

METABOLIC AND BARIATRIC SURGERY ACCREDITATION AND QUALITY IMPROVEMENT PROGRAM

User Guide for the 2016 Participant Use Data File (PUF)

Updated Version Released: October 2018

PROPRIETARY AND CONFIDENTIAL

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Contents

n	Page
Introduction	3
Data Request Process	3
File Description	4
Data Collection Background and Data Quality	6
Participation and Case Exclusion Criteria Case Collection Process Case Exclusion Criteria Hospital Exclusion Criteria	7 7 7 7
Data Limitations	8
Contact Information	8
Frequently Asked Questions Request Process Contents of the Files Values in the Data File Formats General	9 9 9 10 11
PUF User Guide Table Main Reoperation Readmission Intervention BMI	12 13 17 18 18
	Introduction Data Request Process File Description Data Collection Background and Data Quality Participation and Case Exclusion Criteria Case Collection Process Case Exclusion Criteria Hospital Exclusion Criteria Data Limitations Contact Information Frequently Asked Questions Request Process Contents of the Files Values in the Data File Formats General PUF User Guide Table Main Reoperation Readmission Intervention

Data Update (October 2018)

This updated version of the 2016 MBSAQIP PUF User Guide was released in **October 2018**. Only the main file has been updated; all other files remain in their original form and are unaffected. Note that this update was not initiated to correct errors. Rather, the update includes twenty-one variables not previously reported. This User Guide has been updated to include these added variables.

Data Update (October 2017)

We have identified a problem with reported values for the variable HTN_MEDS (Number of Preoperative Hypertensive Medications) in the 2015 PUF. For this variable, the majority of values equal to zero were inadvertently set to erroneous values of three. It is for this reason that HTN_MEDS should not be considered accurate for the 2015 PUF. Note that this issue has been resolved for the 2016 PUF and subsequent PUFs moving forward.

1. Introduction

The Metabolic and Bariatric Surgery Accreditation and Quality Improvement Program (MBSAQIP®) is pleased to introduce the 2016 Participant Use Data File (PUF) – including cases with operation dates between January 1, 2016 and December 31, 2016. The PUF is a Health Insurance Portability and Accountability Act (HIPAA)-compliant data file containing cases submitted to the MBSAQIP Data Registry. The PUF contains patient-level data and does not identify hospitals, health care providers, or patients. The intended purpose of these files is to provide researchers at participating centers with a data resource they can use to investigate and advance the quality of care delivered to the metabolic and bariatric surgical patient through the analysis of cases captured by MBSAQIP. The PUF is provided at no additional cost to employees (surgeons, researchers, bariatric program staff, etc.) of MBSAQIP participant centers. With over 150,000 metabolic and bariatric cases captured across the United States and Canada each year, the MBSAQIP PUF is the largest, bariatric-specific, clinical dataset in the country and serves as an invaluable resource to investigators looking to answer important clinical questions in this field. It is part of the mission of the MBSAQIP to make this data available to all participants to improve the power and reliability of clinical research and further propel innovation in the field of metabolic and bariatric surgery.

This guide is designed to accompany the 2016 Participant Use Data File available for download via the MBSAQIP website (https://www.facs.org/quality-programs/mbsaqip/participant-use). The sections contained herein will provide the user with information on how to request the PUF, contents of the data files, data collection background, data limitations, and answers to frequently asked questions.

This user guide applies specifically to the 2016 PUF and will be updated with each subsequent PUF.

2. Data Request Process

An individual who has an official role at an actively enrolled MBSAQIP center and wants to obtain a copy of the MBSAQIP PUF can do so by visiting https://www.facs.org/quality-programs/mbsaqip/participant-use and following the steps listed below:

- 1. From the MBSAQIP main page (www.facs.org/quality-programs/mbsaqip) the requestor can click on the "Participant Use Data File (PUF)" link. This will take you to the PUF information and request page.
- 2. Following a brief introduction and explanation of the PUF, the requestor can click on "Request PUF."
- 3. This will take the requestor to the Data Use Agreement. This is a three page document that implements the data protections of the Health Insurance Portability and Accountability Act of 1996 (HIPAA) and the MBSAQIP Participation Agreement. Delivery of the PUF is contingent on agreement to the terms and conditions specified

within the Data Use Agreement. The Data Use Agreement can be read from this page or the three-page document can be downloaded. 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 center in which they are currently employed and in what capacity, as well as how the requestor plans to utilize the PUF data. Once all of the required fields are completed, the requestor clicks "Submit."
- 5. Upon approval 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).
- 6. The file will be available in three different formats (Text, SPSS, SAS) and depending on the user's internet connection speed should take between 5 and 30 minutes to download.
- 7. 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

The PUF consists of five distinct datasets which are referred to as main, reoperation, readmission, intervention, and BMI, respectively. Each dataset is available in one of three different formats - Text, SAS, and SPSS. The main dataset is a flat file containing preoperative, intraoperative, and postoperative patient and procedure characteristics for all metabolic and bariatric surgical cases that were eligible for the PUF in 2016. The reoperation, readmission, intervention, and BMI datasets are available in long form (i.e., multiple rows per case), and contain detailed information on readmissions, reoperations, interventions, and post-operative BMI measurements, respectively, associated with cases in the main dataset. All five datasets contain a unique key matching variable, CASEID, which allows users to merge datasets as necessary.

Postoperative BMI measurements recorded in the BMI dataset were taken in the 30-day follow-up time period, which runs from 0 to 30 days from the date of the index procedure. All postoperative events or outcomes (e.g., death, sepsis, reoperation, readmission, intervention, postop BMI, etc.) recorded in the main, reoperation, readmission, and intervention datasets are 30-day outcomes (i.e., occurred within 30 days of the index procedure).

The main dataset contains three variables (REOP30, READ30, and INTV30) derived from the reoperation, readmission, and intervention datasets, respectively. These variables represent whether at least one reoperation, readmission, or intervention occurred, respectively, *for any reason*, within 30 days of the index procedure. Investigators interested in other facets of reoperation, readmission, or intervention will need to manipulate the long datasets and merge them with the main dataset in a manner which is appropriate to the specified research question. For example, suppose a researcher is interested in estimating the overall 30-day *related* reoperation rate for metabolic and bariatric surgical procedures. The specific research question

is: "What is the 30-day related reoperation rate for all cases included in the main dataset?" To answer this question, the researcher could use the variable REOP_RELATED_BAR in the reoperation dataset to identify and create a flat file of cases where at least one 30-day reoperation was recorded as most likely related to the index procedure. This flat file would then be merged (using the unique key matching variable CASEID) with the main dataset to construct a variable, say RELATED_REOP30, taking values of either "Yes" or "No" to indicate whether at least one related 30-day reoperation occurred for each case in the main dataset. The 30-day related reoperation rate for all metabolic and bariatric surgical procedures could then be estimated by calculating the proportion of cases in the main dataset where RELATED_REOP30 = "Yes."

