



Web Case Viewer



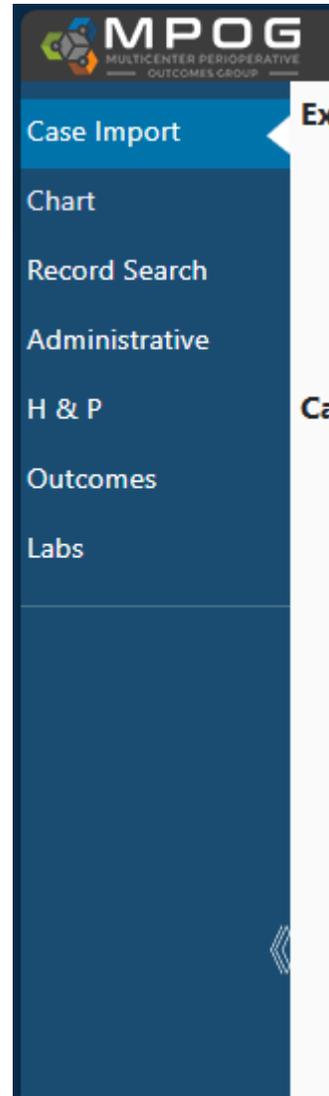
Web Case Viewer Overview

- The MPOG Web Case Viewer displays individual case data in a standardized way, similar to an anesthesia information management system (AIMS) but not specific to the electronic health record used by the participating site.
- All providers with an active MPOG account (i.e. receiving monthly Provider Feedback emails) will have access to the Web Case Viewer to review their own cases
- Access may also be granted to researchers reviewing cases for an approved PCRC project or to external quality leaders supporting measure development.
 - To request this access, please submit this [form](#) for MPOG Coordinating Center review. MPOG may contact your site's leadership to confirm requested access is appropriate.

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- [Case Import](#)
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- [Record Search](#)
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Navigation

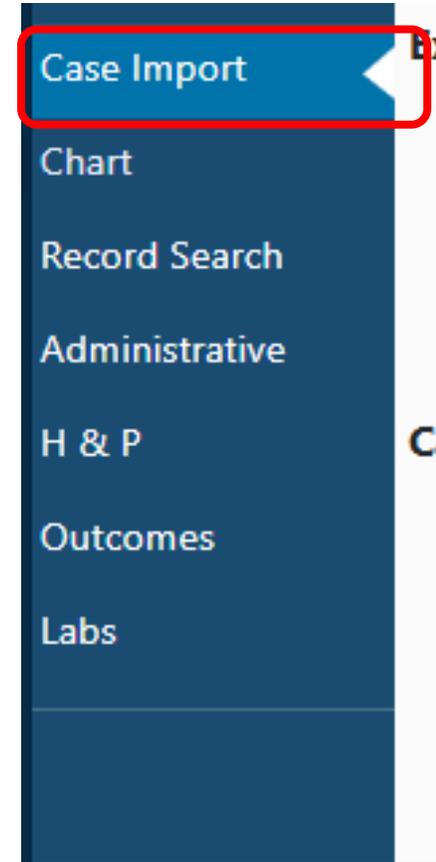


Use the left panel to select and view different sections of the record:

- Case Import
- Chart
- Record Search
- Administrative
- H&P
- Outcomes
- Labs

The active view is highlighted in a lighter blue

Case Import



Case Import Tab

MPOG
MULTICENTER PERIOPERATIVE
OUTCOMES GROUP

Case Import

Excel / CSV Import Templates:

Please select .xlsx or .csv file

Case List Import (up to 100 cases)

Paste a list of MPOG Case ID, with one case per line

Import Results

From the Case Import tab, you can load multiple cases via two methods:

1. Import an Excel or CSV File*

*Ensure the MPOG Case ID is listed in the first column of the file.

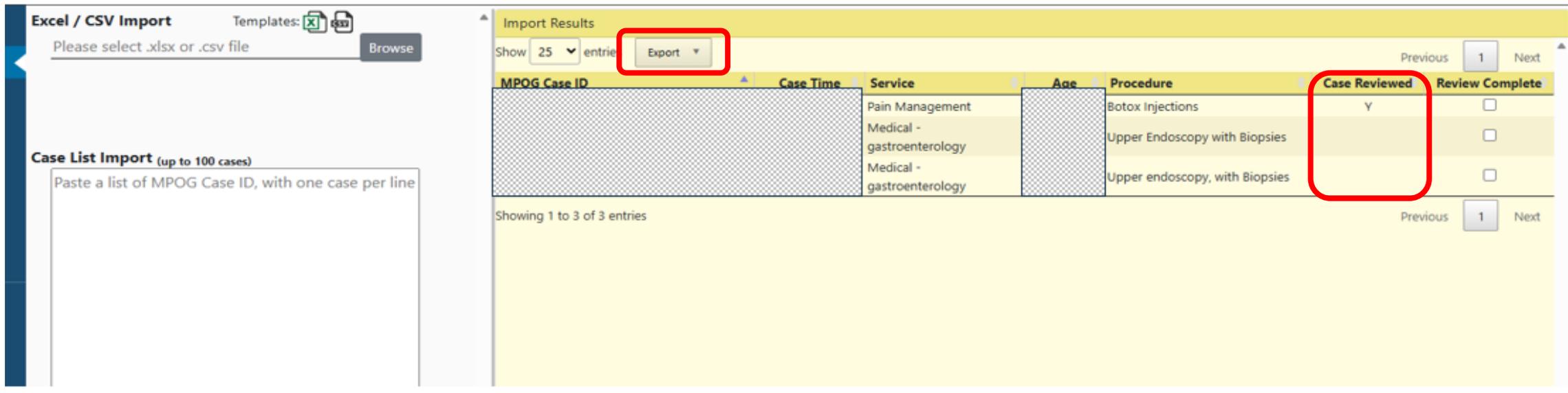
- Select 'Browse'
- Choose the file from your local drive
- Click 'Import' to load the case list

2. Paste Case IDs directly into Case List Import window:

- Copy the MPOG Case IDs
- Paste them into the text box provided: one case ID per line
- Select 'Import' to load cases

Case Import – Import Results

- Once cases are imported, they will appear in the “Import Results” panel on the right
- Clicking on the individual case row will open the case in Chart View
- After reviewing the case, it will automatically mark the case as “reviewed”
 - Users can export information that includes the case-reviewed column, enabling them to re-import the file later and resume their work from the same point.



The screenshot displays the 'Excel / CSV Import' interface. On the left, there is a 'Case List Import' section with a text area for pasting MPOG Case IDs. The main area is the 'Import Results' panel, which includes a table of imported cases. The table has columns for MPOG Case ID, Case Time, Service, Age, Procedure, Case Reviewed, and Review Complete. The 'Case Reviewed' column shows 'Y' for the first row. An 'Export' button is highlighted with a red box, and the 'Case Reviewed' column is also highlighted with a red box. The table shows three entries, with the first one being 'Pain Management' for 'Botox Injections'.

MPOG Case ID	Case Time	Service	Age	Procedure	Case Reviewed	Review Complete
		Pain Management		Botox Injections	Y	<input type="checkbox"/>
		Medical - gastroenterology		Upper Endoscopy with Biopsies		<input type="checkbox"/>
		Medical - gastroenterology		Upper endoscopy, with Biopsies		<input type="checkbox"/>

Case Import – Chart View



- Once case is opened in 'Chart' view, a page count* will appear at the bottom of the menu pane
- This allows the user to move through each imported case without having to return to the 'Case Import' tab
- Open sections persist when switching between cases
 - Ex. If the 'Administrative' tab is open for case #1 and the user moves to next case, the 'Administrative' tab will remain open for the next case.

*Page count only appears if multiple cases are loaded through the case import function

Chart View

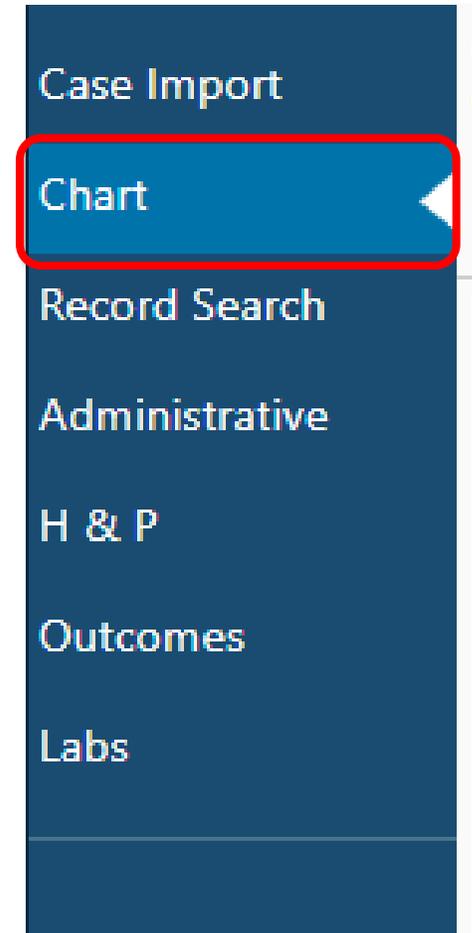


Chart View – Demographics

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

- MPOG Case ID
- Anesthesia Date*/Time
- Institution*
- Procedure
- Patient demographics (Age/Sex/Race)
- Height/Weight
- ASA Class
- Surgical Service
- Admission Status
- Room Name*
- Date of Death (if known)

*If accessing data from outside home institution, this information is hidden (dates will only display year)

