

ACCM CLINICAL RESEARCH CORE

AQI DATASET

Description of variables extracted into ACCM AQI Repository

DATE RANGE: 07/01/2016 to 04/18/2017 11/30/17

AQI Minimum Dataset- Patient demographics, care team demographics, name/date/location of procedure

The minimum dataset as defined by AQI

DESCRIPTION	COLUMN NAME	DATA TYPE
Unique Anesthesia Episode Identifier	EpisodeID	numeric
Provider ID	StaffID	varchar
Staff Role i.e.: Anesthesiologist; Fellow; Physician; NA	StaffRole	varchar
Staff Title: MD PhD; MBChB; DO; MBBS; MD MPH; NULL; MD; DO MPH	StaffTitle	varchar
National Provider Identifier ID	NPI	varchar
Date of Service	DateOfService	datetime
Anesthesia Start Time	AnesthesiaStartTime	datetime
Anesthesia End Time	AnesthesiaEndTime	datetime
Sex (F or M)	Gender	varchar
Date of birth	DOB	datetime
ASA Status (Does not include whether it is emergency or not)	ASA_PhysicalStatus	varchar
Payment Code (The name of the insurance provider)	PaymentCode	varchar
	HSP_ACCOUNT_ID	numeric
	LOG_ID	varchar
	ADT_PAT_CLASS_C	varchar
Patient Class i.e. Outpatient Behavioral Health Extended Surgical Recovery; Hospital Outpatient ; Surgery; Extended Diagnostic; Inpatient; Specialty Hospital; Surgery Admit; Emergency; Series Outpatient; Outpatient; Newborn; Psychiatric; Observation	PatientClass	varchar
None; Spinal; NULL; Regional; Choice; Moderate Sedation; Epidural; Local; Monitored Anesthesia Care; General; General/Regional; General/Epidural	PrimaryAnesthesiaType	varchar
Medical record number	PAT_MRN_ID	varchar
	PAT_ENC_CSN_ID	numeric

Primary Surgical Procedure Name	AN_PROC_NAME	varchar
JHH, BV, HCGH	FacilityID	numeric
Age	Hospital	varchar
Location in the hospital	Age	int
Procedure Status i.e. Whether it is elective, emergent, Other or Unknown	LOC_NAME	varchar
Admission Time	ProcStatus	varchar
Discharge Time	HOSP_ADMSN_TIME	datetime
Patient Refused; Unknown; Not Hispanic or Latino; NULL; Hispanic or Latino	HOSP_DISCH_TIME	datetime
State of residence of the patient	ETHNICITY	varchar
zipcode (First five digits)	STATE	varchar
Discharge Disposition from Hospital	ZIP	varchar
Discharge Destination	DISCHARGE_DISPOSITION	varchar
White or Caucasian Native Hawaiian or Other Pacific Islander Black or African American Asian Unknown Hispanic NULL Declined to Answer American Indian or Alaska Native Other	DISCHARGE_DESTINATION	varchar
FirstRace	nvarchar	
SecondRace	nvarchar	
ThirdRace	nvarchar	
FourthRace	nvarchar	
FifthRace	nvarchar	
0 or 1	MultiRacial	tinyint
DeathDate if death occurred in hospital	DeathDate	date
Status Alive or Died (at the end of the stay)	Status	nvarchar
Marital status	MaritalStatus	nvarchar
Religion	Religion	nvarchar
Smoking Status at the time of admission	SmokingStatus	nvarchar
Highest Level of Education at the time of admission if recorded (Mostly not present)	HighestLevelOfEducation	nvarchar

PATIENT DIAGNOSES

We have the ICD Diagnosis Codes and Procedure Codes for the entire hospital stay with a flag to determine whether they were present at the time of admission. Source ([EPIC](#)).