Using the CASEID variable, other readmission, reoperation, intervention, or BMI-specific variables, or combinations thereof, can be merged to the main PUF dataset. A variable-by-variable description for each dataset is provided in the PUF User Guide Table in Section 9 of this document. A brief description of each dataset follows:

Dataset	File Types Available	Uncompressed File Size	Description
MBSAQIP_PUF_Main	SAS, SPSS, TXT	SAS: 280 MB SPSS: 294 MB TXT: 114 MB	Contains 167 HIPAA compliant variables on 186,772 cases submitted from 791 centers in 2016. Each row represents one case and there is exactly one row per case.
MBSAQIP_PUF_Read	SAS, SPSS, TXT	SAS: 1.53 MB SPSS: 1.52 MB TXT: 673 KB	Contains 9 HIPAA compliant variables on 8,841 readmissions. Each row represents a 30-day readmission associated with some case from the Main file. Multiple rows per case are possible in this file.
MBSAQIP_PUF_Reop	SAS, SPSS, TXT	SAS: 896 KB SPSS: 940 KB TXT: 339 KB	Contains 15 HIPAA compliant variables on 3,427 reoperations. Each row represents a 30-day reoperation associated with some case from the Main file. Multiple rows per case are possible in this file.
MBSAQIP_PUF_Intv	SAS, SPSS, TXT	SAS: 1.15 MB SPSS: 1.09 MB TXT: 353 KB	Contains 9 HIPAA compliant variables on 3,662 interventions. Each row represents a 30-day intervention associated with some case from the Main file. Multiple rows per case are possible in this file.
MBSAQIP_PUF_BMI	SAS, SPSS, TXT	SAS: 22.5 MB SPSS: 23.8 MB TXT: 12 MB	Contains 13 HIPAA compliant variables on 204,914 BMI measurements. Each row represents a BMI measurement from the 30-day follow-up time period associated with some case from the Main file. Multiple rows per case are possible in this file.

4. Data Collection Background and Data Quality

MBSAQIP collects data on over 200 variables including preoperative risk factors, intraoperative variables, and 30-day postoperative mortality and morbidity outcomes for patients undergoing metabolic and bariatric surgical procedures in both the inpatient and outpatient setting.

Required data elements are entered via a web-based data collection tool. 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 Metabolic and Bariatric Surgical Clinical Reviewers (MBSCRs), at their hospital for detailed information on how the hospital collects its MBSAQIP data.

To ensure the data collected are of the highest quality, the MBSAQIP has developed a host of different training mechanisms for the MBSCRs and conducts a data integrity audit of selected participating centers. The MBSAQIP requires MBSCRs to complete a series of web-based training modules followed by an annual certification exam. 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 the availability of MBSAQIP Clinical Support Registered Nurse (RN) Specialists who are available to MBSCRs on an ongoing basis for one-on-one data abstraction support, additional in-person and web-based training. The Clinical Support staff makes available a host of written educational resources available through the MBSAQIP Resource Portal through a support system designed to ensure MBSCRs have the knowledge and resources available to collect high-quality data.

The data integrity audit is a fundamental tool of the MBSAQIP to assess the quality of the data collected at participating centers. 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.

MBSAQIP has determined that a data integrity audit disagreement rate of 5% or less is acceptable. Centers that have higher than a 5% disagreement rate are not included in the MBSAQIP Semiannual Report and may be required to undergo an additional audit following training and education recommendations from the MBSAQIP.

5. Participation and Case Exclusion Criteria

Case Collection Process

All metabolic and bariatric surgical procedures and interventions, including those performed by non-metabolic and bariatric surgery credentialed general surgeons or other physician practitioners (i.e. gastroenterologists), must be entered into the MBSAQIP Data Registry. Documentation of each hospitalization and surgical procedure is required to obtain valid outcomes data. Data collection is ultimately the responsibility of the Metabolic and Bariatric Surgery (MBS) Director working collaboratively with the Metabolic and Bariatric Surgical Clinical Reviewers (MBSCR), the physician offices, and institutional departments to ensure accurate short and long-term results. Data is collected at 30 days, six months, one year, and annually thereafter.

Case Exclusion Criteria

The following exclusion criteria were applied to cases collected in 2016. For the current inclusion/exclusion criteria please contact the MBSAQIP Clinical Support Team at clinicalsupport@mbsaqip.org.

Procedures which would not meet metabolic or bariatric inclusion criteria:

- Cancer cases: Any patient who is admitted to the hospital and has an included procedure to address cancer.
- Trauma cases: Any patient who is admitted to the hospital and has an included procedure to address a traumatic injury.
- Patient is under 10 years of age.
- Multiple MBSAQIP assessed cases within 30 days: Any patient who had an MBSAQIP assessed procedure entered within the previous 30 days at the center, the additional metabolic or bariatric procedure performed within 30 days is only entered as a reoperation or intervention. Only one MBSAQIP procedure can be entered into the data registry per patient, per 30 days, for a center.

Hospital Exclusion Criteria

In addition to the case inclusion/exclusion criteria, center inclusion/exclusion criteria are also imposed. To maintain the highest level of data quality, only cases that are eligible for the MBSAQIP Semiannual Report (SAR) 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 center's cases are not SAR-eligible and therefore may be excluded from the PUF if the center meets any of the following criteria:

- 30-day follow-up rate is under 80% for the SAR timeframe
- Data Integrity Audit disagreement rate is over 5%
- The MBSCR(s) at the center does not successfully complete the annual MBSCR Certification Exam
- The center is found not to be in compliance with MBSAQIP Standard 6, "Data Collection"

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). The following items represent the most salient limitations of the data:

- While the sex and race distributions are reasonably representative of the national surgery patient population, only patients over the age of 10 are available for assessment, so the age distribution is somewhat truncated. Patients over the age of 80 also have their ages de-identified in the PUF (age is set to missing with an indicator variable included to identify patients over the age of 80).
- 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 are recoded into Days to Discharge from Hospital Admit).
- In order to comply with the Participation Agreement (PA) that is agreed to between the ACS and participating centers, facility identifiers as well as geographic information regarding the case have been removed. The PA stipulates that the ACS does not identify participating centers. Facility 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 centers that are participating in the MBSAQIP and do not represent a statistically valid nationally representative sample.
- Many patients do not receive all possible preoperative laboratory tests, so some of these variables have a high percentage of missing values (10% to 30%, 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 Rasa Krapikas, MS, MBSAQIP Data Registry Manager, at rkrapikas@facs.org.

8. Frequently Asked Questions

Request Process

Q: Who has access to this file?

A: Any individual from an actively participating MBSAQIP center will be given access to the file following completion of the PUF Data Use Agreement and a short set of questions that are available on the website.

Q: Is the file available to individuals from nonparticipating centers?

A: At this time the data files are only available to individuals at MBSAQIP participating centers.

Q: Is the PUF only available to the MBSAQIP-accredited centers?

A: The only requirement is that centers must be actively participating in the MBSAQIP either as a data collection or accredited center. PUF access is not contingent on accreditation status.

Q: I am at a participating MBSAQIP center and would like to work on a research project with others from a different center that is <u>not</u> participating. Will I be allowed to do that?

A: No. At this time use of the file is restricted to individuals at participating MBSAQIP centers

Q: How do I obtain a copy of this file?

A: Please see the "Data Request Process" on page 1 of this document for a step-by-step approach on how to do so.

Contents of the Files

Q: What is in each file?

A: Each file contains Health Insurance Portability and Accountability Act (HIPAA) deidentified data from centers participating in the MBSAQIP that were eligible for the corresponding SAR period. See the PUF User Guide Table in Section 9 of this document for a list.

