ventilation Grade 1: Ven	Mask ventilation _
01-02-2020 08:44	**Eye Protection Detail**	Mask removed and Eyes tapec	Mask removed and Eyes _
01-02-2020 08:47	**Intubation Approach**	Orally intubated using Direct I	Orally intubated using _ on th
01-02-2020 08:47	**Intubation Tube**	7.5 mm single-lumen cuffed E	_ mm _ ET tube taped @ _ c
01-02-2020 08:47	Breath Sounds Auscultated	Equal bilateral breath sounds a	Equal bilateral breath sounds a
01-02-2020 08:47	Atraumatic	Atraumatic Laryngoscopy	Atraumatic Laryngoscopy
01-02-2020 08:47	Induction End	Anesthesia Induction End	Anesthesia Induction End
01-02-2020 08:52	**Patient Position**	Patient positioned Supine	Patient positioned _
01-02-2020 08:52	**Arm Position**	Patient arms placed on arm bc	Patient arms _
01-02-2020 08:52	**Table Turned (Misc)**	Bed not turned	Bed _
01-02-2020 08:52	**Temperature Probe Placed**	Nasal temperature probe chec	_ temperature probe checked
01-02-2020 08:53	Free Text Note	Head and neck maintained in	Free text
01-02-2020 08:55	**Peripheral Nerve Stimulator Placed**	Peripheral nerve stimulator pla	Peripheral nerve stimulator pla
01-02-2020 09:18	**Tourniquet Up**	Tourniquet #1 Right Leg up @	Tourniquet #1 _ up @ _
01-02-2020 09:18	Procedure Start	Surgical Incision	Surgical Incision
01-02-2020 09:28	**Convective Warmer**	Forced air warmer (convective	Forced air warmer (convective
01-02-2020 10:11	Tourniquet Down	Tourniquet #1 down (total elap	Tourniquet #1 down
01-02-2020 10:30	Oral Airway Placed	Oral airway placed	Oral airway placed
01-02-2020 10:32	Local Infiltration	Local Anesthetic by Surgeon	Local Anesthetic by Surgeon
01-02-2020 11:00	Emergence (Misc)	Page Staff Anesthesiologist for	Page Staff Anesthesiologist for
01-02-2020 11:00	Procedure End	Surgical Dressing Complete	Surgical Dressing Complete
01-02-2020 11:06	Pharynx Suctioned	Pharynx suctioned	Pharynx suctioned
01-02-2020 11:10	Neuromuscular Function Intact	Neuromuscular function intact	Neuromuscular function intact
01-02-2020 11:10	Patient Obeys Commands	Patient obeys commands	Patient obeys commands
01-02-2020 11:10	**Patient Extubated**	Patient extubated Awake	Patient extubated _
01-02-2020 11:12	Controlled Substance	Controlled Substances SECURI	Controlled Substances SECURI
01-02-2020 11:12	**Patient Out of Room**	Patient transported to PACU	Patient transported to _
01-02-2020 11:13	Patient in Recovery Room	Patient Admitted to PACU	Patient Admitted to PACU

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RIGHT HARDWARE REMOVAL TIBIA

Patient IDs (Last Name Missing), (First Name Missing) (MRN Missing)
Age/Sex/Race
Height/Weight 167.6 cm, 63.5 kg
ASA Class ASA 2

Surgical Service Orthopedics
Admission Outpatient
Room Name

Collapse All Expand All Sections Zoom Out Zoom In Presets

Main Chart: Show Reference Line; BP Sys Cuff; BP Dias Cuff; SpO2 Pulse Rate; End Tidal CO2 (mmHg)

Times: Preop; Anesthesia; In Room; Surgery; PACU

All Staff: Staff Level - Anesthesia Attending #1; Staff Level - Anesthesia Attending #2; Staff Level - Anesthesia CRNA #1; Staff Level - Anesthesia CRNA #2; Staff Level - Preop Nurse #1; Staff Level - Surgical Attending/Proced; Staff Level - Surgical Resident #1; Staff Level - Surgical Resident; Staff Level - Surgical Resident; Staff Level - Surgical Resident

Bolus Meds: CEFAZOLIN; DEXAMETHASONE; DIPHENHYDRAMINE; FENTANYL; KETAMINE; KETOROLAC; LIDOCAINE Aqueous 4%; MAGNESIUM SULFATE; MIDAZOLAM; MORPHINE; ONDANSETRON; PROPOFOL; ROCURONIUM; SUGAMMADEX

Bolus Inputs: LACTATED RINGERS
Outputs: ESTIMATED BLOOD LOSS
Physio: Temperature - Skin; Temperature Route; Temp 1 - Unspecified Site; SpO2 Pulse Rate; EKG Pulse Rate; Respiratory Rate - Unspecified source; Respiratory Rate Actual from EtCO2 trac; BP Sys Cuff; BP Dias Cuff; BP Combined Non-invasive; BP Mean Cuff; Pulse Pressure Variation

Multiple Values

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			Mask removed and Eyes _
			Orally intubated using _ on th
			_ mm _ ET tube taped @ _
			Equal bilateral breath sounds
			Atraumatic Laryngoscopy
			Anesthesia Induction End
			Patient positioned _
			Patient arms _
			Bed _
			_ temperature probe checked
			Free text
			Peripheral nerve stimulator pla
			Tourniquet #1 _ up @ _
			Surgical Incision
01-02-2020 09:28	**Convective Warmer**	Forced air warmer (convective	Forced air warmer (convective
01-02-2020 10:11	Tourniquet Down	Tourniquet #1 down (total elap	Tourniquet #1 down
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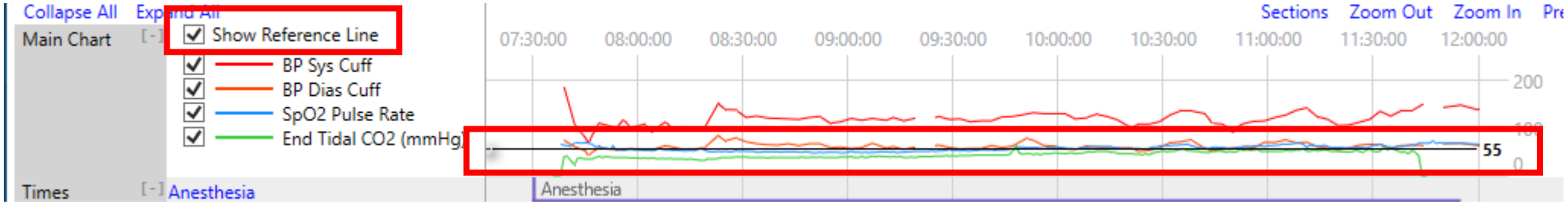
01-02-2020 10:32	Local Infiltration	Local Anesthetic by Surgeon	Local Anesthetic by Surgeon
01-02-2020 11:00	Emergence (Misc)	Page Staff Anesthesiologist fo	Page Staff Anesthesiologist fo
01-02-2020 11:00	Procedure End	Surgical Dressing Complete	Surgical Dressing Complete
01-02-2020 11:06	Pharynx Suctioned	Pharynx suctioned	Pharynx suctioned
01-02-2020 11:10	Neuromuscular Function Intact	Neuromuscular function intact	Neuromuscular function intact
01-02-2020 11:10	Patient Obeys Commands	Patient obeys commands	Patient obeys commands
01-02-2020 11:10	**Patient Extubated**	Patient extubated Awake	Patient extubated _
01-02-2020 11:12	Controlled Substance	Controlled Substances SECURI	Controlled Substances SECURI
01-02-2020 11:12	**Patient Out of Room**	Patient transported to PACU	Patient transported to _
01-02-2020 11:13	Patient in Recovery Room	Patient Admitted to PACU	Patient Admitted to PACU