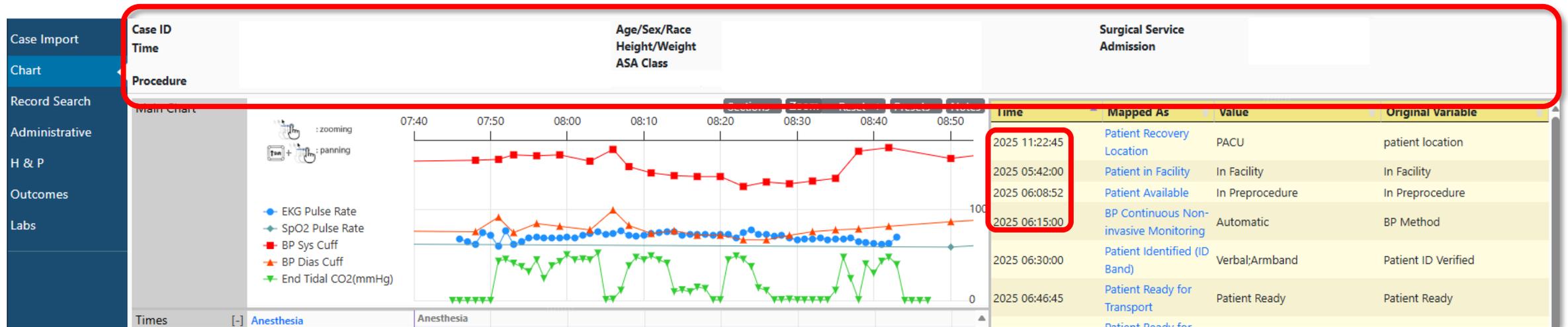


Chart View – Physiologic Data

- 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

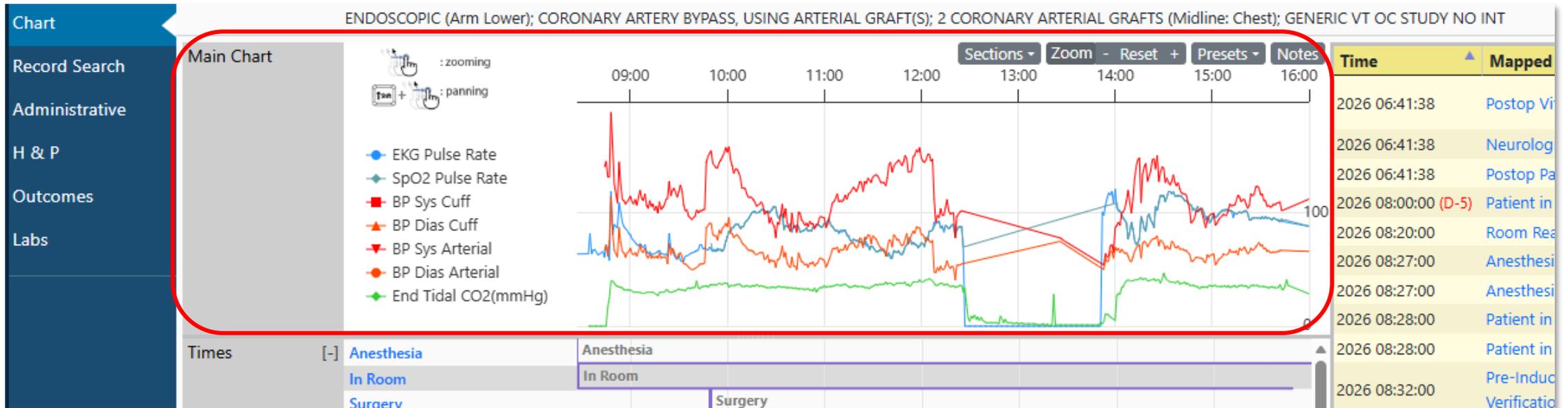
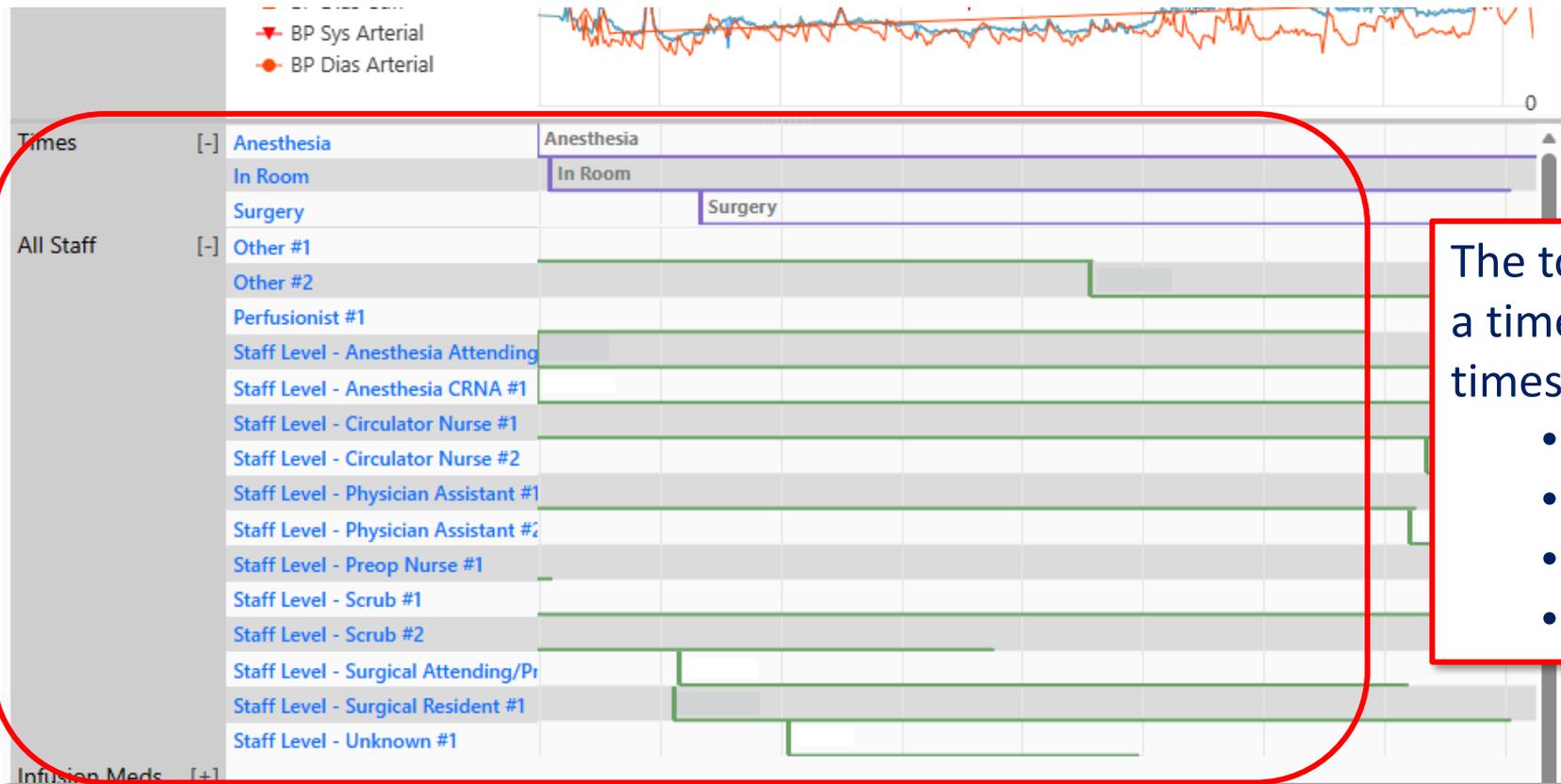


Chart View – Navigating Graph

Hover mouse over the graph to see details



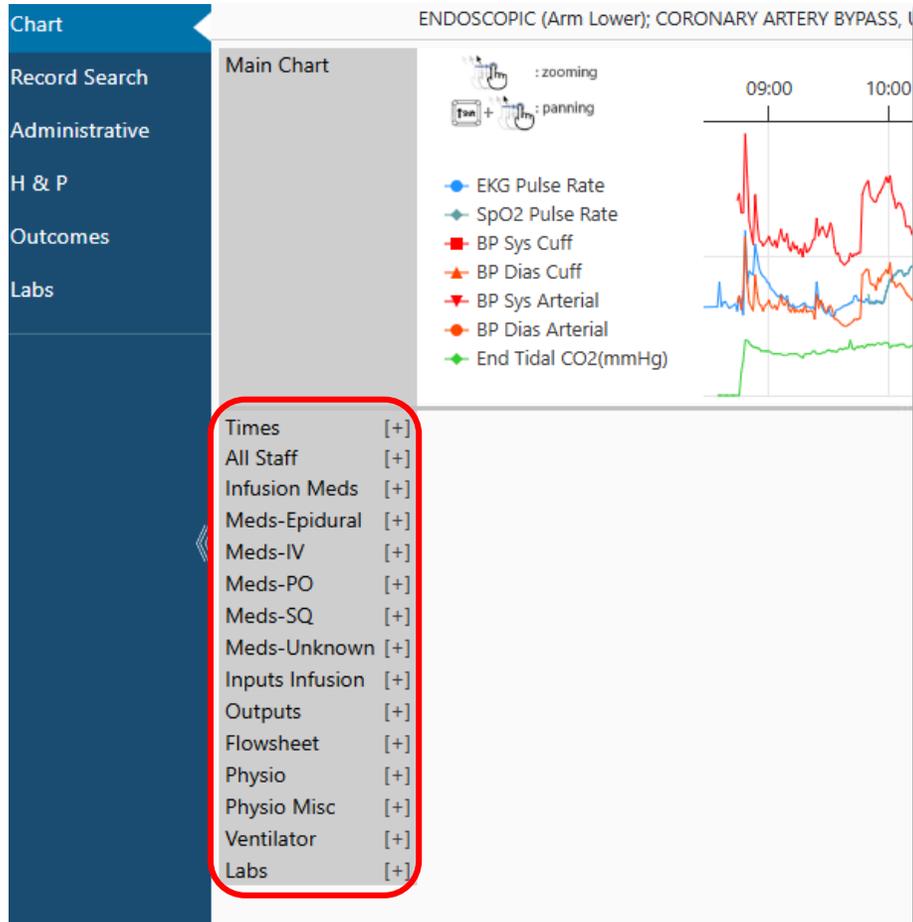
Chart View – Timeline and Staff Sections



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

Chart View – Other Sections



The grey column to the left divides the case into the following sections:

- Meds – separated by route (IV, IM, SQ, PO, Transdermal, Infusion, Epidural, etc.)
- Inputs
- Outputs
- Physiologic
- Ventilator
- Flowsheet
- Labs

These sections are collapsed by default but can be expanded by clicking on the [+].

Chart View – Adjusting View

- Information in the chart is organized to align with the chronological timeline displayed across the top.
- To view additional details, use the Zoom Out/In buttons in the upper-right corner.

