

"Quality Improvement through Quality Data"

User Guide for the 2014 ACS NSQIP Participant Use Data File (PUF)

American College of Surgeons

National Surgical Quality Improvement Program

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AMERICAN COLLEGE OF SURGEONS Inspiring Quality: Highest Standards, Better Outcomes

100+years

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Data Update

We have identified a problem in reported results for three outcome variables that existed in the Classic program, but did not exist in Essentials, between 2011 and 2013.

As it is mandatory to report outcome variables, we have historically converted the absence of an affirmative response (i.e., missing data) to "No Complication". This otherwise appropriate procedure was mistakenly applied to three outcome variables which were dropped from Essentials beginning in 2011 (Graft failure, Coma, Peripheral Nerve Injury). This logic resulted in "No complication" being assigned to missing data coming from Essential sites where, in fact, no data was being collected for these three outcomes. For the 2013 SAR (when Classic no longer existed) this isn't much of a problem as users would clearly know that something was wrong when 100% of the cases had "No complication" (for 2014 missing values were inserted for these historical outcome variables rather than "No complication"). However for 2011 and 2012, when some sites were Essentials and some Classic, a PUF user would see a strange, precipitous, drop in event rates for these outcomes.

Because of this problem, Graft failure, Coma, and Peripheral Nerve Injury should not be considered accurate for any PUF after 2010.

1. Introduction

This document is designed to accompany the 2014 Participant Use Data File (PUF) available for download on the American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP) website (<u>www.facs.org/quality-programs/acs-nsqip</u>). The sections contained herein will provide the user with information on how to request the 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 2014 PUF. Hospitals utilizing the 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 site and wants to obtain a copy of the ACS NSQIP PUF can do so by visiting <u>www.facs.org/quality-</u> <u>programs/acs-nsqip</u> and following the steps listed below:

- 1. From the ACS NSQIP main page (<u>www.facs.org/quality-programs/acs-nsqip</u>) the requestor can scroll down to the "Quick Links" box on the left side. Within that box you can click on the "Participant Use Data File" link. This will take you to the PUF information and request page.
- 2. Following a brief introduction and explanation of the various PUFs, 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 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 three 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 summer/fall a PUF will be made available for the previous calendar year's data. The PUF is available in one of three different formats - Text, SAS, and SPSS. In 2008, we provided an additional file that contains SAS and SPSS codes for constructing RACE variable that was available in previous years. The 2014 file contains 323 variables for each case, and a variable-by-variable description is provided starting on page 12. A brief description of the different formats follows:

File Name	Туре	Uncompressed File Size	Description
ACS_NSQIP_PUF14.txt	tab delimited TXT file	1.3 GB	Contains 323 HIPAA compliant variables on 750,937 cases submitted from 517 sites in 2014.
ACS_NSQIP_PUF14.sas7bdat	SAS 9.2 data file	4.5 GB	Same information as stated above in TXT data format.
ACS_NSQIP_PUF14.sav	SPSS 16.0 data file	5.0 GB	Same information as stated above in TXT and SAS data format.
Construct_RACE_Codes.txt	Notepad file	ЗКВ	Contains SAS and SPSS codes for constructing RACE variable that was available in 2005, 2006 and 2007.

4. Data Collection Background and Data Quality

The ACS NSQIP collects data on over 150 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 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 data.

To ensure the data collected are of the highest quality, the ACS NSQIP 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 requires SCRs to complete a series of web-based training modules followed by a certification exam that must be retaken 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 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 five or more preoperative risk factors and no reported mortality or morbidity or cases with two or fewer preoperative risk factors 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 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 Semiannual Report and may be required to undergo an additional audit following training and education recommendations from the ACS NSQIP.

5. Sampling Process and Case Exclusion Criteria

Sites participating in the ACS NSQIP can do so in a variety of options that cover general/vascular surgery, multispecialty surgery, or procedure targeted (reported separately). Each participation option includes a systematic sampling process that is described below.

Systematic Sampling Process

Larger institutions normally experience a significant volume of surgical cases. This presents the problem of managing an overwhelming workload. In order to prevent bias in choosing cases for assessment, a systematic sampling process was developed. An important tool to utilize while performing the systematic sampling process is the 8-Day Cycle Schedule. The 8-day cycle works as follows: If the first 'cycle' begins on a

Monday, it continues through to include the following Monday (an 8-day period of time). The next cycle begins on Tuesday and continues through to include the following Tuesday. And so on. This process assures that over time cases have equal chances of being selected from each day of the week.

Note: There are some exceptions to the systematic sampling inclusion. Hospitals participating in the Small & Rural option will collect all ACS NSQIP®-eligible cases at their hospital. Hospitals participating in Essentials (Multispecialty only) or in the Procedure Targeted (General/Vascular OR Multispecialty) options are provided with sampling requirements specific to their site and may opt to collect more than the specified sampling requirements if resources allow.

Case Exclusion Criteria

The following exclusion criteria were applied to cases collected in 2014. For the current inclusion/exclusion criteria please contact the ACS NSQIP Clinical Support Team at clinicalsupport@acsnsqip.org.

- Minor Cases (all cases that are not considered Major)
- Patients under the age of 18 years.
- Patient for the case in question has been assigned with an ASA score of 6 (braindeath organ donors).
- Cases involving Hyperthermic Intraperitoneal Chemotherapy (HIPEC)
- Trauma cases: Any patient that meets the trauma exclusion criteria will be excluded.
- Transplant cases: For any patient who is admitted to the hospital and has a transplant procedure, that transplant procedure and any additional surgical procedure during the transplant hospitalization will be excluded.
- Cases beyond three per cycle for limited cases: For each program option (excluding Small & Rural), only a maximum of three cases from each of the below procedures should be included per 8-day cycle. Any case beyond the case limit of three for any of these procedures should be excluded.
 - Inguinal Herniorrhaphies
 - Breast Lumpectomies
 - Laparoscopic Cholecystectomies
 - TURPs and/or TURBTs

(This limit does not apply for Procedure Targeted sites that are targeting TURPs.)

- Cases beyond the required number per your site's contract for each cycle.
- A return to the operating room that is related to an occurrence or complication of a prior procedure
- Multiple NSQIP assessed cases within 30 days: Any patient who already has a NSQIP-assessed procedure entered within the previous 30 days at your site should be excluded. Only one NSQIP®-assessed procedure can be abstracted patient, per 30 days, for each

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 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%

Measures Sites Excluded

Due to the small number of "Measures" sites enrolled in ACS NSQIP, cases from "Measures" sites have been removed from the PUF dataset in order to protect against possible identification of those sites and cases.

6. Data Limitations

While every effort has been made to make the 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, except for the procedure targeted option, which is reported separately). 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.
- While the sex and race distributions are reasonably representative of the national surgery patient population, only patients over the age of 18 are available for assessment, so the age distribution is somewhat truncated. Patients over the age of

90 are also grouped into a 90+ category to prevent cases from being identifiable due to unique data.

- Patients are followed after surgery for 30 days. Complications or death after that period are not included. Hospitals may follow patients longer than 30 days, but this data is not reported by NSQIP.
- 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 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 underestimation 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 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 (15% to 45%, 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 User Guide or PUF, as well as comments and suggestions for improvements are welcome and may be directed to Brian Matel, ACS NSQIP Statistical Report Manager, via email at <u>bmatel@facs.org</u>.

8. Frequently Asked Questions

Request Process

- Q: Who has access to this file?
- A: Any individual with an official appointment at a fully participating 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 sites.
- Q: I am at a 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 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-bystep 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 that received odds ratios in 2014. Each record includes 323 variables. The variable name, variable label, data definition, and other pertinent information are provided in Section 10: Data Variables and Definitions.

- Q: Are other PUF data sets available?
- A: Twelve other PUF files are available for download: 2005/2006 PUF - 152,490 cases from 121 sites 2007 PUF - 211,407 cases from 183 sites 2008 PUF - 271,368 cases from 211 sites 2009 PUF - 336,190 cases from 237 sites 2010 PUF - 363,431 cases from 258 sites 2011 PUF - 442,149 cases from 315 sites 2011-2012 Colectomy PUF - 16,981 cases from 121 sites 2011-2012 Vascular PUF - 655 cases from 71 sites 2012 PUF - 543,885 cases from 374 sites 2013 PUF - 651,940 cases from 435 sites 2013 Colectomy PUF - 21,505 cases from 154 sites 2013 Vascular PUF - 4,292 cases from 83 sites
- 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 PUF exclude specific dates?
- A: In order to release the 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 <u>http://privacyruleandresearch.nih.gov/</u> or <u>http://privacyruleandresearch.nih.gov/pdf/HIPAA_Booklet_4-14-2003.pdf</u>.
- Q: The ACS NSQIP program collects over 150 variables, but the database contains 323 variables. What are the additional variables?
- A: The additional variables contained in the 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 requires the use of three different variables in the database. There are a few other data elements collected in the ACS NSQIP that require multiple variables in the database. In

2008, we've removed RACE variable but added RACE_NEW and ETHNICITY_HISPANIC variables to comply with the CMS standard.

- Q: I am the Surgeon Champion or Surgical Clinical Reviewer from a site that has records in the 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 <u>bbeemer@facs.org</u> to request a file that will contain the Case IDs from your facility.

Values in the Data

- Q: For each of the following complications, Pneumonia, On Ventilator > 48 hours, Urinary Tract Infection, and Bleeding Transfusion, one case did not have a known duration from operation to complication. Why is that?
- A: In each of these complications the case had an invalid date which inhibited the calculation of duration. The number of days from operation to complication variable is coded as -99 for these cases.
- Q: What are the probability scores for mortality and morbidity and how often are they calculated?
- A: The probabilities of mortality and morbidity are provided in this database for all surgery cases in 2014. These probabilities are derived using hierarchical regression analysis, but based only on patient-level effects. They represent the probability (0 to 1) that a case will experience a morbid or mortal event based on the pre-existing conditions. These probabilities are calculated every six months for the previous 12 months of data so the algorithm used to generate the predicted values changes over time as does the data used to create the algorithm.
- Q: Which calculated probabilities of mortality and morbidity are supplied in this data set?
- A: The probabilities of mortality and morbidity for all surgical cases used in the riskadjusted analysis in 2014 are provided. Future versions of the PUF may contain a more complete set of predictive values.
- 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 five 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 a SAS file.

* When a change in definitions across PUF years is noted, users should attend to this if they merge files. It is suggested that they evaluate variable categories across years and combine them in a manner appropriate to their research objectives.

VARIABLE ADDED IN 2011
VARIABLE ADDED IN 2012
VARIABLE ADDED IN 2013
VARIABLE ADDED IN 2014

Position #	Variable Name	Data	Variable Label	Variable Definition	Variable Options at Entry	Comments		
		Туре						
1	CaseID	Num	Case Identification Number	Each case or record in the database has a unique CaseID number.				
2	SEX	Char	Gender	Gender	Male; Female	NULL = Unknown		
3	RACE_NEW	Char	New Race	Race	American Indian or Alaska Native	NULL = No Response		
					Asian	_		
					Black or African American	-		
					Native Hawaiian or Pacific Islander	-		
					Unknown/Not Reported White	-		
		0	50 · · · · · ·	PA 19 19 1				
4	ETHNICITY_HISPANIC PRNCPTX		Ethnicity Hispanic	Ethnicity Hispanic	Yes; No; Unknown	NULL = No Response		
э	PRINCPTX	Char	Principal operative procedure CPT code description	The principal operative procedure is the most complex of all the procedures performed by the primary operating team during the trip to the operating room.				
			description	Additional procedures requiring separate CPT codes and/or concurrent				
				procedures will be entered separately in the "Other Procedures" or "Concurrent				
				Procedures" categories.				
				Flocedules calegolies.				
-								
6	CPT	Char		The CPT code of the principal operative procedure.				
7	WORKRVU	Num	Work Relative Value Unit	Work Relative Value Unit		-99 = Unknown		
8	INOUT	Char	Inpatient/outpatient	The hospital's definition of inpatient and outpatient status.	Outpatient; Inpatient	NULL = Unknown		
э	TRANST	Char	Transfer status	The patient's transfer status which includes the following options: Admitted	From acute care hospital inpatient	NULL = No Response		
		1		directly from home (Includes patients arriving from another hospital's	Not transferred (admitted from home)	Definition change in 2009		
1	1		1	emergency department); If the patient was transferred from another facility and	Nursing home - Chronic care - Intermediate care	4		
1		1		was considered an inpatient at that facility Acute Care Hospital, VA Acute Care	Outside emergency department	_		
1	1		1	Hospital, Chronic Care Facility, and VA Chronic Care Facility are acceptable. If	Transfer from other			
				the kind of facility could not be determined 'Other' is entered.				
					Unknown			
10	Age	Char		Age of patient with patients over 89 coded as 90+. No patients under 15 are		-99 = Unknown		
			as 90+	included.				
11	AdmYR	Num	Year of Admission	Year of admission to the hospital		-99 = Unknown		
12	AdmSYR	Num	Year of Admission to Surgery	Year of admission to the surgical service		Historical variable, no longer used		
13	OperYR	Num	Year of Operation	Year the surgical procedure is performed		-99 = Unknown		
14	DISCHDEST	Char	Discharge Destination	Designate whether the patient was discharged to home or to another type of	Skilled Care, Not Home	NULL = No Response Variable		
				facility. Choose the patient's discharge destination from the following		added in 2011		
					Unskilled Facility Not Home	7		
					(1) Skilled care, not home (e.g., transitional care unit, subacute hospital,	Facility Which was Home		
				ventilator bed, skilled nursing home)	Home			
				(2) Unskilled facility, not home (e.g., nursing home or assisted facility-if not	Separate Acute Care			
				patient's home preoperatively)	Rehab			
				(3) Facility which was home (e.g., return to a chronic care, unskilled facility, or	Expired			
				assisted living-which was the patient's home preoperatively)	Unknown			
				(4) Home				
				(5) Separate acute care (e.g., transfer to another acute care facility)				
				(6) Rehab				
				(7) Expired				
						(8) Unknown		
15	ANESTHES	Char	Bringing anosthogia technique	The type of anesthesia administered during the principal operative procedure,	Enidurel	NULL = No Response Definition		
15	ANESTHES	Char	Principal anesthesia technique	as reported by the anesthesia provider. The technique employed may be found	Epidural	revised or clarified in 2011		
		1		on the anesthesia record. General anesthesia should take precedence over all	General Local	Definition revised or clarified in		
		1		of the anesthesia record. General anesthesia should take precedence over all other forms of anesthesia. MAC should be chosen for MAC with or without	Monitored Anesthesia care (MAC) / IV Sedation	2014		
		1		Local; If the patient is given a regional/spinal or epidural and MAC, MAC	None	2014		
		1		anesthesia would take precedence; Anesthesia providers would include:	Other	4 1		
		1		anesthesialogists, anesthesia fellows, anesthesia residents, Certified	Regional	4 1		
		1		Registered Nurse Anesthetists and Certified Registered Nurse Anesthetist	Spinal	4 1		
		1		students; If IV sedation is provided by a nurse you may utilize the medical	Unknown	4 1		
1		1		record.	UTIKTOWIT			
16	ATTEND	Char	Level of Residency Supervision	Highest level of supervision provided by the attending staff surgeon for the		NULL = Unknown		
1		1		case. Attending alone: Staff practitioner performed the procedure; resident not	Attending & Resident in OR	Definition change in 2009		
1			1	present; Attending in OR: Staff practitioner is scrubbed and present in the		Classic variable,no longer used		
1	1	1	1	procedure/operating room; Attending in OR Suite: Staff practitioner is present in	Attending Alone	-		
1	1	1	1	the procedural/surgical suite and available for consultation; Attending Not	Attending Not Present, but Available	4		
		1		Present, but Available: Staff practitioner is not present, but immediately	Allehuling Not Fresent, but Available	4		
1		1		available on campus.		-		
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Position #	Variable Name	Data	Variable Label	Variable Definition	Variable Options at Entry	Comments
17	SURGSPEC	Char	Surgical Specialty	The surgical specialty area that best characterizes the principal operative	Cardiac Surgery	Definition revised or clarified in 2013
				procedure.	General Surgery	
				 Surgeon's self-declared specialty 	Gynecology	
				 If a surgeon is privileged to perform cases within multiple specialties 	Neurosurgery	
				(regardless of board certification), the service line/specialty most closely related	Orthopedics	
				to the principal operative procedure would be assigned.	Otolaryngology (ENT)	
				 If a Surgeon is "Board Certified" in both Vascular Surgery and General 	Plastics	
				Surgery and performs an appendectomy, the surgeon's specialty should be	Thoracic	
				designated as general surgery, but if he/she performs a vascular bypass, it	Urology	
				should be designated as vascular.	Vascular	
					Interventional Radiologist	
18	ELECTSURG	Char	Elective Surgery	TYES' is entered if the patient is brought to the hospital or facility for a scheduled (elective) surgery from their home or normal living situation on the day that the procedure is performed. ENTER NO (Exclude) FOR the following: • patients who are inpatient at an acute care hospital (example: patient transferred from another acute care hospital to your hospital for surgery) • patients who are transferred from an ED • patients who are transferred from a clinic • patients who are transferred from a clinic • patients who are transferred from a clinic • patients who are transferred from a day(s) prior to a scheduled procedure for any reason (e.g. cardiac or pulmonary workup or "tuning", bowel cleanout, TPN, hydration, anticoagulation reversal etc.) ENTER YES (Include) FOR the following: • patients who some from the hospital and stays in a hotel across from the hospital the night before their scheduled (elective) surgery) • patients who come from their present "home" (which may include patients whose home is a nursing home, assisted care facility, prison or other non- hospital institution)	Yes; No; Unknown	NULL = No Response Variable added in 2011
19	HEIGHT	Num	Height	The intent is to identify a relatively homogeneous group of patients who are well enough to come from home, to allow for more meaningful comparative analyses. The patient's most recent height documented in the medical record in inches (in), within the 30 days prior to the principal operative procedure or at the time the patient is being considered a candidate for surgery		-99 = Unknown Definition revised or clarified in 2013
20	WEIGHT	Num	Weight	The patient's most recent weight documented in the medical record in pounds (lbs.), within the 30 days prior to the principal operative procedure or at the time the patient is being considered a candidate for surgery		-99 = Unknown Definition revised or clarified in 2013
21	DIABETES	Char	Diabetes mellitus with oral 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 with Insulin resistance (e.g., polycystic ovarian syndrome) that routinely take anti-diabetic agents are included; Patients who prescribed oral or insulin treatment and are noncompliant are included. Patients whose diabetes are controlled by diet alone are not included. No: no diagnosis of diabetes or diabetes controlled by diet alone. Non-Insulin: a diagnosis of diabetes routins agents). 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. Note:/f the patient requires treatment with both non-insulin and insulin, assign insulin.	INSULIN; NO; NON-INSULIN	NULL = Unknown Definition change in 2009 Definition revised or clarified in 2010 Definition revised or clarified in 2014
22	SMOKE	Char	Current smoker within one year	If the patient has smoked cigarettes in the year prior to admission for surgery "YES" entered. Patients who smoke cigars or pipes or use chewing tobacco are not included. Patients who smoke mechanical/electronic cigarettes are not included	Yes; No	NULL = Unknown Definition revised or clarified in 2014
23	PACKS	Num	Pack-years of smoking	If the patient has ever been a smoker, the total number of pack/years of smoking for this patient is provided. Pack-years are defined as the number of packs of cigarettes smoked per day times the number of years the patient has smoked. If the patient has never been a smoker, '0' is entered. If pack-years are > 200, 200 is entered. It smoking history cannot be determined, '99' is entered. The possible range for number of pack-years is 0 to 200. If the chart documents differing values for pack year cigarette history or ranges for either packs per day or number of years patient has smoked, the highest value is documented.		99 = Unknown Classic variable, no longer used