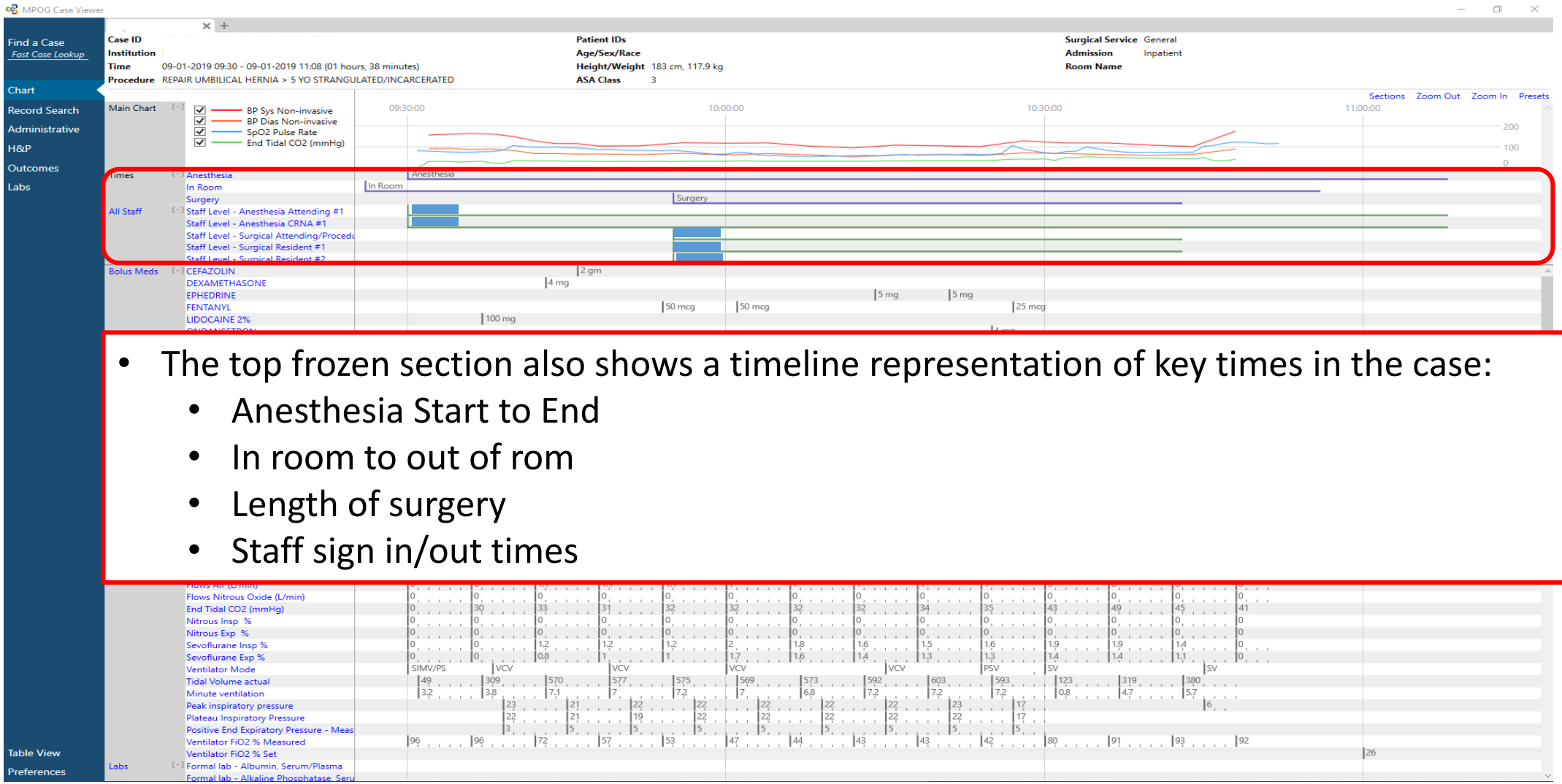
Table View
Preferences

- 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

MPOG MULTICENTER PERIOPERATIVE OUTCOMES GROUP

- 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 MULTICENTER PERIOPERATIVE OUTCOMES GROUP

MPOG Case Viewer

Fast Case Lookup

Case Search
Chart
Record Search
Administrative
H & P
Outcomes
Labs

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)
Age/Sex/Race
Height/Weight 167.6 cm, 63.5 kg
ASA Class ASA 2

Surgical Service Orthopedics
Admission Outpatient
Room Name

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
PACU
All Staff
Staff Level - Anesthesia Attending #1
Staff Level - Anesthesia Attending #2
Staff Level - Anesthesia CRNA #1
Staff Level - Anesthesia CRNA #2
Staff Level - Preop Nurse #1
Staff Level - Surgical Attending/Procedu
Staff Level - Surgical Resident #1
Staff Level - Surgical Resident #2
Staff Level - Surgical Resident #3
Staff Level - Surgical Resident #4
Bolus Meds
CEFAZOLIN
DEXAMETHASONE
DIPHENHYDRAMINE
FENTANYL
KETAMINE
KETOROLAC
LIDOCAINE Aqueous 4%
MAGNESIUM SULFATE
MIDAZOLAM
MORPHINE
ONDANSETRON
PROPOFOL
ROCURONIUM
SUGAMMADEX
Bolus Inputs
LACTATED RINGERS
Outputs
ESTIMATED BLOOD LOSS
Physio
Temperature - Skin
Temperature Route
Temp 1 - Unspecified Site
SpO2 Pulse Rate
EKG Pulse Rate
Respiratory Rate - Unspecified source
Respiratory Rate Actual from EtCO2 trac
BP Sys Cuff
BP Dias Cuff
BP Combined Non-invasive
BP Mean Cuff
Pulse Pressure Variation

Table View
Preferences

Sections Zoom Out Zoom In Presets

Multiple Values

Time	Mapped As	Value	Original Variable
01-02-2020 06:49	Patient in Facility	Patient in Facility	Patient in Facility
01-02-2020 07:29	Patient Identified (ID Band)	Self;Identification Band	Patient ID Verified
01-02-2020 07:42	Anesthesia Machine Checked	Anesthesia Machine Checked	Anesthesia Machine Checked
01-02-2020 07:42	Equipment Verified	Equipment verified	Equipment verified
01-02-2020 07:53	**Patient Identified**	Patient identified, chart review	Patient identified, chart review
01-02-2020 07:53	**NPO Verification**	NPO status confirmed to be sc	NPO status confirmed to be _
01-02-2020 07:54	**IV Access (Misc)**	New Site - Left Hand 18 g, pla	Peripheral IV
01-02-2020 08:09	**NIBP Cuff Location**	NIBP Cuff placed on R upper a	NIBP Cuff placed on _
01-02-2020 08:26	Anesthesia Start	Anesthesia Start	Anesthesia Start
01-02-2020 08:31	Room Ready	Room Ready	Room Ready
01-02-2020 08:36	Patient in Room	Patient In Room	Patient In Room
01-02-2020 08:39	Pre-Induction Verification	PRIOR to Induction/Initiation c	PRIOR to Induction/Initiation c
01-02-2020 08:41	**Preoxygenation/Denitrogenation**	Patient preoxygenated using E	Patient preoxygenated by _ L
01-02-2020 08:44	**Mask Ventilation Difficulty (Scaled)**	Mask ventilation Grade 1: Vent	Mask ventilation _
01-02-2020 08:44	**Eye Protection Detail**	Mask removed and Eyes tapec	Mask removed and Eyes _
01-02-2020 11:13	Patient in Recovery Room	Patient Admitted to PACU	Patient Admitted to PACU

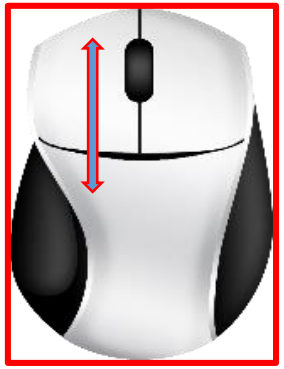
- The grey column to the left divides the case into the following section
  - Bolus meds
  - Bolus inputs
  - Outputs
  - Physiologic
  - Ventilator
  - Notes
  - Labs