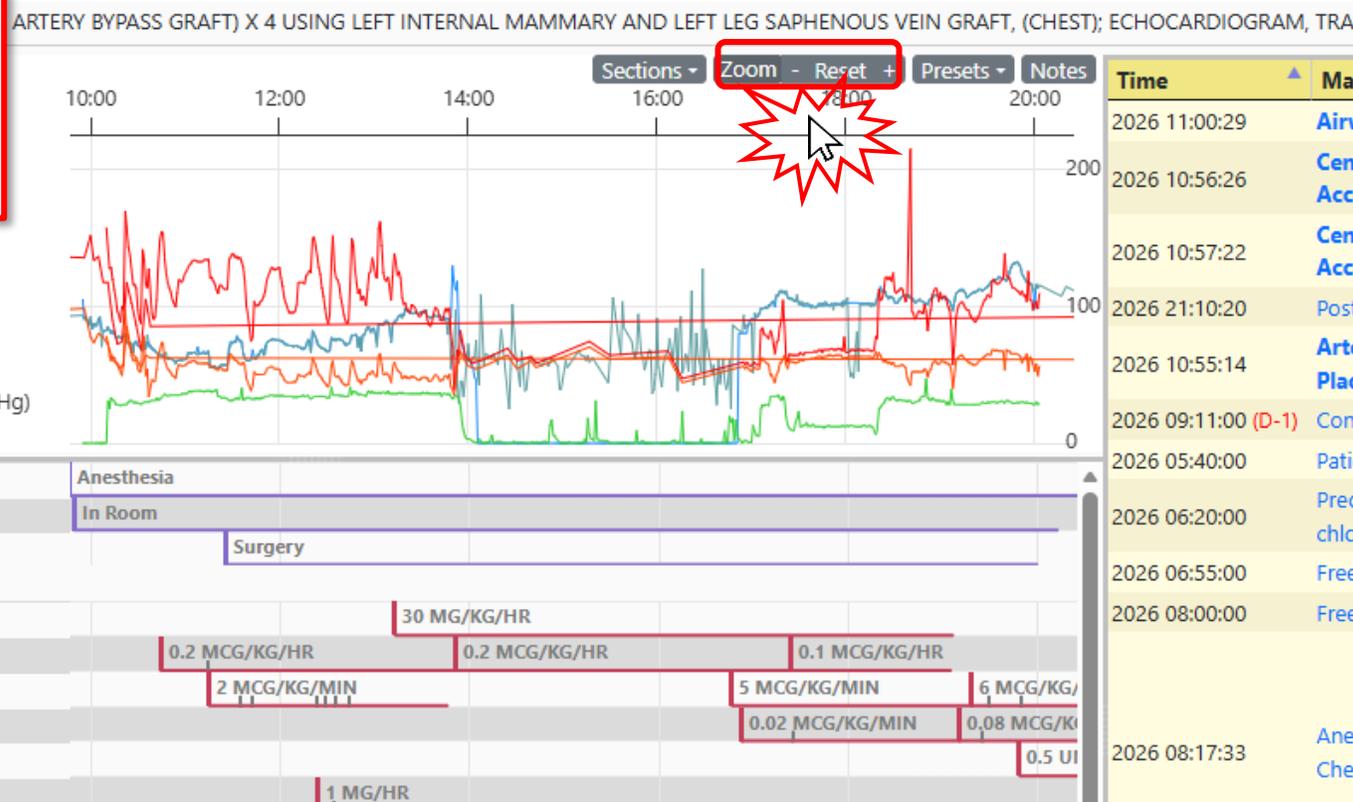


Chart View – Zoom In/Out



Click and drag left or right in the chart to zoom in on that section



Chart View – Changing the Timeline

Main Chart

- zooming
- panning
- EKG Pulse Rate
- SpO2 Pulse Rate
- BP Sys Cuff
- BP Dias Cuff
- BP Sys Arterial
- BP Dias Arterial
- End Tidal CO2(mmHg)

10:00 12:00 14:00 16:00 18:00 20:00

Time

2026 11
2026 10
2026 10
2026 21

↑ Shift

Main Chart

- zooming
- panning
- EKG Pulse Rate
- SpO2 Pulse Rate
- BP Sys Cuff
- BP Dias Cuff
- BP Sys Arterial
- BP Dias Arterial
- End Tidal CO2(mmHg)

20:00 22:00 00:00 02:00 04:00 06:00

Time

2026 11:00:29
2026 10:56:26
2026 10:57:22
2026 21:10:20
2026 10:55:14
2026 09:11:00
(D-1)
2026 05:40:00
2026 06:20:00
2026 06:55:00
2026 08:00:00

Times [-] Anesthesia Anesthesia
In Room In Room
Surgery Surgery

All Staff [+]

Infusion Meds [-] AMINOCAPROIC ACID
DEXMEDETOMIDINE 0.2 MCG/KG/HR
DOBUTAMINE 2 MCG/KG/MIN 3
EPINEPHRINE

AMINOCAPROIC ACID
DEXMEDETOMIDINE
DOBUTAMINE 7 MCG/KG/MIN
EPINEPHRINE 0.09 MCG/KG/MIN 0.08 MCG/KG/MIN 0.07 MCG/KG/MIN 0.06 MCG/KG/MIN
INSULIN REGULAR 0.5 UNITS/HR 3 UNITS/HR 6 UNITS/HR

To view times that fall outside the visible graph range, hold the Shift key and click-and-drag within the top graph to pan left or right.

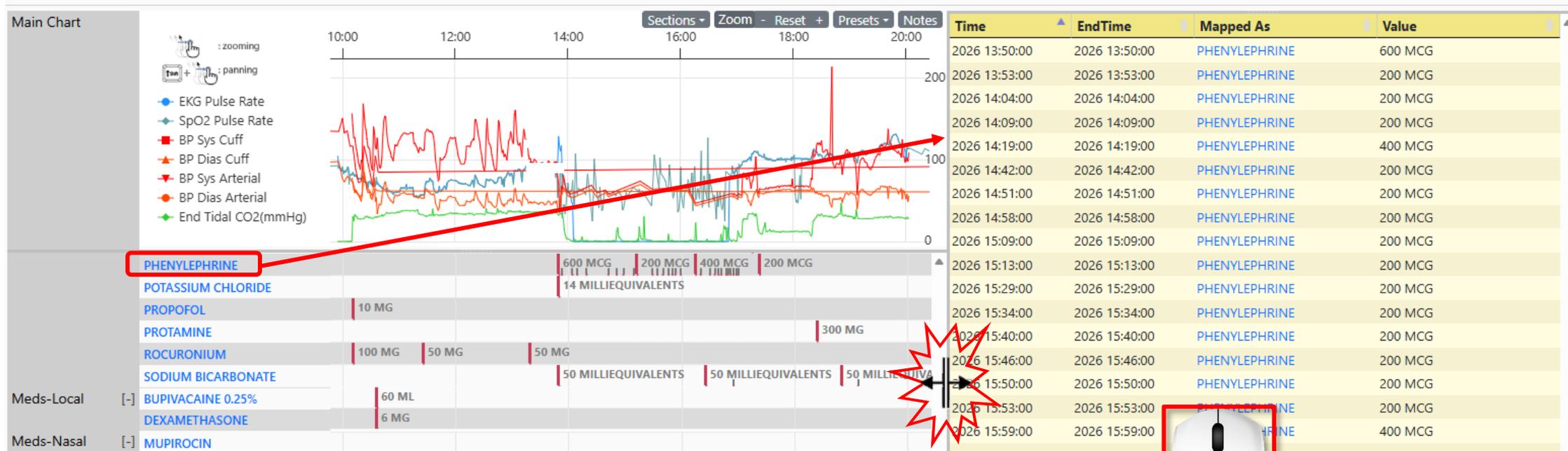
Chart View – Notes Panel

- The side panel can help users review notes in chronological order, providing a layout similar to certain EHR systems.
- To reopen the notes panel at any time, select the Notes shortcut in the upper-right corner

EIN GRAFT, (CHEST); ECHOCARDIOGRAM, TRANSESOPHAGEAL INTRAOPERATIVE

Time	Mapped As	Value	Original Variable
2026 11:00:29	Airway Type	Airway/Intubation	Airway/Intubation
2026 10:56:26	Central Venous IV Access Placed	Central Line	Central Line
2026 10:57:22	Central Venous IV Access Placed	Central Line	Central Line
2026 21:10:20	Postop Status	sedated	post-procedure mental status
2026 10:55:14	Arterial Line Placed	Arterial Line	Arterial Line
2026 09:11:00 (D-1)	Consent Confirmed	Anesthesia Consent Complete	Anesthesia Consent Complete
2026 05:40:00	Patient Available	Patient in Pre-op	Patient in Pre-op
2026 06:20:00	Preop Bathing - chlorhexidine	Night before surgery and [PHI] of surgery	Patient reports chlorhexidine bath done X2?
2026 06:55:00	Free Text Note	Quick Note	Quick Note
2026 08:00:00	Free Text Note	Quick Note	Quick Note
2026 08:17:33	Anesthesia Machine Checked	Anesthesia apparatus checked;Pulse Oximeter;O2 Analyzer;Capnometer;Ventilator;Nerve Stimulator;Forced-air Warming;Gas Humidifier;Fluids Warmer;Infusion Pump;TEE;Processed EEG	Anesthesia Checklist
2026 08:17:33	Device or Equipment (Misc)	Machine Checked;Patient Identified;Preop Reviewed	Checklist
2026 08:44:00	Perfusion Start	Perfusion Start	Perfusion Start
2026 08:55:00	Free Text Note	Quick Note	Quick Note
2026 09:45:00	Patient Ready for Transport	Patient Ready for OR/Proc	Patient Ready for OR/Proc
2026 09:47:00	Anesthesia Start	Anesthesia Start	Anesthesia Start
2026 09:50:00	Patient in Room	Patient in OR/Proc	Patient in OR/Proc

Chart View – Notes Panel (continued)



- Any of the section headers that are blue can be clicked and the information will be expanded on the right
- The side panel can be resized by hovering over the border, and dragging the mouse in either direction as needed



Chart View – Notes Panel (continued)

Columns can be sorted in ascending or descending order by clicking on the arrows in the corresponding column header