Q: What procedures (CPTs) are included in the PUF?

A: See Appendix B: Case Inclusion and Follow-up within the MBSAQIP Data Registry Operations Manual for a listing of procedure types. Any primary or revisional case that meets inclusion criteria for creation as a "New Case" is included in the PUF.

Q: Are revisional procedures included in the PUF?

A: Yes. All cases that meet inclusion criteria for creation as a "New Case" (see *Appendix B: Case Inclusion and Follow-up within the MBSAQIP Data Registry Operations Manual*) are included in the PUF.

Q: Does the PUF contain long-term (1 year, 2 year, 3 year, etc.) outcomes?

A: At this time the 2016 PUF only contains 30-day outcomes.

Q: How is the PUF different from the SAR?

A: The Main PUF is a raw, flat file of HIPAA-compliant variables captured within the data registry. The data has been cleaned (e.g., removal of invalid dates, truncation of variable bounds, etc.), but no analysis (e.g., risk adjustment, quality assessments, etc.) has been performed.

Q: Can we publish data from the PUF?

A: Yes. Please see the terms of the PUF Data Use Agreement within the PUF request portal.

Q: Can we publish data from the PUF individually or collaboratively?

A: Pursuant to the MBSAQIP PUF Data Use Agreement, centers will not grant access to or share the PUF either in its entirety or as a subset to any party who is not an employee of the participating center at which the Data Recipient is employed, and centers will not sublease or permit other parties to use the PUF without advance written approval of the ACS MBSAQIP.

Q: Are other MBSAQIP PUF data sets available?

A: Yes, the 2015 PUF was the first MBSAQIP PUF available.

Q: Are center identifiers included in the database?

A: At this time we do not provide any geographic or center-specific identification. We took this approach to ensure the privacy of both the participating MBSAQIP centers 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 centers 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 year of operation) for dates directly related to an individual.

Q: I am the MBS Director from a center that has records in the PUF and would like to know which specific records are ours.

A: At this time we do not provide center identification of any cases in the PUF, even self-identification.

Values in the Data

Q: Why is age missing for 59 records in the main dataset?

A: Records will have a missing value for age if the calculated age of the patient was less than 10 years or greater than 80 years.

- Q: Approximately 1% of records in the main dataset are missing a pre-op BMI measurement. Why is that?
- A: Records will have a missing pre-op BMI measurement (either closest to surgery or highest recorded within one year prior to the surgery) if the pre-op BMI was unknown or the calculated pre-op BMI was less than 15 or greater than 150.
- Q: Some of the duration variables (e.g., Days from Operation Date to Readmission, Days from Operation Date to Reoperation, etc.) have unknown durations. Why is that?
- A: Records will have unknown durations for duration variables if an unknown or invalid date was entered which inhibited the calculation of duration. The duration (i.e., number of days) will be missing for such records.
- Q: Some of the required variables have missing values. Why is that?
- A: In the processing of large amounts of data, a small percentage of descriptions or data fields are inadvertently removed through either software glitches, automated uploader issues, or data entry errors. The program continues to improve the data collection software to minimize the potential for such issues and errors.

File Formats

- Q: In what file formats are the data available?
- A: The datasets are made available as tab delimited TXT files, SPSS data files, or SAS data files.
- Q: Do you provide training on how to use these file formats?
- A: MBSAQIP does not provide training, instruction, or guidance in the use of statistical analysis software.

General

- Q: As an MBSAQIP Accredited Center, do we have any obligation to request or use the PUF?
- A: No. The PUF is solely a benefit of participation for centers who are interested in using the data for research purposes. There are no PUF requirements related to your center's MBSAQIP Accreditation status.

9. PUF User Guide Table

The PUF User Guide Table provides a variable-by-variable description for each of the five datasets available in the PUF. This table contains a column titled "Page Number in Variables and Definitions." To provide investigators with ready access to complete and authoritative variable definitions, the "Page Number in Variables and Definitions" column contains the page number that will locate the complete definition in the MBSAQIP PUF Variables and Definitions Manual.

The MBSAQIP PUF Variables and Definitions Manual is derived directly from Chapter 4 of the MBSAQIP Operations Manual - the authoritative variable definition reference manual used by the Metabolic and Bariatric Surgical Clinical Reviewers (MBSCRs). Please be aware that these definitions are year specific, though dramatic changes are rare. Investigators receiving the PUF will have the opportunity to download the PUF Variables and Definitions Manual corresponding to the specific PUF year.

The PUF User Guide Table also contains a column titled "Search Term in Variables and Definitions." As an alternative to searching for variable definitions by page number in the *PUF Variables and Definitions Manual*, users can copy the entire text within an individual cell from the "Search Term in Variables and Definitions" column in the PUF User Guide Table, and paste it into a search field (you can create a search field by simultaneously hitting Ctrl and F on your keyboard) in the *PUF Variables and Definitions Manual*. Once the text is copied into the search field and enter is hit, you will see the variable definition and other information pertinent to that particular variable. Appropriate definitions are provided in the "Search Term in Variables and Definitions" column for those variables that are constructed specifically for the PUF and do not exist in Chapter 4 of the MBSAQIP Operations Manual.

The *PUF Variables and Definitions Manual* will be made available to you for download with the rest of your requested PUF files. Data Use Agreements apply to the use and distribution of the *PUF Variables and Definitions Manual*, as well as all PUF datasets.

