Title of Study or Project:	Anesthetic management of transvaginal cervical cerclage in the Multicenter Perioperative Outcomes Group					
Primary Institution:	Weill Cornell Medicine					
Principal Investigator:	Jennifer L. Wagner, MD					
Co-Investigators:	Robert S. White, MD, MS, Virginia Tangel, Sharon Abramovitz, MD					
Type of Study:	Retrospective observational					
IRB Number/Status:	The project has been approved by Weill Cornell Medicine's Institutional Review Board as non-human subjects research due to the de-identifiable data with no date/timestamps.					
Hypothesis:	Our primary hypothesis is that transvaginal cervical cerclage procedures are more commonly performed with neuraxial anesthesia, with a considerably higher use of spinal anesthesia, than general anesthesia. Our secondary hypotheses are that the types and doses of anesthetics and opioid analgesics used in neuraxial cases vary widely, and that cases with general anesthesia are more likely to experience cardiovascular or pulmonary complications than cases with neuraxial anesthesia.					
Number of Patients/Participants:	All cases with a transvaginal cervical cerclage listed on the record					
Power Analysis:	None required, reporting incidence of procedure in MPOG database					
Proposed statistical test/analysis:	Descriptive statistics, data visualization					
Resources (Brief summary of resources for data collection, personnel, financial):	The MPOG database will be queried for the specified concept IDs with programmatic support. Statistical analyses and operational oversight will be funded from the Center for Perioperative Outcomes in the Department of Anesthesiology at Weill Cornell Medicine.					

Introduction

What is the significance of the clinical problem being addressed?

Transvaginal cervical cerclage (TCC) is placement of a stich within the cervix to prevent preterm labor in patients with cervical insufficiency. (1) According to a 2015 population based study, TCC is used in the United States in 0.3-0.4% of all pregnancies. (2) A single-center study at Jefferson University found that the rate of cerclage placement has been decreasing over time from 1.4% to 0.6% at their center. (3)

Little is known about the effect of anesthetic choice on maternal or neonatal outcomes. General anesthesia (GA) may be riskier in the pregnant population due to the increased risk of a difficult airway and aspiration compared to non-pregnant patients. The patient may also have concerns about the effects of GA drugs on the neonate. (4) Risks associated with neuraxial anesthesia in general include postdural puncture headache and high spinal. There is also no consensus regarding the optimal dosing strategy for neuraxial anesthesia for TCC but pregnant patients tend to be more sensitive to local anesthetics. Cerclage is typically an outpatient procedure, and lower doses of local anesthetic may reduce length of stay in recovery. (4)

What current gaps exist in the understanding of this problem?

Currently there is no consensus regarding the best choice of anesthetic technique for TCC, and there are no randomized trials comparing neuraxial with GA for the procedure (1,4). Neuraxial may be preferred by clinicians for its safety profile in pregnant patients in comparison to general anesthesia, as is the case for anesthesia for cesarean delivery (4). However, no large scale studies have evaluated the prevalence of different anesthetic techniques used for TCC; current practice patterns are unknown.

One retrospective cohort study of 487 cases from 2 medical centers in Israel found that GA was used more commonly (82.5%) than neuraxial (12.7%), and there were no differences in anesthetic or perioperative outcomes between the two groups (6). One small study of 37 patients compared spinal with general anesthesia and found that systolic blood pressure was lower in the spinal group; however, there was no difference in preterm delivery rates (7). A randomized controlled trial compared low dose intrathecal bupivacaine and fentanyl with intrathecal lidocaine for CSE for cerclage and found bupivacaine to be a safe alternative to lidocaine (8).

How will this project address this gap and advance clinical care and/or research knowledge?

At the present time, little is known about the optimal type of anesthesia or optimal dosing for neuraxial anesthesia or the effect of the anesthetic management choice for TCC on outcomes. Anesthetic choice could affect uterine tone and risk of rupture of membranes or preterm labor, risk of airway management complications in a pregnant patient, and effect blood pressure changes which could have placental perfusion implications.

In light of the possible complications related to anesthetic management, understanding the optimal dosing and anesthetic choice for TCC may improve maternal and fetal outcomes. The use of MPOG data

to study both the number and type of centers using neuraxial vs general anesthesia will present the unique opportunity to better understand practice patterns, which in turn, would ideally lead to improvements in both clinical efficacy and patient safety.

The specific aims of our projects are therefore to:

- 1. Investigate the incidence of various anesthetic techniques used for TCC in the MPOG database: neuraxial (spinal, epidural, combined spinal-epidural) and general anesthesia.
- 2. Investigate the types and doses of local anesthetics and types of opioids used for neuraxial anesthesia for TCC
- 3. Investigate the incidence of complications/morbidity associated with anesthesia for TCC and their relationship to type of anesthesia

Primary Outcome

Our primary outcome is the incidence of anesthetic type use (neuraxial vs. general) for TCC.

Secondary Outcomes

Our secondary outcomes are the prevalence of chloroprocaine, bupiviaciane, and lidocaine usage for neuraxial anesthesia for TCC.

Exploratory Outcomes

Our exploratory outcomes include cardiovascular and pulmonary complications associated with anesthesia type for TCC. These complications include but are not limited to: acute respiratory failure, respiratory arrest, respiratory insufficiency, and need for supplemental oxygen.

Methods

We will utilize data from the Multicenter Perioperative Outcomes Group (MPOG), a non-profit academic consortium of more than 100 investigators representing more than 8.2 million anesthetic cases integrated across 50 hospitals across 18 states and two countries. MPOG uses electronic health record and administrative data to analyze relationships between patient comorbidities, surgical procedures, perioperative care, interventions, and postoperative outcomes.

Using an MPOG Public User File, we will conduct a retrospective cohort study to assess the incidence of anesthesia type used for TCC in participating medical centers in the United States. To calculate total case volume by hospital, all cases with a listed with a procedure code for TCC (CPT 59320; cerclage of cervix, during pregnancy; vaginal) from US institutions will be identified and included in the study population.

Within that population, all cases who received general and neuraxial anesthesia will be identified. Within the neuraxial anesthesia cohort we will identify the type of neuraxial anesthetic used (epidural, combined spinal epidural, spinal) and the type and dose of local anesthetics and type of opioids used for these neuraxial anesthesia techniques.

Exclusion criteria are TCC performed at a non-US hospital or performed in any patient aged <18.

Our primary hypothesis is that TCC procedures are more commonly performed with neuraxial anesthesia, with a considerably higher use of spinal anesthesia, than general anesthesia. Our secondary hypotheses are that the types and doses of anesthetics and opioid analgesics used in neuraxial cases vary widely, and that cases with general anesthesia are more likely to experience cardiovascular or pulmonary complications than cases with neuraxial anesthesia.