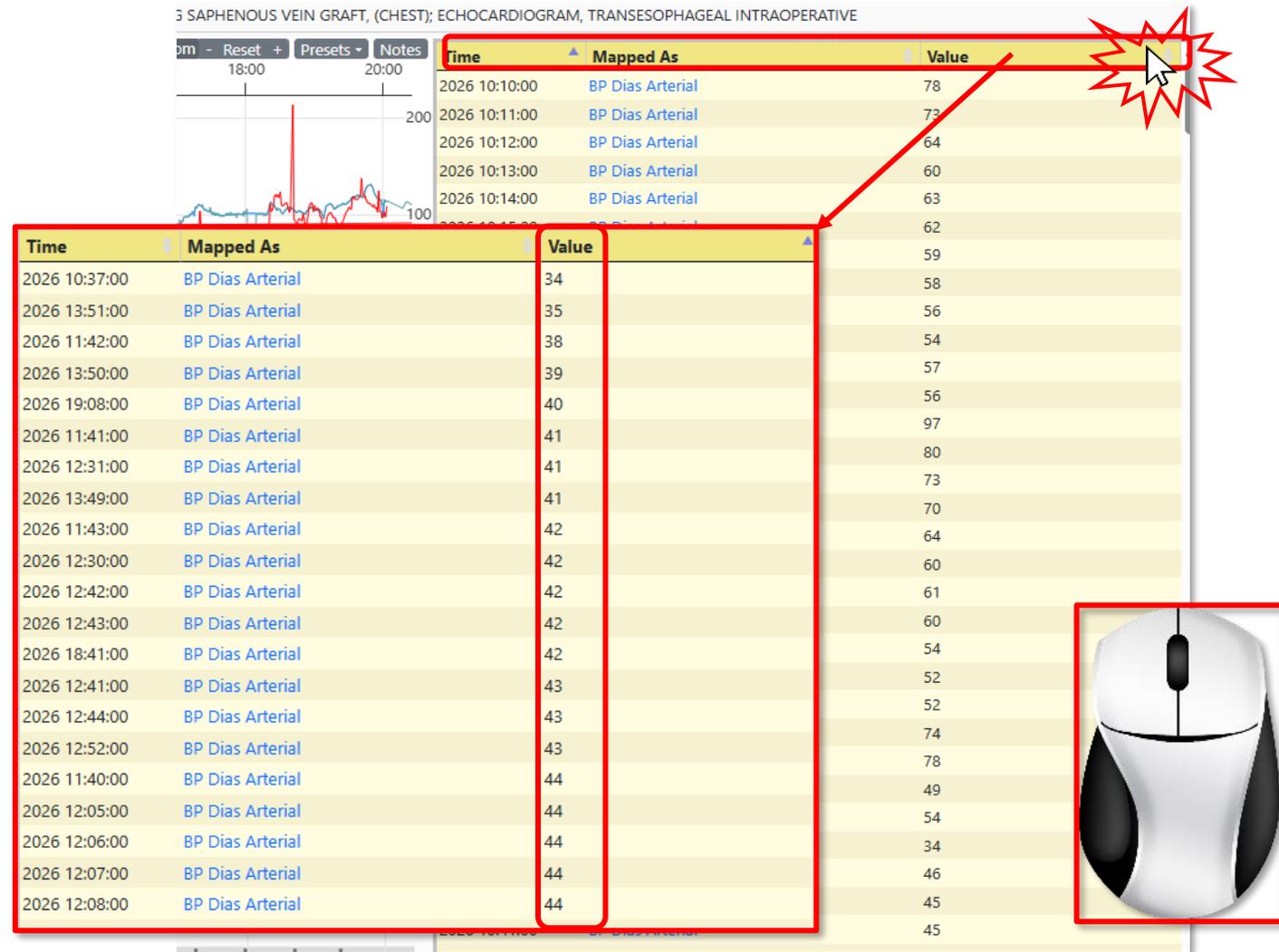


Chart View – Notes Panel (continued)

- Users can expand the note by clicking the blue text in the right-side panel.
 - This opens a gray-and-white panel below the yellow note section.
 - This panel can be resized by hovering between panels and dragging the dividing line.
- In the yellow panel, a light red highlight indicates which row is expanded below.

AFT, (CHEST); ECHOCARDIOGRAM, TRANSESOPHAGEAL INTRAOPERATIVE

Time	Mapped As	Value	Original Variable
2026 11:00:29	Airway Type	Airway/Intubation	Airway/Intubation
2026 10:56:26	Central Venous IV Access Placed	Central Line	Central Line
2026 10:57:22	Central Venous IV Access Placed	Central Line	Central Line
2026 21:10:20	Postop Status	sedated	post-procedure mental status
2026 10:55:14	Arterial Line Placed	Arterial Line	Arterial Line
2026 09:11:00 (D-1)	Consent Confirmed	Anesthesia Consent Complete	Anesthesia Consent Complete
2026 05:40:00	Patient Available	Patient in Pre-op	Patient in Pre-op
2026 06:20:00	Preop Bathing - chlorhexidine	Night before surgery and [PHI] of surgery	Patient reports chlorhexidine bath done X2?
2026 06:55:00	Free Text Note	Quick Note	Quick Note
2026 08:00:00	Free Text Note	Quick Note	Quick Note
2026 08:17:33	Anesthesia Machine Checked	Anesthesia apparatus checked;Pulse Oximeter;O2 Analyzer;Capnometer;Ventilator;Nerve Stimulator;Pforced-air	Anesthesia Checklist

Intraop Note

Concept	Preop Bathing - chlorhexidine
Value	Night before surgery and [PHI] of surgery
Observed Time	2026 06:20:00
Entered Time	2026 06:22:24
Variable Mappings [-]	
Type	Note
MPOG Concept	50228 Preop Bathing
AIMS Variable	FLO- Patient reports ch... bath done X2?
	3300091000

Chart View – Notes Panel (continued)

From the expanded note view, users can see the MPOG Concept ID and corresponding AIMS variable*.

* This can be helpful for identifying potential incorrect mappings.

Users can navigate through the notes by clicking on the arrows on the top right of the note detail box

- ◀ Go to first note
- ◀ Go to previous note in the list
- ▲ Go to parent note (disabled if not associated with parent note)
- ▶ Go to next note in the list
- ▶ Go to final note
- ⓧ Close window

Time	Mapped As	Value	Original Variable
2022 14:00:00 (D-6)	IV Access (Misc)	20 G Orientation: Right Location: Antecubital Created/Inserted by: placed by procedural nurse Removal Date/Time: XX/XX/22 1736 Placement Date/Time: XX/XX/22 1642 Size (Gauge):	Peripheral IV
2022 16:42:00 (D-6)	IV Access (Misc)	20 G Orientation: Left Location: Peripheral IV Antecubital Site Prep: Chlorhexidine Patient Tolerance: Tolerated well	
2022 07:03:00	NPO Status	Yes	Patient NPO
2022 07:03:00	Preop Bathing - chlorhexidine	Yes	Chlorhexidine Skin Cleansing/Treatment

Concept	Value
NPO status	Yes
Observed Time	2022 07:03:00
Entered Time	2022 07:13:02

Variable Mappings [-]	Type	Note
MPOG Concept	50194	NPO status
AIMS Variable	FLO-30412301821	Patient NPO

Chart View – Notes Panel (continued)

- **When applicable**, the note entered time is available in the expanded note view 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

Time	Mapped As	Value	Original Variable
2022 14:00:00 (D-6)	IV Access (Misc)	20 G Orientation: Right Location: Antecubital Created/Inserted by: placed by procedural nurse Removal Date/Time: XX/XX/22 1736 Placement Date/Time: XX/XX/22 1642 Size (Gauge):	Peripheral IV
2022 16:42:00 (D-6)	IV Access (Misc)	20 G Orientation: Left Location: Peripheral IV Antecubital Site Prep: Chlorhexidine Patient Tolerance: Tolerated well	
2022 07:03:00	NPO Status	Yes	Patient NPO
2022 07:03:00	Preop Bathing - chlorhexidine	Yes	Chlorhexidine Skin Cleansing/Treatment

Intraop Note		
Concept	NPO status	
Value	Yes	
Observed Time	2022 07:03:00	
Entered Time	2022 07:12:02	
Variable Mappings [-]		
Type	Note	
MPOG Concept	50194	NPO status
AIMS Variable	FLO-30412301821	Patient NPO

Chart View – Parent/Child Notes

Time	Mapped As	Value	Original Variable
2022 16:27:05	Airway Type	Airway-airway interventions	Airway-airway interventions
2022 16:25:10	Arterial Line Placed	Arterial Line	Arterial Line
2022 16:25:44	Central Venous/Pulmonary Artery Catheter Placed	Central Line/PA Catheter Placement	Central Line/PA Catheter Placement
2022 09:33:36	Neurologic Status	awake and alert	post-procedure mental status
2022 09:33:36	Patient Recovery Location	Patient unit	patient location
2022 13:06:00 (D-6)	Patient in Facility	In Facility	In Facility
2022 14:00:00 (D-6)	IV Access (Misc)	Removal Date/Time: XX/XX/22 1735 Placement Date/Time: XX/XX/22 1400 Size (Gauge): 20 G Orientation: Right Location: Antecubital Created/Inserted by: placed by procedural nurse Removal Date/Time: XX/XX/22 1736	Peripheral IV

Concept	Value
Misc - IV access	Removal Date/Time: XX/XX/22 1735 Placement Date/Time: XX/XX/22 1400 Size (Gauge): 20 G Orientation: Right Location: Antecubital Created/Inserted by: placed by procedural nurse
Observed Time	2022 14:00:00

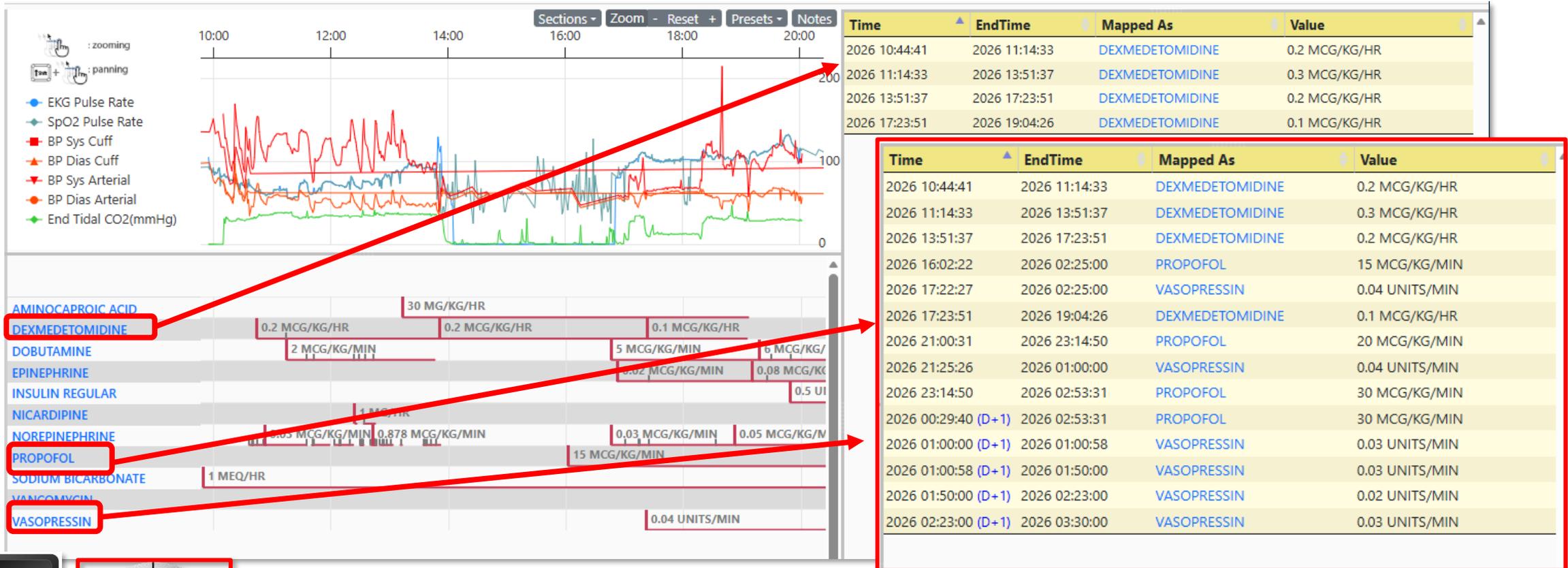
Concept	Original Variable	Value
Unspecified needle diameter (gauge)	Size (Gauge)	20 G
Categorized note - Lines, tubes, and drains	Location	Antecubital
Categorized note - Lines, tubes, and drains	Dressing Status	Clean;Dry;Intact
Categorized note - Lines, tubes, and drains	Orientation	Right
Categorized note - Lines, tubes, and drains	Line Status	Infusing
Physical Exam - Integument	Line Site Assessment	Clean;Dry;Intact