MPOG
MULTICENTER PERIOPERATIVE OUTCOMES GROUP

- 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



Hover Mouse Pointer

Information available in the body of the chart is arranged to match the chronological timeline listed across the top of the view. To view more information, hover the mouse pointer over the flow sheet and use the scroll bar to scroll in or out. “Zoom Out” and “Zoom In” buttons are also available in the upper right corner

MPOG Case Viewer

Fast Case Lookup

Case Search
Chart
Record Search
Administrative
H & P
Outcomes
Labs

Table View
Preferences

Case ID
Institution
Time 09-01-2019 09:30 - 09-01-2019 11:08 (01 hours, 38 minutes)
Procedure REPAIR UMBILICAL HERNIA > 5 YO STRANGULATED/INCARCERATED

Patient IDs
Age/Sex/Race
Height/Weight 183 cm, 117.9 kg
ASA Class 3

Surgical Service General
Admission Inpatient
Room Name

Sections Zoom Out Zoom In Presets

Main Chart: BP Sys Non-invasive, BP Dias Non-invasive, SpO2 Pulse Rate, End Tidal CO2 (mmHg)

Times: Anesthesia, In Room, Surgery

All Staff: Staff Level - Anesthesia Attending #1, Staff Level - Anesthesia CRNA #1, Staff Level - Surgical Attending/Proceduralist, Staff Level - Surgical Resident #1, Staff Level - Surgical Resident #2

Bolus Meds: CEFAZOLIN, DEXAMETHASONE, EPHEDRINE, FENTANYL, LIDOCAINE 2%, ONDANSETRON, PROPOFOL, ROCURONIUM, SUCCINYLCHOLINE, SUGAMMADEX

Bolus Inputs: NORMOSOL

Outputs: OTHER OUTPUT, UNSPECIFIED

Physio: Temperature - Esophageal, Temperature - Temporal Artery, SpO2 Pulse Rate, EKG Pulse Rate, Respiratory Rate - Unspecified source, BP Sys Non-invasive, BP Dias Non-invasive, BP Mean Non-invasive, Cardiac Rhythm, ST Lead II, ST Lead V1, SpO2 %, Train-of-four (subjective assessment)

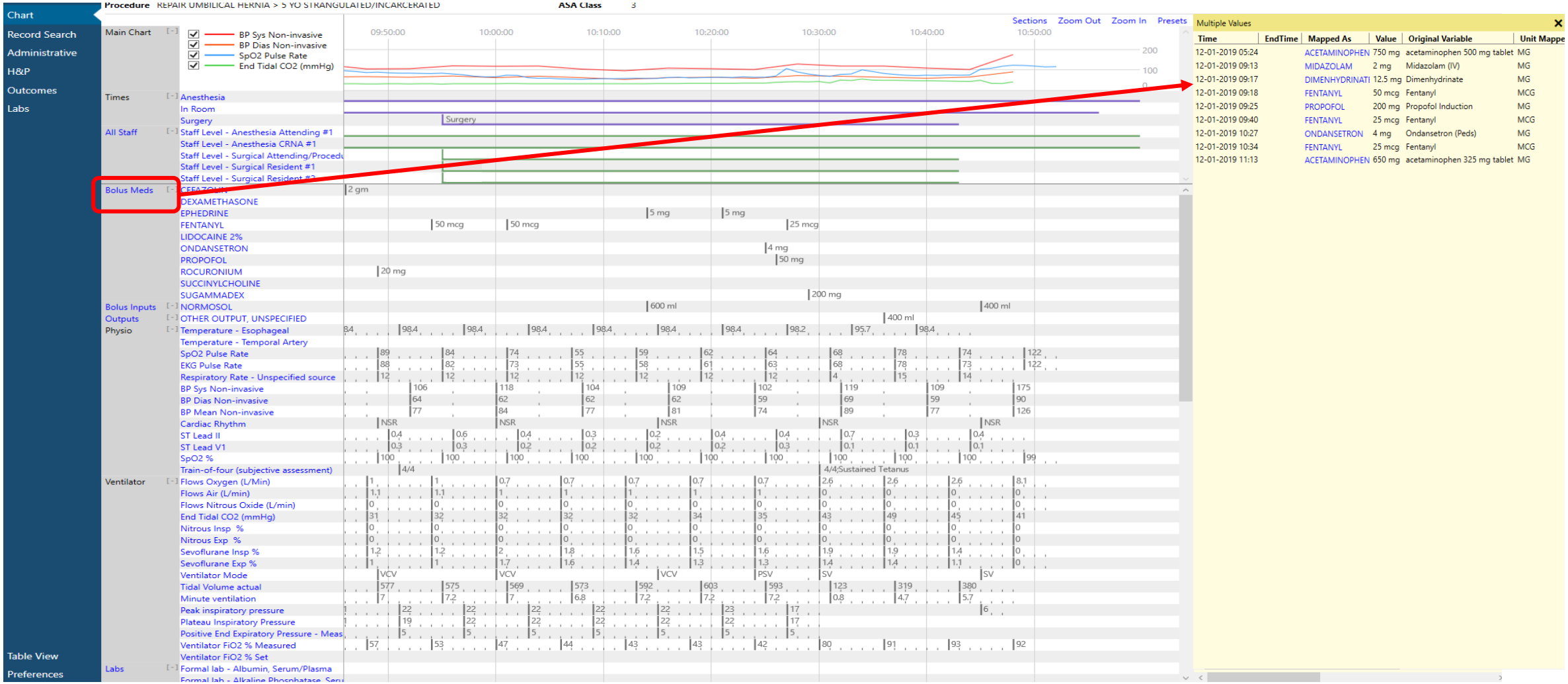
Ventilator: Flows Oxygen (L/Min), Flows Air (L/min), Flows Nitrous Oxide (L/min), End Tidal CO2 (mmHg), Nitrous Insp %, Nitrous Exp %, Sevoflurane Insp %, Sevoflurane Exp %, Ventilator Mode, Tidal Volume actual, Minute ventilation, Peak inspiratory pressure, Plateau Inspiratory Pressure, Positive End Expiratory Pressure - Meas, Ventilator FiO2 % Measured, Ventilator FiO2 % Set

Labs: Formal lab - Albumin, Serum/Plasma, Formal lab - Alkaline Phosphatase, Seru