Variable added in 2016 Main Variable added in October 2018 Update

Position #	Variable Name	Data	Variable Label	Search Term in Variables and Defintions	Page Number in	Variable Options	Comments
	Tanabio Hamo	Type	rando Edou		Variables and	Turiable options	Commonto
		.,,,,			Defintions		
					Deminions		
	CASEID		Case Identification Number	Each case or record in the database has a unique CaseID number.			
	SEX		Sex	Variable Name: Gender	2	Male; Female	
	AGE	Num	Age	Patient's age at time of initial bariatric or metabolic surgery, calculated from Date of Birth and	3		Values capped between 10 and 80
				Operation date			
	ageGT80	Char	Age Greater Than 80 Years	Indicator for patients with recorded age greater than 80		Yes; No	
	RACE PUF	Char	Race	Variable Name: Race	4	White	
	_					Black or African American	
						American Indian or Alaska Native	
						Native Hawaiian or Other Pacific Islander	
						Asian	
						Unknown	
	HISPANIC	Char	Hispanic Ethnicity	Variable Name: Hispanic Ethnicity	5	Yes; No; Unknown	
	CPT		CPT principal operative procedure	Variable Name: CPT® (Current Procedural Terminology) Code for the Principal Operative	6	1 65, 140, OTIKIOWII	
	OF I	Cilai	CF i principal operative procedure	Procedure	o .		
				Fiocedure			
	OPTIMILIOTED DELICONIL		D 11 10 1 E				
	CPTUNLISTED_REVCONV		Revision/Conversion Flag	Variable Name: Revision/Conversion Principal Operative Procedure	8	0 = No; 1 = Yes	
	CPTUNLISTED_GASBYPASS		Miniloop Gastric Bypass Flag	Variable Name: Mini-Loop Gastric Bypass (MGB) Principal Operative Procedure	9	0 = No; 1 = Yes	
	CPTUNLISTED_GASPLICATION		Gastric Plication Flag	Variable Name: Gastric Plication Principal Operative Procedure	10	0 = No; 1 = Yes	
	CPTUNLISTED_ENDOTHER		Endoscopic Therapy Flag	Variable Name: Endoscopic Therapy Principal Operative Procedure	11	0 = No; 1 = Yes	
	CPTUNLISTED_OTHER	Num	Other Flag	Variable Name: Other Principal Operative Procedure	13	0 = No; 1 = Yes	
	CPTUNLISTED_BALLOON	Num	Intragastric Balloon Flag	Variable Name: Intragastric Balloon	12	0 = No; 1 = Yes	
, <u> </u>	CPTUNLISTED_140101	Char	CPT when Principal CPT entered is	Variable Name: CPT® (Current Procedural Terminology) Code for Revisions/Other Reasons	14		
	<u> </u>		unlisted (43659 or 43999)				
5	STAPLING_PROC	Char	Stapling Procedure	Variable Name: Is this a Stapling Procedure? (Bariatric Stapling Procedures)	59	Yes; No	
1	GERD	Char	Pre-Op GERD requiring medication	Variable Name: Gastroesophageal Reflux Disease (GERD) Requiring Medication (within 30	27	Yes; No	
	1		l ' · · · · ·	days prior to surgery)			
	MOBILITY_DEVICE	Char	Patient's ambulation limited most or all of	Variable Name: Preoperative Is the Patient's Ambulation Limited Most or all of the Time	28	Yes; No	
			the time pre-op	,		1 '	
	MI ALL HISTORY	Char	History of MI	Variable Name: History of Myocardial Infarction	29	Yes; No	
	PTC	Char	Previous PCI/PTCA	Variable Name: Previous PCI/PTCA	30	Yes: No	
	PCARD	Char	Previous Cardiac Surgery	Variable Name: Previous Cardiac Surgery	31	Yes: No	
	LID	Char	Pre-Op Hypertension requiring medication	Variable Name: Preoperative Hypertension Requiring Medication	32	Yes; No	
	nie .	Chai	Pre-Op Hypertension requiring medication	variable Name. Preoperative hypertension Requiring Medication	32	res, No	
	HTN_MEDS	Char	North and the section of the section of	Mariable Maria - Danas and a Mariaba - A And Discontinuous Mariana	00		
	HIN_MEDS	Char	Number of Hypertensive Medications	Variable Name: Preoperative Number of Anti-Hypertensive Medications	33	0	
						1	
						2	
						3+	
	HYPERLIPIDEMIA		Pre-Op Hyperlipidemia	Variable Name: Preoperative Hyperlipidemia Requiring Medication	34	Yes; No	
	HGT	Num	Height	Variable Name: Preoperative Height	17		
	HGTUNIT	Char	Height Unit	Height Measurement Units	17	cm	
	10.01.	Ona.	I loight Gritt	Trongin mode distribution of the	l.,	in	
	WGT_HIGH_BAR	Nivon	Highest pre-op weight recorded	Variable Name: Highest Recorded Weight within 1 year at the Program	18		
		Num			10	1	
	WGT_HIGH_UNIT_BAR	Char	Highest pre-op weight recorded unit	Highest Pre-op Weight Measurement Units	18	kg	
						lbs	
	WGT_CLOSEST	Num	Pre-Op Weight closest to bariatric surgery	Variable Name: Weight Closest to Surgery	19		
	WGTUNIT_CLOSEST	Char	Pre-op Weight closest to bariatric surgery	Closest to Surgery Pre-op Weight Measurement Units	19	kg	
	ĺ		unit			lbs	
	ВМІ	Num	Pre-op BMI closest to bariatric surgery	Calculated from pre-op weight closest to surgery and height			Values capped between 15 and 150
	BMI_HIGH_BAR	Num	Highest Recorded Pre-op BMI	Calculated from highest recorded pre-op weight and height			Values capped between 15 and 150
	HISTORY_DVT	Char	Pre-Op Vein Thrombosis Requiring	Variable Name: Preoperative Vein Thrombosis Requiring Therapy	35	Yes; No	
	_	1	Therapy				
	VENOUS_STASIS	Char	Pre-Op Venous Stasis	Variable Name: Preoperative Venous Stasis	36	Yes; No	
	DIALYSIS	Char	Pre-Op Requiring or on dialysis	Variable Name: Preoperative Currently Requiring or On Dialysis	38	Yes; No	
	RENAL_INSUFFICIENCY	Char	Pre-Op Renal Insufficiency	Variable Name: Preoperative Renal Insufficiency	39	Yes; No	
	THERAPEUTIC ANTICOAGULATIO		Pre-Op Therapeutic Anticoagulation	Variable Name: Preoperative Therapeutic Anticoagulation	42	Yes; No	
	N	1			1		
	PREVIOUS_SURGERY	Char	Previous Obesity surgery/foregut surgery	Variable Name: Previous Obesity Surgery/Foregut Surgery	43	Yes: No	
	DIABETES	Char			20	Non-Insulin	
	DIADETES	Olidi	Pre-Op Diabetes Mellitus	Variable Name: Preoperative Diabetes Mellitus Requiring Therapy with Non-Insulin Agents or Insulin	20	Insulin	⊣
	ĺ			III Sulli		No No	
	SMOKER	Char	Current Concluse within 1 year	Variable Name: Current Smoker within One Year	21	Yes: No	
			Current Smoker within 1 year				
	FUNSTATPRESURG	Char	Pre-Op Functional Health Status	Variable Name: Preoperative Functional Health Status	22	Independent	—
	1					Partially Dependent	—
	ĺ					Totally Dependent	
					1	Unknown	
	COPD		Pre-Op history of COPD	Variable Name: History of Severe COPD	23	Yes; No	
	OXYGEN_DEPENDENT		Pre-Op Oxygen Dependent	Variable Name: Preoperative Oxygen Dependent	24	Yes; No	
	HISTORY_PE	Char	History of PE	Variable Name: History of Pulmonary Embolism	25	Yes; No	
	SLEEP_APNEA	Char	Pre-Op Obstructive Sleep Apnea	Variable Name: Preoperative Obstructive Sleep Apnea Requiring CPAP/BiPAP (or similar	26	Yes; No	
		<u></u>	<u> </u>	technology)	<u> 1 </u>	<u> </u>	
		-	D 0 0: 110		40	V N-	
5	CHRONIC_STEROIDS	Char	Pre-Op Steroid/Immunosuppressant Use	Variable Name: Preoperative Steroid/Immunosuppressant Use for a Chronic Condition	40	Yes; No	