Variables and Preparation

We will use the following variables in our study: patient demographic characteristics (age, race, ASA status), comorbidities as defined by Bateman (9) and Elixhauser identified using International Classification of Disease (ICD) codes, hospital and provider characteristics (institution type – academic vs. community, institution size), case characteristics (case duration, anesthesia duration, emergency status, ASA status, oxygen saturation, blood pressure, pulse rate, end tidal carbon dioxide, type of anesthesia, type/doses of drugs administered), and cardiovascular and pulmonary complications defined by preexisting MPOG indicators or calculated based on intraoperative physiologic data (acute respiratory failure, respiratory arrest, respiratory insufficiency, cardiac arrest).

Statistical Analysis

Frequencies (percentages), means (95% confidence intervals), medians (interquartile ranges) will be used to characterize the data. Categorical measures will be compared by the Pearson's chi-square test or ANOVA, as appropriate. Linear measures will be compared by the two-sided t-test. Equivalent non-parametric tests will be used in cases where the data is non-normally distributed.

All relevant pre- and intraoperative measures listed above will be compared by anesthesia type group: general and neuraxial anesthesia. These analyses will be conducted at the case level only.

IRB statement

The project has been approved by Weill Cornell Medicine's Institutional Review Board as non-human subjects research due to the de-identifiable data.

Study type

Retrospective observational (cross-sectional of MPOG database). The STROBE guidelines have been referenced and our proposal is in accordance with the checklist.

Variables to be collected

See detailed query specification.

Handling of missing data

Missing data will be diagnosed with appropriate techniques and addressed using complete case analysis or multiple imputation, if necessary.

Areas for discussion/known limitations

- Anesthetic records may not be accurate, miscoding, missing code
- Validity and accuracy of the primary data collection for cervical cerclage records
- Missing data and resulting unknown selection bias
- MPOG population may differ from general population undergoing anesthesia for cervical cerclage in the US
- CPT/ICD code exclusions
- Effect of type of cerclage: Shirodkar vs McDonald
- Not including transabdominal cerclage

References

- 1. Berghella V, Ludmir J, Simonazzi G, and Owen J.: Transvaginal cervical cerclage: evidence for perioperative management strategies. Am J Obstet Gynecol 2013; 209,3: pp. 181-192
- 2. Friedman AM, Ananth CV, Siddiq Z, D'Alton ME, Wright JD. Trends and predictors of cerclage use in the United States from 2005 to 2012 Obstet Gynecol 2015; 126 (2)
- 3. Suhag A., Saccone G., Bisulli M., Seligman N., Berghella V. Trends in cerclage use. Acta Obstet. Gynecol. Scand. 2015;94:1188–1194.
- 4. Aaronson J, Goodman S. Obstetric anesthesia: not just for cesareans and labor. Semin Perinatol. 2014;38:378–85.
- 5. Algert, C.S., et al., Regional block versus general anaesthesia for caesarean section and neonatal outcomes: a population-based study. BMC Med, 2009. **7**: p. 20.
- 6. Ioscovich A, Popov A, Gimelfarb Y, Gozal Y, Orbach-Zinger S, Shapiro J, Ginosar Y. Anesthetic management of prophylactic cervical cerclage: a retrospective multicenter cohort study. Arch Gynecol Obstet. 2015;291:509–12.
- 7. Yoon H.J., Hong J.Y., and Kim S.M.: The effect of anesthetic method for prophylactic cervical cerclage on plasma oxytocin: a randomized trial. Int J Obstet Anesth 2008; 17: pp. 26-30
- 8. Beilin Y, Zahn J, Abramovitz S, Bernstein HH, Hossain S, Bodian C. Subarachnoid small-dose bupivacaine versus lidocaine for cervical cerclage. *Anesth Analg*. 2003;97(1):56–61, table of contents.
- 9. Bateman BT, Mhyre JM, Hernandez-Diaz S, et al. Development of a comorbidity index for use in obstetric patients. Obstet Gynecol 2013;122(05):957–965