DESCRIPTION	COLUMN	DATA TYPE
Patient Encounter Identifier	PAT_ENC_CSN_ID	numeric
Diagnosis / Procedure Code	CODE	varchar
Line (In order of importance)	LINE	int
Source indicating diagnosis / procedure code	SOURCE_NAME	varchar
Name of the diagnosis or procedure	NAME	varchar
Present on Arrival flag	POA	char
Flag to indicate Hospital acquired condition	DX_HAC_YN	Char
Indicates whether this row's diagnosis affects the Diagnosis Related Group calculation	DX_AFFECTS_DRG_YN	Varchar
The severity of illness category number for the diagnosis.	DX_SOI_C	Varchar
The risk of mortality category number for the diagnosis.	DX_ROM_C	Varchar
Surgeon performing the procedure (only for procedure codes)	PX_PERF_PROV_NMID	Varchar

PROCEDURE CODES

We have procedure codes for the entire hospital stay for inpatient as well as outpatients. For inpatients we have ICD Procedure Code, and for Outpatients we have the CPT Codes. When multiple procedure codes are present, we have the order of important flag. Also have the procedure date. (SOURCE [EPIC](#))

DESCRIPTION	COLUMN	DATA TYPE
Unique Anesthesia Episode Identifier	EPISODE_ID	numeric
Database Identifier	HSP_ACCOUNT_ID	numeric
Database Identifier	CASE_ID	varchar
The unique ID of the primary physician for panel 1 that is associated with this case record. The physician is first pulled from the procedural documentation if it is set, otherwise, it is pulled from the scheduling information for the case	PNL_1_PRIM_SURG_ID	varchar
The hospital account related group source ID for this row's data. This is often used for record selection or sorting within reports and has the following associations: 3-Final Diagnosis Primary Code Set 4-Final Diagnosis Alternate Code Set 5-External Cause of Injury Primary Code Set 6-	SOURCE_KEY	int

External Cause of Injury Alternate Code Set 11- ICD Procedure Primary Code Set 12-ICD Procedure Alternate Code Set 13-Inpatient CPT Code 21-Charge CPT Code 22-Coding CPT Code 23-Combined CPT Code The gaps in the numbering are to allow for future expansion.		
The line number of the diagnosis or procedure within its source related group. Multiple pieces of information can be associated with the account and source group.	LINE	int
The name of the related group that is the source of this row's data. It will be one of "Final Diagnosis Primary Code Set", "Final Diagnosis Alternate Code Set", "External Cause of Injury Primary Code Set", "External Cause of Injury Alternate Code Set", "ICD Procedure Primary Code Set", "ICD Procedure Alternate Code Set", "Inpatient CPT Code", "Charge CPT Code", "Coding CPT Code", or "Combined CPT Code" and can be used as a group header in reports.	SOURCE_NAME	varchar
The abbreviation of the related group that is the source of this row's data. It will be one of "Dx Prim Set", "Dx Alt Set", "Ext Inj Prim Set", "Ext Inj Alt Set", "ICD Px Prim Set", "ICD Px Alt Set", "IP CPT", "Chg CPT", "Code CPT", or "Comb CPT" and can be used as a group header in reports when the SOURCE_NAME is too long.	SOURCE_ABBR	varchar
The Internal ID of the diagnosis record for this account at the given line from the specified source related group.	DX_ID	numeric
The Internal ID of the procedure record for this account at the given line from the specified source related group.	ICD_PX_ID	numeric
The name of the diagnosis or procedure for this row related to this anesthesia episode	NAME	varchar
The reference code set category number for the diagnosis or procedure.	REF_BILL_CODE_SET_C	int
The code set of the diagnosis or procedure. This is extracted as the category name.	REF_BILL_CODE_SET_NAME	varchar
The reference code of the diagnosis or procedure for this row.	REF_BILL_CODE	varchar
Indicates whether this row should be excluded from clinical report such as to prevent duplicated data following an account merge. Y indicates this row should be excluded. An N or	EXCLUDE_YN	varchar

NULL value indicates it should be included.		
The category value of the present on admission flag for this diagnosis. 1 – Yes; 2 – No; 3 – Unknown; 4 – Clinically Undetermined; 5 – Exempt from POA reporting.	DX_POA_C	int
The unique ID associated with the provider record for the provider who performed the procedure	PX_PERF_PROV_ID	varchar
	PX_EVENT_NUMBER	int
The date the procedure was performed	PX_DATE	datetime
A comma-delimited list of modifiers associated with a CPT® or HCPCS code stored in the hospital account	PX_CPT_MODIFIERS	varchar