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
24	ЕТОН	Char	ETOH > 2 drinks/day in 2 wks before admission	"YES" is entered if 2 drinks per day in the two weeks prior to admission: The patient admits to drinking >2 ounces of hard liquor or > two 12 oz. cans of beer or > two 6 oz. glasses of wine per day in the two weeks prior to admission. If the patient is a binge drinker, the numbers of drinks during the binge are divided by seven days and then the definition is applied.	Yes; No	NULL = Unknown Classic variable, no longer used
25	DYSPNEA	Char	Dyspnea	Dyspnea may be symptomatic of numerous disorders that interfere with adequate ventilation or perfusion of the blood with oxygen and is defined as difficult, paintil or labored breathing. The intent of this variable is to capture the usual or typical level of dyspnea (patient's baseline), within the 30-days prior to surgery. The intent is not to include patients oslely because of an acute respiratory condition leading to intubation prior to surgery, but rather to reflect a chronic disease state. Characterize the patient's dyspnea status when they were in their usual state of health, prior to the onset of the acute illness, within the 30 days prior to surgery. (1) No dyspnea (2) Dyspnea test of the acute illness of breath) (3) Dyspnea test (for example: cannot complete a sentence without needing to take a breath) Note: Acute pre-op dyspnea associated with the acute illness will be captured through other variables like pre-op vent dependence, emergency status or ASA Class. The previous requirement that the patient has to themselves state that they are symptomatic has been removed: not all patients are able to verbalize this symptomatology.	AT REST; MODERATE EXERTION; No	NULL = Unknown Definition revised or clarified in 2011
26	DNR	Char	Do not resuscitate (DNR) status	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, enter "YES". There must be active DNR order at the time the patient is going to the OR. However, if the DNR order, as defined above, was rescinded integrated by pior to surgery, in order to operate on the patient, enter "YES". Answer "NO" 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. Also answer 'NO' if the patient is admitted as a DNR from a nursing home, as there must be a new DNR order written and signed/co-signed by a hospital attending physician. Advanced Directives are not DNR orders.	Yes; No	NULL = Unknown Definition revised or clarified in 2011 Classic variable, no longer used
27	FNSTATUS1	Char	Functional health status Prior to Current Illness		Independent	Historical variable, no longer used
28	FNSTATUS2	Char	Functional health status Prior to Surgery	This variable focuses on the patient's abilities to perform activities of daily living (ADLs) in the 30 days prior to surgery. Activities of daily living are defined as the activities usually performed in the course of a normal day in a person's life'. ADLs include: bathing, feeding, dressing, toileting, and mobility. The <u>best</u> , functional status demonstrated by the patient within the 30 days prior to surgery is reported. Report the level of functional health status as defined by the following criteria. (1) Independent: The patient does not require assistance from another person for any activities of daily living. This includes a person who is able to function independently with prosthetics, equipment, or devices. (2) Partially dependent: The patient requires some assistance from another person for activities of daily living. This includes a person who utilizes prosthetics, equipment, or devices but still requires some assistance from another person for ADLs. (3) Totally dependent. The patient requires total assistance for all activities of	Independent; Partially Dependent; Totally Dependent; Unknown	NULL = No Response Definition revised or clarified in 2010
				(a) Daily dependent. The patient requires total assistance for an activities of daily living. (4) Unknown: If unable to ascertain the functional status prior to surgery, report as unknown. All patients with psychiatric illnesses should be evaluated for their ability to function with or without assistance with ADLs just as the non-psychiatric patient. For instance, if a patient with schizophrenia is able to care for him/herself without the assistance of nursing care, he/she is considered independent. If there is a change in the patients functional status, (i.e. improvement to worsening) within the 30 days prior to surgery, report the patient's best functional status.		

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
30	нхсорд	Char	History of severe COPD	COPD [emphysema and/or chronic bronchitts/bronchiectasis/ bronchiolitis obliterans organizing pneumonia (BOOP)] is a progressive disease that makes it hard to breathe. Progressive' means the disease gets worse over time. "COPD can cause coughing that produces large amounts of mucus wheezing, shortness of breath, chest tightness, and other symptoms" (National Heart Lung and Blood Institute, 2010) 2. Medical record must document that there is a historical or current diagnosis of COPD AND at least one of the following, within the 30 days prior to the principal operative procedure or at the time the patient is being considered as a candidate for surgery: Eunctional disability from COPD (e.g., dyspnea, inability to perform ADLs) Or Requires chronic bronchodilator therapy with oral or inhaled agents or other medication specifically targeted to this disease Or Hospitalization in the past for treatment of COPD Or An FEV1 of <75% of predicted on a prior pulmonary function test (PFT) Patients whose only pulmonary disease is asthma, an acute and chronic inflammatory disease of the airways resulting in bronchospasm are not included Notes:Utilize post bronchodilator values if available	Yes; No	NULL = Unknown Definition revised or clarified in July 2013 Definition revised or clarified in 2014
31	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 <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 <u>one</u> of the following: -New or progressive and persistent infiltrate -Consolidation or opacity -Consolidation or opacity -Consolidation or opacity -Cavitation Note: In patients with underlying pulmonary or cardiac disease (e.g. respiratory disress synthme, bronchopulmonary dysplasia, pulmonary edema, or chronic obstructive pulmonary disease), two or more serial chest radiological exams (x-gy 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. D not assign the date of the occurrence to when the second serial xray was performed). Signs/Symptoms/Laboratory: FOR ANY PATIENT, at least one of the following: -fever (>36 cr >100 4 F) with no other recognized cause -Leukopenia (<4000 WBC/mm3) or leukocytosis(212,000 WBC/mm3)</i>	Yes; No	Definition revised or clarified in 2010 NULL=Unknown Classic variable, no longer used
32	ASCITES	Char	Ascites	"YES" is entered for patients with the presence of fluid accumulation in the peritoneal cavity noted on physical examination, abdominal ultrasound, or abdominal CT/MRI within 30 days prior to the operation. Documentation should state either active or a history of liver disease (for example, jaundice, encephalopathy, hepatomegaly, portal hypertension, liver failure, or spider telangicetasis). Minimal or trace ascites would not qualify, however, malignant ascites (exclusive of liver disease) due to extensive cancer would qualify.	Yes; No	Definition revised or clarified in 2010 NULL≓Unknown

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
33	ESOVAR	Char	Esophageal varices	"YES" is entered for patients with esophageal varices present preoperatively and documented on an EGD or CT scan performed within 6 months prior to the surgical procedure. Esophageal varices are engorged collateral veins in the esophagus that bypass a scarred liver to carry portal blood to the superior vena cava. A sustained increase in portal pressure results in esophageal varices that are most frequently demonstrated by direct visualization at esophagoscopy.	Yes; No	NULL = Unknown Classic variable, no longer used
34	HXCHF	Char	Congestive heart failure (CHF) in 30 days before surgery	YES' is entered in patients with congestive heart failure. Congestive heart failure is the inability of the heart to pump a sufficient quantity of blood to meet the metabolic needs of the body or can do so only at increased ventricular filling pressure. Only newly diagnosed CHF within the previous 30 days or a diagnosis of chronic CHF with new signs or symptoms in the 30 days prior to surgery fulfills this definition. Common manifestations are -Abnormal limitation in exercise tolerance due to dyspnea or fatigue -Orthopnea (dyspnea) -Increased jugular venous pressure -Pulmonary rales on physical examination - Cardiomegaly -Pulmonary vascular engorgement. Pulmonary edema Newly diagnosis of chronic CHF with current signs or symptoms in the 30 days prior to the principal operative procedure or at the firm the patient is being considered as a candidate for surgery. Diagnosis in the medical record should be noted as congestive heart failure (CHF). The following updates starts from July 2014: Patents with documentation which indicates that pulmonary dema is not an exacerbation of CHF world not be assigned. Notes: Okmom CHF marifestations may include: • Abnormal limitation in exercise tolerance due to dyspnea or fatigue • Orthopnea (dyspnea when lying supine) • Paroxysmal noctumal dyspnea (VIX) • Paroxysmal noctumal dyspnea (VIX) • Abnormal limitation in exercise tolerance due to dyspnea or fatigue • Orthopnea (dyspnea when lying supine) • Paroxysmal noctumal dyspnea (VIX) • Automation vities as a candidate for subspace) • Increased jugular venous pressure (JVP) • Pulmonary rales on physical examination • Cardiomegaly • Pulmonary vascular engorgement • Pulmonary vascular engorgement • Pulmonary edema in the setting of chronic CHF	Yes: No	NULL = Unknown Definition revised or clarified in 2014
35	HXMI	Char	History of myocardial infarction 6 mos prior to surgery	"Yes" is entered for patients with a history of a non-Q wave or a Q wave infarct in the six months prior to surgery as diagnosed in the patient's medical record.	Yes; No	Classic variable, no longer used
36	PRVPCI	Char	Previous PCI	"YES" is entered for patient who have undergone percutaneous coronary intervention (PCI) at any time (including any attempted PCI). This includes either balloon dilatation or stent placement. This does not include valvuloplasty procedures.	Yes; No	NULL = Unknown Classic variable, no longer used
37	PRVPCS	Char	Previous cardiac surgery	YES' is entered if the patient has had any major cardiac surgical procedures (performed either as an 'off-pump' repair or utilizing cardiopulmonary bypass). This includes coronary artery bypass graft surgery, valve replacement or repair, repair of atrial or ventricular septal defects, great thoracic vessel repair, cardiac transplant, left ventricular aneurysmectomy, insertion of left ventricular assist devices (LVAD), etc. Not include are pacemaker insertions or automatic implantable cardioverter defibrillator (AICD) insertions.	Yes; No	NULL = Unknown Classic variable, no longer used
38	HXANGINA	Char	History of angina in 1 month before surgery	"YES" is entered if patient reports pain or discomfort between the diaphragm and the mandible resulting from myocardial ischemia. Typically angina is a diuli, diffuse (tris-sized or larger) substemal chest discomfort precipitated by exertion or emotion and relieved by rest or nitroglycerine. Radiation to the arms and shoulders often occurs, and occasionally to the neck, jaw (mandible, not maxilla), or interscapular region. For patients on anti-anginal medications, "YES" is entered only if the patient has had angina at any time within one month prior to surgery.	Yes; No	NULL = Unknown Classic variable, no longer used
39	HYPERMED	Char	Hypertension requiring medication	Hypertension (HTN) is the term used to describe high blood pressure. Blood pressure is a measurement of the force against the walls of your arteries as your heart pumps blood through your body. High blood pressure (hypertension) is when your blood pressure is 140/90 mmHg or above most of the time." The diagnosis of HTN must be documented in the patient's medical record and the condition is severe enough that it requires antihypertensive medication, within 30 days prior to the principal operative procedure or at the time the patient is being considered as a candidate for surgery. The patient must have been receiving or required long-term treatment of their chronic hypertension for > 2 weeks.	Yes; No	NULL = Unknown Definition revised or clarified in July 2013