Variable (description or requested name) Case ID	MPOG Source Table AIMS IntraopCaseInfo	Column Name MPOG Case ID	Data Type string	DG Concept ID Note for Programmers
Anesthesia provider	AIMS_IntraopStaff	AIMS_Staff_Role	varchar(255)	6000-6999 For each concept ID, create a 1/0 flag for whether concept ID present on case.
Institution ID Institution Type (academic vs. community)	MPOG_Institutions AHA Database	MPOG_institution_ID	numeric(18,0)	do not include two Dutch institutions in the sample *For previous project, Shelley added this to dataset
Institution Size (?) Patient ID	AHA Database AIMS_IntraopCaseInfo	MPOG_Patient_ID	string	*For previous project, Shelley added this to dataset
Age Weight_kg	Phenotype Phenotype	Age (years) Weight (kg)	numeric numeric	
Race_raw Race phenotype	AIMS_Patients	AIMS_Race_Text Race	varchar(50)	4000-4050
Procedure type	Phenotype AIMS_IntraopCaseInfo	AIMS_Actual_Procedure_Text	Categorical varchar(1024)	
Anesthesia CPT Code Surgery CPT Code	AIMS_BillingProcedures AIMS_BillingProcedures	Charge_Capture_Primary_Anesthesia_Code Charge_Capture_Primary_Surgery_Code		
ICD 9 or 10 Code ICD 9 or 10 Code	AIMS_BillingProcedures AIMS_BillingDiagnoses	Charge_Capture_Primary_Diagnosis_Code AIMS_Diagnosis_Code	varchar(16)	ICD 9 or 10 depending on year ICD 9 or 10 depending on year
Lexicon of diagnosis code ASA Status	AIMS_BillingDiagnoses Phenotype	MPOG_Lexicon_Type_CD ASA Class (cleaned)	tinyint Categorical	
Emergency Status Anesthesia Duration	Phenotype	Emergency Status (ASA Class) Yes/No	Categorical	Create flag for "is emergency" 1/0
Case Duration	Phenotype Phenotype	Anesthesia Duration Case Duration	numeric numeric	
Elixhauser comorbidities Bateman comorbidities	Phenotype See "ICD Codes" tab	Comorbidity -	Categorical	pull all Elixhauser comorbidity phenotypes as separate columns pull all Bateman comorbidities as separate columns
Airway - Laryngeal Mask Airway placement note Airway - Laryngeal Mask airway size	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50209] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50142] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Airway - Laryngeal mask airway removed deep or awake Airway - Laryngeal Mask airway type	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50145] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50141] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Airway - Laryngeal mask airway placement difficulty Airway - Laryngeal mask airway placement technique	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50143] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50144] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Intubation Laryngoscopy Blade Type and Size	AIMS_IntraopNotes	MPOG_Note_Concept_ID	numeric(18,0)	[50115] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Intubation Endotracheal Tube Size Intubation Number of Attempts	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50122] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50118] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Intubation Direct Laryngoscopy View Intubation Endotracheal Tube Secured Distance	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50119] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50125] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Intubation Endotracheal Tube Type Intubation - atraumatic	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50123] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50197] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Intubation Tube Note Intubation - Approach	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50205] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50117] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Categorized note - Intubation	AIMS_IntraopNotes	MPOG_Note_Concept_ID	numeric(18,0)	[50695] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Intubation device and adjunct note oral Intubation - comment	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50207] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50688] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Intubation - Observed to be difficult Intubation view note	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50101] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50208] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Intubation Endotracheal Tube Secured Mechanism Intubation Extubated Awake or Deep	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50124] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50127] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Intubation Endotracheal Tube Stylet Used	AIMS_IntraopNotes	MPOG_Note_Concept_ID	numeric(18,0)	[50121] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Intubation Endotracheal Tube Secured Reference Point Intubation - cricoid pressure applied	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50126] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50334] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Intubation Bougie Introducer Used Intubation Laryngocsopy Cricoid Pressure or BURP Applied	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50120] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50116] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Intubation Fiberoptic Topicalization Type Emergence - ETT in place, patient manually ventilated	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50131] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50380] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Emergence - Patient spontaneously ventilating, ETT in place Intubation Fiberoptic Number of Attempts	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50634] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50133] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Intubation - endotracheal tube in situ Intubation - Videolaryngoscopy View	AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50671] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50100] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Intubation Fiberoptic Asleep or Awake	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID	numeric(18,0)	[50129] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Difficult intubation Intubation - Nasal approach note	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[90310] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50099] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Intubation Fiberoptic Existing Airway Device Intubation Fiberoptic Nasal or Oral	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50134] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50130] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Intubation - performed awake Intubation Fiberoptic Transtracheal block	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50670] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50132] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Neuraxial - spinal performed Neuraxial - Spinal vertebral interspace final	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50680] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50147] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Neuraxial - Spinal needle diameter (gauge)	AIMS_IntraopNotes	MPOG_Note_Concept_ID	numeric(18,0)	[50150] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Neuraxial - Spinal placement CSF observed note Neuraxial - Spinal needle length (cm)	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50351] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50151] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Neuraxial - Spinal needle approach Neuraxial - Spinal placement Blood observed in spinal needle note	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50148] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50353] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Neuraxial - Spinal dermatomal level achieved