ANESTHESIA STAFF

List of all Anesthesia Providers their titles for all anesthesia cases

DESCRIPTION	COLUMN	DATA TYPE
Anesthesia Episode Number	AN_EPISODE_ID	numeric
Unique Provider ID	StaffID	varchar
Role: Anesthesiologist; Resident; Fellow; Physician; Nurse Anesthetist	StaffRole	varchar
MD; CRNA; MD MPH etc	StaffTitle	varchar
National Provider ID	NPI	varchar
The order in which they appear. 1 = Primary Provider	LINE	tinyint
Begin Time	AN_BEGIN_LOCAL_DTTM	datetime
End Time	AN_END_LOCAL_DTTM	datetime

AQI LOCATION- Hospital location of patient throughout encounter

List of all Anesthesia Providers their titles for all anesthesia cases

DESCRIPTION	COLUMN	DATA TYPE
Anesthesia Episode Number	AN_EPISODE_ID	Numeric
CSN	PAT_ENC_CSN_ID	Numeric
Event Type (Transfer in)	EVENT_TYPE	text
In Time	IN_DTTM	Datetime
Out Time	OUT_DTTM	Datetime
Department ID	ADT_DEPARTMENT_ID	Numeric
Department Name	ADT_DEPARTMENT_NAME	Text
Room Name	ROOM_NAME	Numeric
Bed Label	BED_LABEL	Text
Location	ADT_LOC_ID	Text
Hospital	ADT_LOC_NAME	Text
Service Area	ADT_SERV_AREA_NAME	Text

MEDICATIONS

Throughout HOSPITAL STAY including INTRAPROCEDURE:

The following variables w.r.t medications are present for Intraprocedure and, Outside of procedure medications during hospital stay

Medication Name, Time Given, Medication Route, Dose, Medication Unit, Infusion rate (if infusion), Minimum Discrete dose for that drug and maximum discrete dose for the drug.

DISCHARGE:

We have Medication name, dosage, quantity, frequency, classification of the drug such as analgesic, antihyperlipidemic, diuretic etc) and, order date.

ADMISSION:

We have the name of the drug and the classification of the drug such as analgesic, antihyperlipidemic, diuretic etc). This was obtained through nurses reconciliation.

We have not yet collected medications administered 30 days prior to admission and 30 days after discharge.

DESCRIPTION	COLUMN NAME	DATA TYPE
	AN_EPISODE_ID	numeric
	PAT_ENC_CSN_ID	numeric
Admission reconciliation / Intraprocedure / In hospital stay / Discharge medications	MEDICATION_TYPE	int
	MEDICATION_NAME	varchar
	Therapeutic Class	varchar
	Pharmaceutical Class	varchar
	Pharmaceutical SubClass	varchar
	TimeActionTaken	datetime
	ActionTaken	varchar
	MedRoute	varchar
	DOSE	varchar
	MedUnit	varchar
	AdminSite	varchar
	INFUSION_RATE	varchar
	InfusionRateUnit	varchar
	DurationToInfuse	varchar
	Duration_Infuse_Unit	varchar
	Comments	varchar
	MIN_DISCRETE_DOSE	float
	MAX_DISCRETE_DOSE	float

INTRAOOPERATIVE Vital signs and airway data

The following intraoperative variables have been extracted for all anesthesia cases. Variables such as HEART RATE, BLOOD PRESSURE etc that are captured on a minute by minute basis in EPIC. We have the complete minute-by-minute records for these variables. The variables extracted for cases are the Measure name i.e. (Oximetry etc), Measure Value and the recorded time.

