

# User Guide for the 2012 ACS NSQIP Pediatric Participant Use Data File

American College of Surgeons National Surgical Quality Improvement Program - Pediatric



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## 1. Introduction

This document is designed to accompany the 2012 Pediatric Participant Use Data File (PUF) available for download on the American College of Surgeons National Surgical Quality Improvement Program Pediatric (ACS NSQIP Pediatric) website (www.pediatric.acsnsqip.org). The sections contained herein will provide the user with information on how to request the Pediatric PUF, the contents of the data files, the data collection background, the inclusion and exclusion criteria for cases and hospitals, the data limitations, and the data point definitions and descriptions.

This user guide applies specifically to the 2012 Pediatric PUF. Hospitals utilizing the Pediatric PUF from a different year should refer to the user guide specifically tailored to that particular data set.

## 2. Data Request Process

An individual who has an official appointment at a fully enrolled Pediatric site and wants to obtain a copy of the Pediatric PUF can do so by visiting <a href="www.pediatric.acsnsqip.org">www.pediatric.acsnsqip.org</a> and following the steps listed below:

- 1. From the ACS NSQIP Pediatric main page (<a href="www.pediatric.acsnsqip.org">www.pediatric.acsnsqip.org</a>) the requestor can click on the "Quality Support Tools" tab and then click on the "Participant Use File" link.
- 2. Following a brief introduction, the requestor can click on "Request Data Set."
- 3. This will take the requestor to the Data Use Agreement. This is a 3-page document that implements the data protections of the Health Insurance Portability and Accountability Act of 1996 (HIPAA) and the ACS NSQIP Hospital Participation Agreement. Delivery of the PUF is contingent on agreement to the terms and conditions specified within the Data Use Agreement. You can read the Data Use Agreement from this page or download the 3-page document. The requestor is then required to type in their first and last name and click on "Request Data File." By clicking on "Request Data File" the requestor agrees to the terms and conditions of the Data Use Agreement.
- 4. Requestors will then be required to complete a brief online form to provide ACS with basic information about themselves, including the participating hospital in which they are currently employed and in what capacity, as well as how the requestor plans on using the Pediatric PUF data. Once all of the required fields are completed, the requestor clicks "Submit."

- 5. ACS NSQIP staff will review the request in a timely manner. Program contacts at participating sites will be contacted at this time to confirm the requestor's affiliation with the hospital and confirm internal approval of the PUF request.
- 6. Following receipt and confirmation of the information submitted, an email will be sent to the requestor containing a username and password along with the URL to download the data. The web link will be active from the time of the email for 10 full days (240 hours).
- 7. The file will be available in 3 different formats (Text, SPSS, SAS) and depending on the connection speed should take between 5 and 30 minutes to download.
- 8. The requestor may be contacted to confirm receipt of the data file and allow for feedback on the delivery mechanism, data points contained, and data file format.

## 3. File Description

Each fall a Pediatric PUF will be made available for the previous calendar year's data. The Pediatric PUF is available in 1 of 3 different formats - Text, SAS, and SPSS. The 2012 file contains 327 variables for each case, and a variable-by-variable description is provided starting on page 11. A brief description of the different formats follows:

File Name	Type	Uncompressed File Size	Description
ACS_PEDS_PUF12.txt	tab delimited TXT file	96 MB	Contains 327 HIPAA compliant variables on 51,008 cases submitted from 50 sites in 2012.
ACS_PEDS_PUF12.sas7bdat	SAS 9.2 data file	2.7 GB	Same information as stated above in SAS data format.
ACS_PEDS_PUF12.sav	SPSS 16.0 data file	909 MB	Same information as stated above in SPSS data format.

## 4. Data Collection Background and Data Quality

The ACS NSQIP Pediatric collects data on 129 variables, including preoperative risk factors, intraoperative variables, and 30-day postoperative mortality and morbidity outcomes for patients undergoing major surgical procedures in both the inpatient and outpatient setting. A site's trained and certified Surgical Clinical Reviewer (SCR) captures these data using a variety of methods including medical chart abstraction.

Required data variables are entered via web-based data collection to the ACS NSQIP Pediatric website. Portions of the data may be automatically populated by a software program that was developed to extract data from the participating hospital's existing information systems. Requestors should contact the SCR(s) at their hospital for detailed information on how the hospital collects its ACS NSQIP Pediatric data.

To ensure the data collected are of the highest quality, the ACS NSQIP Pediatric has developed a host of different training mechanisms for the SCRs and conducts an Inter-Rater Reliability (IRR) Audit of selected participating sites. In addition to an initial web-based training program, the ACS NSQIP Pediatric requires SCRs to complete a series of web-based training modules followed by a certification exam that must be taken annually. The modules and certification exam focus on the program, processes, and analysis; preoperative, intraoperative, and postoperative definitions; and case studies. These modules are complemented by a growing online decision support system that ensures the SCRs have the knowledge and resources available to collect high-quality data.

The IRR Audit is a fundamental tool of ACS NSQIP Pediatric to assess the quality of the data collected at participating sites. The process involves the review of multiple charts, some of which are selected randomly and others selected based on criteria designed to identify potential reporting errors. For example, cases with 5 or more preoperative risk factors and no reported mortality or morbidity or cases with 2 or fewer preoperative risk factors and reported mortality or morbidity will be selected for chart review. Operating room logs are also audited to ensure correct sampling of cases.

The combined results of the audits completed to date revealed an overall disagreement rate of approximately 2% for all assessed program variables. The ACS NSQIP Pediatric has determined that an IRR Audit disagreement rate of 5% or less is acceptable. Sites that have higher than a 5% disagreement rate are not provided a hospital odds ratio in the ACS NSQIP Pediatric Semi Annual Report and may be required to undergo an additional audit following recommendations from the ACS NSQIP Pediatric.

## 5. Sampling Process and Case Inclusion/Exclusion Criteria

#### Systematic Sampling Process

Large surgical services normally experience a significant volume of surgical cases. This presents the SCRs with the problem of managing an overwhelming workload. Therefore, a systematic sampling system called the 8-day cycle was developed to prevent bias in choosing cases for assessment. The SCR uses the 8-day cycle to select completed cases from the hospital's operative log. The schedule works as follows: If the first cycle begins on a Monday, it continues through to the following Monday (an 8-day period of time). The next cycle begins on Tuesday and continues through to the following Tuesday, and so on. There are 46 8-day cycles in 1 year, and the program requires that data be submitted for 40 of those cycles. The process ensures that cases have an equal chance of being selected from each day of the week. Case selection and case mix are monitored by the program on a weekly basis to ensure that the sampling is appropriate.

Hospitals with a high volume of surgical cases capture the first 35 consecutive cases meeting the inclusion/exclusion criteria in the 8-day cycle.

#### Case Inclusion Criteria

The following inclusion criteria were applied to cases collected in 2012. For the current inclusion/exclusion criteria please contact the ACS NSQIP Pediatric Clinical Support Team at clinical support@pediatric.acsnsqip.org.

The ACS NSQIP Pediatric includes all cases with CPT codes that are listed on the CPT inclusion list.

#### Case Exclusion Criteria

The following exclusion criteria were applied to cases collected in 2012. For the current inclusion/exclusion criteria please contact the ACS NSQIP Pediatric Clinical Support Team at clinicalsupport@pediatric.acsnsqip.org.

- Patients 18 years of age and older
- A return to the operating room/ICU setting as the principal operative procedure, if
  it is related to an occurrence or complication from any procedure (surgical or
  otherwise) regardless of where the procedure was performed, within 30 days
  or within the same admission, regardless of whether the procedure was a
  NSQIP assessed surgical procedure.
- More than 5 of each of the following types of procedures
  - Appendectomy
  - Laparoscopic Cholecystectomy
  - Gastromstomy

• Trauma Cases -

Specifically: Any injury with a principal ICD-9 diagnostic code within the range of 800-959.9. Additionally, excludes any surgical procedure related to the index trauma procedure(s), which occur during the same hospitalization. Any operation performed after the patient has been discharged from the trauma stay will be included, if they met NSQIP Pediatric program inclusion criteria. Any suspected abuse/neglect with ICD-9 code within the range of 959.50-995.59 will be excluded.

- Exception to Trauma Criteria: Include cases where there is an isolated limb section fracture and included CPT code.
- Transplant Cases -

Specifically: A patient who is admitted to the hospital for organ transplant surgery, and has additional surgical procedures performed during the same hospital stay, will be excluded. Any operation performed after the patient has been discharged from the transplant stay will be included.

- Concurrent Cases -
- An additional operative procedure performed by a different surgical team under the same anesthetic.
- CPT code different from that of the Principal Operative Procedure: an additional
  operative procedure performed by a different surgical team under the same
  anesthetic is not included as a separate case, but is listed as a concurrent
  procedure.
- Cases with CPT codes not on the CPT Code Inclusion List
- SCR on vacation Each site is allowed to assign 6 of the 8-day cycles as vacation cycles and therefore does not need to collect cases during those cycles.

#### Hospital Exclusion Criteria

In addition to the case inclusion/exclusion criteria, hospital inclusion/exclusion criteria are also imposed. To maintain the highest level of data quality, only cases included in the odds ratio analysis are included in the Pediatric PUF. These cases go through an additional level of scrutiny as they are passed from data collection to statistical analysis. A site is excluded from the odds ratio calculations and the PUF if it fits any of the following criteria:

- 30-day follow-up rate is under 80%
- Inter-Rater Reliability Audit disagreement rate is over 5%

## 6. Data Limitations

While every effort has been made to make the Pediatric PUF as complete as possible, the data do have certain limitations. Some of these limitations have been deliberately introduced to safeguard the privacy of patients (such as removal of absolute dates). Other limitations are due to resource constraints (such as the collection of generic surgical variables only). The following items represent the most salient limitations of the data:

- Because such a wide variety of operations are tracked, the variables are
  necessarily generic in nature. This limitation may pose difficulties for researchers
  attempting in-depth research on specific conditions or operations.
- Patients are followed after surgery for a maximum of 30 days. Complications or death after that period are not included.
- In order to comply with HIPAA requirements, all absolute dates have been removed. The most critical of these is the date of surgery, which has been reduced to year of surgery only. Some dates (hospital entry, dates of laboratory tests, and so on) have been recoded into durations e.g. Date of Admission and Date of Discharge is recoded into Hospital Length of Stay.
- In order to comply with the Hospital Participation Agreement (HPA) that is agreed to between the ACS and participating sites, facility identifiers as well as geographic information regarding the case have been removed. The HPA stipulates that the ACS does not identify participating sites. Site identification could be possible even with blinded identifiers through advanced statistics. A stipulation of access to the Pediatric PUF is completion of the Data Use Agreement that strictly prohibits attempts to identify hospitals, health care providers, or patients.
- While many risk factors are tracked, preventative measures are not recorded which can lead to an overestimation of the risk of certain conditions when such measures are routinely taken before surgery.
- The data are submitted from hospitals that are participating in the ACS NSQIP Pediatric and do not represent a statistically valid nationally representative sample.

Most patients do not receive all possible preoperative laboratory tests, so some of
these variables have a high percentage of missing values (59% to 88%, depending
on the tests). This high percentage of missing data can make it problematic to use
these variables in a traditional logistic regression model as well as in many other
types of analysis.

This list may not include all data limitations and additional limitations may apply in future versions of the data.

### 7. Contact Information

All questions about the Pediatric User Guide or Pediatric PUF, as well as comments and suggestions for improvements are welcome and may be directed to Brian Matel, ACS NSQIP Statistical Reports Manager via email at <a href="mailto:bmatel@facs.org">bmatel@facs.org</a>.

# 8. Frequently Asked Questions

## **Request Process**

- Q: Who has access to this file?
- A: Any individual with an official appointment at a fully participating pediatric site will be given access to the file following completion of the Data Use Agreement and a short set of questions that are available on the website.
- Q: Is the file available to individuals from nonparticipating sites?
- A: At this time the data files are only available to individuals with official appointments at fully participating pediatric sites.
- Q: I am at a pediatric participating site and would like to work on a research project with others from a different site that is not participating. Will I be allowed to do that?
- A: No. At this time use of the file is restricted to individuals at fully participating pediatric sites.
- Q: How do I obtain a copy of this file?
- A: Please see the "Data Request Process" on page 1 of this document for a step-by-step approach on how to do so.

#### **Contents of the Files**

- Q: What is in this file?
- A: The file contains Health Insurance Portability and Accountability Act (HIPAA) de-identified data from sites participating in the ACS NSQIP Pediatric that received odds ratios in 2012. Each record includes 327 variables. The variable name, variable label, data definition, and other pertinent information are provided in Section 10: Data Variables and Definitions.
- Q: Are other Pediatric PUF data sets available?
- A: No, 2012 is the first Pediatric PUF
- Q: Are site identifiers included in the database?
- A: At this time we do not provide any geographic or site-specific identification. We took this approach to ensure the privacy of both the participating sites and surgeons.
- Q: Are there surgeon-specific identifiers included in the database?
- A: At this time we do not provide any surgeon-specific information. We took this approach to ensure the privacy of both the participating sites and surgeons.
- Q: Why does the Pediatric PUF exclude specific dates?
- A: In order to release the Pediatric PUF, certain adjustments to the data are required to ensure proper protection of patient information. To meet these requirements, we remove all elements of dates (except quarter of admission and year) for dates directly related to an individual. For more information on the 18 data elements that are required for removal, please visit <a href="http://privacyruleandresearch.nih.gov/">http://privacyruleandresearch.nih.gov/</a> or <a href="http://privacyruleandresearch.nih.gov/pdf/HIPAA Booklet 4-14-2003.pdf">http://privacyruleandresearch.nih.gov/pdf/HIPAA Booklet 4-14-2003.pdf</a>.
- Q: The ACS NSQIP Pediatric program collects 129 variables, but the database contains 327 variables. What are the additional variables?
- A: The additional variables contained in the Pediatric PUF relate to computed durations. For example, the admission and discharge dates are used to calculate hospital length of stay. In addition, each complication in the ACS NSQIP Pediatric requires the use of 3 different variables in the database. There are a few other data elements collected in the ACS NSQIP Pediatric that require multiple variables in the database.

- Q: I am the Surgeon Champion or Surgical Clinical Reviewer from a site that has records in the Pediatric PUF and would like to know which specific records are ours.
- A: You may contact Brett Beemer, ACS NSQIP Application Support Specialist, via email at <a href="mailto:bbeemer@facs.org">bbeemer@facs.org</a> to request a file that will contain the Case IDs from your facility.

#### Values in the Data

- Q: Why do some cases have complications that do not have a known duration from operation to complication?
- A: In each of these cases, the date of the complication was invalid, which inhibited the calculation of duration. The number of days from operation to complication variable is coded as -99 for these cases.
- Q: Why do some of the preoperative lab values have duration from lab to operation, but a value of -99 for the lab value?
- A: The results of the lab tests can be entered manually and thus are susceptible to data entry error. Depending on the preoperative lab variable roughly 1% of the cases had invalid values and these invalid values were set to -99 to simplify analysis. It is also possible that some cases have valid lab values, but are missing duration from lab to operation variable. This discrepancy is also related to a data entry error and the program continues to improve the data collection software to minimize the potential for data entry errors.
- Q: When performing analysis on the five digit CPT codes in the Other and Concurrent variables, how should I interpret those cases with a valid 5 digit CPT code but a CPT description set to NULL?
- A: If the case has a valid 5 digit CPT code that procedure occurred and should be evaluated as such. The CPT description is a secondary variable and provided for convenience. In the processing of large amounts of data some descriptions are purposefully or inadvertently removed.

#### **File Formats**

- Q: In what file formats are the data available?
- A: The data files are made available in a tab delimited TXT file, an SPSS file, and an SAS file.

