

Variable Mapping Tips Epic sites

*See the Getting Started – Import Manager Variable Mapping presentation first



Pre-Mapping

- For new Epic sites, select variables will map automatically prior to beginning manual mapping.
- Your site technical team will be asked to run a script to complete the premapping.
- Once the script is run, pre-mapped variables will show as 'green' in the variable mapping utility.

| ID | Org | Name | Times Used | Mapped As | Туре |
|--------------|------|----------------------------|------------|----------------------------------|-------------|
| FLO-40100000 | OHSU | Airway Resp Rate | 9,472 | Respiratory Rate Actual from EtC | Physiolog ^ |
| FLO-40100000 | OHSU | ETCO2 | 9,405 | End Tidal CO2 (mmHg) | Physioloc |
| FLO-40100000 | OHSU | SpO2 | 9,335 | SpO2 % | Physiolog |
| FLO-40100000 | OHSU | Pulse - Plethysmograph | 9,333 | Physical Exam - Pulse Rate | Preop |
| FLO-40100000 | OHSU | Pmean/PAW | 9,262 | Mean Inspiratory Pressure | Physiolog |
| FLO-40100000 | OHSU | max Pos Airway P | 9,229 | Unknown Concept | Meta |
| FLO-40100001 | OHSU | ETO2 | 9,216 | Oxygen Exp % | Physiolog |
| FLO-40100001 | OHSU | FIO2 | 9,216 | Oxygen Insp % | Physiolog |
| FLO-40100000 | OHSU | Heart Rate | 9,047 | Unknown Concept | Meta |
| FLO-40100000 | OHSU | PeeP | 8,910 | Unknown Concept | Meta |
| FLO-11200165 | OHSU | O2 FR Avance (Total Liters | 8,263 | Flows Oxygen (L/Min) | Physiolog |
| FLO-40100000 | OHSU | Circuit O2 | 8,048 | Unknown Concept | Meta |
| FLO-40100000 | OHSU | Vent Mode | 8,048 | Ventilator Mode | Physiolog |
| FLO-40100000 | OHSU | RR freq/Min | 7,541 | Ventilator Respiratory Rate Actu | Physiolog |
| FLO-40100015 | OHSU | MV (L/min) | 7,519 | Minute ventilation | Physiolog |
| FLO-40100000 | OHSU | Vte | 7,496 | Tidal Volume actual | Physiolog |
| FLO-40100000 | OHSU | ST-II | 7,357 | ST Lead II | Physiolog |
| FLO-40100000 | OHSU | Vt | 6,946 | Tidal Volume Set | Physiolog |



Reviewing Pre-Mapped Variables

- Choose the 'Pre-Mappings Only' Display Mode to review those variables that have already been pre-mapped
- Pre-mapped variables will appear in green
 - Review these mappings, use the 'Examine' button for clarification if needed
 - Update any variables that whose pre-mapping does not match your institution's variable/documentation