- Bold notes are “parent” notes and have associated “child” detail notes. Clicking on a bolded note will provide the additional details
- The original variable as well as the value are displayed in the note details
- Clicking on the blue text within the details will bring the user to the values associated with the note



Concept	Value
Unspecified needle diameter (gauge)	20 G
Observed Time	2022 14:00:00
Value Code	304610
Variable Mappings	[+]

Chart View – Medication Notes



To add additional items to the side bar view, press and hold 'Shift' on the keyboard and select the additional items to add

Infusion vs. Non-Infusion Administrations

- If an end time is not populated, infusion dose will continue until the start time of the next administration for the same medication.
- If an end time is not populated and there is not an additional administration, the infusion will continue until anesthesia end time.
- If the infusion start time is after anesthesia end and there is no documented infusion end time, it will default to 5 minutes later.

Time	EndTime	Mapped As	Value
2026 13:37:00	2026 14:06:00	INSULIN REGULAR	2 UNITS/HR
2026 14:06:00	2026 16:00:00	INSULIN REGULAR	4 UNITS/HR

Time	Mapped As	Value
2026 08:27:00	Anesthesia Start	Anesthesia Start
2026 16:00:00	Anesthesia End	Anesthesia End

Definitions:

- **Infusion:** If the administered unit is mapped to a concept that is over time (i.e., mcg/kg/min).
- **Bolus:** If the administered unit is mapped to a concept that is not over time (i.e., mcg)

Time	EndTime	Mapped As	Value
2026 08:46:00	2026 08:46:00	PROPOFOL	50000 MCG
2026 08:47:00	2026 08:47:00	PROPOFOL	50000 MCG
2026 08:50:00	2026 08:50:00	PROPOFOL	50000 MCG
2026 09:25:00	2026 10:01:00	PROPOFOL	100 MCG/KG/MIN
2026 10:01:00	2026 10:15:00	PROPOFOL	125 MCG/KG/MIN

Chart View – Adding Sections

Sections Menu:

- Upper right-hand corner
- Add and remove sections from the body of the chart as needed
- See next page for MPOG measure related sections

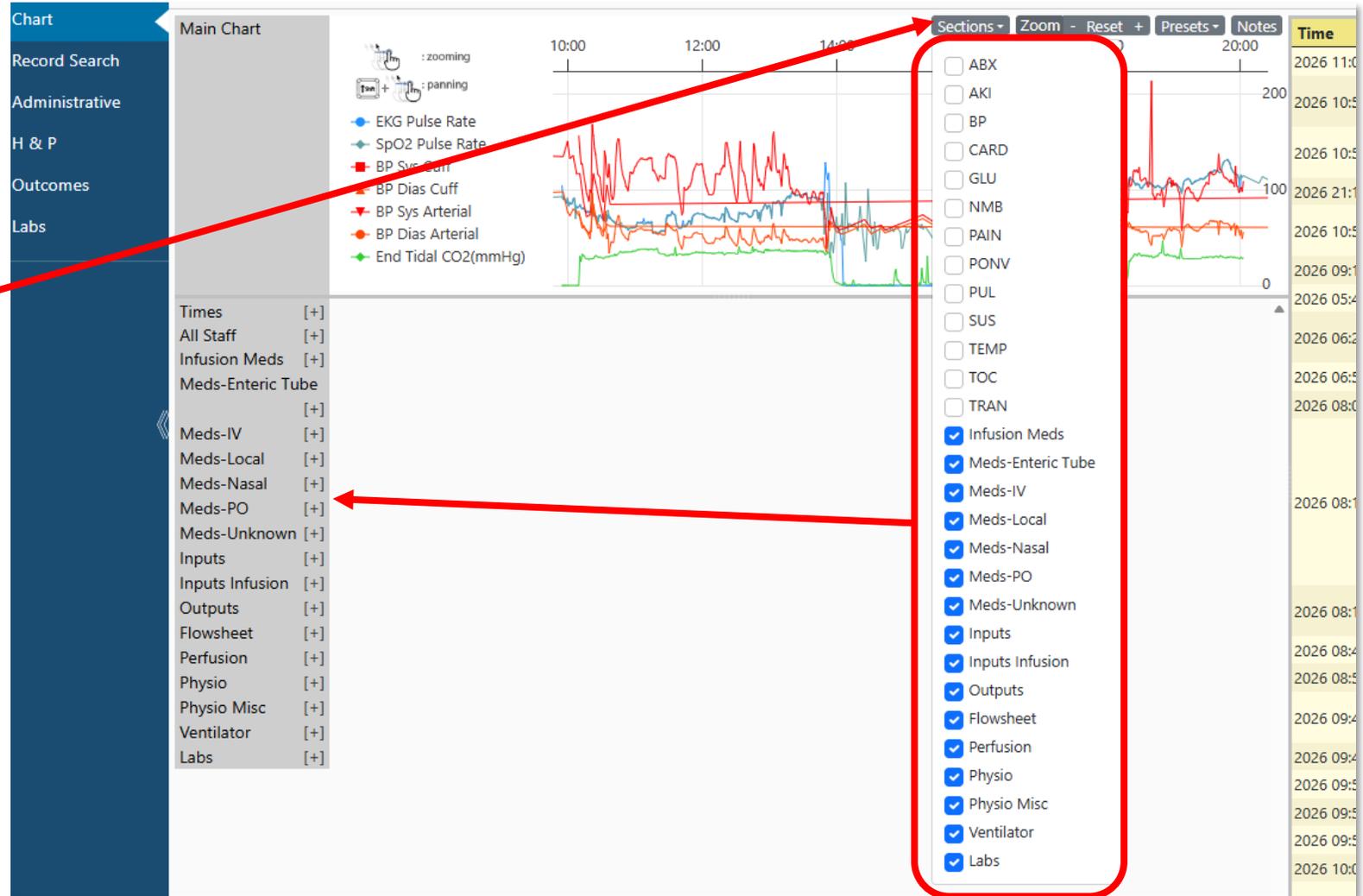


Chart View – Measure Review



- Selecting an MPOG measure-related section adds a new chart section that includes all relevant concepts for the selected measure category.
- For example, the PONV section summarizes PONV relevant information such as anti-emetics given, anesthetic gases used, PONV and smoking history to assist the user in assessing PONV risk factors.

Chart View – Measure Review

BP-05: Low MAP Avoidance < 55, Induction [More Info](#)

Percentage of patients where severe hypotension during anesthesia induction (defined as

[Case Report Download](#)

Show entries

View Case	Measure Result	Date of Service	Operating Room	Surgical Service	Procedure
View Case	Failed	01/31/2026 17:00	UH IR INTVL RADIOLOGY 05	Radiology - Unspecified	(Actual)IR Vascular Embolization; IR Ultrasound Vascular Guidance

Measure Details - BP05

Low MAP Encountered (<=55)	Yes 17:48	Failed
Is Valid Case	Yes	Included
Patient Age	90	Included
Baseline MAP	65	Included
ASA Class	4	Included
Labor Epidural	No	Included
Anesthesia CPT	01924 (Predicted)	Included
Anesthesia CPT	01926 (Predicted)	Included
Anesthesia CPT	01930 (Predicted)	Included
Valid Measure Duration	Yes	Included
Any BP Taken	Yes	Included

-- Additional Information --

Measure End 2026-01-31 18:09

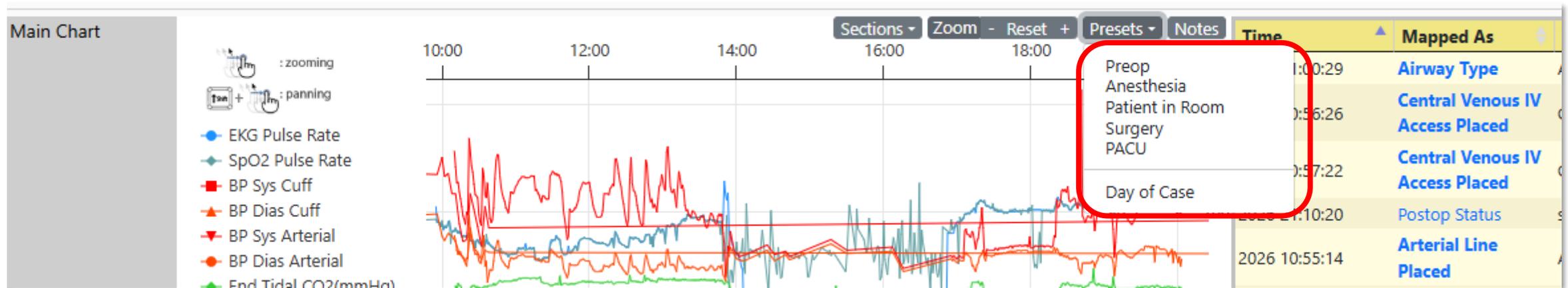
Time of Low MAP 17:48:00 (Duration: 1, MAP: 50, Type: Arterial Line (Invasive,

Time	Mapped As	Value	Original Variable
01/31/2026 17:51:58	Airway Type	Airway	Airway

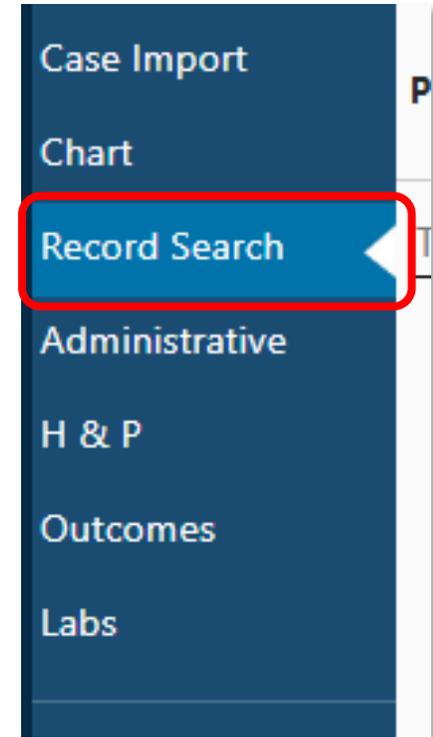
- Selecting “View Case” from the MPOG QI Reporting Tool case list automatically launches chart view in Web Case Viewer, showing measure details above the notes view on the right-hand side.