	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments				
	CaseID	Num	Case Identification Number	Each case or record in the database has a unique CaseID number.						
2	SEX	Char	Gender	Gender	Male; Female					
3	RACE	Char	Race	Race	American Indian or Alaska Native					
-	-				Asian					
					Black or African American					
			1		Native Hawaiian or Pacific Islander					
			1		Unknown					
			1		White					
			1							
4	ETHNICITY HISPANIC	Char	Hispanic Ethnicity	Hispanic Ethnicity	Yes; No	NULL = Unknown				
5	PRNCPTX	Char	Principal operative procedure CPT code	The principal operative procedure is the most complex of all the procedures						
_			description	performed by the primary operating team during the trip to the operating room.						
			description	Additional procedures requiring separate CPT codes and/or concurrent						
			1							
			1	procedures will be entered separately in the "Other Procedures" or "Concurrent						
			1	Procedures" categories.						
6	CPT	Char	CPT	The CPT code of the principal operative procedure.						
	WORKRVU	Num	Work Relative Value Unit	Work Relative Value Unit						
	INOUT	Char	Inpatient/outpatient	The hospital's definition of inpatient and outpatient status.	Outpatient; Inpatient					
9	TRANST	Char	Transfer status	The patient's transfer status which includes the following options: From outside	From home/clinic/doctor's office					
			1	hospital includes patients that were transferred from another facility and were	Through ER, including outside ER with direct hospital					
			1	considered an inpatient at that facility If the kind of facility could not be	admission					
			1	determined 'Other' is entered.	From outside hospital (NICU, PICU, Impatient on General					
			1		floor, Adult ICU)					
			1		Chronic care/Rehab/Intermediate Care/Spinal Cord					
										1
			1		Other					
10	AGE_DAYS	Num	Age of patient in days at time of surgery	Age of patient in days at time of suregery						
11	AdmYR	Num	Year of Admission	Year of admission to the hospital						
	OperYR	Num	Year of Operation	Year the surgical procedure is performed						
	DISCHDEST				Skilled Care, Not Home	NULL = Unknown				
13	DISCHDEST	Char	Discharge Destination	Designate whether the patient was discharged to home or to another type of	Skilled Care, Not notile	NOLL - UIKIOWII				
			facility. Choose the patient's discharge destination from the following selections:  (1) Skilled Care, not home (e.g., transitional care unit, subacute hospital,		<del> </del>					
					Unskilled Facility Not Home	-				
					Facility Which was Home					
			1		Home					
			1	(2) Unskilled facility, not home (e.g., nursing home or assisted facility-if not	Separate Acute Care					
			1	patient's home preoperatively)  (3) Facility which was home (e.g., return to a chronic care, unskilled facility, or assisted living-which was the patient's home preoperatively)	Rehab					
			1							
			1		Expired					
							Unknown			
				(4) Home						
				(5) Separate acute care (e.g., transfer to another acute care facility)						
				(5) Separate acute care (e.g., transfer to another acute care facility)						
				(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab						
				(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown						
14	ANESTECH	Char	Principal anesthesia technique	(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired	Epidural					
14	ANESTECH	Char	Principal anesthesia technique	(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown  The principal anesthesia technique used. General anesthesia takes						
14	ANESTECH	Char	Principal anesthesia technique	(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown	General					
14	ANESTECH	Char	Principal anesthesia technique	(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown  The principal anesthesia technique used. General anesthesia takes	General Local					
14	ANESTECH	Char	Principal anesthesia technique	(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown  The principal anesthesia technique used. General anesthesia takes	General Local Caudal					
14	ANESTECH	Char	Principal anesthesia technique	(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown  The principal anesthesia technique used. General anesthesia takes	General Local Caudal None					
14	ANESTECH	Char	Principal anesthesia technique	(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown  The principal anesthesia technique used. General anesthesia takes	General Local Caudal					
14	ANESTECH	Char	Principal anesthesia technique	(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown  The principal anesthesia technique used. General anesthesia takes	General Local Caudal None Other					
14	ANESTECH	Char	Principal anesthesia technique	(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown  The principal anesthesia technique used. General anesthesia takes	General Local Caudal None Other Regional					
14	ANESTECH	Char	Principal anesthesia technique	(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown  The principal anesthesia technique used. General anesthesia takes	General Local Caudal None Other Regional Spinal					
14	ANESTECH	Char	Principal anesthesia technique	(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown  The principal anesthesia technique used. General anesthesia takes	General Local Caudal None Other Regional					
				(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown  The principal anesthesia technique used. General anesthesia takes precedence over all other forms of anesthesia.	General Local Caudal None Other Regional Spinal Unknown					
	ANESTECH SURGSPEC		Principal anesthesia technique  Surgical Specialty	(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown  The principal anesthesia technique used. General anesthesia takes precedence over all other forms of anesthesia.	General Local Caudal None Other Regional Spinal Unknown  Pediatric Cardiovascular-Thoracic					
				(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown  The principal anesthesia technique used. General anesthesia takes precedence over all other forms of anesthesia.	General Local Caudal None Other Regional Spinal Unknown					
				(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown  The principal anesthesia technique used. General anesthesia takes precedence over all other forms of anesthesia.	General Local Caudal None Other Regional Spinal Unknown  Pediatric Cardiovascular-Thoracic Pediatric Neurosurgery					
				(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown  The principal anesthesia technique used. General anesthesia takes precedence over all other forms of anesthesia.	General Local Caudal None Other Regional Spinal Unknown Pediatric Cardiovascular-Thoracic Pediatric Neurosurgery Pediatric Orthopedic Surgery					
				(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown  The principal anesthesia technique used. General anesthesia takes precedence over all other forms of anesthesia.	General Local Caudal None Other Regional Spinal Unknown  Pediatric Cardiovascular-Thoracic Pediatric Neurosurgery Pediatric Orthopedic Surgery Pediatric Otolaryngolgy (ENT)					
				(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown  The principal anesthesia technique used. General anesthesia takes precedence over all other forms of anesthesia.	General Local Caudal None Other Regional Spinal Unknown  Pediatric Cardiovascular-Thoracic Pediatric Neurosurgery Pediatric Otlaryngolgy (ENT) Pediatric Surgery					
				(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown  The principal anesthesia technique used. General anesthesia takes precedence over all other forms of anesthesia.	General Local Caudal None Other Regional Spinal Unknown  Pediatric Cardiovascular-Thoracic Pediatric Neurosurgery Pediatric Orthopedic Surgery Pediatric Otolaryngolgy (ENT)					
				(5) Separate acute care (e.g., transfer to another acute care facility) (6) Rehab (7) Expired (8) Unknown  The principal anesthesia technique used. General anesthesia takes precedence over all other forms of anesthesia.	General Local Caudal None Other Regional Spinal Unknown  Pediatric Cardiovascular-Thoracic Pediatric Neurosurgery Pediatric Otlaryngolgy (ENT) Pediatric Surgery					

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
					Cardiovascular-Thoracic	
					General Surgery	
					Gynecology	
					Neurosurgery	
					Orthopedic	
					Otolaryngology (ENT)	1
					Urology	-
16	HEIGHT	Num	Height at surgery in inches	The patient's most recent height documented in the medical record in inches	erology	-99 = Unknown
				(in).		
17	WEIGHT	Num	Weight at surgery in pounds	The patient's most recent weight documented in the medical record in pounds (lbs).		-99 = Unknown
18	DIABETES	Char	Diabetes mellitus requiring therapy with non-insulin agents, or insulin	The treatment regimen of the patient's chronic, long-term management (> 2 weeks). Diabetes mellitus is a metabolic disorder of the pancreas whereby the individual requires daily dosages of exogenous parenteral insulin or a non-insulin anti-diabetic agent to prevent a hyperglycemia/metabolic acidosis. Patients whose diabetes is controlled by diet alone are not included. No: no diagnosis of diabetes or diabetes controlled by diet alone. Non-Insulin: a diagnosis of diabetes requiring therapy with a non-insulin anti-diabetic agent (such as oral agents or other non-insulin agents). Insulin: a diagnosis of diabetes requiring daily insulin therapy	No; Non-Insulin; Insulin	
19	DNR	Char	Do not resuscitate (DNR) status	"YES" is entered if the patient has had a Do-Not-Resuscitate (DNR) order written in the physician's order sheet of the patient's chart and it has been signed or co-signed by an attending physician in the 30 days prior to surgery. If the DNR order as defined above was rescinded immediately prior to surgery in order to operate on the patient, "YES" is entered. "NO" is entered if DNR discussions are documented in the progress note, but no official DNR order has been written in the physician order sheet or if the attending physician has not signed the official order.	Yes; No	
20	PREM_BIRTH	Char	Premature Birth	The number of completed weeks of gestation is entered for births prior to 37 weeks of gestation. If the number of weeks is not documented, "Unknown" is	No	
				Weeks of gestation. If the number of weeks is not accumented, children is	I th 04	4
					Less than 24 completed weeks gestation	
					24 completed weeks gestation	
					25-26 completed weeks	
					27-28 completed weeks	1
					·	
					29-30 completed weeks	
					31-32 completed weeks	
	1				33-34 completed weeks	1
					35-36 completed weeks	1
					· · · · · · · · · · · · · · · · · · ·	4
					Unknown	
21	VENTILAT	Char	Ventilator dependence	"YES" is entered if a preoperative patient required ventilator-assisted respiration at any time during the 48 hours preceding surgery. This includes patients on BiPAP and CPAP.	Yes; No	
22	CPNEUMON	Char	Current pneumonia	"YES" is entered if the patient has a new pneumonia or recently diagnosed pneumonia and on current antibiotic treatment at the time the patient is brought to the OR. Patients with pneumonia must meet criteria from both <u>Raddiology</u> and <u>Signs/Symptoms/Laboratory</u> sections listed as follows:	Yes; No	
				Radiology:  One definitive chest radiological exam (x-ray or CT)* with at least one of the following:  New or progressive and persistent infiltrate  Consolidation or opacity (e.g. air-space disease, patchy areas of increased density, focal opacification)  Cavitation  Pneumatoceles, in infants ≤ 1 year old  Note: In patients with underlying pulmonary or cardiac disease (e.g. respiratory distress syndrome, bronchopulmonary dysplasia, pulmonary edema, or chronic obstructive pulmonary disease), two or more serial chest radiological exams (x-ray or CT) are acceptable.		

sition #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
		Туре		Signs/Symptoms/Laboratory: FOR ANY PATIENT, at least one of the following: -Fever (<38 C or >100.4 F) with no other recognized cause -Leukopenia (<4000 WBC/mm3) or leukocytosis(≥12,000 WBC/mm3) And At least one of the following: -5% Bronchoalveolar lavage (BAL) -obtained cells containing >=10,000 cfu/ml intracellular bacteria on direct microscopic exam (e.g., Gram stain) -Positive growth in blood culture not related to another source of infection -Positive growth in blood culture from minimally contaminated lower respiratory tract (LRT) specimen (e.g. BAL or protected specimen brushing) OR At least two of the following: -New onset of purulent sputum, or change in character of sputum, or increased respiratory secretions, or increased suctioning requirements -New onset or worsening cough, or dyspnea, or tachypnea -Rales or bronchial breath sounds -Worsening gas exchange (e.g. O2 desaturations (e.g., PaO2/FiO2 ≤ 240), increased oxygen requirements, or increased ventilator demand)  ALTERNATE CRITERIA, for infants ≤ 1 year old: Worsening gas exchange (e.g., O2 desaturations, increased oxygen requirements, or increased ventilator demand) AND		
				AND  at least three of the following:  - Documentation of temperature instability with no other recognized cause  - Leukopenia ( <a href="LeuKopenia">LeuKopenia (<a )="" href="LeuKopenia">LeuKopenia (<a )="" href="LeuKopenia">LeuKopenia (<a< td=""><td></td><td></td></a<></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>		
				ALTERNATE CRITERIA, for child > 1 year old or ≤ 12 years old: at least three of the following:  Fever (>38.4 °C or > 101.1°F) or hypothermia (<36.5 °C or <97.7°F) with no other recognized cause  Leukopenia (<4000 WBC/mm3) or leukocytosis (≥15.000 WBC/mm3)  New onset of purulent sputum or change in character of sputum or increased respiratory secretions or increased suctioning requirements  New onset or worsening cough, or dyspnea, apnea, or tachypnea (see age-defined parameters below)  Rales or bronchial breath sounds  Worsening gas exchange [e.g. O2 desaturations (e.g. pulse oximetry <94%), increased oxygen requirements or increased ventilation demand]		
	ASTHMA		History of Asthma	(RAD) resulting in functional disability in daily activities, chronic medication requirement, or hospitalization (not including ER visit or 23 hour observation) for treatment of RAD within one year prior to surgery. "YES" is entered for the patient who is on scheduled daily medications for asthma or RAD, but does not have a formal diagnosis in the chart.	Yes; No	
24	CYSTIC_FIB	Char	History of Cystic Fibrosis	"YES" is entered if the patient has a diagnosis of cystic fibrosis with or without respiratory compromise.	Yes; No	
	HXCLD	Char	Bronchopulmonary Dysplasia/Chronic Lung Disease	"YES" is entered for patients with a documented diagnosis of Bronchopulmonary Dysplasia (BPD) or Chronic Lung Disease. Patients with Cystic Fibrosis are only included if their disease has a Chronic Lung Disease component.	Yes; No	
	OXYGEN_SUP	Char	Oxygen Support	"YES" is entered for patients who require supplemental oxygen support at the time of surgery. Oxygen can be delivered by any modality for any reason. Patients requiring supplemental oxygen at night are included. Patients who only receive oxygen in the OR are not included.	Yes; No	
27	TRACHEOSTOMY	Char	Tracheostomy	"YES" is entered if the patient has a tracheostomy present at the time of surgery. The patient may or may not be receiving ventilator breaths through the tracheostomy.	Yes; No	