Click Mouse

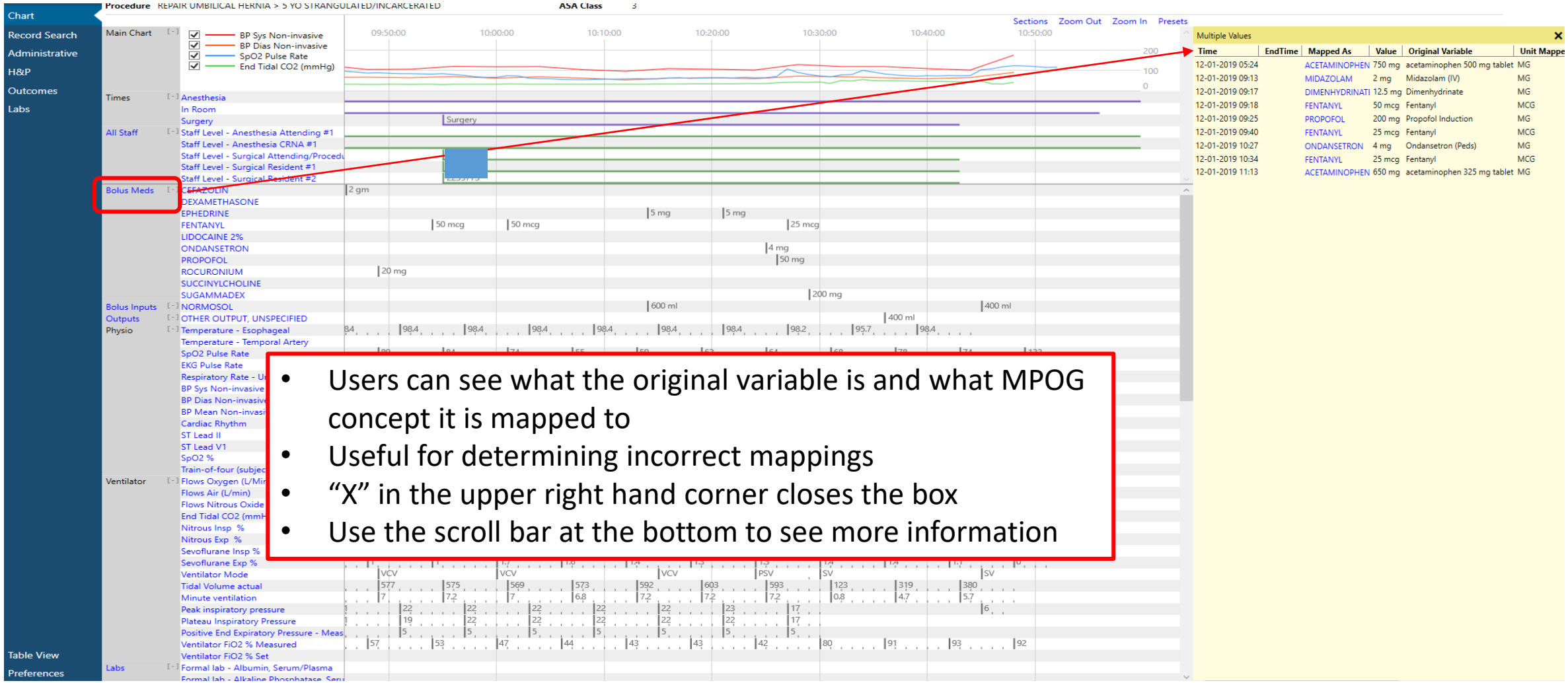
Click and drag mouse left or right

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



MPOG
MULTICENTER PERIOPERATIVE OUTCOMES GROUP

Contact: support@mpog.zendesk.com



- 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

MPOG
MULTICENTER PERIOPERATIVE OUTCOMES GROUP

- 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			
	Med Type	LIDOCAINE 2% *10250*	Lidocaine 2% 20 mg/mL *ERX-112130*
	Unit	MG *1005*	MG *MG*
	Route	IV *2001*	INTRAVENOUS *INTRAVENOUS*

MPOG MULTICENTER PERIOPERATIVE OUTCOMES GROUP

- 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

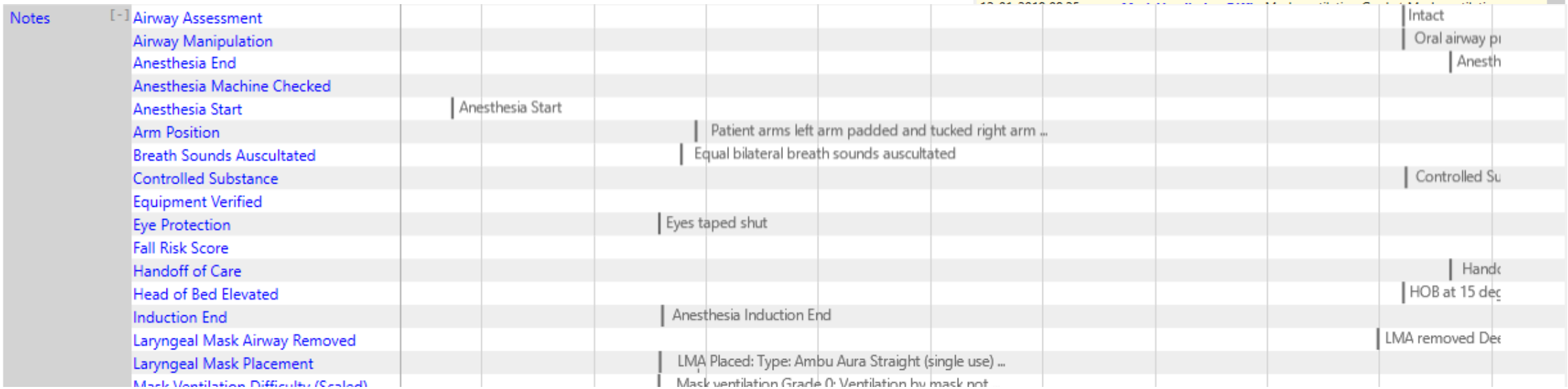
Time	Mapped As	Value	Original Variable
12-01-2019 08:18	BP Sys Non-invasive	84	7
12-01-2019 08:21	BP Sys Non-invasive	88	7
12-01-2019 08:24	BP Sys Non-invasive	93	7
12-01-2019 08:27	BP Sys Non-invasive	93	7
12-01-2019 08:36	BP Sys Non-invasive	97	7
12-01-2019 08:30	BP Sys Non-invasive	105	7
12-01-2019 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

- Side box view can be especially helpful when reviewing notes if users wish to see them in chronological order similar to some EHRs
- The note information is also available in the body of the flowsheet

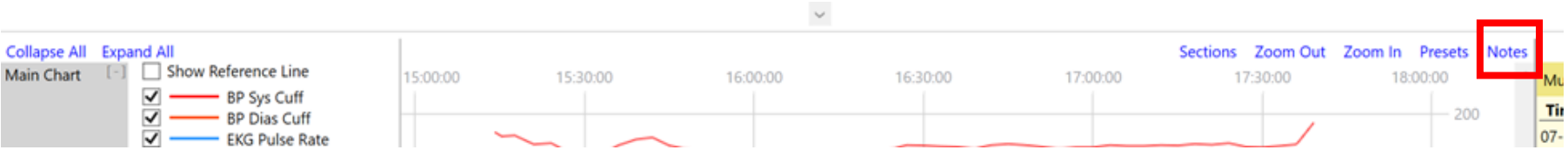
Multiple Values

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 tc	NPO status confirmed tc
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 Verificatio	PRIOR to Induction/Initi	PRIOR to Induction/Initi
12-01-2019 09:24	Pre-Induction Verificatio	PRIOR to Induction/Initi	PRIOR to Induction/Initi
12-01-2019 09:24	**Preoxygenation/Denitr**	Patient preoxygenated b	Patient preoxygenated b



MPOG
MULTICENTER PERIOPERATIVE OUTCOMES GROUP

- 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

Back

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

	Mapped As	Original
Note Type	AACD Patient In Facility Date/ Time *50016*	Patient in Facility *30594*