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
40	HXPVD	Char	History of revascularization/amputation for periph. vascular disease	"YES" is entered for a patient with any type of angioplasty (including stent placement) or revascularization procedure for atheroscierotic peripheral vascular disease (PVD) (e.g., aotta-femoral, femoral-femoral, femoral-popliteal) or a patient who has had any type of amputation procedure for PVD (e.g., toe amputations, transmetatarsal amputations, below the knee or above the knee amputations. Patients who have had amputation for trauma or a resection of abdominal aortic aneurysms should not be included.	Yes; No	NULL = Unknown Classic variable, no longer used
41	RESTPAIN	Char	Rest pain/gangrene	"YES" is entered for a patient with rest pain or Gangrene. Rest pain is a more severe form of ischemic pain due to occlusive disease, which occurs at rest and is manifested as a severe, unrelenting pain aggravated by elevation and often preventing sleep. Gangrene is a marked skin discoloration and disruption indicative of death and decay of tissues in the extremities due to severe and prolonged ischemia. Patients included with ischemic ulceration and/or tissue loss related to peripheral vascular disease. Fournier's gangrene are not included.	Yes; No	NULL = Unknown Classic variable, no longer used
42	RENAFAIL	Char	Acute renal failure (pre-op)	A clinical condition associated with rapid decline of kidney function. The intent of this variable is to capture the situation where the patient's renal function has demonstrated compromise within 24 hours prior to surgery. Patient must meet ONE of the following scenarios (A or B) within 24 hours prior to the principal operative procedure: A. An increase in BUN based on two measurements and two creatinine (Cr) results above 3mg/dl. There must be at minimum two measurements per lab value, the most recent of which must be within 24 hours prior to the start of the principal operative procedure; B. The surgeon or attending physician has documented Acute Renal Failure in the medical record and the patient demonstrates ONE of the following: 1) An increase in BUN based on two starts of the principal operative procedure; the second must be within 90 days of the principal operative procedure. 2) Two creatinine results above 3mg/dl, which must be within 24 hours prior to the start of the principal operative procedure; the second must be within 90 days of the principal operative procedure; the second must be within 90 days of the principal operative procedure; the second must be within 90 days of the principal operative procedure; the second must be within 90 days of the principal operative procedure and one creatinine above 3mg/dl, which must be within 24 hours prior to the start of the principal operative procedure. 2) Two creatinine results above 3mg/dl, the most recent of which must be within 24 hours prior to the start of the principal operative procedure. 30 hour or the start of the principal operative procedure. 40 hours prior to the start of the principal operative procedure. 40 hours prior to the start of the principal operative procedure. 40 hours prior to the start of the principal operative procedure. 40 hours prior to the start of the principal operative procedure.	Yes; No	NULL = Unknown Definition revised or clarified in 2013
43	DIALYSIS	Char	Currently on dialysis (pre-op)	"YES" is entered if the patient has acute or chronic renal failure requiring treatment with peritoneal dialysis, hemodialysis, hemofilitation, hemodiafiltration, or uthrafitation within 2 weeks prot to the principal operative procedure. The medical record must document that such a treat was indicated.	Yes; No	NULL = Unknown
44	IMPSENS	Char	Impaired sensorium	"YES" is entered if patient is acutely confused and/or delirious and responds to verbal and/or mild tactile stimulation. Patients is noted to have developed an impaired sensorium if they have mental status changes, and/or delirium in the context of the current illness. Patients with chronic or long-standing mental status changes secondary to chronic mental illness (e.g., schizophrenia) or chronic dementing illnesses (e.g., multi-infarct dementia, senile dementia of the Alzheimer's type) are not included. This assessment of the patient's mental status is within 48 hours prior to the surgical procedure. Example: A patient is admitted to the orthopedics service after a fall with a fractured hip. The patient is also noted to be dehydrated and febrile. He is disoriented to place and time and seems confused. His family reports that he has been oriented and alert prior to the fall. This patient has an impaired sensorium on the basis of his confusion and disorientation.	Yes; No	NULL = Unknown Classic variable, no longer used
45	СОМА	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	NULL = Unknown Classic variable, no longer used
46	немі	Char	Hemiplegia	"YES" is entered if patient has sustained acute or chronic neuromuscular injury resulting in total or partial paralysis or paresis (weakness) of one side of the body. "YES" is entered if the patient has hemiplegia/hemiparesis (that has not recovered or been rehabilitated) upon arrival to the OR. "YES" is entered, if there is hemiplegia or hemiparesis associated with a CVA/Stroke also.	Yes; No	NULL = Unknown Classic variable, no longer used
47	HXTIA	Char	History of transient ischemic attacks (TIA)	"YES" is entered if patient has transient ischemic attacks (TIAs). TIAs are focal neurologic deficits (e.g. numbness of an arm or amaurosis fugax) of sudden onset and brief duration (usually <30 minutes) that usually reflects dysfunction in a cerebral vascular distribution. These attacks may be recurrent and, at times, may precede a stroke.	Yes; No	NULL = Unknown Classic variable, no longer used

Position #	Variable Name	Data	Variable Label	Variable Definition	Variable Options at Entry	Comments
		Туре				
48	CVA	Char	CVA/Stroke with 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). If the neurological deficit is hemiplegia/hemiparesis, 'YES' is entered to Hemiplegia/Hemiparesis in addition to CVA/Stroke.	Yes; No	NULL = Unknown Classic variable, no longer used
49	CVANO	Char	CVA/Stroke with no neurological deficit	"YES" is entered if the patient has a history of a cerebrovascular accident (embolic, thrombotic, or hemorrhagic), but no current residual neurologic dysfunction or deficit.	Yes; No	NULL = Unknown Definition revised or clarified in 2010 Classic variable, no longer used
50	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., meniptiomas, ependymoma, oligodendroglioma) or primary (e.g., astrocytoma, gliona, glioblastoma multiform) or secondary malignancies (e.g., metastatic lung, breast, malignant meianoma). Other tumors that may involve the CNS include lymphomas and sarcomas. "YES" is entered even if the tumor was not treated.	Yes; No	NULL = Unknown Classic variable, no longer used
51	Para	Char	Paraplegia	"YES" is entered if the patient has sustained acute or chronic neuromuscular injury resulting in total or partial paralysis or paresis (weakness) of the lower extremities.	Yes; No	NULL = Unknown Classic variable, no longer used
52	QUAD	Char	Quadriplegia	"YES" is entered if the patient has sustained acute or chronic neuromuscular injury resulting in total or partial paralysis or paresis (weakness) of all four extremities.	Yes; No	NULL = Unknown Classic variable, no longer used
53	DISCANCR	Char	Disseminated cancer	YEST is entered for patients who have a primary cancer that has metastasized or disseminated to a major organ AND the patient also mets AT LEAST ONE of the following criteria: The patient has received active treatment for the cancer within one year of their ACS NSOIP assessed procedure surgery date. If the ACS NSOIP assessed surgical procedure is the treatment for the metastatic cancer, assign disseminated cancer to the case. The extent of disease is first appreciated at the time of the surgical procedure is question. The patient has elected not to receive treatment for the metastatic disease is first appreciated at the time of the surgical procedure in question. The patient has elected not to receive treatment for the metastatic disease, but such treatment was indicated. The patient's metastatic cancer has been deemed untreatable. Information is obtained within 30 days following the principal operative procedure indicating disseminated cancer was present at the time of the principal operative procedure. The following are reported as Disseminated Cancer.Acute Lymphocytic Leukemia (ALL), Acute Myelogenous Leukemia (AML), and Stage IV Lymphoma A patient with primary breast cancer with positive nodes in the axilla, liver metastases and is also receiving chemotherapy at the time of the assessed ACS NSQIP surgical procedure: A patient with procedure the issessed procedure: A patient with preoperative Stage III colon cancer with liver metastasis and/or pertineal seeding with tumor, who received their last dose of chemotherapy and radiation therapy 2 months prior to their ACS NSQIP assessed to the surrounding organs: A patient with a history of Stage IV Lymphoma who received their second round of chemotherapy and radiation therapy, but also surgery and hormone therapy. Patient undergoes mastectomy for breast cancer and a CT on postop day 22 reveals a metastatic lesion on the liver.	Yes: No	NULL = Unknown Definition revised or clarified in 2014
54	WNDINF	Char	Open wound/wound infection	Preoperative evidence of a documented open wound at the time of the principal operative procedure. An open wound is a breach in the integrity of the skin or separation of skin edges and includes open surgical wounds, with or without celluitis or purulent exudate. This does not include osteomyelitis or localized abscesses. Assign Yes to: Open drains should be considered an open wound: (e.g. Penrose drains) - Open wounds currently undergoing dressing changes or with negative pressure wound devices (e.g., wound vacs) - Any abnormal passageway leading from an internal organ (e.g. intestinal tract) to the surface of the body / skin. (e.g. enterocutaneous fistula [ECF]) Assign No to: - An stormy would not be considered an open wound - A scabbed over wound with or without drainage - A Cral sores - Any - Cra	Yes; No	NULL = Unknown Definition revised or clarified in 2011

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
55	STEROID	Char	Steroid use for chronic condition	Patient has required the regular administration of oral or parenteral corticosteroid (e.g. Prednisone, Decadron) medications or immunosuppressant medications, within the 30 days prior to the principal operative procedure or at the time the patient is being considered as a candidate for surgery, for a chronic medical condition (e.g. COPD, asthma, rheumatologic disease, rheumatoid arthritis, inflammatory bowel disease). A one-time pulse, limited short course, or a taper of less than 10 days duration would not qualify. Do not include topical corticosteroids applied to the skin or corticosteroids administered by inhalation or rectally. Do not include patients who only receive short course steroids (duration 10 days or less) in the 30 days prior to surgery.	Yes: No	NULL = Unknown Definition revised or clarified in 2011
56	WTLOSS	Char	>10% loss body weight in last 6 months	"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 weights in the chart, as reported by the patient, or as evidenced by change in clothing size or severe cachexia. Patients who have intentionally lost weight as part of a weight reduction program do not qualify.	Yes; No	NULL = Unknown
57	BLEEDDIS	Char	Bleeding disorders	"YES" is entered for patients with any chronic,persistent , active condition that places the patient at risk for excessive bleeding (e.g., vitamin K deficiency, hemophilia, intrombocytopenia, chronic anticoagulation therapy that has not been discontinued prior to surgery). "YES" is entered for patient with Active heparin-induced thrombocytopenia (HIT), and patients who has a past medical history of thrombocytopenia and a low platelet count (below your hospital's normal reference range) at the time of the principal operative procedure . The following cases are not included : Patient on chronic aspirin therapy. Patient on Nonsteroidal Anti-inflammatory Drugs (NSAIDs); When medications are prescribed for prophylactic use, for the principal operative procedure only; Patient with a history of HIT in the past which is not deemed active.	Yes; No	NULL = Unknown Definition revised or clarified in 2014
58	TRANSFUS	Char	Preop Transfusion of >= 1 unit of whole/packed RBCs in 72 hours prior to surgery	Preoperative loss of blood necessitating any transfusion (minimum of 1 unit) of whole blood/packed red cells transfused during the 72 hours prior to surgery start time, including any blood transfused in the emergency room. If greater than 200 units, enter 200 units.	Yes; No	NULL = Unknown
59	CHEMO	Char	Chemotherapy for malignancy in <= 30 days pre-op	TYEST 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 colon, breast, lung, head and neck, and gastrointestinal solid tumors as well as lymphatic and hemotopoietic malignancies such as lymphomas, leukemia, and multiple myeloma. Patient is not included if treatment consists solely of hormonal therapy. Chemotherapy treatment must be for malignancy.	Yes: No	NULL = Unknown Definition revised or clarified in 2010 Classic variable,no longer used
60	RADIO	Char	Radiotherapy for malignancy in last 90 days	"YES" entered if the patient had any radiotherapy treatment for cancer in the 90 days prior to surgery. Count If the patient had radiation seeds implanted and the implantation was within 90 days prior to the operation.	Yes; No	NULL = Unknown Classic variable, no longer used

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
61	PRSEPIS	Char	Systemic Sepsis	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: SIRS (Systemic Inflammatory Response Syndrome): SIRS is a widespread inflammatory response to a variety of severe clinical insuits. This syndrome is clinically recognized by the presence of two or more of the following within the same time frame: Temp >38 degrees C or <36 degrees C HR >90 bpm RR >20 breaths/min or PaCO2 <32 mmHg(<4.3 kPa) WBC >12,000 cell/mm3, <4000 cells/mm3, or >10% immature (band) forms Anion gap acidosis: this is greater than 16, then an anion gap acidosis is present. Na – [CL + HCO3 (or serum CO2]. If this number is greater than 12, then An anion gap acidosis is presernt. "If anion gap lab values are performed at your facilities lab, ascertain which formula is utilized and follow guideline criteria. Sepsis: Sepsis is the systemic response to infection. Report this variable if the patient thas clinical signs and symptoms of SIRS listed above and meets either A or B: One of the following: - Positive blood culture - Clinical documentation of purulence or positive culture from any site for which there is documentation noting the site as the acute case of sepsis. B. Suspected pre-operative clinical condition of infection, or bowel infarction, which leads to the surgical procedure. The findings during the Principal Operative Procedure must confirm this suspected diagnosis with one or more of the following: Confirmed infarcted bowel requiring resection, purulence in the operative site, enteric contents in the operative site, or positive intra-operative septic Shock: Report this variable if the patient has sepsis AND documented organ and/or circulatory dysfunction. Examples of organ dysfunction include: oliguria, acute alteration in mental status, acute respiratory distress. Examples of cinculatory dysfunction include: hypotension, requirement	SIRS; Sepsis; Septic Shock; None	NULL = Unknown Definition revised or clarified in 2011 Definition revised or clarified in 2014
62	Pregnancy	Char	Pregnancy	"YES" entered if pregnant. Pregnancy is determined by one of the following: . Administration of a blood or urine pregnancy test with a positive result. Visualization of the fetus by ultrasound . Indication of fetal heart rate by ultrasound or fetal heart monitoring Pregnancy takes approximately 40 weeks between the time of the last menstrual cycle and delivery.	Yes; No	NULL = Not applicable or not documented because variable was added in July 2006 Classic variable, no longer used
63	PrOper30	Char	Prior Operation within 30 days	"YES" entered if the patient has had any major surgical procedure performed within 30 days prior to the assessed operation that would meet the following NSQIP criteria: Operation was performed utilizing general, spinal, or epidural anesthesia or operation performed included any of the following: carotid endarterectomy, inguinal hernia repair, parathyroidectomy, thyroidectomy, breast lumpectomy, or endovascular AAA repair Operation was not listed on the NSQIP CPT Exclusion list. Also included are any transplant procedures or trauma procedures if performed within 30 days prior to the assessed operation.	Yes; No	NULL = Not applicable or not documented because variable was added in July 2006 Classic variable, no longer used
64	DPRNA	Num	Days from Na Preoperative Labs to	Days from Na Preoperative Labs to Operation		-99 = Lab value not obtained or
65	DPRBUN	Num	Operation Days from BUN Preoperative Labs to	Days from BUN Preoperative Labs to Operation		Unknown -99 = Lab value not obtained or
66	DPRCREAT	Num		Days from Creatinine Preoperative Labs to Operation		Unknown -99 = Lab value not obtained or
67	DPRALBUM	Num	Operation Days from Albumin Preoperative Labs to	Days from Albumin Preoperative Labs to Operation		Unknown -99 = Lab value not obtained or
68	DPRBILI	Num	Operation Days from Bilirubin Preoperative Labs to	Days from Bilirubin Preoperative Labs to Operation		Unknown -99 = Lab value not obtained or
69	DPRSGOT	Num	Operation Days from SGOT Preoperative Labs to	Days from SGOT Preoperative Labs to Operation		Unknown -99 = Lab value not obtained or
70	DPRALKPH	Num	Operation Days from ALKPHOS Preoperative Labs	Days from ALKPHOS Preoperative Labs to Operation		Unknown -99 = Lab value not obtained or
71	DPRWBC	Num	to Operation Days from WBC Preoperative Labs to	Days from WBC Preoperative Labs to Operation		Unknown -99 = Lab value not obtained or
72	DPRHCT	Num	Operation Days from HCT Preoperative Labs to	Days from HCT Preoperative Labs to Operation		Unknown -99 = Lab value not obtained or
73	DPRPLATE	Num	Operation Days from PlateCount Preoperative Labs	Days from PlateCount Preoperative Labs to Operation		Unknown -99 = Lab value not obtained or
74	DPRPTT	Num	to Operation Days from PTT Preoperative Labs to	Days from PTT Preoperative Labs to Operation		-99 = Lab value not obtained or
74	DPRPT	Num	Days from PTT Preoperative Labs to Operation Days from PT Preoperative Labs to	Days from PT Preoperative Labs to Operation		-99 = Lab value not obtained or Unknown -99 = Lab value not obtained or
70			Operation			Unknown
/6	DPRINR	Num	Days from INR Preoperative Labs to Operation	Days from INR Preoperative Labs to Operation		-99 = Lab value not obtained or Unknown
77	PRSODM	Num	Pre-operative serum sodium	Pre-operative serum sodium		-99 = Lab value not obtained or Unknown
78	PRBUN	Num	Pre-operative BUN	Pre-operative BUN		-99 = Lab value not obtained or Unknown