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
28	STRUCT_PULM_AB	Char	Structural Pulmonary/Airway Abnormalities	"YES" is entered if a structural pulmonary and/or airway abnormality is present with or without respiratory comprise. Pneumothorax or pleural effusion with respiratory compromise is included only if present within 7 days of surgery. Patients with a diagnosis of obstructive sleep apnea that is supported by a documented sleep study are included.	Yes; No	
29	ESOVAR	Char	Esophageal/Gastric/Intestinal Disease	"YES" is entered for patients diagnosed with congenital, acquired, or structural intestinal tract disorder involving esophagus, stomach, small intestine, or colon. Gastroesophageal reflux is included only if requiring medication at the time of surgery. Patients with a diagnosis of Cystic Fibrosis are only included if their disease has an intestinal/esophageal/gastric disease component. Patients with pyloric stenosis are included only if it is unrepaired.	Yes; No	
30	LBP_DISEASE	Char	Biliary/Liver/Pancreatic Disease	"YES" is entered for patients diagnosed with chronic congenital, acquired, or structural liver, biliary, or pancreatic disease resulting in a functional abnormality. Patients with a diagnosis of Cystic Fibrosis are included only if their disease has a liver or biliary disease component. Patients undergoing cholecystectomy for acute cholecystitis are not included.	Yes; No	
31	CRF	Char	Cardiac Risk Factors	No Risk Factors: No pre-existing cardiac conditions or compromise of cardiac function requiring medication.  Minor: 1) Cardiac condition with or without medicationa and maintenance (e.g. Atrial Septal Defect, Small to moderate Ventricular Septal Defect with no symptoms or symptoms of well controlled congestive heart failure, Patent Ductus Arteriosis). 2) S/P repair of congenital heart defect with normal cardiovascular function and no meds (e.g. Atrial Septal Defect/Patent Foramen Ovale, Ventricular Septar Defect, Patent Ductus Arteriosis, Coarctation of the aorta).  Major: 1) S/P repair of congenital heart defect with residual hemodynamic abnormality with or without medications (e.g. Tetrology of Fallot with wide open pulmonary insufficiency, Aortic valve disease with aorite stenosis or aortic insufficiency based on presence of echocardiographic gradient, all single ventricle patients [severe Atrioventricular Canal, Hypoplastic left heart syndrome (including stage 1 repair)])	No Risk Factors; Minor; Major; Severe	
				Severe: 1) Uncorrected cyanotic heart disease. 2) Patients with any documented pulmonary hypertension. 3) Patients with ventricular dysfunction requiring medications, may or may not be on heart transplant list (e.g. hypertrophic cardiomyopathy).		
	CRD_ICD9_1	Char	Cardiac ICD9 - 1	ICD-9 code corresponding to a cardiac condition reported in the patient's medical record		NULL = Unknown
	CRD_ICD9_2	Char	Cardiac ICD9 - 2	ICD-9 code corresponding to a cardiac condition reported in the patient's medical record		NULL = Unknown
	CRD_ICD9_3	Char	Cardiac ICD9 - 3	ICD-9 code corresponding to a cardiac condition reported in the patient's medical record		NULL = Unknown
35	CRD_ICD9_4	Char	Cardiac ICD9 - 4	ICD-9 code corresponding to a cardiac condition reported in the patient's medical record		NULL = Unknown
36	CRD_ICD9_5	Char	Cardiac ICD9 - 5	ICD-9 code corresponding to a cardiac condition reported in the patient's medical record		NULL = Unknown
37	CRD_ICD9_6	Char	Cardiac ICD9 - 6	ICD-9 code corresponding to a cardiac condition reported in the patient's medical record		NULL = Unknown
38	CRD_ICD9_7	Char	Cardiac ICD9 - 7	ICD-9 code corresponding to a cardiac condition reported in the patient's medical record		NULL = Unknown
39	CRD_ICD9_8	Char	Cardiac ICD9 - 8	ICD-9 code corresponding to a cardiac condition reported in the patient's medical record		NULL = Unknown
40	CRD_ICD9_9	Char	Cardiac ICD9 - 9	ICD-9 code corresponding to a cardiac condition reported in the patient's medical record		NULL = Unknown
41	CRD_ICD9_10	Char	Cardiac ICD9 - 10	ICD-9 code corresponding to a cardiac condition reported in the patient's medical record		NULL = Unknown

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
42	PRVPCS		Previous cardiac surgery	"YES" is entered if the patient has had cardiac surgery or a catheter-based intervention for the repair/replacement/reconstruction of a congenital or acquired structural or functional lesion of the heart and/or great vessels.	Yes; No	
43	RENAFAIL	Char	Acute renal failure	"YES" is entered if the patient has experienced acute renal failure within 7 days prior to surgery. Acute renal failure is defined as a rising creatinine above 2.0 mg/dl within 7 days prior to surgery.	Yes; No	
44	DIALYSIS	Char	Currently on dialysis	"YES" is entered if the patient has acute or chronic renal failure requiring treatment with peritoneal dialysis, hemodialysis, hemofiltration, hemodiafiltration, or ultrafiltration within 2 weeks prior to surgery.	Yes; No	
45	COMA	Char	Coma >24 hours	"YES" is entered if patient is unconscious, or postures to painful stimuli, or is unresponsive to all stimuli entering surgery. This does not include drug-induced coma.	Yes; No	
46	CVA		CVA/stroke or traumatic/acquired brain injury with resulting neurological deficit	"YES" is entered if patient has a history of a cerebrovascular accident (embolic, thrombotic, or hemorrhagic) with persistent residual motor, sensory, or cognitive dysfunction. (e.g., hemiplegia, hemiparesis, aphasia, sensory deficit, impaired memory). Includes patients with central apnea.	Yes; No	
47	TUMORCNS	Char	Tumor involving CNS	"YES" is entered if patient has a space-occupying tumor of the brain or spinal cord, which may be benign (e.g., meningiomas, ependymoma, oligodendroglioma) or primary (e.g., astrocytoma, glioma, glioblastoma multiform) or secondary malignancies (e.g., metastatic lung, breast, malignant melanoma). Other tumors that may involve the CNS include lymphomas and sarcomas. "YES" is entered even if the tumor was not treated or if the tumor was removed	Yes; No	
48	IMPCOGSTAT	Char	Developmental delay/Impaired cognitive status	"YES" is entered if the patient's medical record documentation states the patient is not appropriate for developmental age. Includes patients who are blind and/or deaf. Patients with attention deficit disorders (ADD or ADHD) or psychiatric disorders are not included.  Developmental status and/or cognitive ability impairment is defined whena child does not reach his/her developmental milestones at ten expected times. It is an ongoing delay in the process of development. Delays can occur in one or many areas, such as gross or fine motor, language, social or thinking skills. Delays may result from any etiology, including congenital malformations, acquired structural lesions, traumatic injury, birth asphyxia and metabolic or unknown causes.	Yes; No	
49	SEIZURE	Char	Seizure Disorder	"YES" is entered if the patient has a chronic seizure disorder requiring medical and/or dietary management with or without control. Patients with febrile seizures are not included.	Yes; No	
50	CEREBRAL_PALSY	Char	Cerebral Palsy	"YES" is entered for patients who have been diagnosed with cerebral palsy with associated motor and/or cognitive deficits due to known or unknown etiology.	Yes; No	
51	ACQ_ABNORMALITY	Char	Structural CNS Abnormality	"YES" is entered for patients with any structural CNS abnormality documented in the medical recored. This also may be noted in a visual or radiologic exam.	Yes; No	
52	NEUROMUSCDIS	Char	Neuromuscular Disorder	"YES" is entered if a patient has a congenital or acquired degenerative neuromuscular disorder that resulted in a slow, progressive deterioration in motor function. "YES" is entered if there is documentation in the medical record; radiological studies are not required to verify the presence of a neuromuscular disorder. Patients with decreased muscle tone or significant contractures which affect motor function are included. Patients with neuromuscular scoliosis are included.	Yes; No	

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
53	IVH_GRADE	Char	Intraventricular Hemorrhage (IVH) Grade	The most severe grade of IVH documented in the medical record or noted on the CT scan or ultrasound is entered.	No IVH  Grade 1  Grade 2  Grade 3  Grade 4  IVH reported but no grade assigned	
54	IMMUNE_DIS	Char	Immune Disease/Immunosuppressant Use	"YES" is entered if the patient has a disease of the immune system documented in the medical record such as Severe Combined Immunodeficiency (SCID), Common Variable Immunodeficiency (CVID), Hypogammaglobulinemia, IgG, IgM, IgA. "YES" is also entered if the patient regularly takes immunosuppressant medications such as those utilized for chemotherapy patients, transplant patients or patients with chronic inflammatory conditions. Lab values are not utilized to determine this variable.	Yes; No	
55	STEROID	Char	Steroid use (within 30 days)	"YES" is entered if the patient has required the administration of oral or parenteral corticosteroid medication in the 30 days prior to surgery. Includes patients who receive short course oral or IV steroids. Corticosteroids applied topically or administered rectally or by inhalation are not included.	Yes; No	
56	BONE_MARROW_TRANS	Char	Bone Marrow Transplant	"YES" is entered if the patient has received a bone marrow transplant with or without engraftment at any time prior to surgery. Patients receiving a stem cell transplant are included.	Yes; No	
57	ORGAN_TRANS	Char	Solid Organ Transplant	"YES" is entered if the patient has received a solid organ (heart, lung, thymus, liver, kidney, pancreas, intestine) transplant with or without immunosuppression at any time prior to surgery.	Yes; No	
58	WNDINF	Char	Open wound (with or without infection)	"YES" is entered for patients with evidence of an open wound (including surgical wounds) that communicates to the air by direct exposure, with or without cellulition or purulent exudate. This does not include osteomyelitis or localized abscesses. The wound must communicate to the air by direct exposure. (Open drains should be considered an open wound: i.e. Penrose drains).	Yes; No	
59	WTLOSS	Char	weight loss or failure to thrive	"YES" is entered for patients with a greater than 10% decrease in body weight in the six month interval immediately preceding surgery as manifested by serial weight loss documented in the chart. Patients with a current diagnosis in the medical record of Failure to Thrive are included. Patients who have intentionally lost weight as part of a weight reduction program do not qualify.	Yes; No	
60	NUTR_SUPPORT	Char	Nutritional support	"YES" is entered if the patient required intravenous total parenteral nutrition (TPN) or enteral feeding support via gastrostomy, nasogastric, or jejunal feeding devices at the time of surgery.	Yes; No	
61	BLEEDDIS	Char	Bleeding Disorders	"YES" is entered for patients with any condition that places the patient at risk for excessive bleeding requiring hospitalization due to a deficiency of blood clotting elements (e.g., vitamin K deficiency, hemophilias, thrombocytopenia, chronic anticoaguiation therapy that has not been discontinued prior to surgery). If there is no documentation for the discontinuation of a medication that impacts the patient's risk for bleeding, "YES" is entered. Patients who are on chronic aspirin therapy are not included. Patients with reported "family history or trait" of a Bleeding Disorder are not included.	Yes; No	
62	HEMODISORDER	Char	Hematologic Disorder	"YES" is entered for patients with an underlying acquired or congenital hematologic disorder such as sickle sell disease, thalassemia, hereditary spherocytosis, thrombocytopenia, idiopathic thrombocytopenic purpura (ITP), neutropenia, Henock-Schonlein disease, anemia (hemolytic, hypoproliferative, macrocytic, microcytic, normocytic, pernicious), basophilia, dysfinbrinogenemia, eosinophilia. Patients on chemotherapy that are neutropenic or thrombocytopenic are included. Patients with a reported "family history or trait" of a hematologic disorder are not included. Lab values are not used to determine this variable.	Yes; No	

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
63	СНЕМО		Chemotherapy for malignancy within 30 days	"YES" is entered if the patient had any chemotherapy treatment for cancer in the 30 days prior to surgery. Chemotherapy may include, but is not restricted to, oral and parenteral treatment with chemotherapeutic agents for malignancies such as head and neck, and gastrointestinal solid tumors, lymphatic and hematopoietic malignancies, and multiple myeloma and sarcomas.	Yes; No	
64	RADIO	Char	Radiotherapy for malignancy in last 90 days	"YES" is entered if the patient had any radiotherapy treatment for cancer in the 90 days prior to surgery.	Yes; No	
65	PRSEPIS	Char	prior to surgery	Sepsis is a vast clinical entity that takes a variety of forms. The spectrum of disorders spans from relatively mild physiologic abnormalities to septic shock. The most significant level is reported using the following criteria:  A. PEDIATRIC SYSTEMIC INFLAMMATORY RESPONSE: The presence of at least two of the following criteria, one of which must be abnormal temperature or leukocyte count (WBC).  *Temperature of *38.5°C or < 36°C (axillary, temporal, tympanic, oral, rectal, bladder or central catheter probe)  *Tachycardia in the absence of drugs, external or painful stimuli which persists for *30 minutes. For children < 1 yr of age: Bradycardia in the absence of deep sedation, beta blockers, or other cardioactive drugs which persists for *30 minutes.  *Respiratory rate elevation in the absence of external or painful stimuli which persists for *30 minutes OR mechanical ventilation not related to underlying neuromuscular disease.  *Leukocyte count elevated or depressed for age with leukopenia not secondary to chemotherapy.  B. SEPSIS: To be assigned as sepsis, criteria from both A. Pediatric Systemic Inflammatory Response Syndrome, AND Suspected or Proven Infection must be met.  Suspected or Proven Infection: Infection caused by any pathogen, or Clinical Syndrome associated with a high probability of infection. Must meet at least one of the following preoperative or intraoperative criteria: Preoperative:  *Positive blood culture  *Positive blood culture  *Positive culture from any site thought to be causative  *Positive infidings on clinical exam such as purulent drainage at site  *Imaging evidence of abscess  OR  Intraoperative:  *Confirmed tissue or organ infarction/devitalization requiring resection  *Purulence in the operative site  *Perforated bowel or other viscus (for example, ruptured appendix)  *Positive intraoperative cultures  C. SEPTIC SHOCK: To be assigned as septic shock criteria for Sepsis must be met AND the patient must have documented Cardiovascular dysfunction.  1) The use of a vasoactive drug	SIRS; Sepsis; Septic Shock; None	
66	INOTR_SUPPORT	Char	Inotropic support at time of surgery	"YES" is entered if patient required intravenous inotropic pharmacologic support at time of surgery. Low dose Dopamine (<5mcg) is included.	Yes; No	
67	CPR_PRIOR_SURG	Char	Previous CPR within 7 days prior to surgery	"YES" is entered if patient required cardiac compressions within 7 days prior to surgery. Patients receiving ECMO (Extracorporeal membrane oxygenation) within 7 days prior to sugery are included.	Yes; No	

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
68	PrOper30		Prior Operation within 30 days	"YES" is entered if the patient has had any major surgical procedure performed within 30 days prior to the assessed operation that is listed on the CPT Code Inclusion List. Any transplant procedures or trauma procedures performed within 30 days prior to the assessed operation are included.	Yes; No	
69	CONG_MALFORM	Char		surgery, or if an infant, child, or teenager has a history of congenital defect at the time of surgery. Congenital malformations recorded under another	No; Yes, Neonate < 1500 grams at the time of surgery; Yes, Neonate > 1500 grams at the time of surgery or infant/child/teenager with a history of a congenital defect at the time of surgery	
70	CM_ICD9_1	Char	Congenital Malformation ICD9 - 1	ICD-9 code corresponding to a congenital malformation reported in the patient's medical record		NULL = Unknown
71	CM_ICD9_2	Char	Congenital Malformation ICD9 - 2	ICD-9 code corresponding to a congenital malformation reported in the patient's medical record		NULL = Unknown
72	CM_ICD9_3	Char		ICD-9 code corresponding to a congenital malformation reported in the patient's medical record		NULL = Unknown
73	CM_ICD9_4	Char	Congenital Malformation ICD9 - 4	ICD-9 code corresponding to a congenital malformation reported in the patient's medical record		NULL = Unknown
74	CM_ICD9_5	Char	Congenital Malformation ICD9 - 5	ICD-9 code corresponding to a congenital malformation reported in the patient's medical record		NULL = Unknown
75	CM_ICD9_6	Char		ICD-9 code corresponding to a congenital malformation reported in the patient's medical record		NULL = Unknown
76	CM_ICD9_7	Char		ICD-9 code corresponding to a congenital malformation reported in the patient's medical record		NULL = Unknown
77	CM_ICD9_8	Char	Congenital Malformation ICD9 - 8	ICD-9 code corresponding to a congenital malformation reported in the patient's medical record		NULL = Unknown
78	CM_ICD9_9	Char		ICD-9 code corresponding to a congenital malformation reported in the patient's medical record		NULL = Unknown
79	CM_ICD9_10	Char	Congenital Malformation ICD9 - 10	ICD-9 code corresponding to a congenital malformation reported in the patient's medical record		NULL = Unknown
80	TRANSFUS	Char	surgery	"YES" is entered for patients with any transfusion of whole blood or packed red blood cells during the 48 hours prior to surgery, including any blood transfusion in the emergency room. Transfusions of fresh frozen plasma, platelets, cryoprecipitate, or albumin are not included.	Yes; No	
81	MALIGNANCY	Char	ŭ .	that is currently present and documented in the medical record. Include patients for whom this is the diagnostic/definitive cancer surgery. Patients with a current cancer diagnosis who are actively undergoing treatment and also those who have not yet begun treatment are included. Patients whose treatment may be delayed for any reason are also included.	Past history of cancer  Current Cancer or active treatment of cancer  No current or prior history of cancer	
82	NEONATE	Char	Neonate (Y/N)	"YES" is entered when "Neonate type" is "Term neonate" and operation date is <29 days after date of birth OR "Neonate type" is "Premature neonate" and gestational age (at time of surgery) is <51 weeks.	Yes; No	NULL = Unknown