Chart View – Presets

The “Preset” menu in the upper right corner allows the user to navigate to preset views of the chart based on time period.



Record Search



Record Search Tab

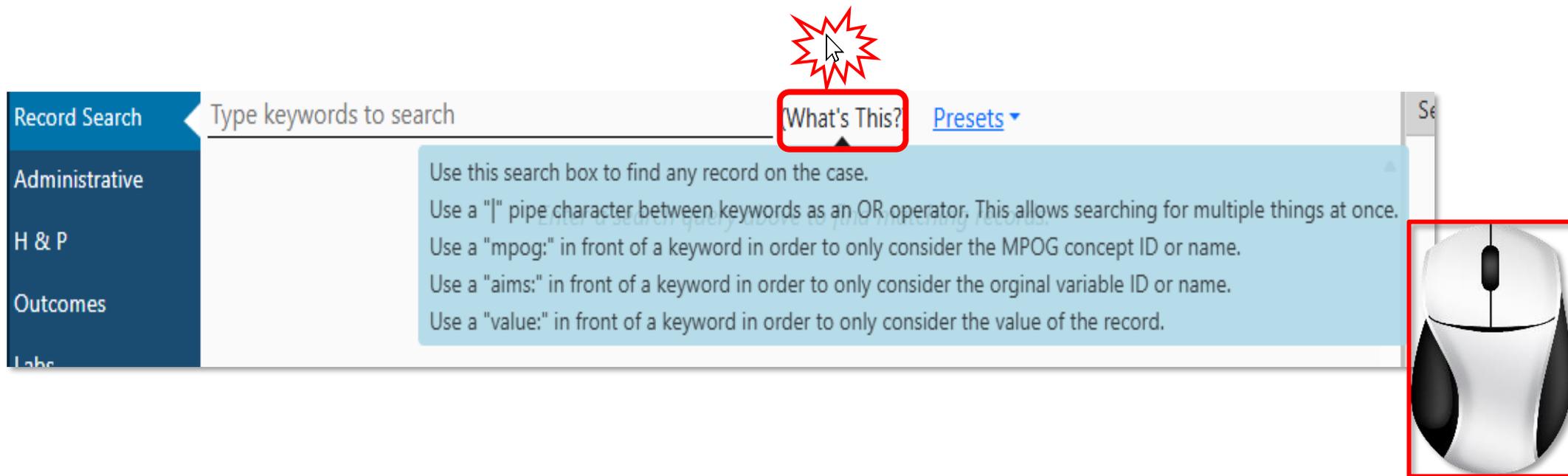
- Utilize 'Record Search' to customize a search string to locate relevant information from the chart to aide in your research or quality measure review
- Search relevant information by MPOG Concept ID, original variable ID, or keyword

The screenshot shows a web application interface with a dark blue sidebar on the left containing menu items: Case Import, Chart, Record Search (highlighted with a red box), Administrative, H & P, Outcomes, and Labs. The main content area has a light gray header with filter categories: Case ID, Time, Procedure, Age/Sex/Race, Height/Weight, and ASA Class. Below the header is a search bar with the placeholder text 'Type keywords to search' and links for '(What's This?)' and 'Presets'. The main area contains the instruction 'Enter a search query above to find matching records.' On the right side, there is a 'Selected Items' panel which is currently empty.

Record Search – Tips

For help, hover mouse over “(What’s This?)” to show this information:

- Use “mpog:” in front of a keyword to only consider the MPOG concept ID or name (e.g., mpog:50002)
- Use “aims:” in front of a keyword to only consider the original variable ID or name (e.g., aims:Flo-5)
- Use “value:” in front of a keyword to only consider the value of the record (e.g., value:yes)



The screenshot shows a search interface with a sidebar on the left containing menu items: Record Search, Administrative, H & P, Outcomes, and Labs. The main search area has a text input field with the placeholder "Type keywords to search". To the right of the input field is a "What's This?" link, which is highlighted with a red box and a red starburst icon. Further right is a "Presets" dropdown menu. A light blue tooltip is displayed below the "What's This?" link, containing the following text: "Use this search box to find any record on the case.", "Use a '|' pipe character between keywords as an OR operator. This allows searching for multiple things at once.", "Use a 'mpog:' in front of a keyword in order to only consider the MPOG concept ID or name.", "Use a 'aims:' in front of a keyword in order to only consider the original variable ID or name.", and "Use a 'value:' in front of a keyword in order to only consider the value of the record." To the right of the tooltip is a white computer mouse icon, also highlighted with a red box.

Record Search – Strings

Example:

- Search for multiple terms/variables at the same time using either a comma (,) or a pipe '|' symbol between variables
 - Hint: | is found on the same key as \; use  +  to add a pipe (|)
- 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 in the search box will undo searches in record search



The screenshot shows a search interface with a search bar containing the query "50002 | 50003 | Propofol | lactated ringers". Below the search bar, there is a filter for "2026 (day of surgery)". The results are displayed in a table with columns for time, description, and action.

Time	Description	Action
08:27	AACD Anesthesia Start Date/Time	Anesthesia Start +
08:27	AACD Anesthesia Start Date/Time	Anesthesia Start +
08:28	AACD Patient In Room Date/Time	In Room +

Record Search – Presets

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 selected preset category.

Record Search Type keywords to search (What's This?) Presets

Enter a search query above to find mat

PAIN
PONV
GLU
NMB
TRAN
TEMP
BP
CARD
AKI
PUL
SUS
ABX
TOC
LMA
ETT
General
Sedation
Obstetrics
Neuraxial

Record Search 10796|10797|3426|3361|3362|3405|5003|5036|10152|101 (What's This?) Presets Jump to surgery

Category	Time	Description	Value	Action
Administrative	2024 (715 days before surgery)			
H & P	08:44	Formal lab - Glucose, Serum/Plasma (mg/dL)	91	+
Outcomes	08:44	Unknown Concept	10.6	+
Outcomes	08:44	Unknown Concept	3.6	+
Labs	2026 (5 days before surgery)			
Labs	08:00	AACD Patient In Facility Date/Time	In Facility	+
Labs	08:17	Formal lab - Glucose, Serum/Plasma (mg/dL)	103	+
Labs	2026 (4 days before surgery)			
Labs	05:57	Formal lab - Glucose, Serum/Plasma (mg/dL)	90	+
Labs	2026 (3 days before surgery)			
Labs	04:32	Formal lab - Glucose, Serum/Plasma (mg/dL)	84	+
Labs	2026 (2 days before surgery)			
Labs	07:18	Formal lab - Glucose, Serum/Plasma (mg/dL)	83	+
Labs	2026 (1 day before surgery)			
Labs	10:00	Formal lab - Glucose, Serum/Plasma (mg/dL)	100	+



Record Search – Search String Examples

- Example search strings for flagged case review. Copy and paste into “Record Search.” This information can also be found under 'Presets' in the Chart Section. Presets are updated during the MPOG Suite Upgrades. If you are reviewing data and the preset doesn't exist, you can reach out to the Coordinating Center for the search string to use.

- **Glucose Measures:**

Glucose, insulin, anesthesia start, anesthesia End, dextrose, diabetes, 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

- **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 | 3415 \ 3435 | 3440 | 3450 | 5005 | 5006 | 5038 | 5080 | 5081 | 10489 | 10490 | 10492 | 10493 | 10494 | 10496 | 10499 | 10616 | 10617 | 10618 | 10658 | 10660 | 10661 | 10017 | 10018 | 10557 | 10454 | 10456 | 10457 | 10354 | 10176 | 10326 | 10175 | 10445 | 10145 | 3502 | 3504 | 3505 | 3510

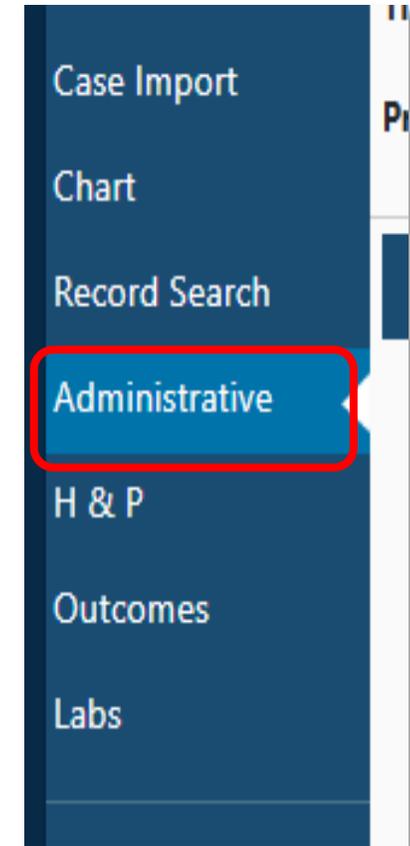
Record Search – Changing the View

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

The screenshot displays a search results table with the following data:

Year	Time	Event	Value	Action
2022 (782 days before surgery)		AACD Recovery Room Out Date/Time	Yes	+
2023 (578 days before surgery)	11:41	Formal lab - Platelets	272	+
2023 (542 days before surgery)	10:07	Formal lab - Glucose, Serum/Plasma (mg/dL)	79	+
2023 (542 days before surgery)	10:07	Formal lab - Platelets	251	+
2023 (542 days before surgery)	14:48	Formal lab - Glucose, Serum/Plasma (mg/dL)	81	+
2024 (382 days before surgery)				
2024 (374 days before surgery)	09:12	Formal lab -		
2025 (day of surgery)	13:12	AACD Patient In Facility Date/Time	In Facility	+
2025 (day of surgery)	16:52	BUPIVACAINE W/ FENTANYL 0.0625% / 2 MCG/ML	fentaNYL (PF) 2 mcg/mL-BUPivacaine (PF) 0.0625% in NS PIEB: 3.000 (mL)	+
2025 (day of surgery)	18:49	AACD Anesthesia Start Date/Time	Anesthesia Start	+
2025 (day of surgery)	18:50	FENTANYL	fentaNYL 50 mcg/ml: 100.000 (mcg)	+