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Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
79	PRCREAT	Num	Pre-operative serum creatinine	Pre-operative serum creatinine		-99 = Lab value not obtained or
80	PRALBUM	Num	Pre-operative serum albumin	Pre-operative serum albumin		Unknown -99 = Lab value not obtained or
81	PRBILI	Num	Pre-operative total bilirubin	Pre-operative total bilirubin		Unknown -99 = Lab value not obtained or
82	PRSGOT	Num	Pre-operative SGOT	Pre-operative SGOT		Unknown -99 = Lab value not obtained or
83	PRALKPH	Num	Pre-operative alkaline phosphatase	Pre-operative alkaline phosphatase		Unknown -99 = Lab value not obtained or
84	PRWBC	Num	Pre-operative WBC	Pre-operative WBC		Unknown -99 = Lab value not obtained or
85	PRHCT	Num	Pre-operative hematocrit	Pre-operative hematocrit		Unknown -99 = Lab value not obtained or
00						Unknown
80	PRPLATE	Num	Pre-operative platelet count	Pre-operative platelet count		-99 = Lab value not obtained or Unknown
87	PRPTT	Num	Pre-operative PTT	Pre-operative PTT		-99 = Lab value not obtained or Unknown
88	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
89	PRPT	Num	Pre-operative PT	Pre-operative PT		-99 = Lab value not obtained or Unknown
90	OTHERPROC1	Char	Other Procedure 1	An additional surgical procedure performed by the same surgical team, under the same anesthetic which has a CPT® code different from that of the Principal Operative Procedure. Report ALL additional procedures/CPT® codes for this OR visit. The followings are not included: Imaging procedures such as x ray or CT scan; Intubation; Central line placement.		NULL = No Procedure Definition revised or clarified in 2014
91	OTHERCPT1	Char	Other CPT Code 1	CPT Code		NULL = No Procedure
92	OTHERWRVU1		Other Work Relative Value Unit 1	Other Work Relative Value Unit 1		-99 = No Procedure/Unknown
93	OTHERPROC2	Char	Other Procedure 2	See 'Other Procedure 1'		NULL = No Procedure
94	OTHERCPT2	Char	Other CPT Code 2 Other Work Relative Value Unit 2	CPT Code Other Work Relative Value Unit 2		NULL = No Procedure
95 96	OTHERWRVU2 OTHERPROC3	Num Char	Other Procedure 3	See 'Other Procedure 1'		-99 = No Procedure/Unknown NULL = No Procedure
97	OTHERCPT3	Char	Other CPT Code 3	CPT Code		NULL = No Procedure
98	OTHERWRVU3	Num	Other Work Relative Value Unit 3	Other Work Relative Value Unit 3		-99 = No Procedure/Unknown
99	OTHERPROC4	Char	Other Procedure 4	See 'Other Procedure 1'		NULL = No Procedure
100	OTHERCPT4	Char	Other CPT Code 4	CPT Code		NULL = No Procedure
101	OTHERWRVU4	Num	Other Work Relative Value Unit 4	Other Work Relative Value Unit 4		-99 = No Procedure/Unknown
102	OTHERPROC5	Char	Other Procedure 5	See 'Other Procedure 1'		NULL = No Procedure
103 104	OTHERCPT5 OTHERWRVU5	Char Num	Other CPT Code 5 Other Work Relative Value Unit 5	CPT Code Other Work Relative Value Unit 5		NULL = No Procedure -99 = No Procedure/Unknown
104	OTHERPROC6	Char	Other Procedure 6	See 'Other Procedure 1'		NULL = No Procedure/Unknown
105	OTHERCPT6	Char	Other CPT Code 6	CPT Code		NULL = No Procedure
107	OTHERWRVU6	Num	Other Work Relative Value Unit 6	Other Work Relative Value Unit 6		-99 = No Procedure/Unknown
108	OTHERPROC7	Char	Other Procedure 7	See 'Other Procedure 1'		NULL = No Procedure
109	OTHERCPT7	Char	Other CPT Code 7	CPT Code		NULL = No Procedure
110	OTHERWRVU7	Num	Other Work Relative Value Unit 7	Other Work Relative Value Unit 7		-99 = No Procedure/Unknown
111	OTHERPROC8	Char	Other Procedure 8	See 'Other Procedure 1'		NULL = No Procedure
112	OTHERCPT8 OTHERWRVU8	Char	Other CPT Code 8	CPT Code		NULL = No Procedure
113 114	OTHERPROC9	Num Char	Other Work Relative Value Unit 8 Other Procedure 9	Other Work Relative Value Unit 8 See 'Other Procedure 1'		-99 = No Procedure/Unknown NULL = No Procedure
115	OTHERCPT9	Char	Other CPT Code 9	CPT Code		NULL = No Procedure
116	OTHERWRVU9	Num	Other Work Relative Value Unit 9	Other Work Relative Value Unit 9		-99 = No Procedure/Unknown
117	OTHERPROC10	Char	Other Procedure 10	See 'Other Procedure 1'		NULL = No Procedure
118	OTHERCPT10	Char	Other CPT Code 10	CPT Code		NULL = No Procedure
119	OTHERWRVU10	Num	Other Work Relative Value Unit 10	Other Work Relative Value Unit 10		-99 = No Procedure/Unknown
120	CONCURRI	Char	Concurrent Procedure 1	An additional operative procedure performed by a different surgical team or surgeon (e.g., under direction of a different surgical attending) and under the same anesthetic which have CPT codes different from that of the Principal Operative Procedure (for example, Coronary Artery Bypass Graft procedure on a patient who is also undergoing a Carold Endarterectomy). "Certain CPT codes can be billed for a patient more than one time reflecting repeated performance of a particular procedure. In such cases the codes could be considered different. The followings are not included.Imaging procedures such as x ray or CT scan; Intubation; Central line placement		NULL = No Procedure Definition revised or clarified in 2011
121	CONCPT1	Char	Concurrent CPT 1	Concurrent CPT 2		NULL = No Procedure
122	CONWRVU1	Num	Concurrent Work Relative Value Unit 1	Concurrent Work Relative Value Unit 2		-99 = No Procedure/Unknown
123	CONCURR2	Char	Concurrent Procedure 2	Concurrent Procedure 3		NULL = No Procedure
124	CONCPT2	Char	Concurrent CPT 2	Concurrent CPT 3		NULL = No Procedure
125 126	CONWRVU2 CONCURR3	Num Char	Concurrent Work Relative Value Unit 2 Concurrent Procedure 3	Concurrent Work Relative Value Unit 3 Concurrent Procedure 4		-99 = No Procedure/Unknown NULL = No Procedure
126	CONCURR3 CONCPT3	Char Char	Concurrent Procedure 3 Concurrent CPT 3	Concurrent Procedure 4 Concurrent CPT 4	+	NULL = No Procedure NULL = No Procedure
127	CONWRVU3	Num	Concurrent Work Relative Value Unit 3	Concurrent Work Relative Value Unit 4		-99 = No Procedure/Unknown
129	CONCURR4	Char	Concurrent Procedure 4	Concurrent Procedure 5		NULL = No Procedure
130	CONCPT4	Char	Concurrent CPT 4	Concurrent CPT 5		NULL = No Procedure
131	CONWRVU4	Num	Concurrent Work Relative Value Unit 4	Concurrent Work Relative Value Unit 5		-99 = No Procedure/Unknown
132 133	CONCURR5 CONCPT5	Char	Concurrent Procedure 5	Concurrent Procedure 6		NULL = No Procedure NULL = No Procedure
133	CONCPT5 CONWRVU5	Char Num	Concurrent CPT 5 Concurrent Work Relative Value Unit 5	Concurrent CPT 6 Concurrent Work Relative Value Unit 6	1	-99 = No Procedure -99 = No Procedure/Unknown
104	COMMRVUS	NUM	Concurrent work Relative value Unit 5	Concurrent work Relative value Unit 6		-99 - NO Procedure/Unknown

Position #	Variable Name	Data	Variable Label	Variable Definition	Variable Options at Entry	Comments
		Туре				
	CONCURR6	Char	Concurrent Procedure 6	Concurrent Procedure 7		NULL = No Procedure
136	CONCPT6	Char	Concurrent CPT 6	Concurrent CPT 7		NULL = No Procedure
137	CONWRVU6	Num	Concurrent Work Relative Value Unit 6	Concurrent Work Relative Value Unit 7		-99 = No Procedure/Unknown
	CONCURR7	Char	Concurrent Procedure 7	Concurrent Procedure 8		NULL = No Procedure
	CONCPT7	Char	Concurrent CPT 7	Concurrent CPT 8		NULL = No Procedure
	CONWRVU7	Num	Concurrent Work Relative Value Unit 7	Concurrent Work Relative Value Unit 8		-99 = No Procedure/Unknown
	CONCURR8	Char	Concurrent Procedure 8	Concurrent Procedure 9		NULL = No Procedure
	CONCPT8	Char	Concurrent CPT 8	Concurrent CPT 9		NULL = No Procedure
	CONWRVU8	Num	Concurrent Work Relative Value Unit 8	Concurrent Work Relative Value Unit 9		-99 = No Procedure/Unknown
	CONCURR9	Char	Concurrent Procedure 9	Concurrent Procedure 10		NULL = No Procedure
	CONCPT9	Char	Concurrent CPT 9	Concurrent CPT 10		NULL = No Procedure
	CONWRVU9	Num	Concurrent Work Relative Value Unit 9	Concurrent Work Relative Value Unit 10		-99 = No Procedure/Unknown
	CONCURR10	Char	Concurrent Procedure 10	Concurrent Procedure 11		NULL = No Procedure
	CONCPT10	Char	Concurrent CPT 10	Concurrent CPT 11		NULL = No Procedure
149	CONWRVU10	Num	Concurrent Work Relative Value Unit 10	Concurrent Work Relative Value Unit 11		-99 = No Procedure/Unknown
150	OPNOTE	Char	Surgeon who dictated the operative note.	Surgeon who dictated the operative note.	Attending	Historical variable, no longer used
					Resident	
					Not Available	
151	PGY	Num	Highest Level of Resident Surgeon	Report the highest Post-Graduate Year (PGY) of the resident(s) who scrubbed for the surgical procedure. Choose from 1 – 10. Enter '0' if there is no resident	0-10	-99 = Unknown Classic variable, no longer used
				scrubbed on the surgical procedure.		
152	EMERGNCY	Char	Emergency case	Emergency Case: An emergency case is usually performed within a short interval of time between patient diagnosis or the onset of related preoperative symptomatology. It is implied that the patient's well-being and outcome is potentially threatened by unnecessary delay and the patient's status could deteriorate unpredictably or rapidly. The NSOIP Principal Operative Procedure must be performed during the hospital admission for the diagnosis. Patients who are discharged after diagnosis and return for an elective, semi-elective, or urgent procedure related to the diagnosis would not be considered to have had an emergent case. The intent is to identify a patient population with heightened surgical risk due to an ongoing acute process that is currently having a negative impact on the patients' health and for which continued, potentially rapid deterioration could occur. The increased risk might be partly due to the fact that the procedure velated to cases and rue emergent surgeries. Urgent/semi- elective/elective/elective cases and rue emergent surgeries. Urgent/semi- elective cases are not considered to have surgeries. Jrgent/semi- elective cases are not considered emergencies. Assign "YES' if the surgeon and/or anesthesiologist report the case as emergent.		NULL = Unknown Definition revised or clarified in 2011