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
83	NEONATE_TYPE	Char	Neonate type	Term Neonate: All babies described as term birth, 37 weeks gestation or greater or gestational age not specified. They are included up to 28 full days of age.  Premature Neonate: A patient born at less than 37 weeks gestation. They are	Term Neonate; Premature Neonate; NA	NULL = Unknown
				included up to 50 full weeks post-conceptual age.		
84	GESTATIONALAGE_BIRTH	Num	Gestational Age	Patient's gestational age in weeks at time of birth		-99 = Unknown
85	GESTATIONALAGE_SURGERY	Num	Gestational Age at Surgery	Patient's gestational age in weeks at time of surgery		-99 = Unknown
86	BIRTH_LOCATION	Char	Location of Birth	Location of birth. Outborn includes patients born at home.	Inborn; Outborn	NULL = Unknown
87	SM_GESTATIONALAGE	Char	Small for gestational age	Small for gestational age.	Yes; No	NULL = Unknown
88	BIRTH_WGT_UNIT	Num	Birth weight unit	Units used to record birth weight. 1=lbs, 2=kgs, 3=unknown	1; 2; 3	-99 = Missing
89	BIRTH_WGT_LB	Num	Birth weight in pounds (lbs)	Patient's weight in pounds (lbs) at time of birth. Combine with birth_wgt_oz to get total weight. Only recorded for neonates.		-99 = Unknown
90	BIRTH_WGT_OZ	Num	Birth weight in ounces (oz)	Patient's weight in ounces (oz) at time of birth. Combine with birth_wgt_lb to get total weight. Only recorded for neonates.		-99 = Unknown
91	BIRTH_WGT_KG	Num	Birth weight in kilograms (kgs)	Patinet's weight in kilograms (kgs) at time of birth. Only recorded for neonates.		-99 = Unknown
92	BIRTH_HGT	Num	Birth height value	Height at birth. Only recorded for neonates.		-99 = Unknown
93	BIRTH_HGT_UNIT	Char	Birth height unit	Units used to record birth height.	cm; in; unknown	NULL = Missing
94	HEAD_CIRC	Num	Head circumference value	Head circumference at birth. "Unknown" is entered if unknown. Only recorded for neonates.		-99 = Missing
95	HEAD_CIRC_UNIT	Num	Head circumference unit	Units used to record head circumference. 1=in, 2=cm, 3=unknown	1; 2; 3	-99 = Missing
96	APGAR_1MIN	Char	APGAR score 1 minute	The APGAR score 1 min after delivery. Scores range from 0 to 10. "Uknown" is recoreded if the score is unknown.		NULL = No Response
97	APGAR_5MIN	Char	APGAR score 5 minutes	The APGAR score 5 min after delivery. Scores range from 0 to 10.  "Unknown" is entered if the score is unknown.		NULL = No Response
98	DELIVERY_MODE	Char	Mode of delivery	Mode of delivery. Unscheduled cesarean-section includes emergent or urgent c-section for maternal or fetal indications.	Vaginal delivery	NULL = No Response
					Scheduled C-Section	
					Unscheduled C-Section	
					Unknown/Not Documented	
99	DPRNA	Num	Days from Na Preoperative Labs to Operation	Days from Serum Sodium Preoperative Labs to Operation		-99 = Lab value not obtained or Unknown
100	DPRBUN	Num	Days from BUN Preoperative Labs to Operation	Days from Blood Urea Nitrogen Preoperative Labs to Operation		-99 = Lab value not obtained or Unknown
	DPRCREAT	Num	Days from Creatinine Preoperative Labs to Operation	Days from Creatinine Preoperative Labs to Operation		-99 = Lab value not obtained or Unknown
	DPRALBUM	Num	Days from Albumin Preoperative Labs to Operation	Days from Albumin Preoperative Labs to Operation		-99 = Lab value not obtained or Unknown
	DPRBILI	Num	Days from Bilirubin Preoperative Labs to Operation	Days from Bilirubin Preoperative Labs to Operation		-99 = Lab value not obtained or Unknown
	DPRSGOT		Days from SGOT Preoperative Labs to Operation	Days from Serum Glutamic-Oxaloacetic Transaminase (SGOT) Preoperative Labs to Operation		-99 = Lab value not obtained or Unknown
	DPRALKPH		Days from ALKPHOS Preoperative Labs to Operation	Days from Alkaline Phosphatase Preoperative Labs to Operation		-99 = Lab value not obtained or Unknown
	DPRWBC		Days from WBC Preoperative Labs to Operation	Days from White Blood Cell count Preoperative Labs to Operation		-99 = Lab value not obtained or Unknown
	DPRHCT		Days from HCT Preoperative Labs to Operation	Days from Hematocrit Preoperative Labs to Operation		-99 = Lab value not obtained or Unknown
	DPRPLATE	Num	to Operation	Days from Plate Count Preoperative Labs to Operation		-99 = Lab value not obtained or Unknown
	DPRPTT	Num	Days from PTT Preoperative Labs to Operation	Days from Partial Thromboplastin Time (PTT) Preoperative Labs to Operation		-99 = Lab value not obtained or Unknown
	DPRPT	Num	Days from PT Preoperative Labs to Operation	Days from Prothrombin Time (PT) Preoperative Labs to Operation		-99 = Lab value not obtained or Unknown
	DPRINR		Days from INR Preoperative Labs to Operation	Days from International Normalized Ratio (INR) Preoperative Labs to Operation		-99 = Lab value not obtained or Unknown
	PRSODM	Num	Pre-operative serum sodium	Pre-operative serum sodium		-99 = Lab value not obtained or Unknown
113	PRBUN	Num	Pre-operative BUN	Pre-operative Blood Urea Nitrogen		-99 = Lab value not obtained or Unknown