| Mapping Type: | Observation Detai | il Type (Event D |)etails) | | ~ | | | | Import Expo |
|--|---------------------------|------------------|----------------------|---------------------------|----------------|-----------------|--------------------------------------|------|----------------|
| instance: | MPOG_MAS_Epic | | · Organization: | All Assigned Organization | s (% ~~ | | | | |
| Display Mode: | All Variables | | | | ~ | Options: | Auto Search On | | Auto Select On |
| Concept Type: | All Variables | | | | 1.12 | | | | |
| concept type: | Pre-Mapped Variables Only | | | | Search Filter: | | | | |
| Search Filter: | Mapped Variables Only | | | Help | | | | | |
| | Unmapped Variab | iles Only | | | | | | | |
| | Excluded Variables | s Only | | | | Map | Name | ID | Type |
| | Skipped Variables | | | | | 1000 P | Unmapped Physiologic Conc | 3000 | Physiologic |
| ID | Org Name | Times Used | Mapped As | MPOG ID | Type | | Perfusion- Cardiopulmonary | 3001 | Physiologic |
| ERX-60 | Multipi First Databar | 343 | General - Medicatio | ns Detail - F. 71160 | Preop | Unmap | Perfusion- Cardiopulmonary | 3002 | Physiologic |
| FLO-700 | Multipi Placement D | 174 | Unknown Concept | 0 | Meta | | Perfusion- Cardiopulmonary | 3003 | Physiologic |
| | Multipi Medication N | 164 | General - Medicatio | ns Detail - N 71130 | Preop | Exclude | Inhaled Monitor Calculated P | 3004 | Physiologic |
| FLO-701 | Multipi Placement Ti | 160 | Unknown Concept | 0 | Meta | | EKG Pulse Rate | 3005 | Physiologic |
| ORD-7025 | Multip: Medication F | 131 | Unknown Concept | 0 | Meta | 1 | Isoflurane actual consumptic | 3006 | Physiologic |
| EFQ-155 | Multipi Medication S | 126 | General - Medicatio | ns Detail - S 71084 | Preop | Skip | Desflurane actual consumpti | 3007 | Physiologic |
| ORD-34010 | Multipi Medication F | 126 | General - Medicatio | ns Detail - F. 71083 | Preop | | Sevoflurane actual consumpt | 3008 | Physiologic |
| ORD-7060 | Multipi Medication T | 121 | General - Medicatio | ns Detail - Ti 71140 | Preop | | 8IS - Suppression Ratio | 3009 | Physiologic |
| ORD-34017 | Multipi Medication E | 119 | General - Medicatio | ns Detail - D 71081 | Preop | | SpO2 Pulse Rate | 3010 | Physiologic |
| ORD-34015 | Multipi Medication [| 119 | General - Medicatio | ns Detail - D 71080 | Preop | | BP Sys Invasive Unspecified 5 | 3011 | Physiologic |
| | Multipi Removal Dat | | Unknown Concept | 0 | Meta | Premappings | BP Dias Invasive Unspecified | 3012 | Physiologic |
| other design and the other designs of the local division of the lo | Multipi Removal Tim | | Unknown Concept | 0 | Meta | | 8P Mean Invasive Unspecifie | 3013 | Physiologic |
| | VONV Neuraxial - L | | Unknown Concept | 0 | Meta | Annal Allana | BIS - Total Power | 3014 | Physiologic |
| | VONVI sterile barrier | | Unknown Concept | 0 | Meta | Mapping History | BP Sys Non-invasive | 3015 | Physiologic |
| and the second | Multipi Allergic Reac | 46 | General - Allergies | Detail - Reac: 71200 | Preop | | Pulse Pressure Variation | 3016 | Physiologic |
| FLO-30401101 | Multipi Location | 44 | Categorized note - I | Lines, tubes, 50694 | Intraop N | Examine | Regional Oxygen Saturation | 3017 | Physiologic |



Reviewing Pre-Mapped Variables

- Once per year, MPOG will review the common Epic AIMS IDs and update the pre-mapping for these variables.
- Click on the 'Pre-mappings' button at the bottom middle of the Variable Mapping tool
 - A list of variables that do not match the current MPOG mapping recommendations will populate
 - Review the variables and either accept or reject the updates
 - Can click on 'Select All' or 'Unselect All' buttons in bottom left corner
 - Can check/uncheck individual variables
 - Choose 'Apply Selected' in lower right corner to apply the mapping updates

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| Observation Type (Events/Phys university of r | michigan ann arb 62 | Emesis | 14470 | Misc - Patient vomiting | Postoperative Nausea and/or v | | | |
| bservation Type (Events/Phys university of r | michigan ann arb 3040031007 | Insertion Attempts | 445 | Number of Attempts | Intubation Number of Attempt | | | |
| Ibservation Type (Events/Phys university of r | michigan ann arb 3040030998 | Insertion Attempts | 7953 | Number of Attempts | Intubation Number of Attempt | | 3 | |
| ab Type university of r | michigan ann arb POC313-12007718 | HCT | 318212 | POC - Blood gas - Hct measur | Formal lab - Hematocrit | | | |
| Observation Type (Events/Phys university of r | michigan ann arb 1070100097 | Pain | 580672 | Postoperative visit patient pair | Pain Score (Generic) | 0 | | |
| bservation Type (Events/Phys university of r | michigan ann arb 1072040012 | Site of Block | 10903 | Regional - Block performed | Regional - Block location | | | |
| A PROPERTY OF A | michinan ann ach 1072040112 | Site of Block | 5622 | Regional - Riock performed | Reningel - | | 9 | |
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| Select All Unselect All | | | | | Apply Selected | Cancel | | |