Neuraxial - Spinal placement CSF observed yes / no detail	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50153] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50352] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Neuraxial - Spinal placement Blood observed yes / no detail Epidural anesthesia catheter placement note	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID	numeric(18,0) numeric(18.0)	[50354] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Epidural catheter withdrawn to depth (cm)	AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0)	[50154] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50164] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Epidural vertebral interspace final Epidural needle approach	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50155] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50156] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Epidural test dose administered - note Epidural loss of resistance (saline or air)	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50349] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50161] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Epidural needle diameter (gauge) Neuraxial - Epidural placed for postoperative pain control	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18.0)	[50158] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50643] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Epidural needle length (cm) Epidural parasthesias during placement	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50159] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50166] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Epidural test dose administered - number of ML detail	AIMS_IntraopNotes	MPOG_Note_Concept_ID	numeric(18,0)	[50350] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Epidural loss of resistance depth (cm) Epidural catheter withdrawn to depth (cm) - detail	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50162] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50339] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Epidural catheter secured Epidural dermatomal level achieved	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50344] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50165] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Epidural catheter type or brand Obstetrics - Labor epidural start	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18,0)	[50163] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50050] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Epidural meniscus fall assessment - note Epidural meniscus fall ves / no - detail	AIMS_IntraopNotes AIMS_IntraopNotes	MPOG_Note_Concept_ID MPOG_Note_Concept_ID	numeric(18,0) numeric(18.0)	[50347] For each concept ID, create a 1/0 flag for whether concept ID present on case. [50348] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Obstetrics - Labor epidural end	AIMS_IntraopNotes	MPOG_Note_Concept_ID	numeric(18,0)	[50051] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Neuraxial technique - Combined Spinal / Epidural technique note Anesthesia technique: Neuraxial	AIMS_IntraopNotes Phenotype	MPOG_Note_Concept_ID Anesthesia technique: Neuraxial	numeric(18,0) Categorical	[50614] For each concept ID, create a 1/0 flag for whether concept ID present on case.
Anesthesia technique: Block Anesthesia technique: General	Phenotype Phenotype	Anesthesia technique: Block Anesthesia technique: General	Categorical Categorical	
Primary Anesthesia CPT Non-Opioid Analgesics	Phenotype Phenotype	Primary Anesthesia CPT Non-Opioid Analgesics	Categorical Categorical	
Morphine equivalency variable from ASPIRE dashboard CHLOROPROCAINE_3	Phenotype AIMS IntraopMedications	? MPOG_Med_Concept_ID	binary 0/1	10122 If any dose given, then 1; otherwise 0.
CHLOROPROCAINE_3_TYPE CHLOROPROCAINE_3_DOSE	AIMS IntraopMedications	MPOG_Dose_Type_CD AIMS_Med_Dose	binary 0/1	10122 if bolus, then 1; otherwise 0 (infusion).
CHLOROPROCAINE_3_UOM	AIMS_IntraopMedications AIMS_IntraopMedications	MPOG_UOM_Concept_ID	numeric(18,3) numeric(18,0)	10122 provide dose amount 10122 provide unit of measurement associated with administration
CHLOROPROCAINE_3_RT CHLOROPROCAINE_3_C	AIMS_IntraopMedications AIMS_IntraopMedications	MPOG_Route_Concept_ID AIMS_Med_Comment	numeric(18,0) varchar(max)	10122 provide route of administration associated with administration 10122
CHLOROPROCAINE_3_WT CHLOROPROCAINE_2	AIMS_IntraopMedications AIMS_IntraopMedications	AIMS_Patient_Dosing_Weight MPOG_Med_Concept_ID	numeric(18,3) binary 0/1	10122 10121 If any dose given, then 1; otherwise 0.
CHLOROPROCAINE_2_TYPE CHLOROPROCAINE_2_DOSE	AIMS_IntraopMedications AIMS_IntraopMedications	MPOG_Dose_Type_CD AIMS_Med_Dose	binary 0/1 numeric(18.3)	10121 if any observer, then 1; otherwise 0. 10121 if bolus, then 1; otherwise 0. 10121 provide dose amount
CHLOROPROCAINE_2_UOM	AIMS_IntraopMedications	MPOG_UOM_Concept_ID	numeric(18,0)	10121 provide unit of measurement associated with administration
CHLOROPROCAINE_2_RT CHLOROPROCAINE_2_C	AIMS_IntraopMedications AIMS_IntraopMedications	MPOG_Route_Concept_ID AIMS_Med_Comment	numeric(18,0) varchar(max)	10121 provide route of administration associated with administration 10121
CHLOROPROCAINE_2_WT CHLOROPROCAINE_1	AIMS_IntraopMedications AIMS_IntraopMedications	AIMS_Patient_Dosing_Weight MPOG_Med_Concept_ID	numeric(18,3) binary 0/1	10121 10120 If any dose given, then 1; otherwise 0.
CHLOROPROCAINE_1_TYPE CHLOROPROCAINE_1_DOSE	AIMS_IntraopMedications AIMS_IntraopMedications	MPOG_Dose_Type_CD AIMS Med Dose	binary 0/1 numeric(18,3)	10120 if bolus, then 1; otherwise 0. 10120 provide dose amount
CHLOROPROCAINE_1_UOM	AIMS_IntraopMedications	MPOG_UOM_Concept_ID	numeric(18,0)	10120 provide unit of measurement associated with administration
CHLOROPROCAINE_1_RT CHLOROPROCAINE_1_C	AIMS_IntraopMedications AIMS_IntraopMedications	MPOG_Route_Concept_ID AIMS_Med_Comment	numeric(18,0) varchar(max)	10120 provide route of administration associated with administration 10120
CHLOROPROCAINE_1_WT CHLOROPROCAINE	AIMS_IntraopMedications AIMS_IntraopMedications	AIMS_Patient_Dosing_Weight MPOG_Med_Concept_ID	numeric(18,3) binary 0/1	10120 10779 If any dose given, then 1; otherwise 0.
CHLOROPROCAINE_TYPE CHLOROPROCAINE_DOSE	AIMS_IntraopMedications AIMS_IntraopMedications	MPOG_Dose_Type_CD AIMS Med Dose	binary 0/1 numeric(18.3)	10779 if bolus, then 1; otherwise 0. 10779 provide dose amount
CHLOROPROCAINE_UOM	AIMS_IntraopMedications	MPOG_UOM_Concept_ID	numeric(18,0)	10779 provide unit of measurement associated with administration
CHLOROPROCAINE_RT CHLOROPROCAINE_C	AIMS_IntraopMedications AIMS_IntraopMedications	MPOG_Route_Concept_ID AIMS_Med_Comment	numeric(18,0) varchar(max)	10779 provide route of administration associated with administration 10779
CHLOROPROCAINE_WT LIDOCAINE_05	AIMS_IntraopMedications AIMS_IntraopMedications	AIMS_Patient_Dosing_Weight MPOG_Med_Concept_ID	numeric(18,3) binary 0/1	10779 10247 If any dose given, then 1; otherwise 0.
LIDOCAINE_05_TYPE	AIMS_IntraopMedications AIMS_IntraopMedications	MPOG_Dose_Type_CD AIMS Med Dose	binary 0/1 numeric(18,3)	10247 if bolus, then 1; otherwise 0. 10247 provide dose amount
LIDOCAINE_05_DOSE LIDOCAINE_05_UOM	AIMS_IntraopMedications	MPOG_UOM_Concept_ID	numeric(18,0)	10247 provide unit of measurement associated with administration
LIDOCAINE_05_DOSE LIDOCAINE_05_LOM LIDOCAINE_05_RT LIDOCAINE_05_C	AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications	MPOG_UOM_Concept_ID MPOG_Route_Concept_ID AIMS_Med_Comment	numeric(18,0) numeric(18,0) varchar(max)	10247 provide route of administration associated with administration 10247
LIDOCAINE_05_DOSE LIDOCAINE_05_UOM LIDOCAINE_05_RT	AIMS_IntraopMedications AIMS_IntraopMedications	MPOG_UOM_Concept_ID MPOG_Route_Concept_ID	numeric(18,0) numeric(18,0)	10247 provide route of administration associated with administration