Position #																					
	Variable Name	Data	Variable Label	Search Term in Variables and Defintions	Page Number in	Variable Options	Comments														
		Type			Variables and																
					Defintions																
6	IVC FILTER	01	Pre-Op IVC Filter	Variable Name: Preoperative Does the patient have an IVC filter	37	Yes: No															
<u> </u>					37		KINO EUTED INCLUS AND														
/ IVC_TIMING	IVC_TIMING	Char	Pre-Op IVC Filter Timing	IVC Filter Timing	37	IVC filter placed in anticipation of the metabolic or	If IVC_FILTER = "No" then this variable will be														
						bariatric procedure	missing														
						IVC filter was preexisting															
						Unknown															
48	ALBUMIN	Num	Pre-op Albumin Lab Value	Variable Name: Preoperative Lab Value Information	44		Values capped between 1 and 10														
19	DPRALBUM	Num	Days from Albumin Pre-Op Labs to	Days from pre-operative Albumin to initial bariatric surgery operation date			Values capped between 0 and 90														
			Operation	,, , , , , , , , , , , , , , , , , , , ,																	
60	HCT	Num	Pre-op Hematocrit Lab Value	Variable Name: Preoperative Lab Value Information	44		Values capped between 8 and 60														
1	DPRHCT	Num	Days from Hematocrit Pre-Op Labs to	Days from pre-operative Hematocrit to intitial bariatric surgery operation date	1		Values capped between 0 and 90														
•	BI KING I	Num	Operation	Days non pre-operative rionatoent to initial banatic surgery operation date			values capped between 6 and 56														
2	ASSISTANT_TRAINING_LEVEL	Char	First Assist Training Level	Variable Name: First Assistant Principal Operative Procedure	45	None (no assist or scrub tech/RN only)															
2	ASSISTANT_TRAINING_ELVEL	Cital	r iist Assist Training Level	Valiable Name. Plist Assistant Principal Operative Procedure	45																
						Physician Assistant/Nurse Practitioner/Registerd Nurse First Assist															
						Resident (PGY 1-5+)															
						Minimally Invasive Surgery Fellow															
						Attending - Weight Loss Surgeon															
						Attending - Other															
3	PRIORITY	Char	Emergency Case	Variable Name: Emergency Case Principal Operative Procedure	46	Yes; No															
4	SURGICAL_APPROACH	Char	Surgical Approach	Variable Name: Surgical Approach Principal Operative Procedure	48	N.O.T.E.S. (Natural Orifice Transluminal Endoscopic															
	-	1	I	- '' '		Single Incision															
	1	1	1			Robotic-assisted															
	1	1	1			Conventional laparoscopic (thoracoscopic)															
	l	1																			
	1	1	1			Laparoscopic assisted (thoracoscopic assisted)															
	l	1																			
						Hand-assisted															
						Open															
5	APPROACH_CONVERTED	Char	Procedure converted to another approach	Variable Name: Was the Principal Operative Procedure converted to another approach?	49	Yes; No															
				Tallada Name and American Special Control of Cartesian Control of Cartes	,																
6	CONVERSION	Char	Char	Char	Char	Char	Char	If approach was converted, what was the	Variable Name: Was the Principal Operative Procedure converted to another approach?	49	Single Incision	If APPROACH_CONVERTED = "No" then this									
			final operative approach			Robotic-assisted	variable will be missing														
						Conventional laparoscopic (thoracoscopic)	variable will be missing														
						Laparoscopic assisted (thoracoscopic assisted)															
						Euparoccopio acciotca (unoraccocopio acciotca)															
																				Hand-assisted	
	DOLLOIE 017E	Nicore	Sleeve Bougie Size	Variable Name: Bougie (or sizing device) size for Gastric Sleeve	F0	Open															
-																					
57	BOUGIE_SIZE	Num			53																
57 58	BOUGIE_SIZE_UNITS	Num	Sleeve Bougie Size Units	Bougle Size Measurement Units	53	1 = French															
58	BOUGIE_SIZE_UNITS	Num	Sleeve Bougie Size Units	Bougie Size Measurement Units	00	1 = French 2 = cm															
57 58 59	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE	Num Num	Sleeve Bougle Size Units Sleeve Distance to Pylorus	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve	54	2 = cm															
58	BOUGIE_SIZE_UNITS	Num	Sleeve Bougie Size Units	Bougie Size Measurement Units	00																
58	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT	Num Num Char	Sleeve Bougie Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve	54	2 = cm Yes; No															
58 59 60	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE	Num Num Char	Sleeve Bougle Size Units Sleeve Distance to Pylorus	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve	54	2 = cm															
9 0	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW	Num Num Char	Sleeve Bougie Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve	54 55	2 = cm Yes; No															
9 0	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT	Num Num Char	Sleeve Bougie Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve	54 55 56	2 = cm Yes; No Yes; No															
9 0 1 2	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED	Num Char Char Char	Sleeve Bougie Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation	54 55 56	2 = cm Yes; No Yes; No Yes; No															
9 0 1 2	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW	Num Num Char	Sleeve Bougie Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve	54 55 56	2 = cm Yes; No Yes; No Yes; No Yes; No Yes, routine															
9 0 1 2	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED	Num Char Char Char	Sleeve Bougie Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation	54 55 56	2 = cm Yes; No Yes; No Yes; No Yes, routine Yes, selective															
8 9 0 1 2 3	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY	Num Char Char Char Char	Sleeve Bougie Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation Variable Name: Was a Swallow Study Performed the Day of or the Day After the Procedure	54 55 56	2 = cm Yes; No Yes; No Yes; No Yes, routine Yes, selective No															
8 9 0 1 2 3	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED	Num Char Char Char	Sleeve Bougle Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation	54 55 56	2 = cm Yes; No Yes; No Yes; No Yes; No Yes, routine Yes, selective No Yes															
8 9 0 0 1 1 2 2	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY	Num Char Char Char Char	Sleeve Bougie Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation Variable Name: Was a Swallow Study Performed the Day of or the Day After the Procedure	54 55 56	2 = cm Yes; No Yes; No Yes; No Yes, routine Yes, selective No Yes No															
8 9 0 1 1 2 3	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED	Num Char Char Char Char Char	Sleeve Bougie Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked w/provocative test to assess for leak	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation Variable Name: Was a Swallow Study Performed the Day of or the Day After the Procedure Variable Name: Was the Anastomosis Checked with a Provocative Test to Assess for a Leak	54 55 56 50 51	2 = cm Yes; No Yes; No Yes; No Yes, routine Yes, selective No Ves No No No No No No No No No N															
8 9 0 1 2 3	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY	Num Char Char Char Char	Sleeve Bougle Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation Variable Name: Was a Swallow Study Performed the Day of or the Day After the Procedure	54 55 56	2 = cm Yes; No Yes; No Yes; No Yes, routine Yes, selective No No N/A ASA 1 - No Disturb															
99 00 11 22 3	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED	Num Char Char Char Char Char	Sleeve Bougie Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked w/provocative test to assess for leak	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation Variable Name: Was a Swallow Study Performed the Day of or the Day After the Procedure Variable Name: Was the Anastomosis Checked with a Provocative Test to Assess for a Leak	54 55 56 50 51	2 = cm Yes; No Yes; No Yes; No Yes, routine Yes, selective No Yes No No No NA ASA 1 - No Disturb ASA 2 - Mild Disturb															
8 9 0 1 2 3	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED	Num Char Char Char Char Char	Sleeve Bougie Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked w/provocative test to assess for leak	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation Variable Name: Was a Swallow Study Performed the Day of or the Day After the Procedure Variable Name: Was the Anastomosis Checked with a Provocative Test to Assess for a Leak	54 55 56 50 51	Z = cm Yes; No Yes; No Yes, No Yes, soutine Yes, selective No No NA ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance															