DESCRIPTION	FLO_MEAS_NAME	DISP_NAME
Heart rate from pulse ox (min by min)	PULSE OX HEART RATE	Pulse Oximetry HR
Heart rate from ECG (each min)	ANESTHESIA PULSE	Pulse
ECG rhythm (as recorded by provider)	R AN ECG	ECG
Blood pressure recorded, systolic / diastolic, from cuff, every 3 to 5 minutes.	ANESTHESIA BLOOD PRESSURE	NIBP
Blood pressure, mean, from cuff, every 3-5 min	R AN MEAN ARTERIAL BLOOD PRESSURE	MAP
Blood pressure, systolic/diastolic, (invasive from arterial line)- (min by min)	AN INVASIVE BLOOD PR	ABP
Blood Pressure, mean, from invasive arterial line (minute by minute)	R AN MAP A LINE	mABP
Central Venous pressure, mm Hg; present minute by minute	R AN CENTRAL VENOUS PRESSURE	CVP
Respiratory Rate – minute by minute.	AN AWRR	awRR
Ventilation mode, e.g. Control, SIMV, Spontaneous, etc	R AN VENT MODE	Vent Mode
Tidal volume from vent, ml?, (minute by min)	JHM AN TV INSP	TV insp
Minute volume from vent, L/min, (minute by minute)	JHM AN MINUTE VOLUME	Minute Volume
Positive end expiratory pressure / Continuous positive airway pressure; present minute by minute when available	R AN VENT PEEP	PEEP/CPAP (cm H2O)
Peak Inspiratory Pressure from vent; present minute by minute	R JHM AN PIP-ACADEMIC	PIP
Carbon dioxide ETCO2- (min by min)	R AN ETCO2	ETCO2
O2 flow, L/min , (min by min)	R AN AGENTS O2	O2
Air flow from anesthesia machine (each min) L/min	R AN AGENTS AIR	Air
Oxygen inspired (fiO2), %, present minute by minute	R AN FIO2	FiO2
Oxygen saturation- from pulse ox (each minute)	R AN SAT O2	SaO2
Cerebral oximetry- Right	R CEREBRAL OXIMETRY - RIGHT	Cerebral Oximetry -

	(RSO2)	Right (rSO2)
Cerebral oximetry - Left	R CEREBRAL OXIMETRY - LEFT (RSO2)	Cerebral Oximetry - Left (rSO2)
Temperature 1, C (each min)	ANESTHESIA TEMPERATURE	Temp
Temperature 2, C, (minute by minute)	R AN TEMPERATURE 2	Temp 2
Isoflurane inspired, %, (minute by minute)	R AN AGENTS ISOFLURANE INSP	Isoflurane insp
Isoflurane expired, %, (min by min)	R AN AGENTS ISOFLURANE EXP	Isoflurane exp
N2O inspired, %, (min by min)	R AN AGENTS N2O INSP	N2O insp
N2O expired (each minute)	R AN AGENTS N2O EXP	N2O exp
Blade size.	R ETT BLADE SIZE	Blade Size
Values reported as Miller blade, MacIntosh blade, Stroz C-Mac, Glidescope, Wis blade etc.	R ETT LARYNGOSCOPE	Laryngoscope
ETT Tube size in mm	R ETT TUBE SIZE	Tube Size
Meas Values reported as Grade 1, vocal cord seen;Cricoid pressure assisted Grade 1, vocal cord seen etc	R JHM ETT VIEWS	View:
ETT tracheal verification- Meas Values presents as Auscultation;End tidal CO2;Symmetrical chest wall movementetc	R ETT PLACEMENT VERIFICATION	Placement Verification
Train-of-Four (max every 15 minutes)	JHM AN ASSESS TRAIN-OF-4	Train-of-Four
Body mass index (BMI) from anesthesia record	R BMI	BMI (Calculated)
Body surface area (BSA) from anesthesia record	R BSA	BSA (Calculated - sq m)
Ideal Body Weight (IDW) from anesthesia record	R JHM PREDICTED BODY WEIGHT CALCULATION	IBW (kg)
Urine Output, ml, intraop total	URINE OUTPUT	Urine

The table is stored in an unpivoted format.

DESCRIPTION	COLUMN NAME	DATA TYPE
	EpisodeID	numeric
	AN_PAT_ID	varchar
	PAT_ENC_CSN_ID	numeric
	AN_52_ENC_CSN_ID	numeric
	AN_53_ENC_CSN_ID	numeric
	AN_INPATIENT_DATA_ID	varchar
	FSD_ID	varchar
	LINE	int
	FLO_MEAS_ID	varchar

See the table above for list and description of available FLO_MEAS_NAMES	FLO_MEAS_NAME	varchar
See table above for a list and description of DISP_NAMEs	DISP_NAME	varchar
	MEAS_VALUE	varchar
	RECORDED_TIME	datetime

AQI_VITALS- ICU and ward

We have the following vital signs for the entire hospital stay that includes at least one anesthesia event. Data were extracted from vital signs records validated from nursing flow sheets. Frequency of data are as recorded on flow sheets. Additional data derived from monitors on minute-to-minute basis in the ICU will be available in near future.