153 WNDCLAS Char Wound classification I-Clean 2-CleanContaminated Decourse procedure bring performed. Wound class is not assigned based on an 'other' or 'CleanContaminated' classified the wound as: (1) Clean: An unpricedure private wound in which no infinite wound as: (1) Clean: An unpricedure private wound in which no infinite the wound as: (1) Clean: An unpricedure private wound in which no uninficide uninary track is not entered. In addition, clean wounds are primarily clobed and; if neary and infinite the criteria. Examples of 'Clean' Contaminated' 4-DirtyInfinited' classified the criteria. Examples of 'Clean' Clean's are intered on the criteria. Examples of 'Clean's classification' wounds that for or knew replacement, total hyp replacements for assocution of the wound. Note: Placement for any drait at the time of surgery does not charge the classification or the wound. I unprivate are entered under controlled continuated': an operative wound in which the respiratory, simentary, genila, or unprivate are entered under controlled continuated: an operative wound in which the respiratory, wascular bypass graft. exploratory itservices are charged under controlled continuated on the wound as include the this category if they meet the bilary tract, appendix, vagina, and oropharyx are included in this category, provided ne vidence of infection or major break in technique is noountered. Examples of Clean' Clean and oropharyx are included in this category, provided ne wounds, inducted, which we have been bilary tract, appendix, vagina, and oropharyx are included in this category. Clean clean and oropharyx are included in this category. Examples of Clean's clean and oropharyx are included in this category. Examples of Clean's clean and oropharyx are included in this category. Examples of Clean's clean bilary break in stelle tetchnique or gross spillage from parateminated cases inc	NULL = Unknown Definition revised or clarified in 2011
 procedurent?procedure. This variable indicates whether the privary surgeon has classified the wound as: (1) Clean: An uninfected operative wound in which no inflammation is encountered and the respiratory, alimentary, geninal, or uninfected uninary tract is not entered. In addition, clean wounds are primarily closed and, if necessary, drianed with closed drianaye. Operative incisional wounds that follow nonpenetrating (blunt) trauma should be included in this category if they meet the criteria. <i>Examples of Clean Contaminated and is a clean examples of Clean Contaminated and any clean at the time of surgery of a des not change the clean cl</i>	revised or clarified in 2011
Concurrent procedure. In six virtuable indicates whether the primary surgeon has 3-Contaminated classified the would as: (1) Clean: An unified operative would in which on inflammation is encountered and the respiratory, alimentary, gental, or unifieted unified 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 matectomy, vacuular bypass graft, exploratory lapartomy, hemia repair, thyroridotecomy, total hip or knee replacement, total hip replacements for avascular necess; removal of virth arrows without evidence of infection. 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, gential, or urinary tracts are entered under controlide conditions and without unusual contamination. Specifically, operations involving the biling' necessary, provided no evidence of infection or major break in technique is encountered. Examples of 'Clean/Contaminated': a septical, vagina, and oropharynx are includeed in this category, coloctomy, colostomy reversals, row-en-Y, layngectomy, small bow lreaction, transurtain lay section, transurtain lay esciencito, and surfail resection of the prostate, Whipple pancerescion, transuretimal resection, the prostate, withing the esse include appendectomy for biling transition operations involving level biling reversals in stellie technique is encludeed in this category. Examples of 'Clean', contaminated': and prostomy, small bow lreaction, constrating resection, transureting reversals, instellie technique or gross spillage from the gastrointestinal tract, and incisions in which acute, nonpurvlent inflammation is encountered induced withing are encluded in this category. Examples of 'Clean', contaminated' contaminated' category. Examples of 'Clean', contaminated' category. Examples of 'Clean', contaminat	
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 which the respiratory, alimentary, genital, or urinary tracts are entered under controlled conditions and without nusual 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. <i>Examples of 'Clean/Contaminated' cases include cholecystectomy, colectomy, colostomy reversals, roux-en-Y, laryngectomy, small bowel resection, transumerthar leversals, roux-en-Y, laryngectomy, small bowel resection, transumerthar leversals, roux-en-Y, laryngectomy, small bowel resection, transumerthar leversals, roux-en-Y, laryngectomy, small bowel resection, and including neorate (bild) and using set 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 drianage (e.g., dvg angrene) are included in this category. <i>Examples of 'Contaminated' cases include appendicits, bile spillage during cholecystectomy, or open cardiae message. Open surgical wounds returning to the OR. Examples of major break in sterile technique include but are not limited to non-sterile equipment or debris found in the operative field.</i></i> (4) DirtyInfected: Old traumatic wounds with retained devitalized tissue and those that involve existing clinical infection or perforated viscera. This definition suggests that the organisms causing postpoerative infection were resent in the 	
 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. <i>Examples of 'Clean/Contaminated' cases include cholecystectomy, colostortomy, colostormy, colostoreny, colostormy, colostormy, colostormy, colostormy, colostor</i>	
 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, transurthral resection of the prostate, Whipple pancreaticoduodenectomy. (a) 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 necroit tissue without evidence of purulent drianage (e.g. dvg angrene) are included in this category. Examples of "Contaminated" cases include appendicits, bile spillege during cholecystectomy open cardiac massage. Open surgical wounds returning to the OR. Examples of major breaks in sterile technique include but are not limited to non-sterile equipment or debris found in the operative field. (4) DirtyInfected: Old traumatic wounds with retained devitalized tissue and those that involve existing clinical infection or perforated viscers. This definition suggests that the organesisms causing postoperative infection were present in the 	
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those that involve existing clinical infection or perforated viscera. This definition suggests that the organisms causing postoperative infection were present in the	
suggests that the organisms causing postoperative infection were present in the	
operative neid before the operation. Examples of Dirty/miceted cases include	
excision and drainage of abscess, perforated bowel, peritonitis, ruptured	
appendix. Wound Class for	
Non-Skin Incision Surgeries (Natural Orifice): assign the wound classification	
based on which orifice was entered. Example: appendectomy performed via the	
vagina would, at minimum, be a clean/contaminated wound class.	
Multiple surgical procedures performed with different incision sites = Assign	
wound classification based on the Principal Operative Procedure being	
reviewed in NSQIP.	
Revision: January 1, 2012 ACS 4-24 NSQIP	
Example:	
Principal Operative Procedure: Carotid Endarterectomy (clean) Other	
Procedure: I & D of an infected right big toe (dirty/infected). The wound class	
assigned to this case would be clean.	
Multiple surgical procedures performed through one incision (same operative	
space) = Assign wound classification based on the assessment of the overall	
operative space.	
Example:	
Principal Operative Procedure: Lysis of adhesions (clean) Other Procedure:	
cholecystectomy with gross bile spillage (contaminated). The wound class	
would be contaminated, as the spillage is in the same operative space as the	
Principal Operative Procedure.	
154 ASACLAS Char ASA classification The American Society of Anesthesiology (ASA) Physical Status Classification of 1 - No Disturb	NULL= Unknown
124 ASACAS Cial ASA dassilication in the Anterna Society of Antesinestoday (ASA) Physical Social Social Social Social International International Control	
anesthesia record. The classifications are as follows: ASA 1 +Aormal healthy 3 -Severe Disturb	
allestresal erectorus inte classificationa so intervisione so	I
paterin KOA 2 - ration with imme systemic useess ASA 3 - ration with severe by the filled systemic disease ASA 4 - Patient with severe systemic disease ASA 5 - a distance of the filled of the fille	I
systemic usease ASA 4 - Fauent win severe systemic usease units a 5 - worlduind constant threat to life ASA 5 - Monibud patient who is not expected to survive None assigned	
without the operation.	
155 AIRTRA Char Airway trauma The code corresponding to trauma resulting from the endotracheal intubation None	Historical variable, no longer used
process is entered. Lip laceration or hematom	na
Tooth chipped, loosened of	
Tongue laceration or hem	
Pharyngeal laceration	
Laryngeal laceration	
Failure to intubate	

Position #	Variable Name	Dete	Variable Label	Mariakia Definitian	Veriekie Ontiene et Entre	O a manufacture de la constante
Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
156	MALLAMP	Num	Mallampati scale	The Mallampati classification relates tongue size to pharyngeal size. This test is performed with the patient in sitting position, the head held in a neutral position, the mouth wide open, and the tongue protruding to the maximum. The subsequent classification is assigned based upon the pharyngeal structures that are visible: Class I – visualization of the soft palate, fauces, uvula, and anterior and posterior pillars. Class II – visualization of the soft palate, fauces, and uvula. Class II – visualization of the soft palate, fauces, Class IV – soft palate is not visible at all.	1; 2; 3; 4	Historical variable, no longer used
157	MORTPROB	Num	Estimated Probability of Mortality	Probability of mortality is developed for general and vascular surgical cases based on a logistic regression analysis using the patient's preopearlive characteristics as the independent or predictive variables. Only general and vascular cases used in the logistic regression analysis will have the associated probabilities of mortality.		System missing = case was not included in the logistic regression analysis
158	MORBPROB	Num	Estimated Probability of Morbidity	Probability of morbidity is developed for general and vascular surgical cases based on a logistic regresion analysis using the patient's preopeartive characteristics as the independent or predictive variables. Only the general and vascular cases used in the logistic regression analysis will have the associated probabilities of morbidity.		System missing = case was not included in the logistic regression analysis
159	RBC	Num	Number of RBC units given intraoperative	The number of packed or whole red blood cells given during the operative procedure as it appears on the anesthesia record. The amount of blood reinfused from the cell saver is also noted. For a cell saver, every 500 cc's of fluid will equal 1 unit of packed cells. If there is less than 250 cc of fluid, 0 is entered.		Historical variable, no longer used
160	ANESURG	Num	Duration from Anesthsia start to Surgery start	Duration from Anesthsia start to Surgery start in minutes		-99 = Unknown classic variable, no longer used
161	SURGANE	Num	Duration from Surgery stop to Anesthia Stop	Duration from Surgery stop to Anesthia Stop in minutes		
162	DPATRM	Num	Duration patient is in Room	Duration patient is in Room in minutes		-99 = Unknown
163	ANETIME	Num	Duration of Anesthesia	Duration of Anesthesia in minutes		-99 = Unknown Classic variable, no longer used
164	OPTIME	Num	Total operation time	Total operation time in minutes		-99 = Unknown
165	TYPEINTOC	Char	Type of Intraoperative Occurrence	Total operation in minutes One of the three following intraoperative occurrences can be selected. Cardiac Arrest Requiring CPR is defined as the absence of cardiac rhythm or presence of chaotic cardiac rhythm that results in loss of consciousness requiring the initiation of any component of basic and/or advanced cardiac life support.	Cardiac Arrest Requiring CPR Myocardial Infarction	NULL = None of the three occurred Classic variable, no longer used
				Initiation of any component of basic and/or advanced cardiac ine support. Patients with automatic implantable cardioverter defibrillator that fire but the patient has no loss of consciousness should be excluded. Myocardial infarction is defined as a new transmural acute myocardial infarction occurring during surgery as manifested by nnew Q-waves on ECG. Unplanned Intubation for Respirator/Cardiac Failure is defined as a patient requiring placement of an endotracheal tube, etc] and ventilator support which was not intended or planned.	Unplanned Intubation	
166	SDISDT	Num	Year discharged/transferred from surgical service	Year discharged/transferred from surgical service		Historical variable, no longer used
167	HDISDT	Num	Hospital discharge Year	Hospital discharge Year		-99 = Unknown
168	YRDEATH	Num	Year of death	Year of death		-99 = Patient alive at 30 days Notes: include death >30days of procedure
169	TOTHLOS	Num	Length of total hospital stay	Length of total hospital stay		
170 171	AdmQtr	Num	Quarter of Admission	Quarter of Admission	1; 2; 3; 4	-99 = Unknown -99 = Unknown
	HtoODay	Num	Days from Hospital Admission to Operation	Days from Hospital Admission to Operation		
172	StoODay	Num	Days from Surgical Admission to Operation	Days from Surgical Admission to Operation		Historical variable, no longer used
173	TOTSLOS	Num	Length of total surgical stay	Length of total surgical stay		Classic variable, no longer used
174	NSUPINFEC	Num	Number of Wound Occurrences	Number of Superficial Wound Occurrences		

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
175	SUPINFEC	Char	Superficial surgical site infection	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 incisionAt 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-negative or the physician documented NO infection and does not further treat the patientDiagnosis 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 wond Incisional SSI bat extends into the fascial and muscle layers (see deep incisional SSI). Diagnosis of superficial vaginitis after vaginal surgery.Diagnosis of superficial oral thrush after oral surgery. Notes: -See SSI Guidance Table for additional informationOnly SSIs at the incision site of the principal operative procedure should be assessed. Incision sites for 'other' or 'concurrent' procedures, if they are in distinctly different anatomical sites should not be assessed. Ithere is question as to whether or not an incision site was an integral portion of the principal operative procedure can have more than one incision · Criteria will be assigned when modifying terms such as "possible", "probable", "evolving", "highly suspicious" or 'suggestrive' are used to describe an infection, in conjunction with otherwise meeting criteria Can be assigned multiple times within the 30 day postop period each time criteria is met (reference the chart above): A Gram Stain result is not considered a culture and cannot be utilized as criterion to assign this po	No Complication; Superficial Incisional SSI	Definition revised or clarified in 2014
176	SSSIPATOS	Char	Superficial Incisional SSI PATOS	Evidence/suspicion of an active superficial infection (e.g., skin / subcutaneous) noted at the time the patient enters the OR or intraoperatively for the principal operative procedure. The case must meet the following criteria, A AND B below.A. Superficial Incisional SSI is assigned as a postoperative occurrence AND B. Evidence or suspicion of a superficial infection found at the intended surgical site. This must be noted preoperatively or found intraoperatively at the surgical site. This must be noted preoperatively or found intraoperatively at the surgical site and must be noted preoperatively or found intraoperatively at the surgical site and must be noted preoperatively conditions (respectively) at the surgical site and must be noted preoperatively at the surgical site and the intended surgical site prior to incision. "No" is entered if a superficial SSI has not been assigned as a postop occurrence. Notes: If a Superficial Incisional SSI is assigned as a postoperative occurrence - only Superficial Incisional SSI can be assigned if the patient meets criteria for Superficial Incisional PATOS (Cannot assign Deep Incisional or Organ/Space PATOS unless the corresponding postoperative occurrence is assigned] - PATOS criteria are frequently less stringent than criteria for a preoperative risk factor or postoperative occurrence despite the fact that criteria for a preoperative risk factor may not be met.	Yes; No	NULL = No response Variable added in 2011 Definition revised or clarified in 2014
177	DSUPINFEC	Num	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
178	NWNDINFD	Num	Number of Deep Incisional SSI Occurrences	Number of Deep Incisional SSI Occurrences		

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
179	WNDINFD	Char		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 site A 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-negative. An 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. Infection that involves both superficial and deep incision sites is reported as a deep incisional SSI; Diagnosis of vaginitis in association with purulent drainage (i.e. from the cuff) after vaginal surgery is reported as a deep incisional SSI; Diagnosis of vaginitis in association with purulent drainage (i.e. from the cuff) after vaginal surgery is reported as a deep incisional SSI; Diagnosis of pharyngtits in association with purulent drainage after oral surgery is reported as a deep incisional SSI; variable for further clarification regarding superficial vaginitis and pharyngitis are not included. Notes: See SSI Guidance Table for additional information- Only an SSI at the incision sites of the principal operative procedure should only be assessed. Incision sites for "other" or "concurrent" procedures, if they are in distincity different anatomical sites should not be assessed. If there is question as to whether or not an incision site was an integral portion of the principal operative procedure, include this site in your SSI assessment.	Deep Incisional SSI; No Complication	Definition revised or clarified in 2014
180	DSSIPATOS	Char		Evidence/suspicion of an active deep layer infection (e.g., muscle and fascial layers) noted at the time the patient enters the OR or intraoperatively for the principal operative procedure. The case must meet the following criteria:A. Deep Incisional SSI is assigned as a postoperative occurrence AND B. Evidence or suspicion of a deep Infection (e.g., muscle and fascial layers) found at the intended surgical site. This must be noted preoperatively or found intraoperatively at the surgical site. This must be noted preoperatively or found intraoperatively at the surgical site. This must be noted preoperatively or found intraoperatively at the surgical site. This must be noted preoperatively or found intraoperatively at the surgical site. This must be noted preoperatively or found intraoperatively at the surgical site. This must be noted preoperatively or found intraoperatively at the surgical site. This must be noted preoperative procedure with no other evidence of infection.Notes:- If a Deep Incisional SSI is assigned as a postoperative occurrence, then – only Deep Incisional SSI PATOS (Cannot assign Superficial or Organ/Space PATOS (unless there is an organ/space infection draining through the incision which is assigned as a Deep Incisional SSI)] - PATOS criteria are frequently less stringent than criteria for a preoperative risk factor or postoperative occurrence despite the fact that criteria for a preoperative risk factor may not be met. - In instances where criteria for deep SSI was met due to an intraoperative event (e.g. latrogenic injury) PATOS would not be assigned	Yes; No	NULL = No response Variable added in 2011 Definition revised or clarified in 2014
181	DWNDINFD	Num	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
182	NORGSPCSSI	Num	Number of Organ/Space SSI Occurrences	Number of Organ/Space SSI Occurrences		

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
183	ORGSPCSSI	Type 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/spaceOrganisms isolated from an aseptically obtained culture of fluid or tissue in the organ/space. An abscess or other evidence of infection involving the organ/space that is found on direct examination, during reoperation, or by histopathologic or radiologic examination. Joingonsis of an organ/space SIS by a surgen or attending physician. The followings are considered organ/space SSI: Anastomotic leaks involving the GU tract which involve evidence of an active infection or leak is culture positive). Jinjury to intestine (e.g. enterotomy, latrogenic injury) which results in a postoperative leak of enteric contents; mastomotic leaks involving the ont considered as O/S SSI: Fistulas alone, unless they drains through the incision as a deep incisional SSI; Fistulas alone, unless they avaculature (e.g. lower extremity bypass), unless one of the 4 criteria above is met; Anastomotic leaks involving the GU tract, which does not meet criteria above; C diff in solation. Notes: Only SSIs at the incision site of the principal operative procedure should be assessed. Incision sites for 'other' or 'oconcurref' procedures that are in distinctly different anatomical sites should not be assessed. If there is question as to whether or not an incision site was an integral portion of the principal operative procedure; then include this site in your SI assessment. Criteria will be assigned when modifying terms such as possible', probable', evolving', 'highly suspicious' or 'suggestive' are used to describe an infection, in conjunction with otherwise meeting criteria. • Can be assigned multiple times wit	Organ/Space SSI; No Complication	Definition revised or clarified in 2014
184	OSSIPATOS	Char	Organ/Space SSI PATOS	Evidence/suspicion of an active organ/space infection noted at the time the patient enters the OR or intraoperatively for the principal operative procedure. The case must meet the following ortenia A. Organ/space SSI is assigned as a postoperative occurrence AND B. Evidence or suspicion of an abscess or other infection involving the organ or space mainpulated during the operation. This must be noted preoperatively or found intraoperatively in the surgical space. The followings are not reported as O/S SSI PATOS: Organ/Space SSI has not been assigned as a postop occurrence: Enterotomies or latrogenic injuries that occur during the principal operative procedure with no other evidence of infection. Notes: If an Organ/Space SSI is assigned as a postoperative occurrence—only Organ/Space SSI PATOS (Cannot assign Superficial or Deep PATOS) Exception: If an Organ/Space SSI that drains through the incision is assigned as a deep incisional SSI, PATOS can be assigned if the patient meets criteria for Organ/Space SSI PATOS. PATOS criteria are frequently less stringent than criteria for a preoperative risk factor or postoperative occurrence. This means at times PATOS can be assigned to a postoperative occurrence despite the fact that criteria for a preoperative risk factor may not be met. • In instances where criteria for Organ/Space SSI was met due to an intraoperative event (e.g. enterotomy, latrogenic injury) PATOS would not be assigned	Yes; No	NULL = No response Variable added in 2011 Definition revised or clarified in 2014
185			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
186			Number of Wound Disruption Occurrences			
187	DEHIS	Char	Occurrences Wound Disrupt	The spontaneous reopening of a previously surgically closed wound that occurs within 30 days after the principal operative procedure AND one of the following criteria :A. Abdominal site: refers primarily to loss of the integrity of fascial closure (or whatever closure was performed in the absence of fascial closure) OR B. Other Surgical Sites: there must be a total breakdown of the surgical closure compromising the integrity of the procedure. The followings are considered as wound disruption: Tissue flap coverage where the surgical incisions, which were closed, have lost the integrity of closure; Above the knee amputation wound which spontaneously opens exposing the bone. Patients who has an ostomy with a small separation around it are not included. Notes: Can be assigned multiple times within the 30 day postop period each time criteria is met • If a wound is closed in a subsequent procedure within the 30 day postop	Wound Disruption; No Complication	Definition revised or clarified in 2011 Definition revised or clarified in 2014