MPOG MULTICENTER PERIOPERATIVE OUTCOMES GROUP

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

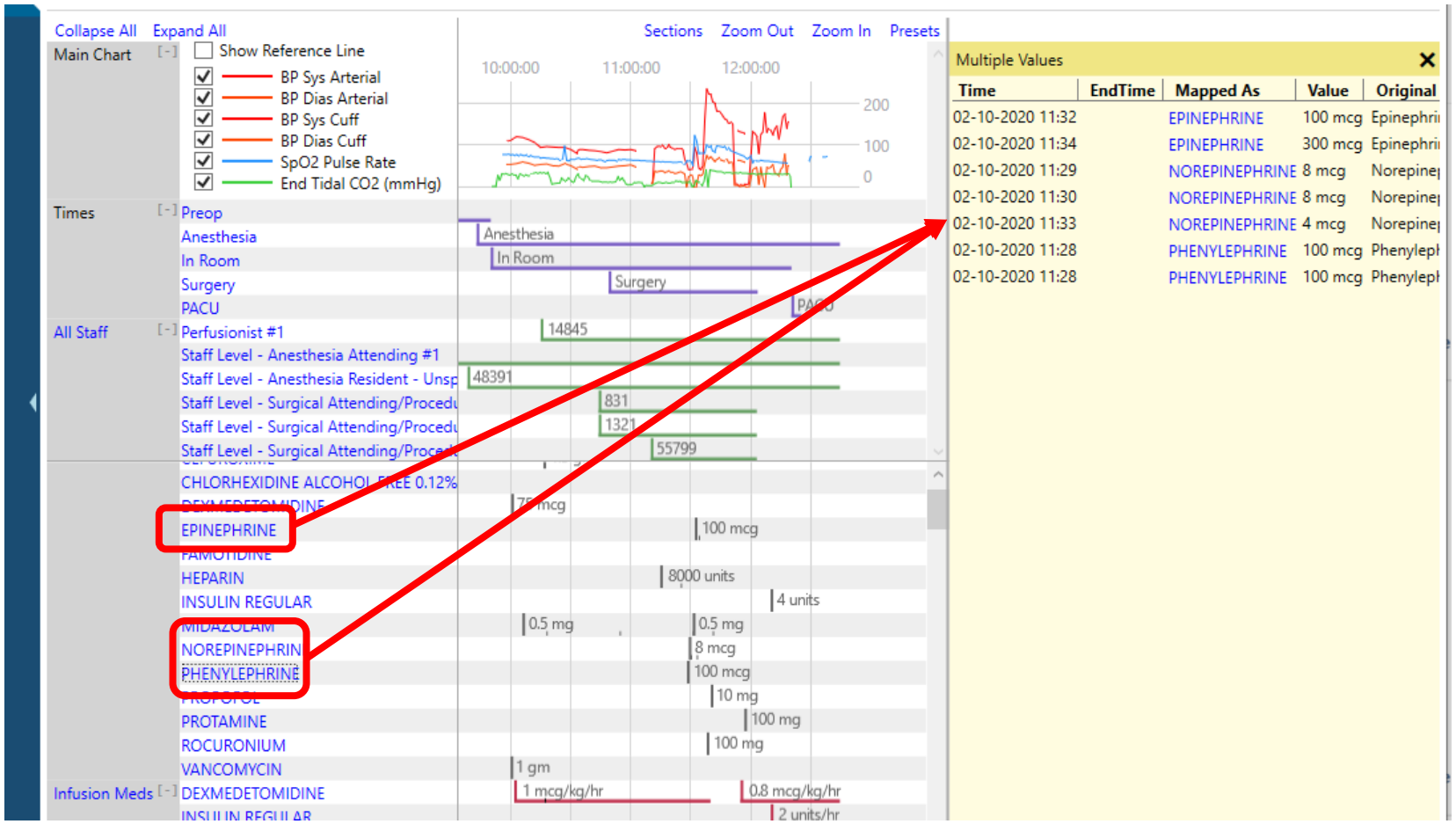
05-06-2014 07:31	**Mask Ventilation Difficulty (Scaled)**	Mask ventilation Grade M
05-06-2014 07:31	**Eye Protection Detail**	Mask removed and Eye M
05-06-2014 07:32	**Intubation Tube**	8.0 mm Single-lumen c
05-06-2014 07:32	Breath Sounds Auscultated	Equal bilateral breath s Eq
05-06-2014 07:32	**Intubation View**	Grade Grade 1 - Full vie Gr
05-06-2014 07:32	**Intubation Device/Adjunct (Oral)**	Orally intubated using Or
05-06-2014 07:32	Atraumatic	Atraumatic Laryngosco At
05-06-2014 07:45	Induction End	Anesthesia Induction E Ar
05-06-2014 07:46	Central Venous IV Access Placed	Adult Central Venous C Ac

Intraop Note

Back

Concept	Intubation Tube Note
Value	8.0 mm Single-lumen cuffed ET tube taped @ 22 cm
Observed Time	05-06-2014 07:32
Details	

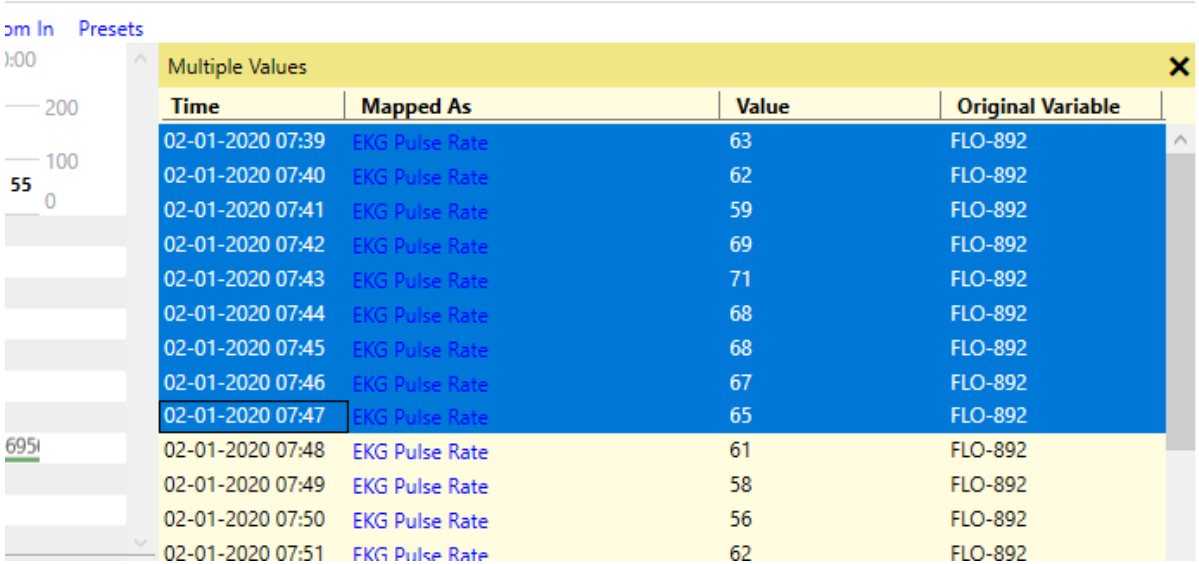
Concept	Value
Endotracheal Tube Size	8
Endotracheal Tube Size	8
Endotracheal Tube Type	Single-lumen cuffed
Endotracheal Tube Type	Single-lumen cuffed
Endotracheal Tube Secured Distance	22
Endotracheal Tube Secured Distance	21