Administrative



Administrative Tab

ASA Class
(Actual)ENDOSCOPY, SURGICAL, INCLUDING VIDEO-ASSISTED HARVEST OF VEIN(S) FOR CORONARY ARTERY BYPASS PROCEDURE (Arm Lower); HARVEST OF UPPER EXTREMITY ARTERY, 1 SEGMENT, FOR CORONARY ARTERY BYPASS PROCEDURE, ENDOSCOPIC (Arm Lower); CORONARY ARTERY BYPASS, USING ARTERIAL GRAFT(S); 2 CORONARY ARTERIAL GRAFTS (Midline: Chest); GENERIC VT OC STUDY NO INT

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

Professional Fee Billing

Code	Description	Type	Case-Linked?	Start Time	End Time
00562	Anesthesia for procedures on heart, pericardial sac, and great vessels of chest; with pump oxygenator, age 1 year or older, for all non-coronary bypass procedures (eg, valve procedures) or for re-operation for coronary bypass more than 1 month after original operation	Predicted CPT Algorithm	Yes		
00563	Anesthesia for procedures on heart, pericardial sac, and great vessels of chest; with pump	Predicted CPT Algorithm	Yes		

Diagnosis Codes (ICD-9/10)

Code	Description	Type	Case-Linked?	Start Time	End Time	Present on Admit?
D12.5	Benign neoplasm of sigmoid colon	Anesthesia Professional Fee		2024 00:00	2024 00:00	Yes
K57.30	Diverticulosis of large intestine without perforation or abscess without bleeding	Unspecified Professional Fee		2024 00:00	2024 00:00	Yes
K57.3	Diverticulosis of colon	Unspecified Professional		2024 00:00	2024 00:00	Yes

Location Hierarchy

Hospital Discharge Billing

Code	Description	Type	Start Time	End Time	Present on Admit?
D12.5	Benign neoplasm of sigmoid colon	Hospital Discharge	2024 00:00	2024 00:00	
D49.0	Neoplasm of unspecified behavior of digestive system	Hospital Discharge	2024 00:00	2024 00:00	
K57.30	Diverticulosis of large intestine without perforation or abscess without bleeding	Hospital Discharge	2024 00:00	2024 00:00	
K64.8	Other hemorrhoids	Hospital Discharge	2024 00:00	2024 00:00	
R19.5	Other fecal abnormalities	Hospital Discharge	2024 00:00	2024 00:00	
712.11	Encounter for screening for malignant neoplasm	Hospital Discharge	2024 00:00	2024 00:00	
Code	Description	Type	Start Time	End Time	Present on Admit?
02100AW	Unknown Code	Hospital Discharge	2026 00:00	2026 00:00	
02100Z9	Unknown Code	Hospital Discharge	2026 00:00	2026 00:00	
03BC4ZZ	Unknown Code	Hospital Discharge	2026 00:00	2026 00:00	

The Administrative view has information regarding Demographics, Location Mapping, and Billing.

PHI has been removed for the purposes of this guide.



Administrative – Billing

Professional Fee Billing							
Procedure Codes (CPT) Required	Code	Description	Type	Case-Linked?	Start Time	End Time	
	00562	Anesthesia for procedures on heart, pericardial sac, and great vessels of chest; with pump oxygenator, age 1 year or older, for all non-coronary bypass procedures (eg, valve procedures) or for re-operation for coronary bypass more than 1 month after original operation	Predicted CPT Algorithm	Yes			
	00563	Anesthesia for procedures on heart, pericardial sac, and great vessels of chest; with pump	Predicted CPT Algorithm	Yes			
Diagnosis Codes (ICD-9/10)	Code	Description	Type	Case-Linked?	Start Time	End Time	Present on Admit?
	D12.5	Benign neoplasm of sigmoid colon	Anesthesia Professional Fee		2024 00:00	2024 00:00	Yes
	K57.30	Diverticulosis of large intestine without perforation or abscess without bleeding	Unspecified Professional Fee		2024 00:00	2024 00:00	Yes
Hospital Discharge Billing							
Diagnosis Codes (ICD-9/10) Required	Code	Description	Type	Start Time	End Time	Present on Admit?	
	D12.5	Benign neoplasm of sigmoid colon	Hospital Discharge	2024 00:00	2024 00:00		
	D49.0	Neoplasm of unspecified behavior of digestive system	Hospital Discharge	2024 00:00	2024 00:00		
	K57.30	Diverticulosis of large intestine without perforation or abscess without bleeding	Hospital Discharge	2024 00:00	2024 00:00		
	K64.8	Other hemorrhoids	Hospital Discharge	2024 00:00	2024 00:00		
	R19.5	Other fecal abnormalities	Hospital Discharge	2024 00:00	2024 00:00		
	Z12.11	Encounter for screening for malignant neoplasm	Hospital Discharge	2024 00:00	2024 00:00		
Procedure Codes (CPT/ICD9/ICD10)	Code	Description	Type	Start Time	End Time		
	02100AW	Unknown Code	Hospital Discharge	2026 00:00	2026 00:00		
	02100Z9	Unknown Code	Hospital Discharge	2026 00:00	2026 00:00		
	03BC4ZZ	Unknown Code	Hospital Discharge	2026 00:00	2026 00:00		
	4A023N7	Unknown Code	Hospital Discharge	2026 00:00	2026 00:00		

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

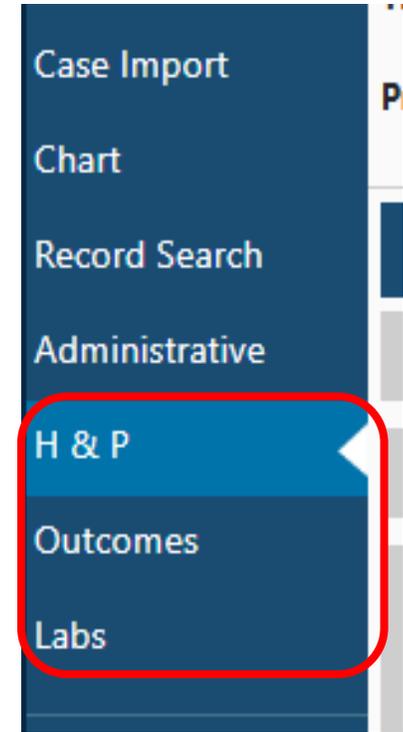
The Professional Fee Billing and the Hospital Discharge Billing sections include a description of what the codes are.

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.

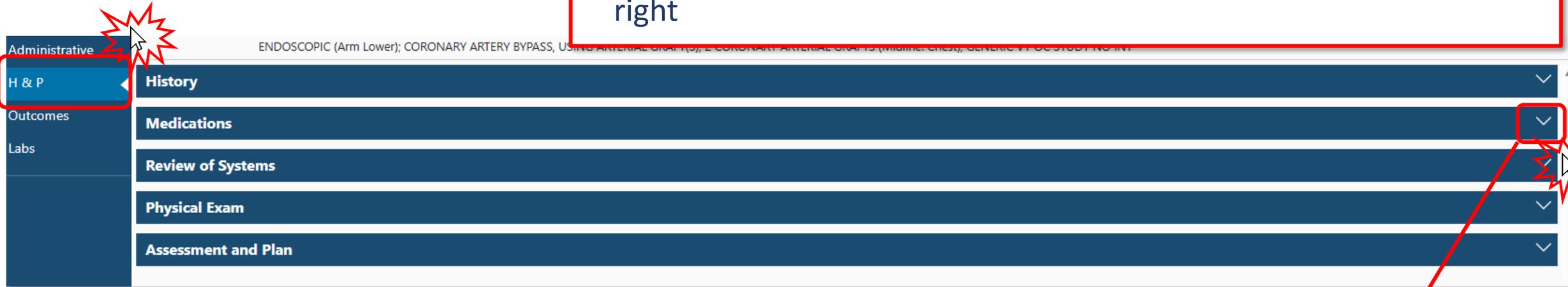


H & P, Outcomes, and Labs



History and Physical Tab

- The H&P View shows perioperative assessment data.
- Each section can be expanded by clicking the drop down on the right



Administrative

ENDOSCOPIC (Arm Lower); CORONARY ARTERY BYPASS, USING AXILARIAL GRAFT(S); 2 CORONARY ARTERIAL GRAFTS (midline; Chest); GENERAL ANESTHESIA; NO INT

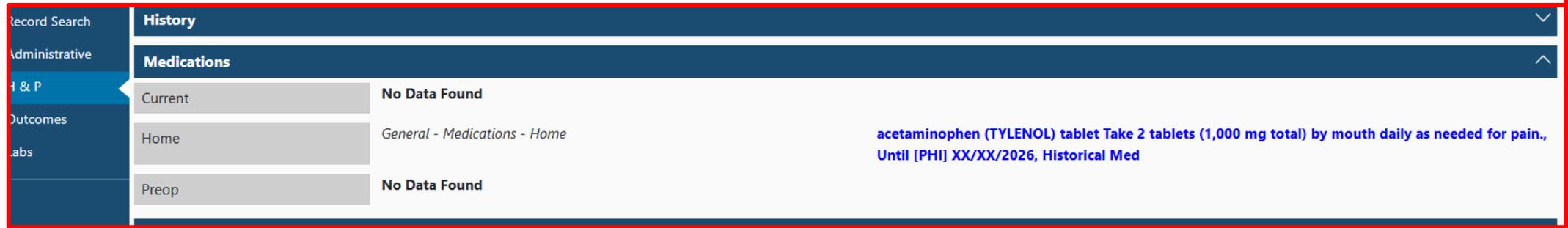
H & P History

Outcomes Medications

Labs Review of Systems

Physical Exam

Assessment and Plan



Record Search

Administrative

H & P History

Outcomes Medications

Labs

Current	No Data Found
Home	General - Medications - Home acetaminophen (TYLENOL) tablet Take 2 tablets (1,000 mg total) by mouth daily as needed for pain., Until [PHI] XX/XX/2026, Historical Med
Preop	No Data Found



History and Physical – Note View

History

Family History **No Data Found**

History of Present Illness *General - Surgical Diagnosis*

Past Medical History *General - PONV Risk Factors*
General - Past Medical History ICD-10 Code

NSTEMI (non-ST elevated myocardial infarction) (CMS-HCC)

no
Cubital tunnel syndrome, right
Medial epicondylitis of elbow, right
NSTEMI (non-ST elevated myocardial infarction) (CMS-HCC)
NSTEMI (non-ST elevated myocardial infarction) (CMS-HCC)
Right elbow pain
Routine general medical examination at a health care facility
Tobacco use disorder

Preop Note

Concept: General - Surgical Diagnosis
Value: NSTEMI (non-ST elevated myocardial infarction) (CMS-HCC)
Value Code: I21.4

Variable Mappings

Type	Preop Type
MPOG Concept	70334 General - Surgical Diagnosis
AIMS Variable	Surgical Diagnosis Surgical Diagnosis EDG-258622

MPOG concepts

Values

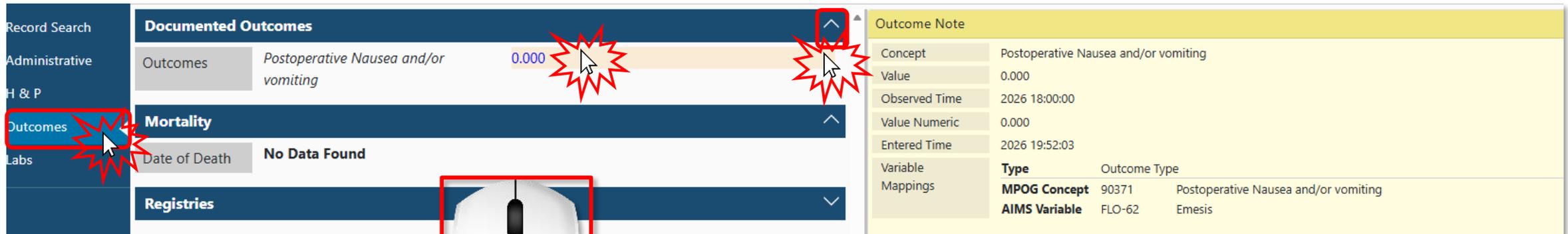
Similar to Chart View, any blue value text can be clicked to show more information in the yellow pane on the right



Outcomes Tab

The Outcomes view shows documented outcomes and mortality if available.