99 00 11 22 3	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED	Num Char Char Char Char Char	Sleeve Bougie Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked w/provocative test to assess for leak	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation Variable Name: Was a Swallow Study Performed the Day of or the Day After the Procedure Variable Name: Was the Anastomosis Checked with a Provocative Test to Assess for a Leak	54 55 56 50 51	2 = cm Yes; No Yes; No Yes; No Yes, routine Yes, selective No Yes No No No NA ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Ite Threatening															
8 9 0 1 2 3	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED	Num Char Char Char Char Char	Sleeve Bougie Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked w/provocative test to assess for leak	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation Variable Name: Was a Swallow Study Performed the Day of or the Day After the Procedure Variable Name: Was the Anastomosis Checked with a Provocative Test to Assess for a Leak	54 55 56 50 51	2 = cm Yes; No Yes; No Yes; No Yes, routine Yes, selective No No Yes No NA ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbbund															
99 00 11 22 3	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED	Num Char Char Char Char Char	Sleeve Bougie Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked w/provocative test to assess for leak	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation Variable Name: Was a Swallow Study Performed the Day of or the Day After the Procedure Variable Name: Was the Anastomosis Checked with a Provocative Test to Assess for a Leak	54 55 56 50 51	2 = cm Yes; No Yes; No Yes; No Yes, routine Yes, selective No Yes No No No NA ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Ite Threatening															
8 9 0 1 2 3	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED	Num Char Char Char Char Char Char	Sleeve Bougle Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked w/provocative test to assess for leak ASA Class	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation Variable Name: Was a Swallow Study Performed the Day of or the Day After the Procedure Variable Name: Was the Anastomosis Checked with a Provocative Test to Assess for a Leak Variable Name: ASA Classification Principal Operative Procedure	54 55 56 50 51	2 = cm Yes; No Yes; No Yes; No Yes, routine Yes, selective No No Yes No NA ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbbund															
8 9 0 1 1 2 3 3	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1	Num Char Char Char Char Char Char	Sleeve Bougle Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked w/provocative test to assess for leak ASA Class Other CPT 1	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation Variable Name: Was a Swallow Study Performed the Day of or the Day After the Procedure Variable Name: Was the Anastomosis Checked with a Provocative Test to Assess for a Leak Variable Name: ASA Classification Principal Operative Procedure	54 55 56 50 51	2 = cm Yes; No Yes; No Yes; No Yes, routine Yes, selective No No Yes No NA ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbbund															
9 0 1 2 2 3 4	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS	Num Char Char Char Char Char Char	Sleeve Bougle Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked w/provocative test to assess for leak ASA Class	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation Variable Name: Was a Swallow Study Performed the Day of or the Day After the Procedure Variable Name: Was the Anastomosis Checked with a Provocative Test to Assess for a Leak Variable Name: ASA Classification Principal Operative Procedure Variable Name: Other Procedure Variable Name: Other Procedure	54 55 56 50 51	2 = cm Yes; No Yes; No Yes; No Yes, routine Yes, selective No No Yes No NA ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbbund															
9 0 1 1 2 3 3 4	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3	Num Char Char Char Char Char Char Char Char	Sleeve Bougie Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked w/provocative test to assess for leak ASA Class Other CPT 1 Other CPT 2 Other CPT 2	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation Variable Name: Was a Swallow Study Performed the Day of or the Day After the Procedure Variable Name: Was the Anastomosis Checked with a Provocative Test to Assess for a Leak Variable Name: ASA Classification Principal Operative Procedure Variable Name: Other Procedure Variable Name: Other Procedure Variable Name: Other Procedure	54 55 56 50 51	2 = cm Yes; No Yes; No Yes; No Yes, routine Yes, selective No No Yes No NA ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbbund															
9 0 1 1 2 3 4 4 5	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT4	Num Char Char Char Char Char Char Char Char	Sleeve Bougle Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked w/provocative test to assess for leak ASA Class Other CPT 1 Other CPT 2 Other CPT 3 Other CPT 3	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation Variable Name: Was a Swallow Study Performed the Day of or the Day After the Procedure Variable Name: Was the Anastomosis Checked with a Provocative Test to Assess for a Leak Variable Name: ASA Classification Principal Operative Procedure Variable Name: Other Procedure Variable Name: Other Procedure Variable Name: Other Procedure Variable Name: Other Procedure	54 55 56 50 51	2 = cm Yes; No Yes; No Yes; No Yes, routine Yes, selective No No Yes No NA ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbbund															
9 0 1 1 2 3 3 4 4 5 5	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT4 OTHCPT5	Num Char Char Char Char Char Char Char Char	Sleeve Bougle Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked w/provocative test to assess for leak ASA Class Other CPT 1 Other CPT 2 Other CPT 3 Other CPT 3 Other CPT 4 Other CPT 5	Bougie Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation Variable Name: Was a Swallow Study Performed the Day of or the Day After the Procedure Variable Name: Was the Anastomosis Checked with a Provocative Test to Assess for a Leak Variable Name: ASA Classification Principal Operative Procedure Variable Name: Other Procedure	54 55 56 50 51	2 = cm Yes; No Yes; No Yes; No Yes, routine Yes, selective No No Yes No NA ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbbund															
9 0 1 2 3 3 4 4 5 6 7 8 9 9	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT3 OTHCPT4 OTHCPT5 OTHCPT6	Num Num Char Char Char Char Char Char Char Char	Sleeve Bougle Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked w/provocative test to assess for leak ASA Class Other CPT 1 Other CPT 2 Other CPT 3 Other CPT 3 Other CPT 4 Other CPT 6	Bougle Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation Variable Name: Was a Swallow Study Performed the Day of or the Day After the Procedure Variable Name: Was the Anastomosis Checked with a Provocative Test to Assess for a Leak Variable Name: ASA Classification Principal Operative Procedure Variable Name: Other Procedure	54 55 56 50 51	2 = cm Yes; No Yes; No Yes; No Yes, routine Yes, selective No No Yes No NA ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbbund															
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58	BOUGIE_SIZE_UNITS PYLORUS_DISTANCE STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT3 OTHCPT6 OTHCPT7 OTH	Num Char Char Char Char Char Char Char Char	Sleeve Bougie Size Units Sleeve Distance to Pylorus Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked w/provocative test to assess for leak ASA Class Other CPT 1 Other CPT 2 Other CPT 3 Other CPT 3 Other CPT 4 Other CPT 5 Other CPT 7 Other CPT 9 Other CPT 1 Concurrent CPT 3 Concurrent CPT 2 Concurrent CPT 2 Concurrent CPT 3 Concurrent CPT 3 Concurrent CPT 5 Concurrent CPT 6 Concurrent CPT 7	Bougle Size Measurement Units Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation Variable Name: Was a Swallow Study Performed the Day of or the Day After the Procedure Variable Name: Was the Anastomosis Checked with a Provocative Test to Assess for a Leak Variable Name: ASA Classification Principal Operative Procedure Variable Name: Other Procedure Variable Name: Concurrent Procedure	54 55 56 50 51 51 52 47	2 = cm Yes; No Yes; No Yes; No Yes, routine Yes, selective No No No ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbbund															