Heart rate (pulse)

Cardiac Rhythm

BP (Cuff Systolic and Diastolic)

MAP (mmHg) (Cuff)

Arterial Line 1 BP (Systolic and Diastolic)

Arterial Line 1 MAP

CVP (mmHg)

Resp rate

FiO2

FiO2 (%)

O2 Device

O2 Flow Rate

SpO2

P/F ratio

Vent/Serial Number

Ventilator modes

Observations

PEEP (cmH2O)

PS (cmH2O)

EtCO2

Temp

Temp src

DESCRIPTION	COLUMN NAME	DATA TYPE
Patient identifier	MRN	char
Patient Visit ID	PAT_ENC_CSN_ID	Numeric
	FSD_ID	Numeric
	LINE	Int
	FLO_MEAS_ID	Numeric
	DISP_NAME	Char
	Recorded_time	Datetime
	MEAS_VALUE	Varchar

AQI_PAIN_GCS- Pain scores and GCS- ICU and ward

We have the following pain and GCS score variables for the entire duration of the hospital stay. Data are derived from validated entries in nursing flow sheets.

0-10 Pain Rating

Achieved Pain Score

Additional Behavioral Comments

Best Auditory/Visual Stimuli Response

Best Motor Response

Best Verbal Response

Comments

Convert GCS

Eye Opening

GCS / Pupils

GCS Score

GCS/Pupils

Glasgow Coma Scale

Glasgow Coma Scale (> 2 yrs)

Glasgow Coma Scale (6 mos-2 yrs)

Glasgow Coma Scale Assessed

Glasgow Coma Scale Interpretation

Glasgow Coma Scale Score

Glasgow Coma Scales

Glasgow Coma Score

Glasgow Coma: Age

N-PASS Pain Score

Pain

Pain Descriptors

Pain Score

Pain Score (%) (Left)

Pain Score (%) (Right)

Pain Score After Intervention

Pain Severity Score (mean of questions 3-6)

Patient pain (0-100)

Pre-Hospital GCS

Target Pain Score

DESCRIPTION	COLUMN NAME	DATA TYPE
Patient identifier	MRN	char
Patient Visit ID	PAT_ENC_CSN_ID	Numeric
	LINE	Int
Measure identifier	FLO_MEAS_ID	Numeric
Name of the GCS or Pain score variable	DISP_NAME	Char
	RECORDED_TIME	Datetime
Result value	MEAS_VALUE	varchar

Input-Output- Throughout hospital stay

We have all of the records for following InputOutput Variables with date time stamp and volumes for the entire hospital stay- in OR and out of OR.

Urine

Blood Products administered: Plasma, Platelets, RBC, Cryoprecipitate, & Whole Blood in ml and Units.

Colloids: Albumin (all strengths such as 5%, 25% etc infusion or bolus)

Crystalloids: Lactated Ringers Solution, Dextrose, Plasma-Lyte and Sodium Chloride.

Blood Loss: Estimated Blood Loss, Plasma Loss, BAKRI Blood Loss, OB QBL Calculated Blood Loss, Trauma Pre-arrival Estimated Blood Loss, IP VAT Blood Loss.

Hemoconcentrator output volume with time stamp.

Cell Saver.

DESCRIPTION	COLUMN NAME	DATA TYPE
	InputOutput_ID	int
	PAT_MRN_ID	varchar
	HSP_ACCOUNT_ID	numeric
	PAT_ENC_CSN_ID	numeric
	INPATIENT_DATA_ID	numeric
	ENC_TYPE_C	varchar
	FSD_ID	varchar
	LINE	int
	FLO_MEAS_ID	varchar
	FLO_MEAS_NAME	varchar
	FLOWSHRT_ROW_NAME	varchar
	DISP_NAME	varchar
Recorded volume	MEAS_VALUE	varchar
mL	UNITS	varchar
Instant recorded	RECORDED_TIME	datetime
	DAILY_NET	numeric
Anesthesia Episode ID (recorded if intraoperative)	EpisodeID	numeric
1 – Intraoperative; 2 – In hospital (not intraoperative)	InputOutput_Type	int
The measure being recorded Albumin; Blood Loss; Cell Saver; Cryoprecipitate; Dextrose; FFP; Hemoconcentrator; Heparin; Immune Globulin; Lactated Ringers; Massive Transfusion; Plasma-Lyte; PLTS PHERES; PRBC; Saline; Sodium Chloride; Urine; Whole Blood	Category	varchar