His Deskins Num Days the Department of Memory and Department of Memory a	Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
Image: Notice of Metalensing Description Image: Notice Description <thimage: description<="" notice="" th=""> Image: Notice Descripti</thimage:>	188	DDEHIS			Days from Operation until Wound Disruption Complication		-99 = Patient did not experience this
ND OURSELNO Other Enter "the "file address the presentation in our difference in the our difference in				Disruption Complication			
Image: Second	189	NOUPNEUMO	Num	Number of Pneumonia Occurrences	Number of Pneumonia Occurrences		
OR or intraoperatively for the principal operative procedure. The case must meet the following criteria. P. Pneumonia is assigned as a postoperative occurrence AND B. Preperative data are highly suggestive or suspicious of pneumonia. The followings are included: Preoperative data are highly suggestive or suspicious of pneumonia on the day of surgery: Preoperative data re highly suggestive or suspicious of pneumonia on the day of surgery: Preoperative day of surgery: Preoperative days of surgery: Preoperative d			Char		with pneumonia <i>must meet criteria from both</i> <u>Fadiology</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 Note: In patients with underlying pulmonary or cardiac disease (e.g. respiratory distress syndrome, bronchopulmonary dysplasia, pulmonary edema, or chronic obstructive pulmonary disease). <u>two or more serial chest</u> radiological exams (x- ray or CT) are required. (Serial radiological exams should be taken no less than 12 hours apart, but not 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 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 alterial 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). Signs/Symptoms/Laboratory: FOR ANY PATIENT, at least one of the following: +Fever (>38 C or >100.4 F) with no other recognized cause And At least one of the following: -S% Bronchoalveolar lavage (BAL) -obtained cells contain 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 form minimally contaminated lower respiratory trad (LRT) specimen (e.g. BAL or protected specimen brushing) OR At least two of the following: -New onset or worsening cough, or dyspnea, or tachypnea +Rales or honchi		
Complication complication at or before 30 days post operation	191	PNAPATOS	Char	Pneumonia PATOS	OR or intraoperatively for the principal operative procedure. The case must meet the following criteria:A. Pneumonia is assigned as a postoperative occurrence AND B. Preoperative data are highly suggestive or suspicious of pneumonia on the day of surgery. Preoperative diagnosis of pneumonia on the day of surgery. Preoperative diagnosis of pneumonia on the day of surgery. Preoperative diagnosis of preoperative X-ray results stating pneumonia and patient being treated at time of surgery. Patients being treated at the time of surgery. Patients with pneumonia has not been assigned as a postop occurrence are not included Notes. PATOS criteria are frequently less stringent than criteria for a preoperative risk factor or postoperative occurrence. This means at times PATOS can be assigned to a postoperative occurrence. This means at times that the time of surgery that the time of surgery.	Yes, No	added in 2011 Definition
			Num		Days from Operation until Pneumonia Complication		
193 NREINTUB Num Propriation Number of Unplanned Intubation Number of Unplanned Intubation Occurrences	193	NREINTUB	Num	Number of Unplanned Intubation Occurrences	Number of Unplanned Intubation Occurrences		

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
194	REINTUB	Char	Occurrences Unplanned Intubation	Patient required placement of an endotracheal tube or other similar breathing tube [Laryngeal Mask Airway (LMA), nasotracheal tube, etc) and ventilator support intraoperatively or within 30 days following surgery which was not intended or planned. The variable intent is to capture all cause unplanned intubations, including but not limited to unplanned intubations for refractory hypotension, cardiac arrest, inability to protect airway. Accidental self extubations requiring reintubation would be assigned. "Emergency tracheostomy would be assigned. Patients with a chronic/long-term tracheostomy who are on and off the ventilator would not be assigned, unless the tracheostomy tube itself is removed and the patient requires reintubation (endotracheal or a new tracheostomy tube) or an emergency tracheostomy. "Patients undergoing time off the ventilator would not be assigned, as the initubation is planned, it is the return to the OR would not be assigned, as the initubation is planned, it is the return to the OR would not be assigned, as the initubation scurs after they have been extubated after surgery. In patients who were not intubated for a return to the OR initubation at any time after their surgery is complete is considered unplanned. -Intraoperative conversion from local or MAC anesthesia to general anesthesia, during the Principal Operative Procedure, with placement of a berathing tube and ventilator support, secondary to the patient not tolerating local or MAC anesthesia, in the absence of an emergency, would not be assigned.	Unplanned Intubation; No Complication	Definition revised or clarified in 2011 Definition revised or clarified in 2014
195	DREINTUB	Num	Days from Operation until Unplanned Intubation Complication	Days from Operation until Unplanned Intubation Complication		-99 = Patient did not experience this complication at or before 30 days post operation
196	NPULEMBOL	Num	Number of Pulmonary Embolism Occurrences	Number of Pulmonary Embolism Occurrences		
197	PULEMBOL	Char	Occurrences Pulmonary Embolism	Lodging of a blood dot in the 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. The identification of a new blood slot in a pulmonary artery causing obstruction (complete or partial) of the blood supply to the lungs. However, since there are not always preoperative studies proving that a clot or thrombus was not present preoperatively, the technical specification of the variable requires only a "new diagnosis"- in other words the clot or thrombus was not previously known. A pulmonary embolism must be noted within 30 days after the principal operative procedure AND the following criteria, A AND B below: A. New diagnosis of a new blood clot in a pulmonary artery AND B. The patient has a V-Q scan interpreted as high probability of pulmonary embolism or a positive CT exam, TEE, pulmonary arteriogram, CT angiogram, or any other definitive imaging modality (including direct pathology examination such as autopsy	Pulmonary Embolism; No Complication	Definition revised or clarified in 2013
198	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
199	NFAILWEAN	Num	Number of On Ventilator > 48 Hours Occurrences	Number of On Ventilator > 48 Hours Occurrences		
200	FAILWEAN	Char	Occurrences Ventilator > 48Hours	Total duration of ventilator-assisted respirations during postoperative hospitalization was greater than 48 hours. This can occur at any time during the 30-day period postoperatively. This time assessment is CUMULATIVE, not necessarily consecutive. Ventilator-assisted respirations can be via endotracheal tube, nasotracheal tube, or tracheostomy tube.	On Ventilator greater than 48 Hours; No Complication	
201	VENTPATOS	Char	On Ventilator > 48 Hours PATOS	To identify patients who are intubated and receiving mechanical ventilator support upon entering the operating room for the principal operative procedure OR requires an unplanned intubation intraoperatively prior to the initiation of anesthesia for the principal operative procedure. The case must meet the following criteria:A. On the Ventilator > 48 Hours is assigned as a postoperative occurrence AND B. One of the following scenarios (1 or 2): 1. The patient is intubated and receiving mechanical ventilator support upon entering the operating room OR 2. The patient requires an unplanned intubation intraoperatively prior to the initiation of anesthesia for the principal operative procedure. The followings are not included: CPAP, BiPAP, etc.; Patients who required intubation and ventilator support at some point prior to the principal operative procedure, but who are not intubated and receiving wentilator support prior to the initiation of anesthesia for the principal operative procedure. The followings are some not included: CPAP, BiPAP, etc.; Patients who required intubation and ventilator support at some point prior to the principal operative procedure, but who are not intubated and receiving wentilator support prior to the initiation of anesthesia for the principal operative procedure.	Yes: No	NULL = No response Variable added in 2011 Definition revised or clarified in 2014

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
202	DFAILWEAN	Num	Days from Operation until On Ventilator > 48 Hours Complication	Days from Operation until On Ventilator > 48 Hours Complication		-99 = Patient did not experience this complication at or before 30 days post operation
203	NRENAINSF	Num	Number of Progressive Renal Insufficiency Occurrences	Number of Progressive Renal Insufficiency Occurrences		
204	RENAINSF	Char	Occurrences Progressive Renal Insufficiency	The reduced capacity of the kidney to perform its function as evidenced by a rise in creatinine of >2 mg/dl from preoperative value, but with no requirement for dialysis within 30 days of the operation.	Progressive Renal Insufficiency; No Complication	
205	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
206	NOPRENAFL	Num	Number of Acute Renal Failure Occurrences	Number of Acute Renal Failure Occurrences		
207	OPRENAFL	Char	Occurrences Acute Renal Fail	A patient who did not require dialysis preoperatively, worsening of renal dysfunction postoperatively requiring hemodialysis, pertineal dialysis, hemofilitation, neurdiafiltration, neurdiafiltration, neurdiafiltration, neurdiafiltration, neurdiafiltration, and traffication and qualify to this variable because the patient required dialysis; Hemodialysis, pertineal dialysis, hemofilitration, hemodiafiltration, or ultrafiltration all qualify - Placement of a dialysis catheter is indicative of the need for dialysis; if used within 48 hours of placement/vould not be assinged.Notes: The preoperative creatinine level that should be utilized when assigning the postoperative occurrence of "progressive renal insufficiency" should be taken closest to the surgery start time, but no greater than 90 days prior to surgery.	Acute Renal Failure; No Complication	Definition revised or clarified in 2011 2011 Definition revised or clarified in 2014
208	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
209	NURNINFEC	Num	Number of Urinary Tract infection Occurrences	Number of Urinary Tract infection Occurrences		
210	URNINFEC	Char	Occurrences Urinary Tract Infection	An infection in the unnary tract (kidneys, ureters, bladder, and urethra). Must be noted within 30 days after the principal operative procedure AND patient must meet ONE of the following: A: ONE of the following six criteria: fever (>380C or 100.40 F) urgency frequency dysuria suprapubic tendemess costovertebral angle pain or tenderness AND A urine culture of > 100,000 colonies/ml urine with no more than two species of organisms. Signs and symptoms should be reported within 72 hours prior to a urine culture being sent or 24 hours after the culture was sent. OR B: TWO of the following: x: criteria: fever (>380 C or 100.40 F) urgency dysuria suprapubic tendemess costovertebral angle pain or tenderness AND A urine culture being sent or 24 hours after the culture was sent. OR B: TWO of the following six criteria: fever (>380 C or 100.40 F) urgency dysuria suprapubic tendemess costovertebral angle pain or tenderness AND A teast one of the following: Distoict ket positive for leukocyte esterase and/or nitrate Pyuria (>10 WBC2mm3 or >3 WBC/hpf of unspun urine) Organisms seen on Gram stain of unspun urine bing sent or 24 hours after the culture weat sent or 24 hours after the culture was sent. The organisms seen of Gram stain of unspun urine of criteria urine cultures with repeated isolation of the same uropathogen with >100.000 colonies/m1 urine in on-voided specimen. Signs and symptoms should be reported within 72 hours prior to a urine culture was sent. Urine culture was sent. Privacian's diagnosis Physician institutes appropriate antimicrobial therapy.	Urinary Tract Infection; No Complication	Definition revised or clarified in 2013 Definition revised or clarified in 2014
211	UTIPATOS	Char	UTI PATOS	Evidence/suspicion of an active urinary tract infection noted at the time the patient enters the OR or intraoperatively for the principal operative procedure. The case must meet the following criteria: A. A Urinary Tract Infection (UTI) is assigned as a postoperative occurrence AND B. One of the following scenarios (I or 2):1. Preoperative evidence of a symptomatic UTI that had not started treatment or is currently undergoing treatment OR 2. Preoperative evidence was highly suggestive or suspicious of a UTI (symptomatic or asymptomatic) at the time of surgery. PATOs is assigned if results from a sterile urine culture obtained at the start of the principal operative can be utilized for evidence. Notes: • PATOS criteria are frequently less stringent than criteria for a preoperative risk factor or postoperative occurrence. This means at times PATOS can be properative occurrence. The means at times PATOS can be properative occurrence. The means at times PATOS can be preoperative occurrence.	Yes; No	NULL = No response Variable added in 2011 Definition revised or clarified in 2014