Variable Prefix Descriptions

| Variable Type | Description | Notes |
|---------------------|---|--|
| LEV-* variables | Timed Event Notes | Most reliable when looking for timing of events (i.e. intubation/extubation) |
| EAP/HLX-* variables | Procedure Note Documentation | Provides the details associated with a procedure: size, number of attempts etc. Observed time is not always populated. If no time associated with EAP/HLX note, map related LEV note as well. |
| ERX-* variables | Electronic Medication Record – Administered and Home Medications only. Medication Orders are not included. | Administered mediations can be found under Administration Type. Home medications can be located under Observation Type. |

MULTICENTER PERIOPERATIVE

Contact: support@mpog.zendesk.com

Variable Prefix Descriptions

| Variable Type | Description | Notes |
|-----------------|-------------------------|---|
| FLO-* variables | Data from flowsheet | Data from flowsheet. LDA documentation corresponding to placement, removal etc. Usually duplicate doc |
| CT-* variables | Case Tracking Variables | Exclude these if multiple variables show for event times. *If you do not have an LEV variable for a certain concept you will need to include the CT variable. |
| AT-* variables | Attestations | Exclude or leave unmapped |



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Variable Mapping Tips

- For key anesthesia events such as ETT/LMA placement, extubation, arterial/central line placement, regional and neuraxial block notes: Prioritize LEV/HLX/EAP variables for mapping
 - Exclude FLO variables associated with these concepts <u>if</u> both an HLX/EAP and LEV variable exists.
- If duplicate variables exist for critical times such as anesthesia start/end, surgery start/end, In room times, etc.:
 - Consider excluding CT variables (typically nursing documentation). If there are only nursing (CT) variables, keep them and map (Phase I, Phase II in/out times, etc.).
 - <u>Bottom line</u>: Anesthesia documentation is preferred but adopt nursing documentation if anesthesia documentation is not available for critical times/events.



Additional Notes

- When a procedure variable has multiple uses (lines, CT, etc.) map to 50665 Procedures Other unlisted procedure.
- Map Non-Invasive Blood Pressure location to 3266 Noninvasive blood pressure cuff location
- Map patient position to 3096 'Positioning'
- PONV assessment: If the values listed under 'Examine' are y/n, map to 90010 PONV Assessment. If the values are text, i.e. vomiting, diarrhea, etc., map to 50227 GI symptoms
- Cardiopulmonary Bypass Start should be mapped to 50410 Cardiopulmonary bypass initiated (full/partial/left-heart)and Cardiopulmonary Bypass End should be mapped to 50409 - Cardiopulmonary bypass (full/partial/left-heart) terminated. The concepts that have 'Perfusion Start' and 'Perfusion End' are used when documented by a Perfusionist
- OB Frequency of Contractions should be mapped to 3181 Frequency of Contractions
- OB Duration of Contractions should be mapped to 3188 Duration of Contractions



Additional Notes continued

- Injection Epic has a generic Injection route used for multiple types of injections (IV, IM, etc.). Map this
 variable to 2042 INJECTION NOT SPECIFIED
- Surgical Admission Type Inpatient (500): should be used for a patient that was admitted prior to the procedure (i.e. inpatient who went to OR)
- Surgical Admission Type Admit (502): should be used for patients that were admitted after the procedure (i.e. c-sections)
- Variables with the prefix HLX-EPIC#RS are usually Review of Systems and should be mapped as available. This will show up in the H&P section of Case Viewer.
- Variables with the prefix HLX-EPIC#HPI are usually H&P documentation and should be mapped as available. This will show up in the H&P section of Case Viewer.
- Check that Anesthesia start/end, Patient in room/out of room, in PACU/out of PACU, uterine incision, etc. are all mapped to LEV concept when available and CT concept is excluded/unmapped (unless no LEV concept available then map CT concept)