	RECORDED_DATE	date
	RECORDED_HOUR	int
	RECORDED_MINUTE	int
	DAYS_SINCE_ADMISSION	int
Volume recorded as integer	Volume	int
All crystalloids have super-category crystalloid; Colloids only include all concentrations of albumin (no dextran extracted yet).	SuperCategory	varchar

Input-Output Daily Totals

We have a table with daily total of Urine, individual blood products i.e. Plasma, Platelets, RBC, Cryoprecipitate, & Whole Blood in ml, Crystalloids and, Colloids. The patient record is associated with date, and the daycount (as integer) from the day of admission. Please note that the records are available only for the days on which any input/output was recorded. Also these are whole hospital sums that includes intraoperative as well as other locations in the hospital.

DESCRIPTION	COLUMN NAME	DATA TYPE
Unique Identifier of the patient	HSP_ACCOUNT_ID	numeric
Date recorded	RECORDED_DATE	date
	Urine	int
Sum total volume in ML of all crystalloids for the day. Please see the table Input- Output for a list of all crystalloids available.	Crystalloid	int
Total volume in ML of all colloids for the day. Please note that we only have extracted albumin (all concentrations)	Colloid	int
Total RBC (units vs mL)	PRBC	int
Total Fresh Frozen Plasma (units vs ml)	FFP	int
Total Platelets (units vs ml)	PLTS PHERES	int
Total Cryoprecipitate (units vs ml)	Cryoprecipitate	int
	Hemoconcentrator	int
	Cell Saver	int
Whole blood	Whole Blood	int
	Massive Transfusion	int
	Blood Loss	int

Input-Output Intraoperative

This is an extracted table with DAILY intraoperative total of Urine, individual blood products i.e. Plasma, Platelets, RBC, Cryoprecipitate, & Whole Blood in ml as well as Units., Crystalloids and, Colloids.

DESCRIPTION	COLUMN NAME	DATA TYPE
Unique Identifier of the patient (Anesthesia Episode ID)	EPISODE_ID	numeric

Date recorded	RECORDED_DATE	date
	Urine	int
Sum total volume in ML of all crystalloids for the day. Please see the table Input- Output for a list of all crystalloids available.	Crystalloid	int
Total volume in ML of all colloids for the day. Please note that we only have extracted albumin (all concentrations)	Colloid	int
Total RBC (ml)	PRBC	int
Total Fresh Frozen Plasma (ml)	FFP	int
Total Platelets (ml)	PLTS PHERES	int
Total Cryoprecipitate (ml)	Cryoprecipitate	int
Hemoconcentrator (ml)	Hemoconcentrator	int
Cell Saver (ml)	Cell Saver	int
Whole Blood (ml)	Whole Blood	int
Massive Transfusion (ml)	Massive Transfusion	int
Blood Loss (ml)	Blood Loss	Int
RBC_UNITS (total units)	RBC_UNITS	int
FFP_UNITS (total units)	FFP_UNITS	int
PLTS_UNITS (total units)	PLTS_UNITS	int
Cryoprecipitate_Units (total units)	Cryoprecipitate_Units	int
WholeBlood_Units (total units)	WholeBlood_Units	int

AQI_LABS- common labs

We have the lab values for 30 days prior, OR, entire inpatient stay, to 30 days post hospital stay that includes at least one anesthesia event

CBC

Hemoglobin

Hematocrit

WBC

Platelet

Coags

INR

Prothrombin Time

APTT

BASIC METABOLIC PANEL (all tests in this panel)

COMPREHENSIVE METABOLIC PANEL (all tests in this panel)