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
114	4 PRCREAT		Pre-operative serum creatinine	Pre-operative serum creatinine		-99 = Lab value not obtained or Unknown
115	PRALBUM	Num	Pre-operative serum albumin	Pre-operative serum albumin		-99 = Lab value not obtained or Unknown
116	PRBILI	Num	Pre-operative total bilirubin	Pre-operative total bilirubin		-99 = Lab value not obtained or Unknown
117	PRSGOT	Num	Pre-operative SGOT	Pre-operative SGOT		-99 = Lab value not obtained or Unknown
118	PRALKPH	Num	Pre-operative alkaline phosphatase	Pre-operative alkaline phosphatase		-99 = Lab value not obtained or Unknown
119	PRWBC	Num	Pre-operative WBC	Pre-operative White Blood Cell count		-99 = Lab value not obtained or Unknown
120	PRHCT	Num	Pre-operative hematocrit	Pre-operative hematocrit		-99 = Lab value not obtained or Unknown
121	1 PRPLATE	Num	Pre-operative platelet count	Pre-operative platelet count		-99 = Lab value not obtained or Unknown
122	PRPTT	Num	Pre-operative PTT	Pre-operative Partial Thromboplastin Time		-99 = Lab value not obtained or Unknown
123	PRINR	Num	Pre-operative International Normalized Ratio (INR) of PT values	Pre-operative International Normalized Ratio (INR) of PT values		-99 = Lab value not obtained or Unknown
124	1 PRPT	Num	Pre-operative PT	Pre-operative Prothrombin Time		-99 = Lab value not obtained or Unknown
125	OTHERPROC1	Char	Other Procedure description - 1	An additional operative procedure performed by the same surgical team (i.e., the same specialty/service) under the same anesthetic which has a CPT code different from that of the Principal Operative Procedure (e.g., a splenectomy performed in the course of a cholecystectomy). ALL additional procedures/CPT codes for the OR visit are reported.		NULL = No Procedure
126	OTHERCPT1	Char	Other CPT Code 1	CPT Code for other procedure 1		NULL = No Procedure
127	7 OTHERWRVU1	Num	Other Work Relative Value Unit 1	Other Work Relative Value Unit 1		-99 = No Procedure/Unknown
128	OTHERPROC2	Char	Other Procedure description - 2	See 'Other Procedure 1'		NULL = No Procedure
129	OTHERCPT2	Char	Other CPT Code 2	CPT Code for other procedure 2		NULL = No Procedure
130	OTHERWRVU2	Num	Other Work Relative Value Unit 2	Other Work Relative Value Unit 2		-99 = No Procedure/Unknown
131	1 OTHERPROC3	Char	Other Procedure description - 3	See 'Other Procedure 1'		NULL = No Procedure
132	OTHERCPT3	Char	Other CPT Code 3	CPT Code for other procedure 3		NULL = No Procedure
133	OTHERWRVU3					
		Num	Other Work Relative Value Unit 3	Other Work Relative Value Unit 3		-99 = No Procedure/Unknown
135	4 OTHERPROC4		Other Work Relative Value Unit 3 Other Procedure description - 4	Other Work Relative Value Unit 3 See 'Other Procedure 1'		-99 = No Procedure/Unknown NULL = No Procedure
100	OTHERPROC4 OTHERCPT4	Char				
136	OTHERCPT4 OTHERWRVU4	Char	Other Procedure description - 4	See 'Other Procedure 1'		NULL = No Procedure
136	OTHERCPT4	Char Char	Other Procedure description - 4 Other CPT Code 4	See 'Other Procedure 1' CPT Code for other procedure 4		NULL = No Procedure NULL = No Procedure
136 137 138	OTHERCPT4 OTHERWRVU4 OTHERPROC5 OTHERCPT5	Char Char Num Char	Other Procedure description - 4 Other CPT Code 4 Other Work Relative Value Unit 4	See 'Other Procedure 1' CPT Code for other procedure 4 Other Work Relative Value Unit 4 See 'Other Procedure 1' CPT Code for other procedure 5		NULL = No Procedure  NULL = No Procedure  -99 = No Procedure/Unknown
136 137 138 139	OTHERCPT4 OTHERWRVU4 OTHERPROC5 OTHERCPT5 OTHERWRVU5	Char Char Num Char Char Num	Other Procedure description - 4 Other CPT Code 4 Other Work Relative Value Unit 4 Other Procedure description - 5 Other CPT Code 5 Other Work Relative Value Unit 5	See 'Other Procedure 1' CPT Code for other procedure 4 Other Work Relative Value Unit 4 See 'Other Procedure 1' CPT Code for other procedure 5 Other Work Relative Value Unit 5		NULL = No Procedure NULL = No Procedure -99 = No Procedure/Unknown NULL = No Procedure NULL = No Procedure -99 = No Procedure/Unknown
136 137 138 139	OTHERCPT4 5 OTHERWRVU4 7 OTHERPROC5 8 OTHERCPT5 9 OTHERWRVU5 OTHERPROC6	Char Char Num Char Char Num	Other Procedure description - 4 Other CPT Code 4 Other Work Relative Value Unit 4 Other Work Relative Value Unit 4 Other Procedure description - 5 Other CPT Code 5 Other Work Relative Value Unit 5 Other Procedure description - 6	See 'Other Procedure 1' CPT Code for other procedure 4 Other Work Relative Value Unit 4 See 'Other Procedure 1' CPT Code for other procedure 5		NULL = No Procedure NULL = No Procedure -99 = No Procedure/Unknown NULL = No Procedure NULL = No Procedure
136 137 138 139 140	OTHERCPT4 5 OTHERWRVU4 7 OTHERPROC5 9 OTHERCPT5 9 OTHERWRVU5 1 OTHERPROC6 1 OTHERCPT6	Char Char Num Char Char Num	Other Procedure description - 4 Other CPT Code 4 Other Work Relative Value Unit 4 Other Procedure description - 5 Other CPT Code 5 Other Work Relative Value Unit 5	See 'Other Procedure 1' CPT Code for other procedure 4 Other Work Relative Value Unit 4 See 'Other Procedure 1' CPT Code for other procedure 5 Other Work Relative Value Unit 5		NULL = No Procedure NULL = No Procedure -99 = No Procedure/Unknown NULL = No Procedure NULL = No Procedure -99 = No Procedure/Unknown
136 137 138 139 140 141	OTHERCPT4  OTHERWRVU4  OTHERPROC5  OTHERCPT5  OTHERWRVU5  OTHERPROC6  I OTHERPROC6  OTHERPROC6	Char Char Num Char Char Num Char	Other Procedure description - 4 Other CPT Code 4 Other Work Relative Value Unit 4 Other Procedure description - 5 Other CPT Code 5 Other Work Relative Value Unit 5 Other Procedure description - 6 Other CPT Code 6 Other Work Relative Value Unit 6	See 'Other Procedure 1' CPT Code for other procedure 4 Other Work Relative Value Unit 4 See 'Other Procedure 1' CPT Code for other procedure 5 Other Work Relative Value Unit 5 See 'Other Procedure 1' CPT Code for other procedure 1' CPT Code for other procedure 6 Other Work Relative Value Unit 6		NULL = No Procedure NULL = No Procedure -99 = No Procedure/Unknown NULL = No Procedure NULL = No Procedure NULL = No Procedure -99 = No Procedure/Unknown NULL = No Procedure NULL = No Procedure -99 = No Procedure -99 = No Procedure/Unknown
136 137 138 139 140 141 142 143	OTHERCPT4  BOTHERWRVU4  OTHERPROC5  OTHERCPT5  OTHERWRVU5  OTHERPROC6  OTHERPROC6  OTHERCPT6  OTHERCPT6  OTHERWRVU6  OTHERWRVU6	Char Char Num Char Char Num Char Char Num Char	Other Procedure description - 4 Other CPT Code 4 Other Work Relative Value Unit 4 Other Procedure description - 5 Other CPT Code 5 Other Work Relative Value Unit 5 Other Procedure description - 6 Other CPT Code 6 Other CPT Code 6 Other Work Relative Value Unit 6 Other Procedure description - 7	See 'Other Procedure 1' CPT Code for other procedure 4 Other Work Relative Value Unit 4 See 'Other Procedure 1' CPT Code for other procedure 5 Other Work Relative Value Unit 5 See 'Other Procedure 1' CPT Code for other procedure 1'		NULL = No Procedure  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure  NULL = No Procedure  -99 = No Procedure  -99 = No Procedure  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure
136 137 138 139 140 141 142 143	OTHERCPT4  OTHERWRVU4  OTHERPROC5  OTHERCPT5  OTHERWRVU5  OTHERPROC6  I OTHERPROC6  OTHERPROC6	Char Char Num Char Char Char Char Char Num Char Char Num Char Char Num	Other Procedure description - 4 Other CPT Code 4 Other Work Relative Value Unit 4 Other Work Relative Value Unit 4 Other Procedure description - 5 Other CPT Code 5 Other Work Relative Value Unit 5 Other Procedure description - 6 Other CPT Code 6 Other Work Relative Value Unit 6 Other Procedure description - 7 Other CPT Code 7	See 'Other Procedure 1' CPT Code for other procedure 4 Other Work Relative Value Unit 4 See 'Other Procedure 1' CPT Code for other procedure 5 Other Work Relative Value Unit 5 See 'Other Procedure 1' CPT Code for other procedure 1' CPT Code for other procedure 6 Other Work Relative Value Unit 6		NULL = No Procedure NULL = No Procedure -99 = No Procedure/Unknown NULL = No Procedure NULL = No Procedure NULL = No Procedure -99 = No Procedure/Unknown NULL = No Procedure NULL = No Procedure -99 = No Procedure -99 = No Procedure/Unknown
136 137 138 139 140 141 142 143	OTHERCPT4  BOTHERWRVU4  OTHERPROC5  OTHERCPT5  OTHERWRVU5  OTHERPROC6  OTHERPROC6  OTHERCPT6  OTHERCPT6  OTHERWRVU6  OTHERWRVU6	Char Char Num Char Char Num Char Char Num Char Char Char Char Num Char Char	Other Procedure description - 4 Other CPT Code 4 Other Work Relative Value Unit 4 Other Procedure description - 5 Other CPT Code 5 Other Work Relative Value Unit 5 Other Procedure description - 6 Other CPT Code 6 Other CPT Code 6 Other Work Relative Value Unit 6 Other Procedure description - 7	See 'Other Procedure 1' CPT Code for other procedure 4 Other Work Relative Value Unit 4 See 'Other Procedure 1' CPT Code for other procedure 5 Other Work Relative Value Unit 5 See 'Other Procedure 1' CPT Code for other procedure 6 Other Work Relative Value Unit 6 See 'Other Procedure 1' See 'Other Procedure 1'		NULL = No Procedure  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure  NULL = No Procedure  -99 = No Procedure  -99 = No Procedure  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure
136 137 138 139 140 141 142 143 144	OTHERCPT4  OTHERWRVU4  OTHERPROC5  OTHERWRVU5  OTHERWRVU5  OTHERPROC6  I OTHERCPT6  OTHERCPT6  OTHERCPT6  OTHERCPT6  OTHERCPT6  OTHERCPT6  OTHERCPT7	Char Char Num Char Char Num Char Char Num Char Char Char Char Num Char Char Char	Other Procedure description - 4 Other CPT Code 4 Other Work Relative Value Unit 4 Other Work Relative Value Unit 4 Other Procedure description - 5 Other CPT Code 5 Other Work Relative Value Unit 5 Other Procedure description - 6 Other CPT Code 6 Other Work Relative Value Unit 6 Other Procedure description - 7 Other CPT Code 7	See 'Other Procedure 1' CPT Code for other procedure 4 Other Work Relative Value Unit 4 See 'Other Procedure 1' CPT Code for other procedure 5 Other Work Relative Value Unit 5 See 'Other Procedure 1' CPT Code for other procedure 6 Other Work Relative Value Unit 6 See 'Other Procedure 1' CPT Code for other procedure 6 Other Work Relative Value Unit 6 See 'Other Procedure 1' CPT Code for other procedure 7		NULL = No Procedure NULL = No Procedure -99 = No Procedure/Unknown NULL = No Procedure NULL = No Procedure -99 = No Procedure/Unknown NULL = No Procedure/Unknown NULL = No Procedure NULL = No Procedure NULL = No Procedure/Unknown NULL = No Procedure/Unknown NULL = No Procedure/Unknown NULL = No Procedure
136 137 138 138 140 141 142 143 144 145	OTHERCPT4  OTHERWRVU4  OTHERPROC5  OTHERCPT5  OTHERWRVU5  OTHERPROC6  OTHERCPT6  OTHERWRVU6  OTHERCPT6  OTHERCPT7  OTHERCPT7	Char Char Num Char Char Num Char Num Char Char Char Num Char Num Char Num Char Num Char Char	Other Procedure description - 4 Other CPT Code 4 Other Work Relative Value Unit 4 Other Work Relative Value Unit 5 Other CPT Code 5 Other Work Relative Value Unit 5 Other Procedure description - 6 Other CPT Code 6 Other Work Relative Value Unit 5 Other Work Relative Value Unit 6 Other CPT Code 6 Other Procedure description - 7 Other CPT Code 7 Other Work Relative Value Unit 7	See 'Other Procedure 1' CPT Code for other procedure 4 Other Work Relative Value Unit 4 See 'Other Procedure 1' CPT Code for other procedure 5 Other Work Relative Value Unit 5 See 'Other Procedure 1' CPT Code for other procedure 6 Other Work Relative Value Unit 6 See 'Other Procedure 1' CPT Code for other procedure 6 Other Work Relative Value Unit 6 See 'Other Procedure 1' CPT Code for other procedure 7 Other Work Relative Value Unit 7		NULL = No Procedure  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure  NULL = No Procedure/Unknown  NULL = No Procedure/Unknown  NULL = No Procedure  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure  NULL = No Procedure  NULL = No Procedure  -99 = No Procedure  -99 = No Procedure  -99 = No Procedure  -99 = No Procedure
136 137 138 138 140 141 142 143 144 145 146	OTHERCPT4  3 OTHERWRVU4  7 OTHERPROC5  3 OTHERCPT5  9 OTHERWRVU5  1 OTHERPROC6  2 OTHERWRVU6  3 OTHERCPT6  4 OTHERPROC7  4 OTHERCPT7  5 OTHERWRVU7  5 OTHERWRVU7	Char Char Num Char Char Num Char Char Num Char Char Num Char Num Char Char Num Char Char Num Char Char	Other Procedure description - 4 Other CPT Code 4 Other Work Relative Value Unit 4 Other Work Relative Value Unit 5 Other CPT Code 5 Other CPT Code 5 Other Work Relative Value Unit 5 Other Procedure description - 6 Other PT Code 6 Other CPT Code 6 Other Work Relative Value Unit 6 Other Procedure description - 7 Other CPT Code 7 Other CPT Code 7 Other CPT Code 7 Other CPT Code 7 Other Procedure description - 8	See 'Other Procedure 1' CPT Code for other procedure 4 Other Work Relative Value Unit 4 See 'Other Procedure 1' CPT Code for other procedure 5 Other Work Relative Value Unit 5 See 'Other Procedure 1' CPT Code for other procedure 6 Other Work Relative Value Unit 6 See 'Other Procedure 1' CPT Code for other procedure 6 Other Work Relative Value Unit 6 See 'Other Procedure 7 Other Work Relative Value Unit 7 See 'Other Procedure 1'		NULL = No Procedure  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure/Unknown  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure  -99 = No Procedure  NULL = No Procedure
136 137 138 138 140 141 142 143 144 145 146	SOTHERCPT4  BOTHERWRVU4  TOTHERPROC5  BOTHERCPT5  OTHERWRVU5  OTHERPROC6  OTHERPROC6  OTHERCPT6  OTHERWRVU6  OTHERWRVU6  OTHERWRVU6  OTHERPROC7  OTHERCPT7  OTHERWRVU7  OTHERCPT8	Char Char Num Char Char Char Char Char Char Char	Other Procedure description - 4 Other CPT Code 4 Other Work Relative Value Unit 4 Other Work Relative Value Unit 4 Other Procedure description - 5 Other CPT Code 5 Other Work Relative Value Unit 5 Other Procedure description - 6 Other CPT Code 6 Other Work Relative Value Unit 6 Other Procedure description - 7 Other CPT Code 7 Other Work Relative Value Unit 7 Other Procedure description - 8 Other CPT Code 8 Other CPT Code 8	See 'Other Procedure 1' CPT Code for other procedure 4 Other Work Relative Value Unit 4 See 'Other Procedure 1' CPT Code for other procedure 5 Other Work Relative Value Unit 5 See 'Other Procedure 1' CPT Code for other procedure 6 Other Work Relative Value Unit 6 See 'Other Procedure 1' CPT Code for other procedure 1' CPT Code for other procedure 7 Other Work Relative Value Unit 7 See 'Other Procedure 1' CPT Code for other procedure 7 Other Work Relative Value Unit 7 See 'Other Procedure 1' CPT Code for other procedure 8		NULL = No Procedure  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure  NULL = No Procedure  NULL = No Procedure  NULL = No Procedure  NULL = No Procedure/Unknown  NULL = No Procedure/Unknown  NULL = No Procedure  -99 = No Procedure  -99 = No Procedure  -99 = No Procedure  NULL = No Procedure  -99 = No Procedure  -99 = No Procedure  -99 = No Procedure  -99 = No Procedure
136 137 138 138 140 141 142 143 144 145 146 147 146	SOTHERCPT4 SOTHERWRVU4 7 OTHERPROC5 SOTHERWRVU5 OTHERPROC6 1 OTHERPROC6 1 OTHERCPT6 2 OTHERWRVU6 OTHERPROC7 4 OTHERPROC7 5 OTHERPROC7 5 OTHERWRVU7 SOTHERWRVU7 SOTHERPROC8 7 OTHERPROC8 7 OTHERCPT8	Char Char Num Char Char Num Char Char Char Char Char Char Num Char Char Char Char Num Char Char Num	Other Procedure description - 4 Other CPT Code 4 Other Work Relative Value Unit 4 Other Work Relative Value Unit 4 Other Procedure description - 5 Other CPT Code 5 Other Work Relative Value Unit 5 Other Procedure description - 6 Other CPT Code 6 Other CPT Code 6 Other Work Relative Value Unit 6 Other Procedure description - 7 Other CPT Code 7 Other Work Relative Value Unit 7 Other Procedure description - 8 Other Procedure description - 8	See 'Other Procedure 1' CPT Code for other procedure 4 Other Work Relative Value Unit 4 See 'Other Procedure 1' CPT Code for other procedure 5 Other Work Relative Value Unit 5 See 'Other Procedure 1' CPT Code for other procedure 6 Other Work Relative Value Unit 6 See 'Other Procedure 1' CPT Code for other procedure 6 Other Work Relative Value Unit 6 See 'Other Procedure 1' CPT Code for other procedure 7 Other Work Relative Value Unit 7 See 'Other Procedure 1' CPT Code for other procedure 8 Other Work Relative Value Unit 8 See 'Other Procedure 1'		NULL = No Procedure  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure/Unknown  NULL = No Procedure/Unknown  NULL = No Procedure/Unknown  NULL = No Procedure  NULL = No Procedure  NULL = No Procedure/Unknown  NULL = No Procedure/Unknown  NULL = No Procedure/Unknown  NULL = No Procedure
136 137 138 139 140 141 142 143 144 145 146 147 147 148	OTHERCPT4  OTHERWRVU4  OTHERPROC5  OTHERWRVU5  OTHERPROC6  OTHERPROC6  OTHERWRVU6  OTHERWRVU6  OTHERWRVU6  OTHERWRVU6  OTHERWRVU6  OTHERPROC7  OTHERPROC7  OTHERPROC7  OTHERPROC8  OTHERWRVU7  OTHERPROC8  OTHERPROC8  OTHERPROC8  OTHERPROC9  OTHERPROC9	Char Char Num Char Char Char Num Char Char Char Char Char Char Char Char	Other Procedure description - 4 Other CPT Code 4 Other Work Relative Value Unit 4 Other Work Relative Value Unit 4 Other Procedure description - 5 Other CPT Code 5 Other Work Relative Value Unit 5 Other Procedure description - 6 Other CPT Code 6 Other CPT Code 6 Other Work Relative Value Unit 6 Other Procedure description - 7 Other CPT Code 7 Other Work Relative Value Unit 7 Other Work Relative Value Unit 7 Other Procedure description - 8 Other CPT Code 8 Other Work Relative Value Unit 8 Other Procedure description - 9 Other Procedure description - 9 Other PT Code 9	See 'Other Procedure 1' CPT Code for other procedure 4 Other Work Relative Value Unit 4 See 'Other Procedure 1' CPT Code for other procedure 5 Other Work Relative Value Unit 5 See 'Other Procedure 1' CPT Code for other procedure 6 Other Work Relative Value Unit 6 See 'Other Procedure 1' CPT Code for other procedure 7 Other Work Relative Value Unit 6 See 'Other Procedure 1' CPT Code for other procedure 7 Other Work Relative Value Unit 7 See 'Other Procedure 1' CPT Code for other procedure 8 Other Work Relative Value Unit 8 See 'Other Procedure 1' CPT Code for other procedure 8 Other Work Relative Value Unit 8 See 'Other Procedure 1' CPT Code for other procedure 9		NULL = No Procedure
136 137 138 138 140 141 142 143 144 145 146 147 148 155	OTHERCPT4  OTHERWRVU4  OTHERPROC5  OTHERWRVU5  OTHERPROC6  OTHERWRVU5  OTHERPROC6  OTHERCPT6  OTHERPROC7  OTHERPROC7  OTHERPROC7  OTHERPROC7  OTHERCPT7  OTHERCPT7  OTHERCPT8  OTHERWRVU6  OTHERPROC8  OTHERWRVU7  OTHERPROC9  OTHERWRVU8  OTHERPROC9  OTHERWRVU8	Char Char Num	Other Procedure description - 4 Other CPT Code 4 Other Work Relative Value Unit 4 Other Procedure description - 5 Other CPT Code 5 Other CPT Code 5 Other Work Relative Value Unit 5 Other Procedure description - 6 Other CPT Code 6 Other Work Relative Value Unit 6 Other Work Relative Value Unit 6 Other Procedure description - 7 Other CPT Code 7 Other Work Relative Value Unit 7 Other Procedure description - 8 Other Procedure description - 8 Other CPT Code 8 Other Work Relative Value Unit 8 Other Procedure description - 9 Other CPT Code 9 Other CPT Code 9 Other Work Relative Value Unit 9	See 'Other Procedure 1' CPT Code for other procedure 4 Other Work Relative Value Unit 4 See 'Other Procedure 1' CPT Code for other procedure 5 Other Work Relative Value Unit 5 See 'Other Procedure 1' CPT Code for other procedure 6 Other Work Relative Value Unit 6 See 'Other Procedure 1' CPT Code for other procedure 1' CPT Code for other procedure 7 Other Work Relative Value Unit 7 See 'Other Procedure 1' CPT Code for other procedure 7 Other Work Relative Value Unit 7 See 'Other Procedure 1' CPT Code for other procedure 8 Other Work Relative Value Unit 8 See 'Other Procedure 1' CPT Code for other procedure 9 Other Work Relative Value Unit 9		NULL = No Procedure  NULL = No Procedure  -99 = No Procedure  NULL = No Procedure  NULL = No Procedure  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure  NULL = No Procedure  NULL = No Procedure  NULL = No Procedure/Unknown  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure  -99 = No Procedure
136 137 138 138 144 144 142 143 144 146 147 148 150	OTHERCPT4  OTHERWRVU4  OTHERPROC5  OTHERWRVU5  OTHERPROC6  OTHERPROC6  OTHERWRVU6  OTHERWRVU6  OTHERWRVU6  OTHERWRVU6  OTHERWRVU6  OTHERPROC7  OTHERPROC7  OTHERPROC7  OTHERPROC8  OTHERWRVU7  OTHERPROC8  OTHERPROC8  OTHERPROC8  OTHERPROC9  OTHERPROC9	Char Char Num Char Char Char Num Char Char Char Char Char Char Char Char	Other Procedure description - 4 Other CPT Code 4 Other Work Relative Value Unit 4 Other Work Relative Value Unit 4 Other Procedure description - 5 Other CPT Code 5 Other Work Relative Value Unit 5 Other Procedure description - 6 Other CPT Code 6 Other CPT Code 6 Other Work Relative Value Unit 6 Other Procedure description - 7 Other CPT Code 7 Other Work Relative Value Unit 7 Other Work Relative Value Unit 7 Other Procedure description - 8 Other CPT Code 8 Other Work Relative Value Unit 8 Other Procedure description - 9 Other Procedure description - 9 Other PT Code 9	See 'Other Procedure 1' CPT Code for other procedure 4 Other Work Relative Value Unit 4 See 'Other Procedure 1' CPT Code for other procedure 5 Other Work Relative Value Unit 5 See 'Other Procedure 1' CPT Code for other procedure 6 Other Work Relative Value Unit 6 See 'Other Procedure 1' CPT Code for other procedure 7 Other Work Relative Value Unit 6 See 'Other Procedure 1' CPT Code for other procedure 7 Other Work Relative Value Unit 7 See 'Other Procedure 1' CPT Code for other procedure 8 Other Work Relative Value Unit 8 See 'Other Procedure 1' CPT Code for other procedure 8 Other Work Relative Value Unit 8 See 'Other Procedure 1' CPT Code for other procedure 9		NULL = No Procedure  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure  -99 = No Procedure/Unknown  NULL = No Procedure  NULL = No Procedure  NULL = No Procedure  NULL = No Procedure/Unknown  NULL = No Procedure/Unknown  NULL = No Procedure/Unknown  NULL = No Procedure/Unknown  NULL = No Procedure