- Like other views, the blue text remains clickable to reveal more information in the yellow pane on the right and each section can be expanded by clicking the drop down on the right
- Most cases will show 'No Data Found' for Registry Data. You will only see data here if the 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/>



The screenshot shows the 'Outcomes Tab' interface. On the left is a navigation sidebar with 'Outcomes' highlighted. The main content area has three sections: 'Documented Outcomes', 'Mortality', and 'Registries'. The 'Documented Outcomes' section shows a table with one row: 'Outcomes' with the description 'Postoperative Nausea and/or vomiting' and a value of '0.000'. A red starburst callout points to the '0.000' value. The 'Mortality' section shows 'Date of Death' with the text 'No Data Found'. A red starburst callout points to the 'Outcomes' label in the sidebar. The 'Registries' section is currently collapsed. A mouse cursor is shown over the 'Outcomes' label in the sidebar. A red box highlights a computer mouse icon below the 'Registries' section. On the right, a yellow 'Outcome Note' pane is expanded, showing details for the selected outcome.

Outcome Note							
Concept	Postoperative Nausea and/or vomiting						
Value	0.000						
Observed Time	2026 18:00:00						
Value Numeric	0.000						
Entered Time	2026 19:52:03						
Variable Mappings	<table border="1"><thead><tr><th>Type</th><th>Outcome Type</th></tr></thead><tbody><tr><td>MPOG Concept 90371</td><td>Postoperative Nausea and/or vomiting</td></tr><tr><td>AIMS Variable FLO-62</td><td>Emesis</td></tr></tbody></table>	Type	Outcome Type	MPOG Concept 90371	Postoperative Nausea and/or vomiting	AIMS Variable FLO-62	Emesis
Type	Outcome Type						
MPOG Concept 90371	Postoperative Nausea and/or vomiting						
AIMS Variable FLO-62	Emesis						

Labs Tab

Chart

ENDOSCOPIC (Arm Lower); CORONARY ARTERY BYPASS, USING ARTERIAL GRAFT(S); 2 CORONARY ARTERIAL GRAFTS (Midline: Chest); GENERIC VT OC STUDY NO INT

Jump To: ▾

	2024	2026	2026	2026	2026	2026	2026	2026	2026	2026	2026	2026	2026
	08:44	08:17	10:54	12:38	05:57	04:32	07:18	10:00	19:00	06:31	08:51	08:58	
	(D-715)	(D-5)	(D-5)	(D-5)	(D-4)	(D-3)	(D-2)	(D-1)	(D-1)	(D-day)	(D-day)	(D-day)	
Blood Bank	ABO/Rhesus (Rh) Factor												
	Antibody Screen												
Blood Gas	Base Excess											-6.9	
	Calcium (Ionized)											4.5	
	COHb												
	FiO2												
	Glucose											82	
	HCO3											19.3	
	Hemoglobin												
	Lactate											0.4	
	MetHb												
	O2 Saturation (O2Hb)												
	pCO2												
	pH												
	pO2												
	Potassium												
	Source Type												
Cardiac	Cholesterol		139	149									
	HDL		50	35									
	LDL		78	114									
	Lipase		29										
	Triglycerides		53	67									
Chemistry	Alanine Aminotransferase (ALT)		28										
	Albumin		3.6										
	Alkaline Phosphatase		127										

- Lab view shows lab results in clinical groupings and chronological order
- This info is also available in chart view
- Blue shading across the top shows the day of surgery (D-Day = surgery day)

Labs – Changing Date Range

- Use the “Jump To” drop-down to select a specific date and time.
- The table view will update to begin at the selected date and time.

The screenshot displays a medical data interface. At the top, a header reads: "ENDOSCOPIC (Arm Lower); CORONARY ARTERY BYPASS, USING ARTERIAL GRAFT(S); 2 CORONARY ARTERIAL GRAFTS (Midline: Chest); GENERIC VT OC STUDY NO INT". Below this is a table with 13 columns representing different time points. The first column is highlighted in blue. A red box highlights the "Jump To:" dropdown menu on the left, which is open and shows a list of dates and times. A red arrow points from the dropdown to the table. Another red arrow points from a mouse cursor to the "2026 21:37 (D-day)" entry in the table. A mouse icon is shown below the table.

2024	2026	2026	2026	2026	2026	2026	2026	2026	2026	2026	2026	2026
08:44	08:17	10:54	12:38	05:57	04:32	07:18	10:00	19:00	06:31	08:51	08:58	
(D-715)	(D-5)	(D-5)	(D-5)	(D-4)	(D-3)	(D-2)	(D-1)	(D-1)	(D-day)	(D-day)	(D-day)	

2026	2026	2026	2026	2026	2026	2026	2026	2026	2026	2026	2026	2026
21:37	23:20	00:04	02:05	02:06	03:07	04:22	05:21	10:01	10:02	11:16	14:44	
(D-day)	(D-day)	(D+1)										

ABO/Rhesus (Rh) Factor

Labs – Note View

ENDOSCOPIC (Atrial Lower); CORONARY ARTERY BYPASS, USING ARTERIAL GRAFT(S); 2 CORONARY ARTERIAL GRAFTS (MIDDLE; CHEST); GENERIC VIT OC STUDY NO INT

Jump To: ▾

	2024	2026	2026	2026	2026	2026
	08:44	08:17	10:54	12:38	05:57	04:32
	(D-715)	(D-5)	(D-5)	(D-5)	(D-4)	(D-3)

Blood Bank

- ABO/Rhesus (Rh) Factor
- Antibody Screen

Blood Gas

- Base Excess
- Calcium (Ionized)**
- COHb
- FiO2
- Glucose
- HCO3
- Hemoglobin
- Lactate
- MetHb
- O2 Saturation (O2Hb)
- pCO2
- pH
- pO2
- Potassium
- Source Type

Cardiac

Cholesterol	139	149
HDL	50	35
LDL	78	114
Lipase		29
Triglycerides	53	67

Lab Values - Calcium (Ionized)

Time	Mapped As	Value	Original Variable
2026 08:58	Formal lab - Blood gas - Ionized Calcium (mmol/L)	4.5	123536
2026 12:32	Formal lab - Blood gas - Ionized Calcium (mmol/L)	3.8	123536
2026 13:02	Formal lab - Blood gas - Ionized Calcium (mmol/L)	4.2	123536
2026 13:31	Formal lab - Blood gas - Ionized Calcium (mmol/L)	3.8	123536
2026 13:59	Formal lab - Blood gas - Ionized Calcium (mmol/L)	3.8	123536
2026 14:53	Formal lab - Blood gas - Ionized Calcium (mmol/L)	4.6	123536
2026 16:01	Formal lab - Blood gas - Ionized Calcium (mmol/L)	4.5	123536
2026 17:58	Formal lab - Blood gas - Ionized Calcium (mmol/L)	4.4	123536
2026 18:52	Formal lab - Blood gas - Ionized Calcium (mmol/L)	5.22	1235008156
2026 20:05	Formal lab - Blood gas - Ionized Calcium (mmol/L)	5.07	1235008156
2026 21:37	Formal lab - Blood gas - Ionized Calcium (mmol/L)	4.61	1235008156

Concept: Formal lab - Blood gas - Ionized Calcium (mmol/L)
Value: 4.5
Observed Time: 2026 08:58
Variable Mappings: Type: Lab Type
MPOG Concept: 5039 Formal lab - Blood gas - Ionized Calcium (mmol/L)
AIMS Variable: 123536

- As in other views, clicking any blue text opens a yellow side panel with additional details for that lab value.
- Users can also navigate through notes within the gray panel, just as in other views.



Labs – Value View

ENDOSCOPIC (Arm Lower); CORONARY ARTERY BYPASS, USING ARTERIAL GRAFT(S); 2 CORONARY ARTERIAL GRAFTS (Midline: Chest); GENERIC V1 OC STUDY NO INT

Jump To: ▾

	2026 00:04 (D+1)	2026 02:05 (D+1)	2026 02:06 (D+1)	2026 03:07 (D+1)	2026 04:22 (D+1)	2026 05:21 (D+1)
Blood Bank	ABO/Rhesus (Rh) Factor					
	Antibody Screen					
Blood Gas	Base Excess	-5.4	-1.7	-0.2	1.4	
	Calcium (Ionized)	4.62	4.64	5.02	4.81	
	COHb					
	FiO2					
	Glucose					
	HCO3	21	23	24	26	
	Hemoglobin	11.8	11.4	11.7	11.7	
	Lactate	0.9	0.8	0.8	0.8	
	MetHb					
	O2 Saturation (O2Hb)					
	pCO2					
	pH					
	pO2					
	Potassium					
	Source Type					
Cardiac						

Clicking the blue numerical lab value expands details for that specific result

Lab Values - Calcium (Ionized)

Time	Mapped As	Value	Original Variable
2026 00:04 (D+1)	Formal lab - Blood gas - Ionized Calcium (mmol/L)	4.62	1235008156

Concept: Formal lab - Blood gas - Ionized Calcium (mmol/L)
Value: 4.62
Observed Time: 2026 00:04

Variable Mappings

Type	Lab Type
MPOG Concept 5039	Formal lab - Blood gas - Ionized Calcium (mmol/L)
AIMS Variable 1235008156	

Please contact the MPOG Coordinating Center (support@mpog.zendesk.com) if you have additional questions regarding Web Case Viewer or issues with accessing the application.

Thank you!