Position #		Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
212	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
213	NCNSCVA	Num	Number of Stroke/CVA Occurrences	Number of Stroke/CVA Occurrences		
214	CNSCVA	Char	CVA/Stroke with neurological deficit	Patient develops an embolic, thrombotic, or hemornhagic vascular accident or stroke with motor, sensory, or cognitive dysfunction (e.g., hemiplegia, hemiparesis, aphasia, sensory deficit, impaired memory) that persists for 24 or more hours. If a specific time frame for the dysfunction is not documented in the medical record, but there is a diagnosis of a stroke, assign the occurrence, unless documentation specifically states that the motor, sensory, or cognitive dysfunction resolved.	Stroke/CVA; No Complication	Definition revised or clarified in 2010
215	DCNSCVA	Num	Days from Operation until Stroke/CVA Complication	Days from Operation until Stroke/CVA Complication		-99 = Patient did not experience this complication at or before 30 days post operation
216	NCNSCOMA	Num	Number of Coma > 24 Hours Occurrences	Number of Coma > 24 Hours Occurrences		Classic variable, no longer used
217	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. Drug-induced coma (e.g. Propofol drips) are not entered within 30 days of the operation.	Coma greater than 24 hours; No Complication	Classic variable, no longer used
218	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 Classic variable, no longer used
219	NNEURODEF	Num	Number of Peripheral Nerve Injury Occurrences	Number of Peripheral Nerve Injury Occurrences		Classic variable, no longer used
220	NEURODEF	Char	Peripheral Nerve Injury	Peripheral nerve damage may result from damage to the nerve fibers, cell body, or myelin sheath during surgery. Peripheral nerve injuries which result in motor deficits to the cervical plexus, brachial plexus, unar plexus, lumbar-sacral plexus (sciatic nerve), peroneal nerve, and/or the femoral nerve should be included.	Peripheral nerve injury ; No Complication	Classic variable, no longer used
221	DNEURODEF	Num	Days from Operation until Peripheral Nerve Injury Complication	Days from Operation until Peripheral Nerve Injury Complication		-99 = Patient did not experience this complication at or before 30 days post operation Classic variable, no longer used
222	NCDARREST	Num	Number of Cardiac Arrest Requiring CPR Occurrences	Number of Cardiac Arrest Requiring CPR Occurrences		
223	CDARREST	Char	Occurrences Cardiac Arrest Requiring CPR	The absence of cardiac rhythm or presence of chaotic cardiac rhythm, intraoperatively or within 30 days following surgery, which results in a cardiac arrest requiring the initiation of CPR, which includes chest compressions. Patients are included who are in a pulseless VT or Vfb in which defibrillation is performed and PEA arrests requiring chest compressions. Patient who receives open cardiac massage are included. Patients with automatic implantable cardioverter defibrillator (ALCD) that fire but the patient has no loss of consciousness should be excluded.	Cardiac Arrest Requiring CPR; No Complication	Definition revised or clarified in 2011 Definition revised or clarified in 2014
224	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
225	NCDMI	Num	Number of Myocardial Infarction Occurrences	Number of Myocardial Infarction Occurrences		
226	CDMI	Char	Occurrences Myocardial Infarction	An acute myocardial infarction which occurred intraoperatively or within 30 days following surgery as manifested by one of the following: * Documentation of ECG changes indicative of acute MI (one or more of the following): - ST elevation > 1 mm in two or more contiguous leads - New left bundle branch - New left bundle branch - New q-wave in two of more contiguous leads * New elevation in troponin greater than 3 times upper level of the reference range in the setting of suspected myocardial ischemia * Physician diagnosis of myocardial infarction	Myocardial Infarction; No Complication	Definition revised or clarified in 2011
227	DCDMI	Num	Days from Operation until Myocardial Infarction Complication	Days from Operation until Myocardial Infarction Complication		-99 = Patient did not experience this complication at or before 30 days post operation
228	NOTHBLEED	Num	Number of Bleeding Transfusions Occurrences	Number of Bleeding Transfusions Occurrences		
229	OTHBLEED	Char	Occurrences Bleeding Transfusions	At least 1 unit of packed or whole red blood cells given from the surgical start time up to and including 72 hours postoperatively. If the patient receives shed blood, autologous blood, cell saver blood or pleurovac postoperatively, count this blood in terms of equivalent units. For a cell saver, every 500 ml's of fluid will equal 1 unit of packed cells. If there are less than 250 ml of cell saver, round down and report as 0 units. If there are 250 cc, or more of cell saver, round up to 1 unit. The blood may be given for any reason. If greater than 200 units, enter 200 units. Record the number of units given. Record the date the blood was initially started (intra-operatively or postoperatively). Note: Intra-operative blood to prime the by-pass pump for CABG is not shed blood and should not be included as cell-saver blood.	Transfusions/Intraop/Postop; No Complication	Definition change in 2009

	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
230	DOTHBLEED	Num	Days from Operation until Bleeding Transfusions Complication	Days from Operation until Bleeding Transfusions Complication		-99 = Patient did not experience this complication at or before 30 days
31	NOTHGRAFL	Num	Number of Graft/Prosthesis/Flap Failure Occurrences	Number of Graft/Prosthesis/Flap Failure Occurrences		Classic variable, no longer used
32	OTHGRAFL	Char	Occurrences Graft/Prosthesis/FF	Mechanical failure of an extracardiac 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/Flap Failure; No Complication	Classic variable, no longer used
33	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 Classic
34	NOTHDVT	Num	Number of DVT/Thrombophlebitis Occurrences	Number of DVT/Thrombophlebitis Occurrences		
35	OTHDVT	Char	Occurrences DVT/Thrombophlebilis	New diagnosis of blood clot or thrombus within the venous system (superficial or deep) which may be coupled with inflammation and requires treatment. Must be noted within 30 days after the principal operative procedure AND one of the following A or B below: A.New Diagnosis of a [new] venous thrombosis (superficial or deep), confirmed by a duplex, venogram, CT scan, or any other definitive imaging modality (including direct pathology examination such as autopsy) AND the patient must be treated with anticoagulation therapy and/or placement of a vena cava filter or dipping of the vena cava, or the record indicates that treatment was warranted but there was no additional appropriate treatment option available. B. As per (A) above, but the patient or decisionmaker has refused treatment. There must be documentation in the medical record of the [patient*] effusion of treatment. The followings are included: Internal jugular (IJ) clots • Cephalic Vein clots - Portal vein clots- Patient requires therapy, but refuses- Chronic venous thrombosis present preoperatively, which are also noted postoperatively with evidence of new progression. The followings are not included: Chronic venous thrombosis present preoperatively, which are also noted postoperatively without evidence of new progression if only an intravenous catheter is thrombosed and the vein is not. • Arterial clots	DVT Requiring Therapy; No Complication	Definition revised or clarified in 2013 Definition revised or clarified in 2014
36	DOTHDVT	Num	Days from Operation until DVT/Thrombophlebitis Complication	Days from Operation until DVT/Thrombophlebitis Complication		-99 = Patient did not experience this complication at or before 30 days post operation
37	NOTHSYSEP	Num	Number of Sepsis Occurrences	Number of Sepsis Occurrences		post operation
38	OTHSYSEP	Char	Occurrences Sepsis	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 intent is to capture the patient whose physiology is compromised by an ongoing infectious process after surgery. Present at the time of surgery (PATOS) modifiers prevent patients from being counted as having complications if there is significant evidence that the sepsis or septic shock outcome was under way prior to the surgery performed. Please report the most significant level using the criteria below. 1.Sepsis: Sepsis is the systemic response to infection. Report this variable if the patient has two of the following clinical signs and symptoms of SIRS: "Temp >380 c (1040 o F) or < 36 o (968 o F) *IR >90 bpm "RR >20 breaths/min or PaCO2 <32 mmHg(<4.3 kPa) "WBC >12.000 cell/mm3, <4000 cell/smm3, or >10% immature (band) forms "Anion gap acidosis its bis defined by either. [Na + K] – [CI + HCO3 (or serum CO2)]. If this number is greater than 16, then an anion gap acidosis is present. Na – [CI + HCO3 for serum CO2)]. If this number is greater than 12, then an anion gap acidosis is present. "If anion gap lab values are performed at your facilities lab, ascertain which formula is utilized and follow guideline criteria. And either A or B below: A. One of the following: "positive blood culture" "positive blood culture" *plinical documentation of purulence or positive culture from any site for which there is documentation noting the site as the acute cause of sepsis	Sepsis; No Complication	Definition revised or clarified in 2013 Definition revised or clarified in 2014

Position #	Variable Name	Data	Variable Label	Variable Definition	Variable Options at Entry	Comments
		Туре				e e martina
238	OTHSYSEP (Continued)	Char	Occurrences Sepsis	B. The patient must meet SIRS criteria within 48 hours after the Principal Operative Procedure AND One of the following findings during the Principal Operative Procedures. "Confirmed infarcted bowel requiring resection "Purulence in the operative site. or "Positive intra-operative cultures Guidance: if the patient meets criteria to assign proportages, assign the fisk factor; if the patient meets criteria to assign proposed with the gone and/or circulatory dysfunction. Examples of and/or circulatory dysfunction. Examples of organ dysfunction include: hypotension, requirement of intropic or vasopressor agents. Septie Shock assign the active respiratory distress. Examples of circulatory dysfunction include: hypotension, requirement of intropic or vasopressor agents. Septic Shock assign the patient meets the criteria to assign proposed exters expansion. Septi the short of the patient meets the criteria to assign the soft organ dysfunction include: Subject and/or circulatory dysfunction include: hypotension, requirement of intropic or vasopressor agents. Septic Shock assign the patient meets the criteria to assign prop septic shock assign the risk factor; if the patient meets the criteria to assign prop septic shock assign the risk factor; if the patient meets the criteria to assign prop septic shock assign the risk factor; if the patient meets the criteria to assign prop septic shock assign the secure and then assess for PATOS and assign if appropriate. The presence of pneumatosis along with the presence of SIRS is reported as Sepsis.		
239	SEPSISPATOS	Char	Sepsis PATOS	Evidence is highly suggestive or suspicious of a systemic response to infection preoperatively/ intraoperatively for the principal operative procedure. The case must meet the following criteria: A. Sepsis is noted as a postoperative occurrence AND B. Preoperative/intraoperative evidence was highly suggestive or suspicious of sepsis at the time of the principal operative procedure. The preoperative sepsis variable does not need to be assigned in order to assign PATOS to a postoperative included: If the record indicates that sepsis was present at some point preoperative but fully and definitively resolved prior to the time of surgery. then PATOS should not be chosen - Injury to intestine (e.g. enterotomy, iatrogenic injury) which results in a postoperative leak of enteric contents into the abdomen. Notes: In instances where criteria for sepsis was met due to an intraoperative event (e.g. enterotomy, iatrogenic injury) PATOS would not be assigned	Yes: No	NULL = No Response Variable added in 2012 Definition revised or clarified in 2014
240	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
241	NOTHSESHOCK	Num	Number of Septic Shock Occurrences	Number of Septic Shock Occurrences		
242	OTHSESHOCK	Char	Occurrences Septic Shock	For Sepsis and Septic Shock within 30 days of the operation, please report the most significant level using the criteria that follow. Severe Sepsis/Septic Shock: Sepsis is considered severe when it is associated with organ and/or circulatory dysfunction. Report this variable if the patient has the clinical signs and symptoms of SiRS or sepsis AND documented organ and/or circulatory dysfunction. Examples of organ dysfunction include: oliguria, acute alteration in mental status, acute respiratory distress. Examples of circulatory dysfunction include: hypotension, requirement of inotropic or vasopressor agents. For the patient that had sepsis properatively, worsening of any of the above signs postoperatively would be reported as a postoperative sepsis.	Septic Shock; No Complication	
243	SEPSHOCKPATOS	Char	Septic Shock PATOS	Evidence is highly suggestive or suspicious of a systemic response to infection with organ/circulatory dysfunction preoperatively/intraoperatively for the principal operative procedure. The case must meet the following criteria: A. Septic Shock is noted as a postoperative occurrence AND B. Preoperative/intraoperative evidence was highly suggestive or suspicious of septic shock at the time of the principal operative procedure. The preoperative septic shock variable does not need to be assigned in order to assign PATOS to a postoperative occurrence of septic shock. If the record indicates that septic shock was present at some point preoperatively but fully and definitively resolved prior to the time of surgery, then PATOS should not be chosen. • Injury to intestine (e.g. enterotomy, iatrogenic injury) which results in a postoperative leak of enteric contents into the abdomen,PATOS should not be chosen.	Yes; No	NULL = No Response Variable added in 2012 Definition revised or clarified in 2014
244	DOTHSESHOCK	Num	Days from Operation until Septic Shock Complication	Days from Operation until Septic Shock Complication		-99 = Patient did not experience this complication at or before 30 days post operation
245	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		
246	PODIAGTX	Ohaa	Post-op Diagnosis Text	the return of the pathology reports are entered. Post-op Diagnosis text		

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
247	PODIAG10	Char	Post-op diagnosis (ICD 10)	The appropriate ICD-10-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.		Variable added in 2014
248	PODIAGTX10	Char	Post-op Diagnosis Text	Post-op Diagnosis text		Variable added in 2014
249	RETURNOR	Char	Return to OR	Returns to the operating room within 30 days include all major surgical procedures that required the patient to be taken to the surgical operating room for intervention of any kind. "Major surgical procedures" are defined as those cases in any and all surgical subspecialties that meet Program criteria for inclusion.	Yes; No	NULL= Unknown
250	DSDtoHD	Num	Days from Surgical Discharge (Acute Care Discharge) to Hospital Discharge	Days from Surgical Discharge to Hospital Discharge		Historical variable, no longer used
251	DOpertoD	Num	Days from Operation to Death	Days from Operation to Death		-99 = Patient did not die at or before 30 days post operation Notes: deaths within 30 days of procedure included only
252	DOptoDis	Num	Days from Operation to Discharge	Days from Operation to Discharge		-99 = Unknown
253	STILLINHOSP	Char	Still in Hospital > 30 Days	$^{\rm TVes^*}$ 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 (cheab or hospice unit), then "NO" is entered, since the stay in the acute care setting was no longer continuous.	Yes; No	NULL = No Response Variable added in 2011
254	READMISSION	Char	Readmssion	"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/manily as such.	Yes; No	Historical variable, no longer used NULL=Unknown
255	UNPLANREADMISSION	Char	Unplanned Readmission	"Yes" is entered for any unplanned readmission (to the same or another hospital) for a post operative occurrence likely related to the principal surgical procedure within 30 days of the procedure.	Yes; No	Historical variable, no longer used NULL=Unknown
256	REOPERATION	Char	Unplanned Reoperation	"Yes" is entered if the patient had an unplanned return to the operating room for a surgical procedure related to either the index or concurrent procedure performed. This return must be within the 30 day postoperative period. The return to the OR may occur at any hospital or surgical 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-exclsions; insertion of port-a-caths for chemotherapy.	Yes; No	Historical variable, no longer used NULL=Unknown
257	REOPERATION1	Char	Unplanned Reoperation 1	"Yes" is entered if the patient had an unplanned return to the operating room for a surgical procedure, for any reason, within 30 days of the principal operative procedure. The return to the OR may occur at any hospital or surgical facility (i.e. your hospital or at an outside hospital).	Yes; No	NULL=No Response Variable added in 2012
258	RETORPODAYS	Num	Days from principal operative procedure to Unplanned Reoperation 1	Days from principal operative procedure to Unplanned Reoperation 1		-99 = Patient did not experience Unplanned Reoperation 1 Variable added in 2012
259	REOPORCPT1	Char	Unplanned Reoperation 1 CPT	The CPT code for Unplanned Reoperation 1		NULL = No Response Variable added in 2012
260	RETORRELATED	Char	Unplanned Reoperation 1 related to	Was the return to the OR for a postoperative occurrence likely related to the	Yes	NULL = No Response Variable
			principal operative procedure	principal operative procedure? "Yes" is the default answer unless it is definitively indicated that the unplanned return to the OR is not related to the principal operative procedure.	No Unknown	added in 2012 Definition revised in 2013
261	REOPORICD91	Char	Unplanned Reoperation 1 ICD-9	The ICD-9 code for Unplanned Reoperation 1		NULL = No Response Variable added in 2012
262 263	REOPORTICD101 REOPERATION2	Char Char	Unplanned Reoperation 1 ICD-10 Unplanned Reoperation 2	The ICD-10 code for Unplanned Reoperation 1 "Yes" is entered if the patient had an unplanned return to the operating room for a surgical procedure, for any reason, within 30 days of the principal operative procedure. The return to the OR may occur at any hospital or surgical facility (i.e. your hospital or at an outside hospital).	Yes; No	Variable added in 2014 NULL=No Response Variable added in 2012
264	RETOR2PODAYS	Num	Days from principal operative procedure to Unplanned Reoperation 2	Days from principal operative procedure to Unplanned Reoperation 2		-99 = Patient did not experience Unplanned Reoperation 2 Variable added in 2012
265	REOPOR2CPT1	Char	Unplanned Reoperation 2 CPT	The CPT code for Unplanned Reoperation 2		NULL = No Response Variable added in 2012
266	RETOR2RELATED	Char	Unplanned Reoperation 2 related to	Was the return to the OR for a postoperative occurrence likely related to the	Yes	NULL = No Response Variable
			principal operative procedure	principal operative procedure? "Yes" is the default answer unless it is definitively indicated that the unplanned return to the OR is not related to the principal operative procedure.	No Unknown	added in 2012 Definition revised in 2013
267	REOPOR2ICD91	Char	Unplanned Reoperation 2 ICD-9	The ICD-9 code for Unplanned Reoperation 2		NULL = No Response Variable added in 2012
268	REOPOR2ICD101	Char	Unplanned Reoperation 2 ICD-10	The ICD-10 code for Unplanned Reoperation 2		NULL = No Response Variable added in 2014
269	REOPERATION3	Char	More than 2 unplanned reoperations	"Yes" is entered if there were more than two unplanned re-operations for a post operative occurrence likely related to the principal surgery within 30 days.	Yes; NO	NULL=No Response Variable added in 2012