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LIDOCAINE 1. LIDOCAINE 1. RT
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MMPOG, Route, Concept, ID
MMS, Med, Comment
AMS, Patten, Doving, Weight
MPOG, Med, Concept, ID
MPOG, Boute, Concept, ID
MPOG, Med, Concept, ID
MPOG, Dose, Type, CD
AMS, Med, Cose
MPOG, LOM, Concept, ID
MPOG, Boute, Concept, ID
MPOG, Route, Concept, ID
MPOG, Boute, Concept, ID
MPOG, Boute, Concept, ID
MPOG, Boute, Concept, ID
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                                         100252
10025 if any dose given, then 1; otherwise 0.
10025 if sholus, then 1; otherwise 0.
10025 if provide dose amount
10025 provide dose amount
10025 provide unit of measurement associated with administration
10025 provide route of administration associated with administration
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               10A27 provide route of administration associated with administration 10A27 10A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100e9 provide to a diministration associated with administration 10010 of any dose given, then 1, otherwise 0. 10070 of any dose given, then 1, otherwise 0. 10070 provide dose amount 10070 provide could see amount 10070 provide route of administration associated with administration 10070 provide route of administration associated with administration 10070 10070 provide dose amount 10071 provide dose amoun
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binary 0/1
binary 0/1
numeric(18,3)
numeric(18,0)
varchar(max)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10071
10072 if any dose given, then 1; otherwise 0.
10072 if bolus, then 1; otherwise 0.
10072 if bolus, then 1; otherwise 0.
10072 provide does amount
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10072 provide onti of measurement associated with administration
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                                         10072
10500 if any dose given, then 1; otherwise 0.
10560 if bolus, then 1; otherwise 0.
10560 if polus, then 1; otherwise 0.
10560 provide dose amount
10560 provide or of measurement associated with administration
10560 provide route of administration associated with administration
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   10569 provide unit of measurement associated with administration 10560 provide route of administration associated with administration 10560 provide route of administration associated with administration 10561 15 bolus, then 1; otherwise 0. 10561 if polus, then 1; otherwise 0. 10561 provide cover and 10561 provide unit of measurement associated with administration 10561 provide route of administration associated with administration 10561 provide route of administration associated with administration 10561 provide route of administration associated with administration 10562 provide cover and 10562 provide cover and 10562 provide cover and 10562 provide cover and 10562 provide route of administration associated with administration 10562 provide route of administration associated with administration 10563 provide out of measurement associated with administration 10563 provide cover of administration 10563 provide route of administration 10563 provide cover of administration 10563 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                            10581
10586 if any dose given, then 1; otherwise 0.
10586 if bolus, then 1; otherwise 0.
10586 provide dose amount
10586 provide unit of measurement associated with administration
10586 provide route of administration associated with administration
10586 provide route of administration associated with administration
10586 10586
10586
10580 if solven then 1; otherwise 0.
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REMIFENTANIL_DOSE REMIFENTANIL UOM	AIMS_IntraopMedications	AIMS Med Dose	numeric(18,3)	10390 provide dose amount
	AIMS IntraopMedications	MPOG UOM Concept ID	numeric(18,0)	10390 provide unit of measurement associated with administration
REMIFENTANIL RT	AIMS IntraopMedications	MPOG Route Concept ID	numeric(18,0)	10390 provide route of administration associated with administration
REMIFENTANIL_RI				10390 provide route of administration associated with administration
	AIMS_IntraopMedications	AIMS_Med_Comment	varchar(max)	
REMIFENTANIL_WT	AIMS_IntraopMedications	AIMS_Patient_Dosing_Weight	numeric(18,3)	10390
ALFENTANIL	AIMS_IntraopMedications	MPOG_Med_Concept_ID	binary 0/1	10020 If any dose given, then 1; otherwise 0.
ALFENTANIL_TYPE	AIMS_IntraopMedications	MPOG_Dose_Type_CD	binary 0/1	10020 if bolus, then 1; otherwise 0.
ALFENTANIL_DOSE	AIMS_IntraopMedications	AIMS_Med_Dose	numeric(18,3)	10020 provide dose amount
ALFENTANIL UOM	AIMS IntraopMedications	MPOG_UOM_Concept_ID	numeric(18,0)	10020 provide unit of measurement associated with administration
ALFENTANIL RT	AIMS_IntraopMedications	MPOG_Route_Concept_ID	numeric(18,0)	10020 provide route of administration associated with administration
ALFENTANIL C	AIMS IntraopMedications	AIMS Med Comment	varchar(max)	10020
ALFENTANIL_WT	AIMS IntraopMedications	AIMS_Patient_Dosing_Weight	numeric(18,3)	10020
SUFENTANIL	AIMS IntraopMedications	MPOG Med Concept ID	binary 0/1	10414 if any dose given, then 1; otherwise 0.
SUFENTANIL TYPE	AIMS_IntraopMedications	MPOG_Dose_Type_CD	binary 0/1	10414 if bolus, then 1; otherwise 0.
SUFENTANIL_DOSE SUFENTANII LIOM	AIMS_IntraopMedications	AIMS_Med_Dose	numeric(18,3)	10414 provide dose amount
	AIMS_IntraopMedications	MPOG_UOM_Concept_ID	numeric(18,0)	10414 provide unit of measurement associated with administration
SUFENTANIL_RT	AIMS_IntraopMedications	MPOG_Route_Concept_ID	numeric(18,0)	10414 provide route of administration associated with administration
SUFENTANIL_C	AIMS_IntraopMedications	AIMS_Med_Comment	varchar(max)	10414
SUFENTANIL_WT	AIMS_IntraopMedications	AIMS_Patient_Dosing_Weight	numeric(18,3)	10414