Position #							
	Variable Name	Data Type	Variable Label	Search Term in Variables and Defintions	Page Number in Variables and Defintions	Variable Options	Comments
86	DTOP	Num	Days to operation from hospital admit	Days to initial bariatric or metabolic surgery operation date from hospital admission date			Values capped between 0 and 30
			Days to discharge from operation	Days to hospital discharge from initial bariatric or metabolic surgery date			Values capped between 0 and 150
88	DTDISCH_ADMIT	Num	Days to discharge from hospital admit	Days to hospital discharge from hospital admission date			Values capped between 0 and 150
		Num	Days to death from operation	Days to death from initial bariatric surgery operation date			Values capped between 0 and 30
90	DTASSESS_OP	Num	Days to Post-Op assessment from	Days to post-operative assessment from intiial bariatric surgery operation date			Values capped between 0 and 30
			operation				
٠.	OPYEAR	Num	Year of Operation	Year of initial bariatric or metabolic surgery			
		Num	Operation Length (minutes)	Length of baratric/metabolic surgery, in minutes	ļ.,		Values capped between 1 and 720
93	ANESTYPE	Char	Anesthesia Type	Variable Name: Anesthesia Type	15	Monitored anesthesia care (MAC)/IV Sedation	If CPTUNLISTED_BALLOON = 0 then this variable
						General	will be missing
						Unknown	4
						Other	4
94	SURGSPECIALTY_BAR	01	Mandani and all the of the all the second	Verlebie News Medical Consiste	16	None	
94	SURGSPECIALTY_BAR	Char	Medical specialty of the physician	Variable Name: Medical Specialist	16	Metabolic and Bariatric Surgeon General Surgeon	4
			performing the principal operative procedure				
			procedure			Gastroenterologist Other Healthcare Professional	╡
						Interventional Radiologist	╡
95	ACTERENALFAILURE	Char	Acute Renal Failure	Variable Name: Postoperative Progressive Renal Insufficiency/ Postoperative Acute Renal	77	Yes: No	+
				Failure Requiring Dialysis			
	CARDIACARRESTCPR	Char	Intra-Op or Post-Op Cardiac Arrest Requiring CPR	Variable Name: Intraoperative or Postoperative Cardiac Arrest Requiring CPR	82	Yes; No	
	COMA24HOURS	Char	Coma > 24 hours	Variable Name: Postoperative Coma >24 Hours	95	Yes; No	ļ
	CVA	Char	Stroke/CVA	Variable Name: Intraoperative or Postoperative Stroke/Cerebral Vascular Accident (CVA)	81	Yes; No	
		Num	Number of Post-Op Deep Incisional SSI occurrences	Variable Name: Deep Incisional SSI	63		
		Char	Deep Incisional SSI PATOS	Variable Name: Deep Incisional SSI – PATOS	64	Yes; No	
101	MYOCARDIALINFR	Char	Intra-op or Post-op Myocardial Infarction	Variable Name: Intraoperative or Postoperative Myocardial Infarction	83	Yes; No	
102	POSTOPVENTILATOR	Num	Number of On Ventilator > 48 hours occurrences	Variable Name: Postoperative On Ventilator > 48 Hours	75		
103	VENTPATOS	Char	Ventilator > 48 hours PATOS	Variable Name: On Ventilator > 48 Hours – PATOS	76	Yes; No	
104	POSTOPORGANSPACESSI	Num	Number of Post-Op Organ/Space SSI	Variable Name: Organ/Space SSI	65		
			occurrences				
		Char	Organ/Space SSI PATOS	Variable Name: Organ/Space SSI – PATOS	67	Yes; No	
106	POSTOPPNEUMONIA	Num	Number of Post-Op Pneumonia	Variable Name: Postoperative Pneumonia	69		
			occurrences				
		Char	Pneumonia PATOS	Variable Name: Pneumonia – PATOS	71	Yes; No	
		Char	Peripheral Nerve Injury	Variable Name: Postoperative Peripheral Nerve Injury	96	Yes; No	
	PROGRSRENALINSUF	Char	Progressive Renal Insufficiency	Variable Name: Postoperative Progressive Renal Insufficiency/ Postoperative Acute Renal Failure Requiring Dialysis	77	Yes; No	
			Pulmonary Embolism	Variable Name: Postoperative Pulmonary Embolism	74	Yes; No	
	POSTOPSEPSIS	Num	Number of Post-Op Sepsis Occurrences	Variable Name: Postoperative Sepsis	89		
112	SEPSISPATOS	Char	Sepsis PATOS	Variable Name: Sepsis – PATOS	92	Yes; No	
113	POSTOPSEPTICSHOCK	Num	Number of Post-Op Septic Shock	Variable Name: Postoperative Septic Shock	93		
	0500100101700	01	Occurrences	N		N N	<u> </u>
114 115	SEPSHOCKPATOS	Char	Septic Shock PATOS	Variable Name: Septic Shock – PATOS	94	Yes; No	<u> </u>
	POSTOPSUPERFICIALINCISIONAL SSI	Num	Number of Post-Op Superficial Incisional SSI occurrences	Variable Name: Superficial Incisional SSI	60		
	001	Char	Superficial Incisional SSI PATOS	Variable Name: Superficial Incisional SSI – PATOS	62	Yes; No	+
	TRANSFINTOPPSTOP	Char	Transfusion Intra-op/Post-Op (72h of	Variable Name: Transfusion Intra/Postop (RBC within the First 72 Hrs of Surgery Start Time)	84	Yes: No	+
	TIGHOF INTOFFS TOP	Oridi	surgery start time)	variable reams. Hansiusion mitarrostop (NDC Within the Filst 12 fils of Surgery Start Time)	0-	163, 140	
118	BLEEDING_UNITS	Num	Number of Units transfused (1-200)	Variable Name: Transfusion Intra/Postop (RBC within the First 72 Hrs of Surgery Start Time)	84		Values capped between 1 and 20. If TRANSFINTOPPSTOP = "No" then this variable will
ļ							be missing
			Unplanned Intubation	Variable Name: Intraoperative OR Postoperative Unplanned Intubation	72	Yes; No	
	UNPLINTUBATION			Variable Name: Postoperative Urinary Tract Infection	78		1
	UNPLINTUBATION POSTOPUTI	Char Num	Number of Post-Op Urinary Tract	variable Name. Postoperative Officially Tract Infection	70		
120	POSTOPUTI	Num	Infection occurrences		70		
120 121	POSTOPUTI UTIPATOS	Num Char	Infection occurrences Urinary Tract Infection PATOS	Variable Name: UTI – PATOS	80	Yes; No	
120 121 122	POSTOPUTI UTIPATOS VEINTHROMBREQTER	Num Char Char	Infection occurrences Urinary Tract Infection PATOS Post-Op Vein Thrombosis Requiring Therapy	Variable Name: UTI – PATOS Variable Name: Postoperative Vein Thrombosis Requiring Therapy	86	Yes; No	
120 121 122 123	POSTOPUTI UTIPATOS VEINTHROMBREQTER WOUNDDISRUPTION	Num Char Char Char	Infection occurrences Urinary Tract Infection PATOS Post-Op Vein Thrombosis Requiring Therapy Wound Disruption	Variable Name: UTI – PATOS Variable Name: Postoperative Vein Thrombosis Requiring Therapy Variable Name: Wound Disruption	86 68	Yes; No Yes; No	