osition#	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
155	CONCURR1	Char	Concurrent Procedure description - 1	An additional operative procedure performed by a different surgical team (i.e., a different specialty/service) under the same anesthetic which has a CPT code different from that of the Principal Operative Procedure (e.g., Coronary Artery Bypass Graft procedure on a patient who is also undergoing a Carotid Endarterectomy).		NULL = No Procedure
156	CONCPT1	Char	Concurrent CPT 1	Concurrent CPT 1		NULL = No Procedure
157	CONWRVU1	Num	Concurrent Work Relative Value Unit 1	Concurrent Work Relative Value Unit 1		-99 = No Procedure/Unknown
158	CONCURR2	Char	Concurrent Procedure description - 2	See 'Concurrent Procedure 1'		NULL = No Procedure
	CONCPT2	Char	Concurrent CPT 2	Concurrent CPT 2		NULL = No Procedure
160	CONWRVU2	Num	Concurrent Work Relative Value Unit 2	Concurrent Work Relative Value Unit 2		-99 = No Procedure/Unknown
161	CONCURR3	Char	Concurrent Procedure description - 3	See 'Concurrent Procedure 1'		NULL = No Procedure
162	CONCPT3	Char	Concurrent CPT 3	Concurrent CPT 3		NULL = No Procedure
163	CONWRVU3	Num	Concurrent Work Relative Value Unit 3	Concurrent Work Relative Value Unit 3		-99 = No Procedure/Unknown
164	CONCURR4	Char	Concurrent Procedure description - 4	See 'Concurrent Procedure 1'		NULL = No Procedure
	CONCPT4	Char	Concurrent CPT 4	Concurrent CPT 4		NULL = No Procedure
166	CONWRVU4	Num	Concurrent Work Relative Value Unit 4	Concurrent Work Relative Value Unit 4		-99 = No Procedure/Unknown
167	CONCURR5	Char	Concurrent Procedure description - 5	See 'Concurrent Procedure 1'		NULL = No Procedure
168	CONCPT5	Char	Concurrent CPT 5	Concurrent CPT 5		NULL = No Procedure
169	CONWRVU5	Num	Concurrent Work Relative Value Unit 5	Concurrent Work Relative Value Unit 5		-99 = No Procedure/Unknown
170	CONCURR6	Char	Concurrent Procedure description - 6	See 'Concurrent Procedure 1'		NULL = No Procedure
171	CONCPT6	Char	Concurrent CPT 6	Concurrent CPT 6		NULL = No Procedure
	CONWRVU6	Num	Concurrent Work Relative Value Unit 6	Concurrent Work Relative Value Unit 6		-99 = No Procedure/Unknown
173	CONCURR7	Char	Concurrent Procedure description - 7	See 'Concurrent Procedure 1'		NULL = No Procedure
	CONCPT7	Char	Concurrent CPT 7	Concurrent CPT 7		NULL = No Procedure
	CONWRVU7	Num	Concurrent Work Relative Value Unit 7	Concurrent Work Relative Value Unit 7		-99 = No Procedure/Unknown
	CONCURR8	Char	Concurrent Procedure description - 8	See 'Concurrent Procedure 1'		NULL = No Procedure
	CONCPT8	Char	Concurrent CPT 8	Concurrent CPT 8		NULL = No Procedure
	CONWRVU8	Num	Concurrent Work Relative Value Unit 8	Concurrent Work Relative Value Unit 8		-99 = No Procedure/Unknown
	CONCURR9	Char	Concurrent Procedure description - 9	See 'Concurrent Procedure 1'		NULL = No Procedure
	CONCPT9	Char	Concurrent CPT 9	Concurrent CPT 9		NULL = No Procedure
	CONWRVU9	Num	Concurrent Work Relative Value Unit 9	Concurrent Work Relative Value Unit 9		-99 = No Procedure/Unknown
	CONCURR10	Char	Concurrent Procedure description - 10	See 'Concurrent Procedure 1'		NULL = No Procedure
	CONCPT10	Char	Concurrent CPT 10	Concurrent CPT 10		NULL = No Procedure
	CONWRVU10	Num	Concurrent Work Relative Value Unit 10	Concurrent Work Relative Value Unit 10		-99 = No Procedure/Unknown
	CASETYPE		Case Status		Elective	55 146 F FOCCUARCE OF INCHOME
				Elective: Surgical case is scheduled and performed on an elective basis with no time constraints.	Emergent	
				Urgent: Surgical case is scheduled and usually performed within 24 hours of surgical evaluation. Report the case as urgent if the anesthesiologist and	Urgent	
				Emergent: Surgical case is scheduled and usually performed within 12 hours of surgical evaluation. Report the case as emergent if the anesthesiologist and surgeon report the case as emergent.		
186	WNDCLAS	Char	Wound classification	Wound classification should be assigned based on the primary principal	1-Clean	1
.00		1			2-Clean/Contaminated	7
	1			or 'concurrent' procedure. This variable indicates whether the primary surgeon		=

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
		Туре		has classified the wound as: (1) Clean: An uninfected operative wound in which no inflammation is encountered and the respiratory, alimentary, genital, or uninfected urinary tract is not entered. In addition, clean wounds are primarily closed and, if necessary, drained with closed drainage. Operative incisional wounds that follow nonpenetrating (blunt) trauma should be included in this category if they meet the criteria. Examples of "Clean" cases include mastectomy, exploratory laparotomy, hernia repair, thyroidectomy, knee athroscopy, Note: Placement of any drain at the time of surgery does not change the classification of the wound. (2) Clean/Contaminated: An operative wound in which the respiratory, alimentary, genital, or urinary tracts are entered under controlled conditions and without unusual contamination. Specifically, operations involving the biliary tract, appendix, vagina, and oropharynx are included in this category, provided no evidence of infection or major break in technique is encountered. Examples of "Clean/Contaminated" cases include cholecystectomy, colectomy, colostomy reversals, roux-en-Y, laryngectomy, small bowel resection, routine appendectomy. (3) Contaminated: Open, fresh, accidental wounds. In addition, operations with major breaks in sterile technique or gross spillage from the gastrointestinal tract, and incisions in which acute, nonpurulent inflammation is encountered including necrotic tissue without evidence of purulent drainage (e.g. dry gangrene) are included in this category. Examples of "Contaminated" cases include appendectomy for inflamed appendicitis, bile spillage during cholecystectomy, or open cardiac massage. Examples of major break in sterile technique included but are not limited to non-sterile equipment or debris found in the operative field. (4)  Dirty/Infected: Old traumatic wounds with retained devitalized tissue and those that involve existing clinical infection or perforated viscera. This definition suggests that the organisms causing postoperative infection w	4-Dirty/Infected	
187	ASACLAS	Char		severe systemic disease ASA 4 -Patient with severe systemic disease that is a	3 -Severe Disturb 4 -Life Threat	
188	ANESURG	Num	Duration from Anesthesia start to Surgery start	Duration from Anesthesia start to Surgery start in minutes		-99 = Unknown
	SURGANE	Num	Duration from Surgery stop to Anesthesia Stop	Duration from Surgery stop to Anesthesia Stop in minutes		-99 = Unknown
	DPATRM	Num		Duration patient is in Room in minutes		-99 = Unknown
	ANETIME	Num	Duration of Anesthesia	Duration of Anesthesia in minutes		-99 = Unknown
192	OPTIME	Num	Total operation time	Total operation time in minutes		-99 = Unknown
193	HDISDT	Num	Hospital discharge Year	Hospital discharge Year	<u> </u>	NULL = Unknown
194	YRDEATH	Char	Year of death	Year of death		NULL = Unknown
195	TOTHLOS	Num	Length of total hospital stay	Length of total hospital stay		-99 = Unknown
	AdmQtr	Char	Quarter of Admission	Quarter of Admission	1; 2; 3; 4	
197	HtoODay	Num	Days from Hospital Admission to Operation	Days from Hospital Admission to Operation	1, -1, -1, -	
198	NSUPINFEC	Num	Number of Superficial Incisional SSI Occurrences	Number of Superficial Incisional SSI Occurrences	-	

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
199	SUPINFEC		Occurrences Superficial Incisional SSI	Superficial incisional SSI is an infection that occurs within 30 days after the operation and the infection involves only skin or subcutaneous tissue of the incision and at least one of the following: -Purulent drainage, with or without laboratory confirmation, from the superficial incisionOrganisms isolated from an aseptically obtained culture of fluid or tissue from the superficial incision At least one of the following signs or symptoms of infection: pain or tenderness, localized swelling, redness, or heat AND superficial incision is deliberately opened by the surgeon, unless incision is culture-negativeDiagnosis of superficial incisional SSI by the surgeon or attending physician. Do not report the following conditions as SSI:-Stitch abscess (minimal inflammation and discharge confined to the points of suture penetration)Infected burn woundIncisional SSI that extends into the fascial and muscle layers (see deep incisional SSI).	No Complication; Superficial Incisional SSI	
200	DSUPINFEC		Days from Operation until Superficial Incisional SSI Complication	Days from Operation until Superficial Incisional SSI Complication		-99 = Patient did not experience this complication at or before 30 days post operation
201	NWNDINFD		Number of Deep Incisional SSI Occurrences	Number of Deep Incisional SSI Occurrences		
202	WNDINFD	Char	Occurrences Deep Incisional SSI	Deep Incision SSI is an infection that occurs within 30 days after the operation and the infection appears to be related to the operation and infection involved deep soft tissues (e.g., fascial and muscle layers) of the incision and at least one of the following: -Purulent drainage from the deep incision but not from the organ/space component of the surgical siteA deep incision spontaneously dehisces or is deliberately opened by a surgeon when the patient has at least one of the following signs or symptoms: fever (> 38 C), localized pain, or tenderness, unless site is culture-negativeAn abscess or other evidence of infection involving the deep incision is found on direct examination, during reoperation, or by histopathologic or radiologic examinationDiagnosis of a deep incision SSI by a surgeon or attending physician. Note: -Infection that involves both superficial and deep incision sites is reported as deep incisional SSIAn organ/space SSI that drains through the incision is reported as a deep incisional SSI.	Deep Incisional SSI; No Complication	
203	DWNDINFD		Days from Operation until Deep Incisional SSI Complication	Days from Operation until Deep Incisional SSI Complication		-99 = Patient did not experience this complication at or before 30 days post operation
204	NORGSPCSSI	Num	Number of Organ/Space SSI Occurrences	Number of Organ/Space SSI Occurrences		
	ORGSPCSSI	Char	Occurrences Organ/Space SSI	Organ/Space SSI is an infection that occurs within 30 days after the operation and the infection appears to be related to the operation and the infection involves any part of the anatomy (e.g., organs or spaces), other than the incision, which was opened or manipulated during an operation and at least one of the following: -Purulent drainage from a drain that is placed through a stab wound into the organ/space. Organisms isolated from an aseptically obtained culture of fluid or tissue in the organ/spaceAn abscess or other evidence of infection involving the organ/space that is found on direct examination, during reoperation, or by histopathologic or radiologic examinationDiagnosis of an organ/space SSI by a surgeon or attending physician.	Organ/Space SSI; No Complication	
	DORGSPCSSI		Days from Operation until Organ/Space SSI Complication	Days from Operation until Organ/Space SSI Complication		-99 = Patient did not experience this complication at or before 30 days post operation
207	NDEHIS	Num	Number of Wound Disruption Occurrences	Number of Wound Disruption Occurrences		
208	DEHIS	Char	Occurrences Wound Disruption	Separation of the layers of a surgical wound, which may be partial or complete, with disruption of the fascia within 30 days of the operation.	Wound Disruption; No complication	

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
209	9 DDEHIS	Num	Days from Operation until Wound Disruption Complication	Days from Operation until Wound Disruption Complication		-99 = Patient did not experience this complication at or before 30 days post operation
211	0 NOUPNEUMO	Num	Number of Pneumonia Occurrences	Number of Pneumonia Occurrences		
	UNCOPNEUMO	Char	Occurrences Pneumonia	Enter "Yes" if the patient has pneumonia meeting the definition below. Patients with pneumonia <i>must meet criteria from both <u>Radiology</u> and <u>Signs/Symptoms/Laboratory</u> sections listed as follows:  Radiology:  One definitive chest radiological exam (x-ray or CT)* with at least one of the following:  New or progressive and persistent infiltrate  Consolidation or opacity  Cavitation  Pneumatoceles, in infants ≤ 1 year old  Note: In patients with underlying pulmonary or cardiac disease (e.g. respiratory distress syndrome, bronchopulmonary dysplasia, pulmonary edema, or chronic obstructive pulmonary disease), two or more serial chest radiological exams (x-ray or CT) are required. (Serial radiological exams should be taken no less than 12 hours apart, but not more than 7 days apart. The occurrence should be assigned on the date the patient first met all of the criteria of the definition (i.e. if the patient meets all PNA criteria on the day of the first xray, assign this date to the occurrence. Do not assign the date of the occurrence to when the second serial xray was performed).</i>	Pneumonia; No complication	
				Signs/Symptoms/Laboratory: FOR ANY PATIENT, at least one of the following: •Fever (>38 C or >100.4 F) with no other recognized cause •Leukopenia (<4000 WBC/mm3) or leukocytosis(≥12,000 WBC/mm3) And At least one of the following: •5% Bronchoalveolar lavage (BAL) -obtained cells containing >=10,000 cfu/mL intracellular bacteria on direct microscopic exam (e.g., Gram stain) •Positive growth in blood culture not related to another source of infection •Positive growth in culture of pleural fluid •Positive growth in culture from minimally contaminated lower respiratory tract (LRT) specimen (e.g. BAL or protected specimen brushing) OR At least two of the following: •New onset of purulent sputum, or change in character of sputum, or increased respiratory secretions, or increased suctioning requirements •New onset or worsening cough, or dyspnea, or tachypnea •Rales or bronchial breath sounds •Worsening gas exchange (e.g. O2 desaturations (e.g., PaO2/FiO2 ≤ 240), increased oxygen requirements, or increased ventilator demand)		

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
		Туре		ALTERNATE CRITERIA, for infants ≤ 1 year old:  Worsening gas exchange (e.g., O2 desaturations, increased oxygen requirements, or increased ventilator demand)  AND  At least three of the following:  • Documentation of temperature instability with no other recognized cause Leukopenia (<400 WBC/mm3) or leukocytosis (≥15,000 WBC/mm3) and left shift (≥10% band forms)  • New onset of purulent sputum (with repeated notations over 24 hours), or change in character of sputum (e.g. color, consistency, odor, or quality), or increased respiratory secretions or increased suctioning requirements  • Apnea, tachypnea (see age-defined parameters below), nasal flaring with retraction of chest wall or grunting  • Wheezing, rales, or rhonchi  • Cough  • Bradycardia (<100 bpm for <30 day old, < 90 bpm for 30 day old - 1year) or tachycardia (>180 bpm)  ALTERNATE CRITERIA, for child > 1 year old or ≤ 12 years old:  At least three of the following:		
				Fever (≥38.4°C or ≥101.1°F) or hypothermia (≤36.5°C or ≤97.7°F) with no other recognized cause     Leukopenia (<4000 WBC/mm3) or leukocytosis(≥15,000 WBC/mm3•)     New onset of purulent sputum or change in character of sputum or increased respiratory secretions or increased suctioning requirements     New onset or worsening cough, or dyspnea, apnea, or tachypnea (see agedefined parameters below)     Rales or bronchial breath sounds     Worsening gas exchange [e.g. O2 desaturations (e.g. pulse oximetry <94%), increased oxygen requirements or increased ventilation demand]		
212	DOUPNEUMO	Num	Days from Operation until Pneumonia Complication	Days from Operation until Pneumonia Complication		-99 = Patient did not experienc this complication at or before 3 days post operation
213	NREINTUB	Num	Number of Unplanned Intubation Occurrences	Number of Unplanned Intubation Occurrences		
214	REINTUB	Char	Occurrences Unplanned Intubation	Patient required placement of an endotracheal tube and mechanical or assisted ventilation because of the onset of respiratory or cardiac failure manifested by severe respiratory distress, hypoxia, hypercarbia, or respiratory acidosis within 30 days of the operation. In patients who were intubated for their surgery, unplanned intubation occurs after they have been extubated after surgery. In patients who were not intubated during surgery, intubation at any time after their surgery is considered unplanned.	Unplanned Intubation; No Complication	
215	DREINTUB	Num	Days from Operation until Unplanned Intubation Complication	Days from Operation until Unplanned Intubation Complication		-99 = Patient did not experien this complication at or before days post operation
216	NPULEMBOL	Num	Number of Pulmonary Embolism Occurrences	Number of Pulmonary Embolism Occurrences		
217	PULEMBOL	Char	Occurrences Pulmonary Embolism	Lodging of a blood clot in a pulmonary artery with subsequent obstruction of blood supply to the lung parenchyma. The blood clots usually originate from the deep leg veins or the pelvic venous system. "Yes" is entered if the patient has a V-Q scan interpreted as high probability of pulmonary embolism or a positive CT spiral exam, TEE, pulmonary arteriogram or CT angiogram. Treatment usually consists of: -Initiation of anticoagulation therapy -Placement of mechanical interruption (e.g. Greenfield Filter), for patients whom anticoagulation is contraindicated or already instituted.	Pulmonary Embolism; No Complication	