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

MPOG
MULTICENTER PERIOPERATIVE OUTCOMES GROUP

- 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



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

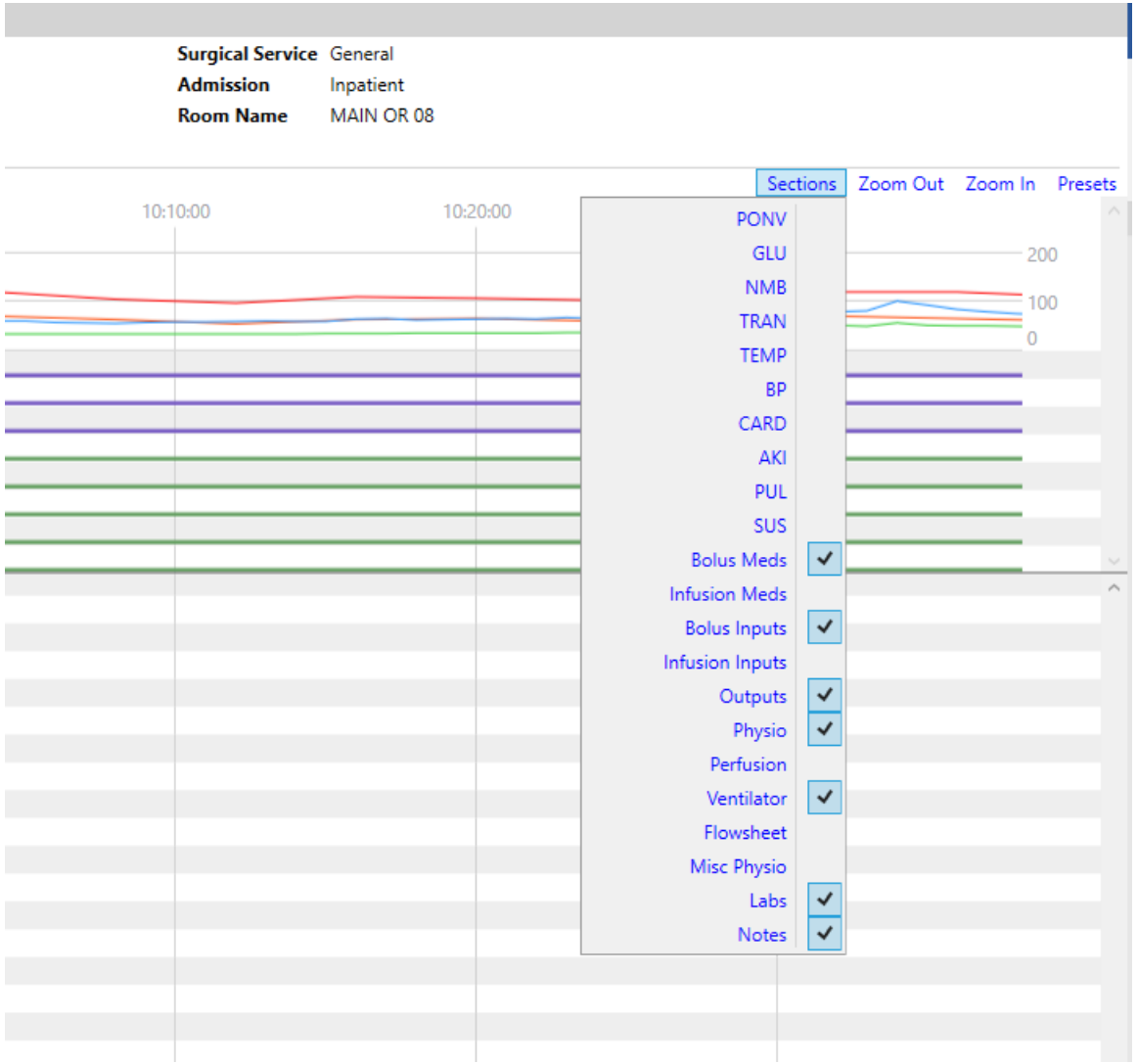
A1 | 2/1/2020 7:39:00 AM

	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		

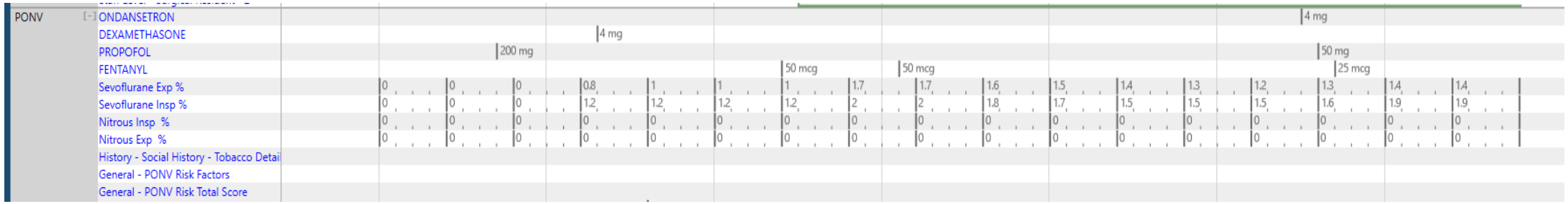
MPOG
MULTICENTER PERIOPERATIVE OUTCOMES GROUP

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.



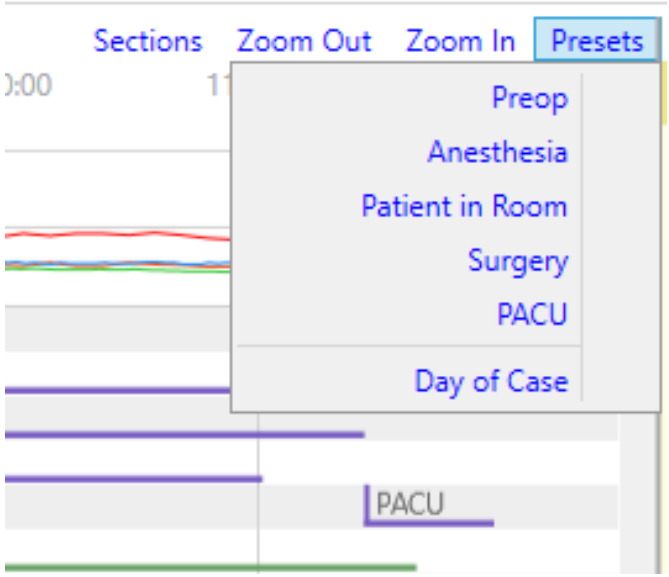
For example, the PONV section summarizes PONV relevant information such as anti-emetics given, anesthetic gases used, and PONV and smoking history and risk factors. While this information is available elsewhere in the chart, this view quickly summarizes and puts the information into one place.



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

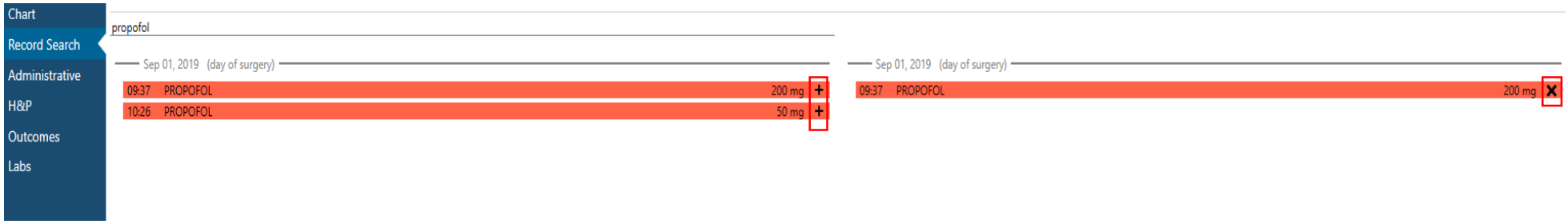
- The “Preset” menu in the upper right corner shows users preset views of the chart based on their choice.



For example, choosing “Surgery Duration” zooms the chart to show the times between surgery start and end. Users can see the rest of the chart by zooming in or out or clicking and dragging as usual.

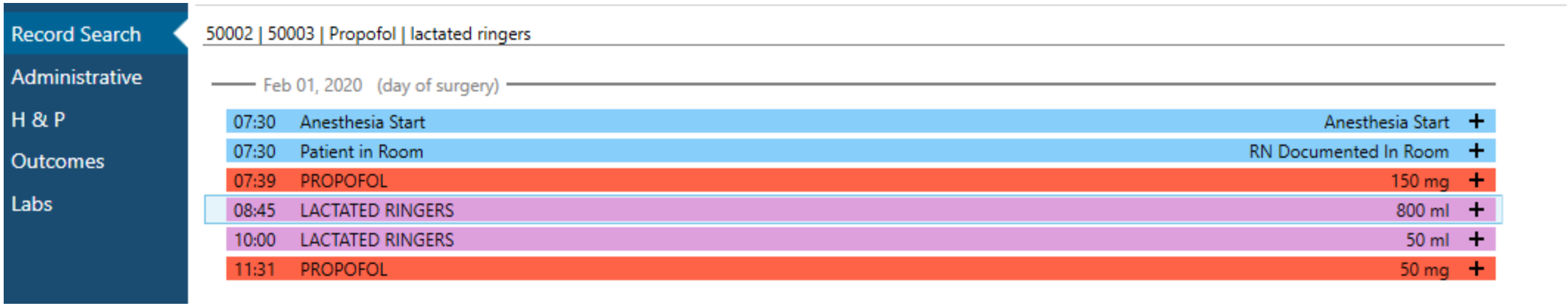
Record Search

- 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
- Temporarily save that information together in the “Shopping cart” to the right using the “+”
- Remove information from the shopping cart using the “X”