FENTANYL	AIMS_IntraopMedications	MPOG_Med_Concept_ID	binary 0/1	10186 If any dose given, then 1; otherwise 0.
FENTANYL_TYPE	AIMS_IntraopMedications	MPOG_Dose_Type_CD	binary 0/1	10186 if bolus, then 1; otherwise 0.
FENTANYL DOSE	AIMS IntraopMedications	AIMS Med Dose	numeric(18,3)	10186 provide dose amount
FENTANYL UOM	AIMS IntraopMedications	MPOG UOM Concept ID	numeric(18,0)	10186 provide unit of measurement associated with administration
FENTANYL_RT	AIMS IntraopMedications	MPOG_Route_Concept_ID	numeric(18,0)	10186 provide route of administration associated with administration
FENTANYL C	AIMS_IntraopMedications	AIMS Med Comment	varchar(max)	10186
				10186
FENTANYL_WT	AIMS_IntraopMedications	AIMS_Patient_Dosing_Weight	numeric(18,3)	
NALOXONE	AIMS_IntraopMedications	MPOG_Med_Concept_ID	binary 0/1	10312 If any dose given, then 1; otherwise 0.
NALOXONE_TYPE	AIMS_IntraopMedications	MPOG_Dose_Type_CD	binary 0/1	10312 if bolus, then 1; otherwise 0.
NALOXONE_DOSE	AIMS_IntraopMedications	AIMS_Med_Dose	numeric(18,3)	10312 provide dose amount
NALOXONE_UOM	AIMS_IntraopMedications	MPOG_UOM_Concept_ID	numeric(18,0)	10312 provide unit of measurement associated with administration
NALOXONE_RT	AIMS_IntraopMedications	MPOG_Route_Concept_ID	numeric(18,0)	10312 provide route of administration associated with administration
NALOXONE C	AIMS_IntraopMedications	AIMS Med Comment	varchar(max)	10312
NALOXONE_WT	AIMS_IntraopMedications	AIMS_Patient_Dosing_Weight	numeric(18,3)	10312
MORPHINE	AIMS IntraopMedications	MPOG Med Concept ID	binary 0/1	10306 if any dose given, then 1; otherwise 0.
MORPHINE_TYPE	AIMS_IntraopMedications	MPOG_Dose_Type_CD	binary 0/1	10306 if bolus, then 1: otherwise 0.
MORPHINE DOSE	AIMS IntraonMedications	AIMS Med Dose	numeric(18.3)	10306 provide dose amount
MORPHINE_UOM	AIMS_IntraopMedications	MPOG_UOM_Concept_ID	numeric(18,0)	10306 provide unit of measurement associated with administration
MORPHINE_RT	AIMS_IntraopMedications	MPOG_Route_Concept_ID	numeric(18,0)	10306 provide route of administration associated with administration
MORPHINE_C	AIMS_IntraopMedications	AIMS_Med_Comment	varchar(max)	10306
MORPHINE_WT	AIMS_IntraopMedications	AIMS_Patient_Dosing_Weight	numeric(18,3)	10306
MEPERIDINE	AIMS_IntraopMedications	MPOG_Med_Concept_ID	binary 0/1	10279 If any dose given, then 1; otherwise 0.
MEPERIDINE TYPE	AIMS IntraopMedications	MPOG_Dose_Type_CD	binary 0/1	10279 if bolus, then 1; otherwise 0.
MEPERIDINE_DOSE	AIMS_IntraopMedications	AIMS_Med_Dose	numeric(18,3)	10279 provide dose amount
MEPERIDINE_UOM	AIMS_IntraopMedications	MPOG_UOM_Concept_ID	numeric(18,0)	10279 provide unit of measurement associated with administration
MEPERIDINE RT	AIMS IntraopMedications	MPOG_Route_Concept_ID	numeric(18.0)	10279 provide route of administration associated with administration
MEPERIDINE C	AIMS IntraopMedications	AIMS Med Comment	varchar(max)	10279
MEPERIDINE_C MEPERIDINE WT	AIMS_IntraopMedications			10279
	AIMS_IntraopMedications AIMS_IntraopMedications	AIMS_Patient_Dosing_Weight	numeric(18,3)	
		MPOG_Med_Concept_ID	binary 0/1	10311 If any dose given, then 1; otherwise 0.
NALBUPHINE				
NALBUPHINE NALBUPHINE_TYPE	AIMS_IntraopMedications	MPOG_Dose_Type_CD	binary 0/1	10311 if bolus, then 1; otherwise 0.
NALBUPHINE NALBUPHINE_TYPE NALBUPHINE_DOSE	AIMS_IntraopMedications AIMS_IntraopMedications	AIMS_Med_Dose	numeric(18,3)	10311 provide dose amount
NALBUPHINE NALBUPHINE_TYPE	AIMS_IntraopMedications			
NALBUPHINE NALBUPHINE_TYPE NALBUPHINE_DOSE	AIMS_IntraopMedications AIMS_IntraopMedications	AIMS_Med_Dose	numeric(18,3)	10311 provide dose amount
NALBUPHINE NALBUPHINE_TYPE NALBUPHINE_DOSE NALBUPHINE_UOM	AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications	AIMS_Med_Dose MPOG_UOM_Concept_ID	numeric(18,3) numeric(18,0)	10311 provide dose amount 10311 provide unit of measurement associated with administration
NALBUPHINE NALBUPHINE_TYPE NALBUPHINE_DOSE NALBUPHINE_UOM NALBUPHINE_UOM NALBUPHINE_RT	AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications	AIMS_Med_Dose MPOG_UOM_Concept_ID MPOG_Route_Concept_ID	numeric(18,3) numeric(18,0) numeric(18,0)	10311 provide dose amount 10311 provide unit of measurement associated with administration 10311 provide route of administration associated with administration
NALBUPHINE_TYPE NALBUPHINE_TYPE NALBUPHINE_DOSE NALBUPHINE_DOM NALBUPHINE_RT NALBUPHINE_RT NALBUPHINE_C NALBUPHINE_C	AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications	AIMS_Med_Dose MPOG_UOM_Concept_ID MPOG_ROUM_Concept_ID AIMS_Med_Comment AIMS_Patient_Dosing_Weight	numeric(18,3) numeric(18,0) numeric(18,0) varchar(max) numeric(18,3)	10311 provide dose amount 10311 provide unit of measurement associated with administration 10311 provide route of administration associated with administration 10311 10311
NALBUPHINE TYPE NALBUPHINE_TOSE NALBUPHINE_DOSE NALBUPHINE_UOM NALBUPHINE_ET NALBUPHINE_C NALBUPHINE_T NALBUPHINE_VT HYDROMORPHONE	AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications	AIMS_Med_Dose MPOG_UOM_Concept_ID MPOG_Route_Concept_ID AIMS_Med_Comment AIMS_Patient_Dosing_Weight MPOG_Med_Concept_ID	numeric(18,3) numeric(18,0) numeric(18,0) varchar(max) numeric(18,3) binary 0/1	10311 provide dose amount 10311 provide until of measurement associated with administration 10311 provide route of administration associated with administration 10311 10311 10311 10319 any dose given, then 1; otherwise 0.
NALBUPHINE_TYPE NALBUPHINE_TOSE NALBUPHINE_DOSE NALBUPHINE_UT NALBUPHINE_RT NALBUPHINE_RT NALBUPHINE_C HYDROMORPHONE HYDROMORPHONE HYDROMORPHONE HYDROMORPHONE HYDROMORPHONE HYDROMORPHONE HYDROMORPHONE HYDROMORPHONE HYDROM	AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications AIMS_IntraopMedications	AIMS_Med_Dose MP0G_UOM_Concept_ID MP0G_ROME_Concept_ID AIMS_Med_Comment AIMS_Patient_Dosing_Weight MP0G_Med_Concept_ID MP0G_Dose_Type_CD	numeric(18,3) numeric(18,0) numeric(18,0) varchar(max) numeric(18,3) binary 0/1 binary 0/1	10311 provide dose amount 10311 provide unt of measurement associated with administration 10311 provide route of administration associated with administration 10311 10311 10319 if any dose given, then 1; otherwise 0. 10219 if bolus, then 1; otherwise 0.