Position #	Variable Name	Data	Variable Label	Variable Definition	Variable Options at Entry	Comments
		Type				
218	DPULEMBOL	Num	Days from Operation until Pulmonary Embolism Complication	Days from Operation until Pulmonary Embolism Complication		-99 = Patient did not experience this complication at or before 30 days post operation
219	NRENAINSF	Num	Number of Progressive Renal Insufficiency Occurrences	Number of Progressive Renal Insufficiency Occurrences		
220	RENAINSF	Char	Occurrences Progressive Renal Insufficiency	The reduced capacity of the kidney to perform its function as evidenced by a rise in creatinine of >1 mg/dl from preoperative value, but with no requirement for dialysis within 30 days of the operation.	Progressive Renal Insufficiency; No Complication	
221	DRENAINSF	Num	Days from Operation until Progressive Renal Insufficiency Complication	Days from Operation until Progressive Renal Insufficiency Complication		-99 = Patient did not experience this complication at or before 30 days post operation
222	NOPRENAFL	-	Number of Acute Renal Failure Occurrences	Number of Acute Renal Failure Occurrences		
223	OPRENAFL	Char	Occurrences Acute Renal Fail	In a patient who did not require dialysis preoperatively, worsening of renal dysfunction postoperatively requiring hemodialysis, peritoneal dialysis, or ultrafiltration within 30 days of the operation.	Acute Renal Failure; No Complication	
224	DOPRENAFL	Num	Days from Operation until Acute Renal Failure Complication	Days from Operation until Acute Renal Failure Complication		-99 = Patient did not experience this complication at or before 30 days post operation
225	NURNINFEC	Num	Number of Urinary Tract Infection Occurrences	Number of Urinary Tract infection Occurrences		
226	URNINFEC	Char	Occurrences Urinary Tract Infection	Postoperative urinary tract infections meet the criteria from one of the algorithm charts below AND a urinary tract infection was not present preoperatively.	Urinary Tract Infection; No Complication	

Position #	Data	Variable Label	Variable Definition	Variable Options at Entry	Comments
	Type		Symptomatic UTI (> 1 year old) - No indwelling urinary catheter within 48 hours of specimen collection  Patient did not have an indwelling urinary catheter at the time of specimen collection nor within 48 hours prior to specimen collection  At least one of the following with no other recognized cause:    Fever (>38 °C)   Urgency     Frequency     Dysaria   Sympapubic tenderness     Dysaria   Sympapubic tenderness     Dysaria   Positive urinalysis demonstrated by at least 1 of the following findings:   Dysaria   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive urinalysis demonstrated by at least 1 of the following findings:   Positive		

Symptomatic UTI (> 1 year old) - Urinary catheter within 48 hours of specimen collection  Patient had an indwelling urinary catheter discontinued within 48 hours prior to specimen collection  At least one of the following within other secognized cause:	Position #	Variable Name	Data	Variable Label	Variable Definition	Variable Options at Entry	Comments
OR A positive usinshy in demonstrated by at least 1 of the following friedge: Desired depotis for leadings the stress as and/or Plant Color as specimen with 2 100 WC (form) or a 25 WW. C (high possible of using			Туре		Patient had an indwelling urinary catheter discontinued within 48 hours prior to specimen collection    Patient had an indwelling urinary catheter discontinued within 48 hours prior to specimen collection    At least one of the following within other secognized cause:   Frequency		

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
		Туре		Symptomatic UTI - Infant (\$\leq\$ 1 Year of Age)  Patient \$\leq\$ 1 year of age (with or without indwelling catheter)    Patient \$\leq\$ 1 year of age (with or without indwelling catheter)    Patient \$\leq\$ 1 year of age (with or without indwelling catheter)    Patient \$\leq\$ 1 year of age (with or without indwelling catheter)    Patient \$\leq\$ 1 year of the following with no other secograine decause:   Prever \$\leq\$ 30 °C		
				Was an include ling usinary eatherse in place within the last 48 hours?  Yes No  Ves Who are included in the last 48 hours?  Yes No  CAUTI SUTI  For additional information, see harp://www.cdc.gov/phan/y dis/yes/Monad//yes/CAUTicarron.ydf		
227	DURNINFEC	Num	Days from Operation until Urinary Tract Infection Complication	Days from Operation until Urinary Tract Infection Complication		-99 = Patient did not experience this complication at or before 30 days post operation
228	NCNSCOMA	Num	Number of Coma > 24 Hours Occurrences	Number of Coma > 24 Hours Occurrences		
229	CNSCOMA	Char	Coma > 24 Hours	Patient is unconscious, or postures to painful stimuli, or is unresponsive to all stimuli (exclude transient disorientation or psychosis) for greater than 24 hours within 30 days of the operation. Drug-induced coma (e.g. Propofol drips) are not included.	Coma greater than 24 hours; No Complication	
230	DCNSCOMA	Num	Days from Operation until Coma > 24 Hours Complication	Days from Operation until Coma > 24 Hours Complication		-99 = Patient did not experience this complication at or before 30 days post operation
231	NCNSCVA	Num	Number of CVA/Stroke or Intracranial Hemorrhage Occurrences	Number of CVA/Stroke Occurrences		
	CNSCVA	Char	CVA/Stroke or Intracranial Hemorrhage	Patient develops an embolic, thrombotic, or intra-parenchymal hemorrhagic event with motor, sensory, or cognitive dysfunction (e.g., hemiplegia, hemiparesis, aphasia, sensory deficit, impaired memory) within 30 days of the operation.	Stroke/CVA with neurological deficit; No Complication	
233	DCNSCVA	Num	Days from Operation until CVA/Stroke or Intracranial Hemorrhage Complication	Days from Operation until CVA/Stroke Complication		-99 = Patient did not experience this complication at or before 30 days post operation
	NSZRE	Num		Number of seizure occurrences		
235	CSZRE	Char	Seizure Disorder	Any seizure event occurring within 30 days of the operation due to any etiology. Patients with documented preoperative seizure disorders are not included.	Seizure; No Complication	
236	DSZRE	Num	Days from Operation until Seizure Complication	Days from Operation until Seizure complication		-99 = Patient did not experience this complication at or before 30 days post operation
237	NNEURODEF	Num	Number of Nerve Injury Occurrences	Number of Nerve Injury Occurrences		

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
238	NEURODEF		Nerve Injury	Nerve injury occurring as a result of surgical or anesthesia techniques. Nerve injuries (e.g. motor, sensory, and mixed motor/sensory injury) to the spinal cord, cervical plexus, brachial plexus, ulnar plexus, lumbar-sacral plexus (sciatic nerve), peroneal nerve, and/or the femoral nerve should be included.	Nerve injury ; No Complication	
239	DNEURODEF	Num	Days from Operation until Nerve Injury Complication	Days from Operation until Nerve Injury Complication		-99 = Patient did not experience this complication at or before 30 days post operation
240	NIVHG1	Num	Number of IVH Grade 1 Occurrences	Number of IVH Grade 1 Occurrences. Reported only for neonates.		
241	CIVHG1	Char	Occurrences IVH Grade 1	An intraventricular hemorrhage of grade 1 occurring within 30 days of operation. Reported for neonates only.	IVH Grade 1; No Complication	
	DIVHG1		Days from Operation until IVH Grade 1 Complication	Days from Operation until IVH Grade 1 Complication		<ul> <li>-99 = Patient did not experience this complication at or before 30 days post operation</li> </ul>
	NIVHG2	Num	Number of IVH Grade 2 occurrences	Number of IVH Grade 2 Occurrences. Reported only for neonates.		
	CIVHG2	Char	Occurrences IVH Grade 2	An intraventricular hemorrhage of grade 2 occurring within 30 days of operation. Reported for neonates only.	IVH Grade 2; No Complication	
245	DIVHG2	Num	Days from Operation until IVH Grade 2 Complication	Days from Operation until IVH Grade 2 Complication		-99 = Patient did not experience this complication at or before 30 days post operation
	NIVHG3	Num	Number of IVH Grade 3 Occurrences	Number of IVH Grade 3 Occurrences. Reported only for neonates.		
247	CIVHG3	Char	Occurrences IVH Grade 3	An intraventricular hemorrhage of grade 3 occurring within 30 days of operation. Reported for neonates only.	IVH Grade 3; No Complication	
248	DIVHG3	Num	Days from Operation until IVH Grade 3 Complication	Days from Operation until IVH Grade 3 Complication		-99 = Patient did not experience this complication at or before 30 days post operation
249	NIVHG4	Num	Number of IVH Grade 4 Occurrences	Number of IVH Grade 4 Occurrences. Reported only for neonates.		
	CIVHG4		Occurrences IVH Grade 4	An intraventricular hemorrhage of grade 4 occurring within 30 days of operation. Reported for neonates only.	IVH Grade 4; No Complication	
251	DIVHG4	Num	Days from Operation until IVH Grade 4 Complication	Days from Operation until IVH Grade 4 Complication		-99 = Patient did not experience this complication at or before 30 days post operation
252	NIVHGUNK	Num	Number of IVH Grade Unknown Occurrences	Number of IVH Grade Unknown Occurrences. Reported only for neonates.		
	CIVHGUNK	Char	Occurrences IVH Grade Unknown	operation. Reported for neonates only.	Unknown/Specific Grade; No Complication	
	DIVHGUNK		Days from Operation until IVH Grade Unknown Complication	Days from Operation until IVH Grade Unknown Complication		
	NCDARREST	Num	Occurrences	Number of Cardiac Arrest Requiring CPR Occurrences		
	CDARREST	Char	Occurrences Cardiac Arrest Requiring CPR	The absence of cardiac rhythm or presence of chaotic cardiac rhythm which results loss of pulse and/or blood pressure requiring the initiation of chest compressions. Patients requiring initiation of ECMO (extracorporeal membrane oxygenation) are included.	Cardiac Arrest Requiring CPR; No Complication	
257	DCDARREST	Num	Days from Operation until Cardiac Arrest Requiring CPR Complication	Days from Operation until Cardiac Arrest Requiring CPR Complication		-99 = Patient did not experience this complication at or before 30 days post operation
	NOTHBLEED	Num	Number of Bleeding/Transfusion Occurrences	Number of Bleeding/Transfusion Occurrences		
259	OTHBLEED	Char	Occurrences Bleeding/Transfusion	The number of mls of packed or whole red blood cells given from the surgical start time up to and including 72 hours postoperatively. If no blood was given intra-operatively, the number of mls given postoperatively, within 72 hours from the surgery start time. Shed blood, autologous blood, cell saver blood or pleurovac given intraoperatively or postoperatively is counted in terms of equivalent mls. The amount infused from cell saver is included, as it is considered a transfusion. The blood may be given for any reason. Transfusions of fresh frozen plasma, platelets, cryoprecipitate or albumin are not included.	Bleeding/Transfusions; No Complication	

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
260	DOTHBLEED		Days from Operation until Bleeding/Transfusion Complication	Days from Operation until Bleeding/Transfusion Complication		-99 = Patient did not experience this complication at or before 30 days post operation
261	BLEED ML_TOT	Num	Total blood transfused	Total blood (in mls) transfused during bleeding complications		-99 = Unknown
	BLEEDING_ML1	Num	Blood used in transfusion 1	Amount of blood (in mls) transfused during bleeding complication 1		-99 = Unknown
	_					
	BLEEDING_ML2	Num	Blood used in transfusion 2	Amount of blood (in mls) transfused during bleeding complication 2		-99 = Unknown
264	BLEEDING_ML3	Num	Blood used in transfusion 3	Amount of blood (in mls) transfused during bleeding complication 3		-99 = Unknown
265	BLEEDING_ML4	Num	Blood used in transfusion 4	Amount of blood (in mls) transfused during bleeding complication 4		-99 = Unknown
266	BLEEDING_ML5	Num	Blood used in transfusion 5	Amount of blood (in mls) transfused during bleeding complication 5		-99 = Unknown
267	NOTHGRAFL	Num	Number of Graft/Prosthesis/Flap Failure Occurrences	Number of Graft/Prosthesis/Flap Failure Occurrences		
268	OTHGRAFL	Char	Occurrences Graft/Prosthesis/Flap Failure	Mechanical failure of an extra cardiac graft or prosthesis including myocutaneous flaps and skin grafts requiring return to the operating room, interventional radiology, or a balloon angioplasty within 30 days of the operation.	Graft/Prosthesis/FF; No Complication	
269	DOTHGRAFL	Num	Days from Operation until Graft/Prosthesis/Flap Failure Complication	Days from Operation until Graft/Prosthesis/Flap Failure Complication		-99 = Patient did not experience this complication at or before 30 days post operation
270	NOTHVT	Num	Number of VT Occurrences	Number of VT Occurrences		
271	ОТНУТ	Char		The identification of a new blood clot or thrombus within the venous system, which may be coupled with inflammation. The clot can be described in studies as present in the superficial or deep venous systems but requires therapy. This diagnosis is confirmed by a duplex, venogram or CT scan, AND the patient must be treated with anticoagulation therapy and/or placement of vena cava filter or clipping of the vena cava. Examples of clots that should be considered for this variable include internal jugular (IJ) line clots, PICC line clots and those found in the abdomen (portal vein).	VT Requiring Therapy; No Complication	
272	DOTHVT	Num	Days from Operation until VT Complication	Days from Operation until VT Complication		-99 = Patient did not experience this complication at or before 30 days post operation
273	NOTHSYSEP	Num	Number of Sepsis Occurrences	Number of Sepsis Occurrences		