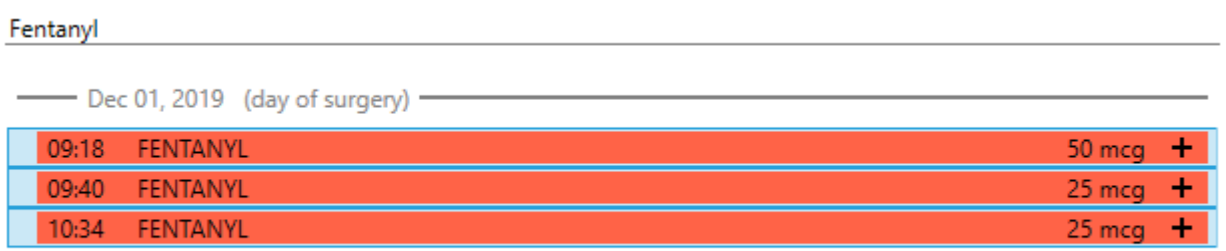
Record Search

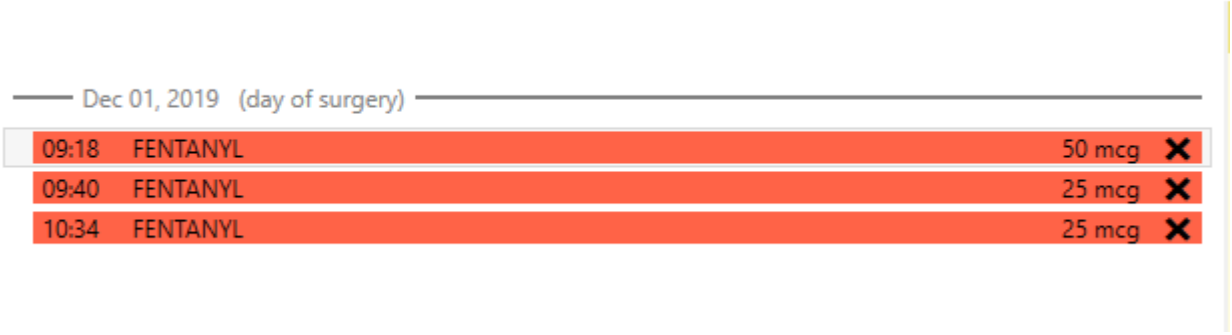
- Search for multiple terms/variables at the same time using the '|' symbol between variables
  - Hint: | is found on the same key as \, use 'Shift' to type |
- Ex: 50002 | 50003 | Propofol | lactated ringers
  - This will pull in everything mapped to those two concept IDs and everything including the words 'propofol' and 'lactated ringers'
- CTRL + Z will undo searches in record search



Record Search

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





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

Chart
Record Search
Administrative
H&P
Outcomes
Labs

anesthesia

Jan 01, 0001 No Valid Date Specified

00:00	Assessment and Plan - Anesthesia Technique	General
00:00	Misc Note	Placed by Anesthesia Team
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

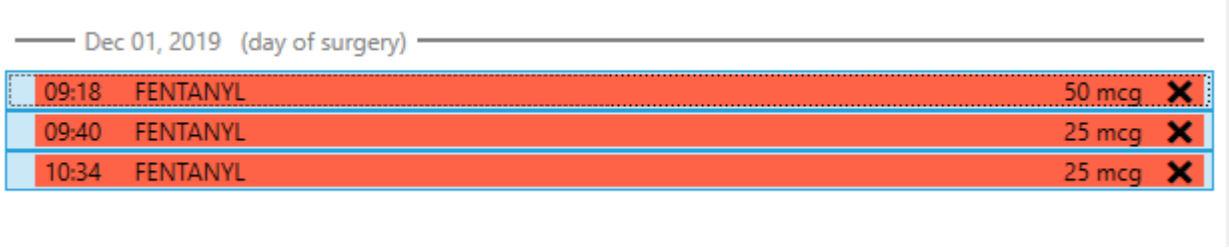
Sep 01, 2019 (day of surgery)

09:30	Anesthesia Start	Anesthesia Start
09:37	PROPOFOL	200 mg
10:26	PROPOFOL	50 mg
11:08	Anesthesia End	Anesthesia Stop

MPOG
MULTICENTER PERIOPERATIVE OUTCOMES GROUP

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



	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				

Administrative

Chart
Record Search
Administrative
H&P
Outcomes
Labs

Demographics

MPOG Patient ID	
Diagnosis	Oth abdominal hernia with obstruction, without gangrene
AIMS Patient ID	
AIMS Case ID	
AIMS Encounter ID	
AIMS Admission Type	IP
AIMS Surgical Service	Hepatopancreatobiliary
Scheduled Time	9/1/2019 8:05:00 AM
Date of Birth	Missing

Professional Fee Billing

Procedure Codes (CPT) *Required*

Code	Type	Start Time	End Time
38571	Surgery Professional Fee Data	08-27-2019 00:00	08-27-2019 00:00
55650	Surgery Professional Fee Data	08-27-2019 00:00	08-27-2019 00:00
55866	Surgery Professional Fee Data	08-27-2019 00:00	08-27-2019 00:00

Diagnosis Codes (ICD-9/10)

Code	Type	Start Time	End Time
C61	Surgery Professional Fee Data	08-27-2019 00:00	08-27-2019 00:00

Location Hierarchy

Locations

Level 1 -
Tag: Facility type - Acute care hospital
Level 2 -
Tag: Facility type - Acute care hospital
Tag: Other - Mixed use operating room
Level 3 - N
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	Type	Start Time	End Time
C61	Hospital Discharge	08-29-2019 00:00	09-02-2019 00:00
C79.89	Hospital Discharge	08-29-2019 00:00	09-02-2019 00:00
E66.9	Hospital Discharge	08-29-2019 00:00	09-02-2019 00:00
I10	Hospital Discharge	08-29-2019 00:00	09-02-2019 00:00
I83.92	Hospital Discharge	08-29-2019 00:00	09-02-2019 00:00
K42.0	Hospital Discharge	08-29-2019 00:00	09-02-2019 00:00
Z68.35	Hospital Discharge	08-29-2019 00:00	09-02-2019 00:00
Z82.3	Hospital Discharge	08-29-2019 00:00	09-02-2019 00:00
Z82.49	Hospital Discharge	08-29-2019 00:00	09-02-2019 00:00
Z83.3	Hospital Discharge	08-29-2019 00:00	09-02-2019 00:00
Z90.79	Hospital Discharge	08-29-2019 00:00	09-02-2019 00:00

Procedure Codes (CPT/ ICD9/ICD10)

Code	Type	Start Time	End Time
0D9670Z	Hospital Discharge	08-29-2019 00:00	09-02-2019 00:00

Table View
Preferences

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.

MPOG
MULTICENTER PERIOPERATIVE OUTCOMES GROUP

History and Physical

Chart
Record Search
Administrative
H&P
Outcomes
Labs

Procedure REPAIR UMBILICAL HERNIA > 5 YO STRANGULATED/INCARCERATED ASA Class 3

Assessment

Airway	*Airway - Mallampati Score -- Unspecified Exam Position*	II
	Airway - Hyoid to Mentum	>3 FB
Anesthetic Plan	*Assessment and Plan - Anesthesia Technique*	General

History

Past Medical History	*General - PONV Risk Factors*	1 Yes
	General - PONV Risk Total Score	2
	General - Past Medical History ICD-9 Code	ENDOCRINE HISTORY HYPERTENSION NOS MALIGN NEOPL PROSTATE UPPER GI SYSTEM HISTORY VASCULAR HISTORY
	General - Past Medical History ICD-10 Code	Oth abdominal hernia with obstruction, without gangrene
Past Surgical History	*General - Past Surgical History*	HEAD NECK SURGERY UROLOGIC SURGERY
Social History	*History - Social History - Tobacco Details Current vs Past*	1 Never Smoker