NALBUPHINE TYPE NALBUPHINE_DOSE NALBUPHINE_DOSE NALBUPHINE_UOM NALBUPHINE_E NALBUPHINE_C NALBUPHINE_C NALBUPHINE_W HYDROMORPHONE_TYPE HYDROMORPHONE_TYPE HYDROMORPHONE_DOSE	AIMS_IntraopMedications	AIMS_Med_Dose MPOG_UOM_Concept_ID MPOG_Route_Concept_ID AIMS_Med_Comment AIMS_Patient_Dosing_Weight MPOG_Med_Concept_ID MPOG_Dose_Type_CD AIMS_Med_Dose	numeric(18,3) numeric(18,0) numeric(18,0) varchar(max) numeric(18,3) binary 0/1 binary 0/1 numeric(18,3)	10311 provide dose amount 10311 provide until of measurement associated with administration 10311 provide route of administration associated with administration 10311 10311 10311 10319 flany dose given, then 1; otherwise 0. 10219 if bolus, then 1; otherwise 0. 10219 if bolus, then 1; otherwise 0.
MALBUPHINE MALBUPHINE_DOSE NALBUPHINE_DOSE NALBUPHINE_DOM NALBUPHINE_RT NALBUPHINE_RT NALBUPHINE_WT HYDROMORPHONE_WT HYDROMORPHONE_DOSE HYDROMORPHONE_DOSE HYDROMORPHONE_LOOSE HYDROMORPHONE_LOOM	AIMS_IntraopMedications	AIMS, Med, Dose MPG, LUMC, Concept, ID MPGG, Route, Concept, ID AIMS, Med, Comment AIMS, Pattern, Dosing, Weight MPGG, Med, Concept, ID MPGG, Dose, Type, CD AIMS, Med, Dose MPGG, LOOK, Concept, ID MPGG, LOOK, Concept, ID	numeric(18,3) numeric(18,0) numeric(18,0) varchar(max) numeric(18,3) binary 0/1 binary 0/1 numeric(18,3) numeric(18,0)	10311 provide dose amount 10311 provide unt of measurement associated with administration 10311 provide route of administration associated with administration 10311 10319 if any dose given, then 1; otherwise 0. 10219 if bolus, then 1; otherwise 0. 10219 provide dose amount 10219 provide dose amount 10219 provide unt of measurement associated with administration
NALBUPHINE NALBUPHINE_DOSE NALBUPHINE_DOSE NALBUPHINE_UOM NALBUPHINE_C NALBUPHINE_C NALBUPHINE_T NALBUPHINE_T NALBUPHINE_WT HYDROMORPHONE_TYPE HYDROMORPHONE_TOSE HYDROMORPHONE_LOGS HYDROMORPHONE_LOGS HYDROMORPHONE_UOM HYDROMORPHONE_ST	AMS_IntraopMedications	AIMS, Med. Dose MPGB_UDMC_Concept_ID MPGB_GRUTE_CONCEPT_ID AIMS_Med. Comment AIMS_Patient_Dosing_Weight AIMS_Patient_Dosing_Weight MPGG_MOSE_Type_CD AIMS_Med_Dose MPGG_UDM_Concept_ID MPGG_ROUGE_CONCEPT_ID MPGG_ROUGE_CONCEPT_ID	numeric(18,3) numeric(18,0) numeric(18,0) varchar(max) numeric(18,3) binary 0/1 binary 0/1 numeric(18,3) numeric(18,0) numeric(18,0)	10311 provide dose amount 10311 provide unit of measurement associated with administration 10311 provide route of administration associated with administration 10311 10311 10311 10319 10219 if any dose given, then 1; otherwise 0. 10219 if bolus, then 1; otherwise 0. 10219 provide route of administration 10219 provide unit of measurement associated with administration 10219 provide orute of administration associated with administration
MALBUPHINE TYPE MALBUPHINE_DOSE MALBUPHINE_DOSE MALBUPHINE_DOM MALBUPHINE_RT MALBUPHINE_RT MALBUPHINE_WT HYDROMORPHONE HYDROMORPHONE_DOSE HYDROMORPHONE_DOSE HYDROMORPHONE_TOSE HYDROMORPHONE_TOM HYDROMORPHONE_TOM HYDROMORPHONE_TOM HYDROMORPHONE_TOM HYDROMORPHONE_TOM HYDROMORPHONE_TOM	AIMS_IntraopMedications	AIMS, Med Dose MPOG, UDM, Concept, ID MPOG Boute, Concept, ID AIMS, Med Comment AIMS, Patient, Dosing, Weight MPOG, Med, Concept, ID AIMS, Med Dose MPOG, Dober, Type, CD AIMS, Med, Dose MPOG, GoVE, Concept, ID MPOG, Boute, Concept, ID AIMS, Med, Comment	numeric(18,3) numeric(18,0) numeric(18,0) varchar(max) numeric(18,3) binary 0/1 binary 0/1 numeric(18,3) numeric(18,0) varchar(max)	10311 provide dose amount 10311 provide unt of measurement associated with administration 10311 provide route of administration associated with administration 10311 10311 10319 flany dose given, then 1; otherwise 0. 10219 if bolus, then 1; otherwise 0. 10219 provide dose amount 10219 provide unto imeasurement associated with administration 10219 provide route of administration associated with administration 10219 provide route of administration associated with administration 10219
NALBUPHINE NALBUPHINE_TOPE NALBUPHINE_DOSE NALBUPHINE_UOM NALBUPHINE_C NALBUPHINE_C NALBUPHINE_C NALBUPHINE_W HYDROMORPHONE_TOPE HYDROMORPHONE_TOPE HYDROMORPHONE_DOSE HYDROMORPHONE_LOM HYDROMORPHONE_LOM HYDROMORPHONE_TO HYDROMORPHONE_C HYDROMORPHONE_C HYDROMORPHONE_C HYDROMORPHONE_C	AIMS_IntrappMedications	AIMS, Med Dose MPOG UDM (Concept ID MPOG Route Concept ID MPOG Route Concept ID AIMS, Med Comment AIMS, Patient Dosing, Weight MPOG Med Concept ID MPOG Dose Type; CD AIMS, Med Dose MPOG UDM (Concept ID MPOG Route Concept ID AIMS, Med Dosment AIMS, Patient Dosing, Weight MRS, Patient Dosing, Weight	numeric(18.3) numeric(18.0) varchar(max) numeric(18.0) varchar(max) numeric(18.3) binary 0/1 numeric(18.0) numeric(18.0) varchar(max) numeric(18.3)	10311 provide dose amount 10311 provide until of measurement associated with administration 10311 provide route of administration associated with administration 10311 10311 10311 10319 10219 if any dose given, then 1; otherwise 0. 10219 if bolus, then 1; otherwise 0. 10219 provide dose amount 10219 provide unit of measurement associated with administration 10219 provide route of administration associated with administration 10219 10219
MABUPHINE TYPE MABUPHINE_DOSE MABUPHINE_DOSE MABUPHINE_UOM MABUPHINE_T MABUPHINE_T MABUPHINE_T MABUPHINE_T HYDROMORPHONE MYDROMORPHONE MYDROMORPHONE_DOSE HYDROMORPHONE_TOSE HYDROMORPHONE_TOM HYDROMORPHONE_WT BUTOPHYDROMORPHONE_WT BUTOPHYDROMORPHONE_W	AIMS. Intraphedications AIMS. Intraphedicatio	AIMS, Med Dose MPOG, UDM, Concept, ID MPOG, Boute, Concept, ID AIMS, Med, Comment AIMS, Patient, Dosing, Weight MPOG, Med, Concept, ID AIMS, Med, Dose MPOG, Dobe, Concept, ID MPOG, Boute, Concept, ID MPOG, Boute, Concept, ID AIMS, Med, Comment AIMS, Patient, Dosing, Weight MPOG, Med, Concept, ID AIMS, Med, Concept, ID	numeric(18.3) numeric(18.0) varchar(max) numeric(18.3) binary 0/1 binary 0/1 numeric(18.3) numeric(18.0) varchar(max) numeric(18.3) sibilary 0/1	10311 provide dose amount 10311 provide unt of measurement associated with administration 10311 provide route of administration associated with administration 10311 10311 10219 flany dose given, then 1; otherwise 0. 10219 f'bolus, then 1; otherwise 0. 10219 provide dose amount 10219 provide unto imeasurement associated with administration 10219 provide route of administration associated with administration 10219 10219 10219 10219 10219 10210