Position #	Variable Name	Data Type	Variable Label	Variable Definition	Variable Options at Entry	Comments
270	READMISSION1	Char	Any Readmission 1	"Yes" is entered if the patient had 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	NULL=No Response Variable added in 2012
271	READMPODAYS1	Num	Days from principal operative procedure to Any Readmission 1	Days from principal operative procedure to Any Readmission 1		-99 = Patient did not experience Any Readmission 1 Variable added in 2012
272	UNPLANNEDREADMISSION1	Char	Unplanned Readmission 1	"Yes" is entered if Any Readmission 1 was unplanned at the time of the principal procedure.	Yes; No	NULL = No Response Variable added in 2012
273	READMRELATED1	Char	Unplanned Readmission 1 likely related to the principal procedure	"Yes" is entered if Unplanned Readmission 1 (to the same or another hospital) was for a postoperative occurrence likely related to the principal surgical procedure within 30 days of the procedure.	Yes; No	NULL = No Response Variable added in 2012
274	READMSUSPREASON1	Char	Readmission related suspected reason 1	The primary suspected reason for the readmission if it is likely related to the principlal operating procedure	Superficial Incisional SSI Deep Incisional SSI Organ/Space SSI Wound Disruption Pneumonia Unplanned Intubation Pulmonary Embolism On Ventilator > 48 hours Progressive Renal Insufficiency Acute Renal Failure Uninary Tract Infection CVA CVA Cardiac Arrest Requiring CPR Myocardial Infarction Bleeding Requiring Transfusion (72h of surgery start time) Vein Thrombosis Requiring Therapy Septis Septic Shock Other (list ICD 9 code) Other (list ICD 10 code)	NULL = No Response Variable added in 2012 Definition revised or clarified in 2014
275	READMUNRELSUSP1	Char	Readmission unrelated suspected reason 1	The primary suspected reason for the readmission if it is likely unrelated to the principlal operating procedure	Superficial Incisional SSI Deep Incisional SSI Organ/Space SSI Wound Disryption Pneumonia Unplanned Intubation Pulmonary Embolism On Ventilator > 48 hours Progressive Renal Insufficiency Acute Renal Failure Urinary Tract Infection CVA Cardiac Arrest Requiring CPR Myocardial Infarction Bleeding Requiring Therapy Septis Septis Septis Septis Sock Other (list ICD 9 code)	NULL = No Response Variable added in 2013 Definition revised or clarified in 2014
276	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 principle operating procedure		NULL = No Response Variable added in 2012
277	READMRELICD101	Char	Readmission related ICD-10 code 1	The ICD-10 code for the suspected reason if 'Other' is chosen and the readmission is likely related to the principle operating procedure		NULL = No Response Variable added in 2014
	READMUNRELICD91	Char	Readmission unrelated ICD-9 code 1	The ICD-9 code for the suspected reason if 'Other' is chosen and the		NULL = No Response Variable
278				readmission is likely unrelated to the principle operating procedure The ICD-10 code for the suspected reason if 'Other' is chosen and the		added in 2013
278 279	READMUNRELICD101	Char	Readmission unrelated ICD-10 code 1			NULL = No Response Variable
	READMUNRELICD101 READMISSION2	Char Char	Readmission unrelated ICD-10 code 1 Any Readmission 2	readmission is likely unrelated to the principle operating procedure See "Any Readmission 1"	Yes; No	added in 2014 Variable added in 2012
279			Any Readmission 2	readmission is likely unrelated to the principle operating procedure	Yes; No	added in 2014

Number Variable	0-mmente
RADAMELATED Construct Section/Construct/Section/Constru/Sectio	Comments
Entropy Entropy <t< td=""><td>NULL = No Response Variable added in 2012</td></t<>	NULL = No Response Variable added in 2012
SHA READ/SUPPRESAUX Constrained material supported reason 7 See Treatmasses unrelated supported reason 1* See Treatmasses unrelated 1CD 10 code 1* See Treatmasses unrelated CD 10 code 1*	NULL = No Response Variable added in 2012
ReAM Readmasson related ICD 4 code 2 See "Readmasson related ICD 4 code 1 Image: Code 1 287 REAM Readmasson related ICD 1 code 2 See "Readmasson related ICD 10 code 1" Image: Code 1 288 REAM REAM See "Readmasson related ICD 10 code 1" Image: Code 1 Image: Cod	
RAMMELCD102 Orac Readmission reliated ICD-10 code 2 See "Readmission unreliated ICD-10 code 1" Inclusion 280 RCAMUNELLCD22 Orac Readmission unreliated ICD-10 code 2 See "Readmission unreliated ICD-10 code 1" Inclusion 281 REAMUNELLCD22 Orac Readmission unreliated ICD-10 code 2 See "Readmission unreliated ICD-10 code 1" Inclusion 281 REAMUNELLCD22 Orac Readmission unreliated ICD-10 code 2 See "Readmission unreliated ICD-10 code 1" Inclusion 281 REAMUNEDLECAMUNELLCD22 Orac May from principal generative procedure 10 Ary Readmission 1" Yes, No 282 REAMMELCPE03 Orac Unplanned Readmission 1 and reliated supported reason 1" Yes, No 283 REAMMELCPE03 Orac Ingerincipal generative and the seeminssion reliated supported reason 1" Yes, No See "Readmission reliated Supported reason 1" Yes, No 284 REAMMELCD30 Orac Readmission reliated ICD-10 code 3 See "Readmission reliated ICD-2 code 1" See "Readmission reliated ICD-2 code 1" See "Neadmission reliated ICD-2 code 1" Yes, No 284 REAMMELCD30 Orac Readmissi	ed reason 1" NULL = No Response Variable
READMUNRELICION2 Chin Readmission unrelated ICD-9 code 1* Inc. 289 READMUNRELICION2 Chin Readmission unrelated ICD-10 code 1* Inc. 281 READMUNRELICION2 Chin Any Readmission Unrelated ICD-10 code 1* Yes. No. 281 READMISSION Chin Any Readmission 1 Yes. No. Yes. No. 281 READMISELATEOUT Chin Any Readmission 1 Yes. No. Yes. No. 283 READMISELATEOUT Chin Unput med Readmission 3 See "Unplanmed Readmission 1" Yes. No. 284 READMISELATEOUT Chin Unplanmed Readmission 1 aduated supceted reason 1 See "Tage Transition 1" See "Readmission related suppeted reason 1" See Transition related suppeted reason 1" See Transition 1" See Transition related suppeted reason 1" See Transition 1" See Transit 1" See Transition 1" See Transit 1" See Transition 1"	added in 2013 NULL = No Response Variable
READMUNRELICO102 Char Readmission unrelated (CD-10 code 1* Image: Char Code 1* 280 READMINDELICO102 Char Any Readmission 1* Yes, No 281 READMINDELICO102 Char Any Readmission 1* Yes, No 282 READMINDELICO102 Char Any Readmission 3 See "Unplaneed Readmission 1* Yes, No 283 READMINDELICO102 Char Unplaneed Readmission 3 See "Unplaneed Readmission 1* if any related to the principal procedure" Yes, No 284 READMINDELICO102 Char Unplaneed Readmission 1/ if any related to the principal procedure" Yes, No 284 READMINELCO103 Char Readmission related suspected reason 1* See "Readmission related suspected reason 1* See "Readmission related Suspected reason 1* See "Readmission related CD-10 code 1* Image: Readmission 1* Yes, No 297 READMINELCO103 Char Readmission related CD-10 code 1* Image: Readmi	added in 2012 NULL = No Response Variable
SEADMASSION3 Orar Any Readmission 3 Days Time principal operative procedure See "Any Readmission 1" Yes. No 221 READMPCOAYS3 Num Days Time principal operative procedure See "Days Time principal operative procedure to Any Readmission 1" Yes. No 222 UNPLANEEDREADMISSION3 Char Unplanned Readmission 1 See "Days Time principal operative procedure" Yes. No 223 READMELECTORS Char Unplanned Readmission 1 See "Unplanned Readmission 1" Yes. No 224 UNPLANEEDREADMISSION3 Char Unplanned Readmission 1" Yes. No 226 READMISSIPERASON3 Char Readmission related suppected reason 1" See "Readmission related suppected reason 1" See "Read	added in 2014 NULL = No Response Variable
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SEXIMPODAYSS Num Days from principal operative procedure to Any Readmission 1** Principal operative procedure to Any Readmission 1** 921 URPLANIEDREADMISSION3 Drur Urplanned Readmission 3 See "Urplanned Readmission 1** Yes, No 923 READMIRELATED3 Ohar Urplanned Readmission 1** Yes, No Yes, No 924 READMISSIPREASON3 Ohar Urplanned Readmission 1** See "Readmission 1** Yes, No 926 READMISSIPREASON3 Ohar Readmission related suspector reason See "Readmission related CD- 0:00 cote 1* See "Readmission related CD- 0:00 cote 1* See "Readmission unvelated suspector reason See "Readmission unvelated LD- 0:00 cote 1* Yes, No Yes, No<	added in 2014
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BADMRELICD83 Chu Readmission related ICD-9 code 3 See "Readmission related ICD-9 code 1" 297 READMINELICD93 Chu Readmission related ICD-10 code 3 See "Readmission related ICD-10 code 1" International Internation Internatinteric ICD-10 code I 301	reason 1" NULL = No Response Variable
READMRELICD103 Char Readmission related ICD-10 code 3 See "Readmission related ICD-10 code 1" 298 READMINRELICD03 Char Readmission unrelated ICD-10 code 3 See "Readmission unrelated ICD-10 code 1" 299 READMISSION4 Char Readmission unrelated ICD-10 code 1 300 READMISSION4 Char Readmission unrelated ICD-10 code 1* Yes. No 301 READMISSION4 Char Any Readmission 4 See "Any Readmission 1* Yes. No 302 UNPLANNEDRELATED4 Char Unplanned Readmission 4 See "Unplanned Readmission 1* Yes. No 303 READMISUSPRELATED4 Char Unplanned Readmission 4 See "Unplanned Readmission 1* Yes. No 304 READMINELICD194 Char Readmission related suspected reason 1* See "Readmission related suspected reason 1* See "Readmission unrelated Suspected reason 1* See "Readmission related ICD-10 code 1* 307 READMINELICD104 Char </td <td></td>	
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288 READMUNRELICD33 Char Readmission unrelated ICD-9 code 3 See "Readmission unrelated ICD-10 code 1" 289 READMUNRELICID3 Char Readmission unrelated ICD-10 code 3 See "Readmission unrelated ICD-10 code 1" Yes; No 301 READMUNRELICID3 Char Any Readmission 4 See "Any Readmission 1" Yes; No 302 UNPLANNEDREADMISSION4 Char Unplanned Readmission 4 See "Unplanned Readmission 1" Yes; No 303 READMUNRELATED4 Char Unplanned Readmission 4 See "Unplanned Readmission 1" Yes; No 304 READMUNRELATED4 Char Unplanned Readmission related suspected reason 4 See "Readmission related suspected reason 1" See "Readmission unrelated suspected reason 1" See "Readmission related suspected reason 1" See "Readmission related Suspected reason 1" See "Readmission related CD-9 code 1" 306 READMUNRELICD34 Char Readmission unrelated ICD-10 code 4 See "Readmission unrelated ICD-9 code 1" Image: Readmission related ICD-10 code 4 See "Readmission unrelated ICD-9 code 1" Image: Readmission related ICD-10 code 4 See "Readmission unrelated ICD-10 code 1" Image: Readmission related ICD-10 code 4 See "Readmission unrelated ICD-10 code 1" Image: Readmission Readmission related ICD-10 code 4 </td <td>added in 2012 NULL = No Response Variable</td>	added in 2012 NULL = No Response Variable
Loc READMUNRELICION Char Readmission unrelated ICD-10 code 3 See "Readmission unrelated ICD-10 code 4" 301 READMISSION4 Char Any Readmission 4 See "Days from principal operative procedure to Any Readmission 1" Yes; No 302 UNPLANNEDREADMISSION4 Char Unplanned Readmission 4 See "Unplanned Readmission 1" Yes; No 303 READMISSION4 Char Unplanned Readmission 4 (kely related to the principal procedure" Yes; No 303 READMISSIPREASON4 Char Unplanned Readmission 4 (kely related to the principal procedure" Yes; No 303 READMUNRELICED4 Char Unplanned Readmission 4 (kely related to suspected reason 1" See "Readmission related suspected reason 1" See "Readmission related suspected reason 1" See "Readmission unrelated Suspected reason 1" See "Readmission related ICD-9 code 1" See "Readmission related ICD-9 code 1" See "Readmission unrelated ICD-9 code 1" S	added in 2014 NULL = No Response Variable
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Image: Non-Oncode of the set of the	ed reason 1" NULL = No Response Variable
Image: Constraint of the constraint	added in 2013 NULL = No Response Variable
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311 READMPODAYS5 Num Days from principal operative procedure to See "Days from principal operative procedure to Any Readmission 1" 312 UNPLANNEDREADMISSION5 Char Unplanned Readmission 5 See "Unplanned Readmission 1" Yes; No 313 READMRELATED5 Char Unplanned Readmission 5 likely related to See "Unplanned Readmission 1 likely related to the principal procedure" Yes; No 314 READMSUSPREASON5 Char Readmission related suspected reason 5 See "Readmission related suspected reason 1" See "Readmission related suspected reason 1" 315 READMNRELSUSP5 Char Readmission related Suspected reason 5 See "Readmission related suspected reason 1" See "Readmission unrelated suspected reason 1" 316 READMRELICD95 Char Readmission related ICD-9 code 5 See "Readmission related ICD-9 code 1" 318 READMUNRELICD95 Char Readmission unrelated ICD-9 code 5 See "Readmission unrelated ICD-9 code 1"	added in 2014
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318 READMUNRELICD95 Char Readmission unrelated ICD-9 code 5 See "Readmission unrelated ICD-9 code 1"	added in 2012 NULL = No Response Variable
	added in 2014 NULL = No Response Variable
	added in 2013 NULL = No Response Variable
200 MALINE CLOPIED Char Consideration of an and the second s	added in 2014
320 WOUND_CLOSURE Char Surgical wound closure To classify three layers of wound closure. Code the most complete closure of any incision based on the criteria below: Only deep layers closed; superficial I	
A. All layers of incision (deep and superficial) are fully closed by some means. Often referred to as "Incision Primarily Closed." This category includes complex No layers of incision are surgically cl	used

Position #	Variable Name	Data	Variable Label	Variable Definition	Variable Options at Entry	Comments	
		Туре					
321	PODIAG_OTHER	Char	Other postoperative occurrence(ICD 9)	Other postoperative surgical occurrences which are significant and that are not		NULL=Unknown	Variable
				covered by other postoperative outcome criteria		added in 2014	
322	PODIAG_OTHER10	Char	Other postoperative occurrence(ICD 10)	Other postoperative surgical occurrences which are significant and that are not		NULL=Unknown	
				covered by other postoperative outcome criteria		Variable added in 2014	
323	ANESTHES_OTHER	Char	Additional anesthesia technique	Type of anesthesia administered, outside of the primary anesthesia technique, as reported in medical record	General	NULL = Unknown added in 2014	Variable
					Epidural		
					Spinal		
					Regional		
					Local		
					Monitored Anesthesia Care/IV Sedation		
					Other	7	

VARIABLE ADDED IN 2011
VARIABLE ADDED IN 2012
VARIABLE ADDED IN 2013
VARIABLE ADDED IN 2014





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