Medications

Home	*General - Medications - Home*	**ciprofloxacin 500 mg oral tablet** **docusate sodium 100 mg oral capsule** **Multiple Vitamins oral tablet**
Preop	*General - Medications Detail - Dose (numerical)*	1 1 1
	General - Medications Detail - Dose (unit of measure)	cap(s) tab(s) tab(s)
	General - Medications Detail - Route of Administration	oral oral oral
	General - Medications Detail - Frequency	BID once a day TID
	General - Medications Detail - Scheduled vs PRN	N N Y
	General - Medications Detail - Name	ciprofloxacin 500 mg oral tablet docusate sodium 100 mg oral capsule Multiple Vitamins oral tablet

Physical Exam

Preop Height	*Physical Exam - Height (cm)*	182.9 183
	Physical Exam - Height (in)	72 72.4
Preop Weight	*Physical Exam - Weight (kg)*	117.9

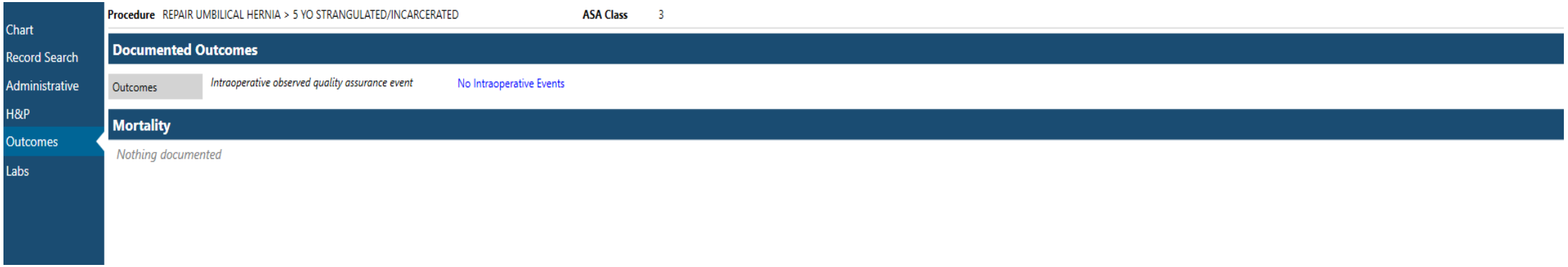
Table View
Preferences

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

MPOG
MULTICENTER PERIOPERATIVE OUTCOMES GROUP

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.



Labs

Chart
Record Search
Administrative
H&P
Outcomes
Labs

Procedure REPAIR UMBILICAL HERNIA > 5 YO STRANGULATED/INCARCERATED **ASA Class** 3

		06-03-2019 15:43	08-19-2019 17:19	08-28-2019 01:43	08-29-2019 10:10	12:27	08-30-2019 05:43	08-31-2019 05:42	09-01-2019 07:03	09:07	09-02-2019 05:01
Blood Bank	ABO/Rhesus (Rh) Factor									B Positive	
	Antibody Screen									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		
	Biliturbin, 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						2.2	2	2.1		
	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						
	Protrhombin Time (PT)		13.1		13.2				13.2		
Complete Blood Count	Hemaglobin (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		9.9
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

MPOG MULTICENTER PERIOPERATIVE OUTCOMES GROUP

Blood Bank	ABO/Rhesus (Rh) Factor								B Positive	
	Antibody Screen								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	
	Biliturbin, Total	0.6							1	
	Calcium	9.7	10.1	[illegible]	9.7		8.7	9.1	9.5	8.5
	Chloride	108	[illegible]	106	104		109	108	107	107
	Creatinine	[illegible]	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					
	Protrhombin Time (PT)		13.1		13.2					
Complete Blood Count	Hemaglobin (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*									

Time	Value	Mapped As
06-03-2019 15:43	91	Formal lab - Glucose, Serum/Plasma
08-19-2019 17:19	71	Formal lab - Glucose, Serum/Plasma
08-28-2019 01:43	105	Formal lab - Glucose, Serum/Plasma
08-29-2019 10:10	117	Formal lab - Glucose, Serum/Plasma
08-30-2019 05:43	98	Formal lab - Glucose, Serum/Plasma
08-31-2019 05:42	100	Formal lab - Glucose, Serum/Plasma
09-01-2019 07:03	93	Formal lab - Glucose, Serum/Plasma
09-02-2019 05:01	93	Formal lab - Glucose, Serum/Plasma

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

Chart
Record Search
Administrative
H&P
Outcomes
Labs

Procedure REPAIR UMBILICAL HERNIA > 5 YO STRANGULATED/INCARCERATED **ASA Class** 3

		06-03-2019 15:43	08-19-2019 17:19	08-28-2019 01:43	08-29-2019 10:10	12:27	08-30-2019 05:43	08-31-2019 05:42	09-01-2019 07:03	09:07	09-02-2019 05:01
Blood Bank	ABO/Rhesus (Rh) Factor									B Positive	
	Antibody Screen									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		
	Biliturbin, Total	0.6							1		
	Calcium	9.7	10.1	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	2.6				1.3		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	
	Protrhombin Time (PT)		13.1		13.2				13.2	12.9	
Complete Blood Count	Hemaglobin (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

MPOG
MULTICENTER PERIOPERATIVE OUTCOMES GROUP

Chart
Record Search
Administrative
H & P
Outcomes
Labs

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		HYDROmorph
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 M
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								ium
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								rolate
c6ffd0cb-b60c-eb11-910d-005056b4993c	07b7f25e-17fb-ea11-910c-005056b4993c	10315								mine
c7ffd0cb-b60c-eb11-910d-005056b4993c	07b7f25e-17fb-ea11-910c-005056b4993c	10335								etron (I
c8ffd0cb-b60c-eb11-910d-005056b4993c	07b7f25e-17fb-ea11-910c-005056b4993c	10219								orphor

Table View

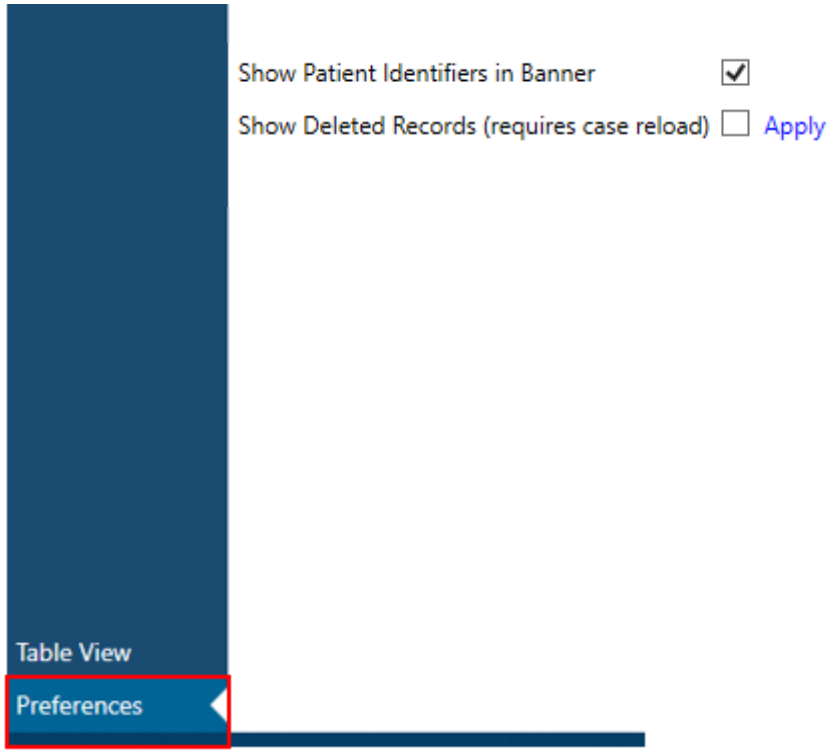
Table view displays all data submitted to MPOG central that was documented for a particular case regardless of if it was mapped to an MPOG concept or not. The dropdown menu allows to view data in specific storage tables.

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

Table View
Preferences

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