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
	Variable Name OTHSYSEP	Data Type Char	Variable Label Occurrences Sepsis	Variable Definition  Sepsis is a vast clinical entity that takes a variety of forms. The spectrum of disorders spans from relatively mild physiologic abnormalities to septic shock. Note: For an event to be considered a Postoperative Occurrence of Systemic Sepsis when sepsis was present preoperatively, there has to be a new source of infection. If Sepsis was present preoperatively, progression to Septic Shock should be condsidered a Postoperative Occurrence of Septic Shock.  Systemic Sepsis: To be assigned as sepsis, criteria from both Pediatric Systemic Inflammatory Response Syndrome, AND Suspected or Proven Infection must be met.  Pediatric Systemic Inflammatory Response Syndrome: The presence of at least two of the following criteria, one of which must be abnormal temperature or leukocyte count (WBC).  **Temperature of >38°C or <36°C (axillary, temporal, tympanic, oral, rectal, bladder or central catheter probe)  **Tachycardia in the absence of drugs, external or painful stimuli which persists for >30 minutes. For children < 1 yr of age: Bradycardia, in the absence of deep sedation, beta blockers, or other cardioactive drugs which persists for >30 minutes.  **Respiratory rate elevation in the absence of external or painful stimuli which persists for >30 minutes OR mechanical ventilation not related to underlying neuromuscular disease.  **Leukocyte count elevated or depressed for age with leukopenia not seecondary to chemotherapy.  Suspected or Proven Infection: Infection caused by any pathogen, or Clinical Syndrome associated with a high probability of infection.  Must meet at least one of the following:  **Positive blood culture*  **Posi	Systemic Sepsis; No Complication	Comments
				vasoactive drug in a patient receiving a vasoactive drug prior to the diagnosis of sepsis.		
275	DOTHSYSEP	Num	Days from Operation until Sepsis Complication	Days from Operation until Sepsis Complication		-99 = Patient did not experience this complication at or before 30 days post operation
276	NOTHCLAB	Num	Number of CL Associated Blood Stream Infection Occurrences	Number of CL Associated Blood Stream Infection Occurrences		

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
277	OTHCLAB	Char	Occurrences CL Associated Blood Stream Infection	A bloodstream infection is considered to be associated with a central line if the line was in use during the 48-hour period before the development of the bloodstream infection. If the time interval between the onset of infection and device use is greater than 48 hours, there needs to be conpelling evidence that the infection is related to the central line not related to an infection at another site. This occurrence is reported if the patient meets the following criteria from both Signs & Symptoms and Clinical Findings. For patients of any age, utilize Section A, criterion 1 or 2. For patients <=1 year of age, may also utilize Section B.	CL Associated Bloodstream Infection; No Complication	
				*Section A: Patients any age     Criterion 1:     Patient has a recognized pathogen (such as S. aureus, Enterococcus spp., E. coli, Pseudomonas spp., Klebsiella spp., Candida spp., etc.) cultured from one or more blood cultures (at least one bottle from a blood draw is reported by the laboratory as having grown organisms - i.e., is a positive blood culture and not considered common skin contaminants) - preferably drawn from a peripheral site     AND     *Organism cultured from blood is not related to an infection at another site.		
				OR Criterion 2: Must meet criteria from both Signs & Symptoms and Clinical Findings and is not related to infection at another site: Signs & Symptoms: One or more of the following: Fever > 38°C (core) Chills Hypotension AND Clinical Findings: At least two positive blood cultures, drawn on separate		
				occasions (within 2 days of each other), with growth of the same organism obtained through catheter, with no other identifiable source of infection. May include common skin contaminant (i.e., diphtheroids [Corynebacterium spp.], Bacillus [not B. anthracis] spp., Propionibacterium spp., coagulase-negative staphylococci [including S. epidermidis], viridans group streptococci, Aerococcus spp., Micrococcus spp.)  ◆ Section B: Additional Criteria for Patients ≤ 1 year of age		
				- Must meet criteria from both Signs & Symptoms and Clinical Findings and is not related to infection at another site: Signs & Symptoms: One or more of the following: - Fever (>38°C core) - Hypothermia (<360C core) - Apnea - Bradycardia AND  Clinical Findings: At least two positive blood cultures, drawn on separate occasions (within 2 days of each other), with growth of the same organism obtained through catheter, with no other identifiable source of infection. May include common skin contaminant (i.e., diphtheroids [Corynebacterium spp.], Bacillus [not B. anthracis] spp., Propionibacterium spp., coaquiase-negative staphylococci [including S. epidermidis], viridans group streptococci, Aerococcus spp., Micrococcus spp.)		
278	DOTHCLAB	Num	Days from Operation until CL Associated Blood Stream Infection Complication	Days from Operation until CL Associated Blood Stream Infection		-99 = Patient did not experience this complication at or before 30 days post operation
	PODIAG	Char	Post-op diagnosis (ICD 9)	The appropriate ICD-9-CM code corresponding to the condition noted as the postoperative diagnosis in the brief operative note, operative report, and/or after the return of the pathology reports are entered.		
280	PODIAGTX	Char	Post-op Diagnosis Text	Post-op Diagnosis text		

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
281	DOpertoD		Days from Operation to Death	Days from Operation to Death. Death can be recorded after 30 days if it is the direct result of the surgery and/or is associated with postoperative complications and the patient has remained in the hospital in the acute care setting.		-99 = Patient did not die at or before 120 days post operation
282	DEATH30YN	Char	Death in 30 days	Any death occurring within the 30 days following surgery, regardless of cause, in or out of the hospital.	Yes; No	
283	DEATH30DTUNK	Char	Date of death is unknown	Date of death is unknown	Yes	NULL = No Response
284	DOptoDis	Num	Days from Operation to Discharge	Days from Operation to Discharge		-99 = Unknown
285	DAYS_VENTILATION	Char	Total Days Mechanical Ventilation	Total Days Mechanical Ventilation	0-30; >30	
286	STILLINHOSP	Char	Still in Hospital > 30 Days	"Yes" is entered if patient has a continuous stay in the acute care setting > 30 days after the surgery. However, if the patient was discharged from the acute care setting, but remained in the hospital (rehab or hospice unit), then "NO" is entered, since the stay in the acute care setting was no longer continuous.	Yes	NULL = No Response
287	REOPERATION	Char	Unplanned Reoperation 1	"Yes" is entered if the patient had an unplanned return to the operating room for any reason, within 30 days of the principal operating procedure. The return to the OR may occur at any hospital or suggical facility (i.e. your hospital or at an outside hospital). Note: This definition is not meant to capture patients who go back to the operating room within 30 days for a follow-up procedure based on the pathology results from the index or concurrent procedure. Examples: Exclude breast biopsies which return for re-excisions; insertion of port-a-caths for chemotherapy.	Yes; No	
288	RETORPODAYS	Num	Days from operation to reoperation 1	Days from operation to reoperation 1		-99 = Unknown
289	REOPORCPT1	Char	Reoperation 1 CPT	The CPT code of the principal procedure performed during reoperation 1		NULL = No Response
290	RETORRELATED	Char	Related reoperation 1	"Yes" is entered if reoperation 1 is for a post-operative occurrence possibly related to the principal operative procedure or concurrent procedure performed under the same anesthesia as the principal procedure.	Yes; No; Unknown	NULL = No Response
291	REOPORICD91	Char	Reoperation 1 ICD-9 code	ICD-9 code corresponding to a post-operative occurrence related to the principal operative procedure or concurrent procedure.		NULL = No Response
292	REOPERATION2	Char	Unplanned Reoperation 2	See 'Reoperation 1'	Yes; No	
293	RETOR2PODAYS	Num	Days from operation to reoperation 2	Days from operation to reoperation 2		-99 = Unknown
294	REOPOR2CPT1	Char	Reoperation 2 CPT	The CPT code of the principal procedure performed during reoperation 2		NULL = No Response
295	RETOR2RELATED	Char	Related reoperation 2	"Yes" is entered if reoperation 2 is for a post-operative occurrence possibly related to the principal operative procedure or concurrent procedure performed under the same anesthesia as the principal procedure.	Yes; No; Unknown	NULL = No Response
296	REOPOR2ICD91	Char	Reoperation 2 ICD-9 code	ICD-9 code corresponding to a post-operative occurrence related to the principal operative procedure or concurrent procedure.		NULL = No Response
297	REOPERATION3	Char	Unplanned Reoperation 3	"Yes" is entered if the patient had more than 2 unplanned returns to the operating room for a post-operative occurrence likely related to the principal surgery within 30 days.	Yes; No	
298	READMISSION1	Char	Readmssion 1	"Yes" is entered for any readmission (to the same or another hospital), for any reason, within 30 days of the principal surgical procedure. The readmission has to be classified as an "inpatient" stay by the readmitting hospital, or reported by the patient/family as such.	Yes; No	
299	READMPODAYS1	Num	Days from operation to readmission 1	Days from operation to readmission 1		-99 = Unknown
	UNPLANNEDREADMISSION1	Char	Unplanned Readmission 1	"Yes" is entered if the readmission was unplanned.	Yes; No	NULL = No Response
301	READMRELATED1	Char	Related Readmission 1	"Yes" is entered if the readmission (to the same or another hospital) was for a postoperative occurrence likely related to the principal surgical procedure within 30 days of procedure.	Yes; No	NULL = No Response

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
302	READMSUSPREASON1		Readmission suspected reason 1	The primary suspected reason for the readmission if it is likely related to the	Superficial Incisional SSI	NULL = No Response
				principal operating procedure.	Deep Incisional SSI	
					Organ/Space SSI	
					Wound Disruption	
					Pneumonia	
					Unplanned Intubation	
					Pulmonary Embolism	
					Progressive Renal Insufficiency	
					Acute Renal Failure	
					Urinary Tract Infection	
					Coma > 24 hours	
					CVA/Stroke or Intercranial Hemorrhage	=
					Seizure; No Complication	-
					IVH Grade 1	-
					IVH Grade 2	-
					IVH Grade 3	-
					IVH Grade 3 IVH Grade 4	⊢
						=
					IVH Grade unknown/Specific Grade not documented	
					Cardiac Arrest Requiring CPR	
					Bleeding Requiring Transfusion (72h of surgery start	
					Graft/Prosthesis/FF	
					Septic Shock	
					VT Requiring Therapy	_
					Postoperative Systemic Sepsis	_
					Central line associated blood stream infection	_
					Other (list ICD9 code)	
303	READMRELICD91	Char	Readmission related ICD-9 code 1	The ICD-9 code for the suspected reason if "Other" is chosen and the readmission is likely related to the principal operating procedure.		NULL = No Response
304	READMISSION2	Char	Readmssion 2	See 'Readmission 1'	Yes; No	
305	READMPODAYS2	Num	Days from operation to readmission 2	Days from operation to readmission 2		-99 = Unknown
306	UNPLANNEDREADMISSION2	Char	Unplanned Readmission 2	See 'Unplanned readmission 1'	Yes; No	NULL = No Response
307	READMRELATED2	Char	Related Readmission 2	See 'Related readmission 1'	Yes; No	NULL = No Response
308	READMSUSPREASON2	Char	Readmission suspected reason 2	See 'Readmission suspected reason 1'	See 'Readmission suspected reason 1'	NULL = No Response
309	READMRELICD92	Char	Readmission related ICD-9 code 2	See 'Readmission related ICD-9 code 1'	·	NULL = No Response
	READMISSION3	Char	Readmssion 3	See 'Readmission 1'	Yes; No	i i
	READMPODAYS3	Num	Days from operation to readmission 3	Days from operation to readmission 3	† ·	-99 = Unknown
	UNPLANNEDREADMISSION3	Char	Unplanned Readmission 3	See 'Unplanned readmission 1'	Yes; No	NULL = No Response
	READMRELATED3	Char	Related Readmission 3	See 'Related readmission 1'	Yes: No	NULL = No Response
	READMSUSPREASON3	Char	Readmission suspected reason 3	See 'Readmission suspected reason 1'	See 'Readmission suspected reason 1'	NULL = No Response
	READMRELICD93	Char	Readmission related ICD-9 code 3	See 'Readmission related ICD-9 code 1'		NULL = No Response
	READMISSION4	Char	Readmssion 4	See 'Readmission 1'	Yes; No	
						-99 = Unknown
317	READMPODAYS4	Num	TDays from operation to readmission 4	Days from operation to readmission 4		
	READMPODAYS4 UNPLANNEDREADMISSION4	Num Char	Days from operation to readmission 4 Unplanned Readmission 4	Days from operation to readmission 4 See 'Unplanned readmission 1'	Yes: No	
318	UNPLANNEDREADMISSION4	Char	Unplanned Readmission 4	See 'Unplanned readmission 1'	Yes; No Yes: No	NULL = No Response
318 319	UNPLANNEDREADMISSION4 READMRELATED4	Char Char	Unplanned Readmission 4 Related Readmission 4	See 'Unplanned readmission 1' See 'Related readmission 1'	Yes; No	NULL = No Response NULL = No Response
318 319 320	UNPLANNEDREADMISSION4 READMRELATED4 READMSUSPREASON4	Char Char Char	Unplanned Readmission 4 Related Readmission 4 Readmission suspected reason 4	See 'Unplanned readmission 1' See 'Related readmission 1' See 'Readmission suspected reason 1'		NULL = No Response  NULL = No Response  NULL = No Response
318 319 320 321	UNPLANNEDREADMISSION4 READMRELATED4 READMSUSPREASON4 READMRELICD94	Char Char Char Char	Unplanned Readmission 4 Related Readmission 4 Readmission suspected reason 4 Readmission related ICD-9 code 4	See 'Unplanned readmission 1' See 'Related readmission 1' See 'Readmission suspected reason 1' See 'Readmission related ICD-9 code 1'	Yes; No See 'Readmission suspected reason 1'	NULL = No Response NULL = No Response
318 319 320 321 322	UNPLANNEDREADMISSION4 READMRELATED4 READMSUSPREASON4 READMRELICD94 READMISSION5	Char Char Char Char Char	Unplanned Readmission 4 Related Readmission 4 Readmission suspected reason 4 Readmission related ICD-9 code 4 Readmission 5	See 'Unplanned readmission 1' See 'Related readmission 1' See 'Readmission suspected reason 1' See 'Readmission related ICD-9 code 1' See 'Readmission 1'	Yes; No	NULL = No Response
318 319 320 321 322 323	UNPLANNEDREADMISSION4 READMRELATED4 READMSUSPREASON4 READMRELICD94 READMISSION5 READMPODAYS5	Char Char Char Char Char Num	Unplanned Readmission 4 Related Readmission 4 Readmission suspected reason 4 Readmission related ICD-9 code 4 Readmission 5 Days from operation to readmission 5	See 'Unplanned readmission 1' See 'Related readmission 1' See 'Readmission suspected reason 1' See 'Readmission related ICD-9 code 1' See 'Readmission 1' Days from operation to readmission 5	Yes; No See 'Readmission suspected reason 1' Yes; No	NULL = No Response NULL = No Response NULL = No Response NULL = No Response -99 = Unknown
318 319 320 321 322 323 324	UNPLANNEDREADMISSION4 READMRELATED4 READMSUSPREASON4 READMRELICD94 READMISSION5 READMIPODAYS5 UNPLANNEDREADMISSION5	Char Char Char Char Char Num Char	Unplanned Readmission 4 Related Readmission 4 Readmission suspected reason 4 Readmission related ICD-9 code 4 Readmission 5 Days from operation to readmission 5 Unplanned Readmission 5	See 'Unplanned readmission 1' See 'Related readmission 1' See 'Readmission suspected reason 1' See 'Readmission related ICD-9 code 1' See 'Readmission 1' Days from operation to readmission 5 See 'Unplanned readmission 1'	Yes; No See 'Readmission suspected reason 1' Yes; No Yes; No	NULL = No Response NULL = No Response NULL = No Response NULL = No Response -99 = Unknown NULL = No Response
318 319 320 321 322 323 324 325	UNPLANNEDREADMISSION4 READMRELATED4 READMSUSPREASON4 READMRELICD94 READMISSION5 READMPODAYS5	Char Char Char Char Char Num	Unplanned Readmission 4 Related Readmission 4 Readmission suspected reason 4 Readmission related ICD-9 code 4 Readmission 5 Days from operation to readmission 5	See 'Unplanned readmission 1' See 'Related readmission 1' See 'Readmission suspected reason 1' See 'Readmission related ICD-9 code 1' See 'Readmission 1' Days from operation to readmission 5	Yes; No See 'Readmission suspected reason 1' Yes; No	NULL = No Response NULL = No Response NULL = No Response NULL = No Response -99 = Unknown