Creatinine

BUN

Ionized calcium

lactate

Troponin

ABG (arterial, venous, capillary)

pH

paO₂

pCO₂

HCO₃

BASE EXCESS

SaO₂

DESCRIPTION	COLUMN NAME	DATA TYPE
Patient identifier	MRN	char
Patient Visit ID	PAT_ENC_CSN_ID	Numeric
Order Procedure ID	ORDER_PROC_ID	Numeric
Order ID	ORDER_ID	Numeric
Procedure ID	PROC_ID	Numeric
Component ID	COMPONENT_ID	Numeric
	PROC_NAME	Varchar
	NAME	Varchar
	BASE_NAME	Varchar
	COMMON_NAME	Varchar
Name that you see on front end	EXTERNAL_NAME	Varchar
RESULT in numeric format	ORD_NUM_VALUE	Float
Result in varchar format	ORD_VALUE	Varchar
	REFERENCE_LOW	Varchar
	REFERENCE_HIGH	Varchar
	REF_NORMAL_VALS	Varchar
	REFERENCE_UNIT	Varchar
	SPECIMN_TAKEN_DATE	Datetime
	SPECIMN_TAKEN_TIME	Datetime
	RESULT_TIME	Datetime

AQI_ECG_RESULTS- 12-lead ECG interpretation

We have the ECG 12-LEAD Results for all patients enrolled at JHH with an anesthesia encounter.

DESCRIPTION	COLUMN NAME	DATA TYPE
	PAT_MRN_ID	char
	PAT_ENC_CSN_ID	Numeric
Order Procedure ID	ORDER_PROC_ID	Numeric
Procedure ID	PROC_ID	INT
Procedure Name (ECG 12-LEAD)	PROC_NAME	Varchar
	SPECIMN_TAKEN_DATE	Datetime
	RESULT_TIME	Datetime
Entire text of ECG Results	RESULTS_COMMENTS	Varchar
12-lead ECG rhythm (from cardiology reading)		

AKI METRIC

We have encoded the metric for Acute Kidney Injury (KDIGO) as follows.

DESCRIPTION	COLUMN NAME	DATA TYPE
	AnEpisodeID	char
Patient Visit ID	PAT_ENC_CSN_ID	numeric
Specimen taken time just prior to Anesthesia episode	BASELINE_SPECIMN_TAKEN_TIME	datetime
Result from creatinine test	BASELINE_ORD_VALUE	int
Reference normal range for the baseline test	BASELINE_REF_NORMAL_VALS	int
Specimen taken time (post / during anesthesia)	SPECIMN_TAKEN_TIME	Datetime
Result from creatinine test	ORD_VALUE	Int
Reference normal range for the test	REF_NORMAL_VALS	Varchar
1 if Increase in serum creatinine (Cr) > 0.3 mg/dl above baseline within 48 hours else 0	TYPE1	Boolean
1 if Increase in Cr to > 1.5 times baseline else 0	TYPE2	Boolean
Urine volume < 0.5 ml/kg/h for 6 hours (NOT ENCODED YET)	TYPE 3	Boolean

ELIXHAUSER COMORBIDITIES

We have Elixhauser comorbidities for each anesthesia case. The comorbidity was calculated on the basis of **diagnosis at the time of admission**.

REFERENCES:

1. Elixhauser A, Steiner D, Harris DR, et al. Comorbidity measures for use with administrative data. Med Care, 1998;36(1):8-27.
2. https://www.hcup-us.ahrq.gov/toolssoftware/comorbidityicd10/comorbidity_icd10.jsp

DESCRIPTION	COLUMN NAME	DATA TYPE
	UniqueID	char
Patient Visit ID	PAT_ENC_CSN_ID	numeric
	CHF	int
	VALVE	int
	PULMCIRC	int
	PERIVASC	int
	HTN	int
	HTNcx	int

	PARA	int
	NEURO	int
	CHRNLUNG	int
	DM	int
	DMCX	int
	HYPOTHY	int
	RENLFAIL	int
	LIVER	int
	ULCER	int
	AIDS	int
	LYMPH	int
	METS	int
	TUMOR	int
	ARTH	int
	COAG	int
	OBESE	int
	WGHTLOSS	int
	LYTES	int
	BLDLOSS	int
	ANEMDEF	int
	ALCOHOL	int
	DRUG	int
	PSYCH	int
	DEPRESS	int