NALBUPINE NALBUPINE_TYPE NALBUPINE_DOSE NALBUPINE_UOM NALBUPINE_C NALBUPINE_C NALBUPINE_C NALBUPINE_W HYDROMORPHONE_TYPE HYDROMORPHONE_TYPE HYDROMORPHONE_DOSE HYDROMORPHONE_LOM HYDROMORPHONE_GOSE HYDROMORPHONE_C HYDROMORPHONE_C HYDROMORPHONE_C HYDROMORPHONE_C HYDROMORPHONE_W BUTORPHANOL_W BUTORPHANOL_W BUTORPHANOL_W	AIMS_IntraopMedications	AIMS, Med Dose MPOG UDM (Concept ID MPOG Route Concept ID MPOG Route Concept ID AIMS, Med Comment AIMS, Patient, Dosing, Weight MPOG Med Concept ID MPOG Dose Type: CD AIMS, Med Dose MPOG UDM (Concept ID AIMS, Med Comment AIMS, Patient Dosing, Weight MPOG Ned Concept ID MMOG Route Concept ID MMOG Route Concept ID MMOG Route Concept ID MMOG Med (Concept ID MPOG Ober Type: CD	numeric(18,3) numeric(18,0) numeric(18,0) varchar(max) numeric(18,3) binary 0/1 numeric(18,3) numeric(18,0) numeric(18,0) varchar(max) numeric(18,3) binary 0/1 binary 0/1	10311 provide dose amount 10311 provide until of measurement associated with administration 10311 provide route of administration associated with administration 10311 10311 10311 10319 10219 if any dose given, then 1; otherwise 0. 10219 if bolus, then 1; otherwise 0. 10219 provide dose amount 10219 provide until of measurement associated with administration 10219 provide route of administration associated with administration 10219 10219 1029 if any dose given, then 1; otherwise 0. 1029 if bolus, then 1; otherwise 0.
MABUPHINE TYPE MABUPHINE_DOSE MABUPHINE_DOSE MABUPHINE_UOM MABUPHINE_T MABUPHINE_T MABUPHINE_T MABUPHINE_T HYDROMORPHONE MYDROMORPHONE MYDROMORPHONE_DOSE HYDROMORPHONE_TOSE HYDROMORPHONE_TOM HYDROMORPHONE_WT BUTOPHYDROMORPHONE_WT BUTOPHYDROMORPHONE_W	AIMS. Intraphedications AIMS. Intraphedicatio	AIMS, Med Dose MPOG, UDM, Concept, ID MPOG, Boute, Concept, ID AIMS, Med, Comment AIMS, Patient, Dosing, Weight MPOG, Med, Concept, ID AIMS, Med, Dose MPOG, Dobe, Concept, ID MPOG, Boute, Concept, ID MPOG, Boute, Concept, ID AIMS, Med, Comment AIMS, Patient, Dosing, Weight MPOG, Med, Concept, ID AIMS, Med, Concept, ID	numeric(18.3) numeric(18.0) varchar(max) numeric(18.3) binary 0/1 binary 0/1 numeric(18.3) numeric(18.0) varchar(max) numeric(18.3) sibilary 0/1	10311 provide dose amount 10311 provide unt of measurement associated with administration 10311 provide route of administration associated with administration 10311 10311 10219 flany dose given, then 1; otherwise 0. 10219 f'bolus, then 1; otherwise 0. 10219 provide dose amount 10219 provide unto imeasurement associated with administration 10219 provide route of administration associated with administration 10219 10219 10219 10219 10219 10210
NALBUPINE NALBUPINE_TYPE NALBUPINE_DOSE NALBUPINE_UOM NALBUPINE_C NALBUPINE_C NALBUPINE_C NALBUPINE_W HYDROMORPHONE_TYPE HYDROMORPHONE_TYPE HYDROMORPHONE_DOSE HYDROMORPHONE_LOM HYDROMORPHONE_GOSE HYDROMORPHONE_C HYDROMORPHONE_C HYDROMORPHONE_C HYDROMORPHONE_C HYDROMORPHONE_W BUTORPHANOL_W BUTORPHANOL_W BUTORPHANOL_W	AIMS_IntraopMedications	AIMS, Med Dose MPOG, UDM, Concept, ID MPOG, Boute, Concept, ID AIMS, Med, Comment AIMS, Patient, Dosing, Weight MPOG, Med, Concept, ID MPOG, Dose, Type, CD AIMS, Med, Dose MPOG, UDM, Concept, ID MPOG, Boute, Concept, ID MPOG, Dose, Type, CD AIMS, Med, Dose	numeric(18,3) numeric(18,0) numeric(18,0) varchar(max) numeric(18,3) binary 0/1 numeric(18,3) numeric(18,0) numeric(18,0) varchar(max) numeric(18,3) binary 0/1 binary 0/1	10311 provide dose amount 10311 provide until of measurement associated with administration 10311 provide route of administration associated with administration 10311 10311 10311 10319 10219 if any dose given, then 1; otherwise 0. 10219 if bolus, then 1; otherwise 0. 10219 provide dose amount 10219 provide until of measurement associated with administration 10219 provide route of administration associated with administration 10219 10219 1029 if any dose given, then 1; otherwise 0. 1029 if bolus, then 1; otherwise 0.
MARBUPHINE MARBUPHINE_DOSE MARBUPHINE_DOSE MARBUPHINE_DOM MARBUPHINE_RT MARBUPHINE_RT MARBUPHINE_W HYDROMORPHONE HYDROMORPHONE HYDROMORPHONE_DOSE HYDROMORPHONE_TOPE HYDROMORPHONE_TOPE HYDROMORPHONE_W HYDROM	AIMS. Intraphedications	AIMS, Med Dose MPOG UDM (Concept ID MPOG Route Concept ID MPOG Route Concept ID AIMS, Med Comment AIMS, Patient, Dosing, Weight MPOG Med Concept ID MPOG Dose Type: CD AIMS, Med Dose MPOG UDM (Concept ID AIMS, Med Comment AIMS, Patient Dosing, Weight MPOG Ned Concept ID MMOG Route Concept ID MMOG Route Concept ID MMOG Route Concept ID MMOG Med (Concept ID MPOG Ober Type: CD	numeric(18.3) numeric(18.0) varchar(max) numeric(18.0) varchar(max) binary 0/1 binary 0/1 numeric(18.3) numeric(18.0) varchar(max) numeric(18.0) varchar(max) numeric(18.3) binary 0/1 binary 0/1 numeric(18.3)	10311 provide dose amount 10311 provide unit of measurement associated with administration 10311 provide route of administration associated with administration 10311 10311 10311 10219 flamy dose given, then 1; otherwise 0. 10219 if bolus, then 1; otherwise 0. 10219 provide dose amount 10219 provide unit of measurement associated with administration 10219 provide unit of measurement associated with administration 10219 provide route of administration associated with administration 10219 provide route of administration associated with administration 10219 10219 1029 If any dose given, then 1; otherwise 0. 10089 If any dose given, then 1; otherwise 0.
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