120 121 122 123 124	POSTOPUTI UTIPATOS VEINTHROMBREQTER WOUNDDISRUPTION UNPLANNEDADMISSIONICU30	Char Char Char Char Char	Infection occurrences Urinary Tract Infection PATOS Post-Op Vein Thrombosis Requiring Therapy Wound Disruption Unplanned Admission to ICU within 30 days	Variable Name: UTI – PATOS Variable Name: Postoperative Vein Thrombosis Requiring Therapy Variable Name: Wound Disruption Variable Name: Postoperative Unplanned Admission to ICU within 30 Days	86 68 97	Yes; No Yes; No Yes; No	
120 121 122 123 124 125	POSTOPUTI UTIPATOS VEINTHROMBREQTER WOUNDDISRUPTION UNPLANNEDADMISSIONICU30 CDIFF	Char Char Char Char Char	Infection occurrences Urinary Tract Infection PATOS Post-Op Vein Thrombosis Requiring Therapy Wound Disruption Unplanned Admission to ICU within 30 days Clostridium difficile (C. diff) Colitis	Variable Name: UTI – PATOS Variable Name: Postoperative Vein Thrombosis Requiring Therapy Variable Name: Wound Disruption Variable Name: Postoperative Unplanned Admission to ICU within 30 Days Variable Name: Postoperative Clostridium difficile (C.diff) Colitis	86 68	Yes; No Yes; No Yes; No Yes; No	
120 121 122 123 124 125	POSTOPUTI UTIPATOS VEINTHROMBREQTER WOUNDDISRUPTION UNPLANNEDADMISSIONICU30	Char Char Char Char Char	Infection occurrences Urinary Tract Infection PATOS Post-Op Vein Thrombosis Requiring Therapy Wound Disruption Unplanned Admission to ICU within 30 days	Variable Name: UTI – PATOS Variable Name: Postoperative Vein Thrombosis Requiring Therapy Variable Name: Wound Disruption Variable Name: Postoperative Unplanned Admission to ICU within 30 Days	86 68 97	Yes; No Yes; No Yes; No Yes; No Toxin	If CDIFF = "No" then this variable will be missing
120 121 122 123 124 125	POSTOPUTI UTIPATOS VEINTHROMBREQTER WOUNDDISRUPTION UNPLANNEDADMISSIONICU30 CDIFF	Char Char Char Char Char	Infection occurrences Urinary Tract Infection PATOS Post-Op Vein Thrombosis Requiring Therapy Wound Disruption Unplanned Admission to ICU within 30 days Clostridium difficile (C. diff) Colitis	Variable Name: UTI – PATOS Variable Name: Postoperative Vein Thrombosis Requiring Therapy Variable Name: Wound Disruption Variable Name: Postoperative Unplanned Admission to ICU within 30 Days Variable Name: Postoperative Clostridium difficile (C.diff) Colitis	86 68 97	Yes; No Yes; No Yes; No Yes; No Toxin DNA	If CDIFF = "No" then this variable will be missing
120 121 122 123 124 125	POSTOPUTI UTIPATOS VEINTHROMBREQTER WOUNDDISRUPTION UNPLANNEDADMISSIONICU30 CDIFF	Char Char Char Char Char	Infection occurrences Urinary Tract Infection PATOS Post-Op Vein Thrombosis Requiring Therapy Wound Disruption Unplanned Admission to ICU within 30 days Clostridium difficile (C. diff) Colitis	Variable Name: UTI – PATOS Variable Name: Postoperative Vein Thrombosis Requiring Therapy Variable Name: Wound Disruption Variable Name: Postoperative Unplanned Admission to ICU within 30 Days Variable Name: Postoperative Clostridium difficile (C.diff) Colitis	86 68 97	Yes; No Yes; No Yes; No Yes; No Toxin DNA Other-C. diff	If CDIFF = "No" then this variable will be missing
120 121 122 123 124	POSTOPUTI UTIPATOS VEINTHROMBREQTER WOUNDDISRUPTION UNPLANNEDADMISSIONICU30 CDIFF	Char Char Char Char Char	Infection occurrences Urinary Tract Infection PATOS Post-Op Vein Thrombosis Requiring Therapy Wound Disruption Unplanned Admission to ICU within 30 days Clostridium difficile (C. diff) Colitis	Variable Name: UTI – PATOS Variable Name: Postoperative Vein Thrombosis Requiring Therapy Variable Name: Wound Disruption Variable Name: Postoperative Unplanned Admission to ICU within 30 Days Variable Name: Postoperative Clostridium difficile (C.diff) Colitis	86 68 97	Yes; No Yes; No Yes; No Yes; No Toxin DNA Other-C. diff Uhknown	If CDIFF = "No" then this variable will be missing
120 121 122 123 124 125 126	POSTOPUTI UTIPATOS VEINTHROMBREQTER WOUNDDISRUPTION UNPLANNEDADMISSIONICU30 CDIFF CDIFF_TSTTYPE	Char Char Char Char Char Char	Infection occurrences Urinary Tract Infection PATOS Post-Op Vein Thrombosis Requiring Therapy Wound Disruption Unplanned Admission to ICU within 30 days Clostridium difficile (C. diff) Colitis Type of C. diff Test performed	Variable Name: UTI – PATOS Variable Name: Postoperative Vein Thrombosis Requiring Therapy Variable Name: Wound Disruption Variable Name: Postoperative Unplanned Admission to ICU within 30 Days Variable Name: Postoperative Clostridium difficile (C.diff) Colitis Variable Name: Postoperative Clostridium difficile (C.diff) Colitis	86 68 97 87	Yes; No Yes; No Yes; No Yes; No Toxin DNA Other-C. diff Unknown None	
120 121 122 123 124 125 126	POSTOPUTI UTIPATOS VEINTHROMBREQTER WOUNDDISRUPTION UNPLANNEDADMISSIONICU30 CDIFF CDIFF_TSTTYPE CDIFF_TSTRSLT	Char Char Char Char Char Char Char Char	Infection occurrences Urinary Tract Infection PATOS Post-Op Vein Thrombosis Requiring Therapy Wound Disruption Unplanned Admission to ICU within 30 days Clostridium difficile (C. diff) Colitis Type of C. diff Test performed Result of C. diff Test	Variable Name: UTI – PATOS Variable Name: Postoperative Vein Thrombosis Requiring Therapy Variable Name: Wound Disruption Variable Name: Postoperative Unplanned Admission to ICU within 30 Days Variable Name: Postoperative Unplanned Admission to ICU within 30 Days Variable Name: Postoperative Clostridium difficile (C.diff) Colitis Variable Name: Postoperative Clostridium difficile (C.diff) Colitis	86 68 97	Yes; No Yes; No Yes; No Yes; No Toxin DNA Other-C. diff Unknown None Positive: Negative	If CDIFF = "No" then this variable will be missing
120 121 122 123 124 125 126 127 128	POSTOPUTI UTIPATOS VEINTHROMBREQTER WOUNDDISRUPTION UNPLANNEDADMISSIONICU30 CDIFF CDIFF_TSTTYPE	Char Char Char Char Char Char	Infection occurrences Urinary Tract Infection PATOS Post-Op Vein Thrombosis Requiring Therapy Wound Disruption Unplanned Admission to ICU within 30 days Clostridium difficile (C. diff) Colitis Type of C. diff Test performed	Variable Name: UTI – PATOS Variable Name: Postoperative Vein Thrombosis Requiring Therapy Variable Name: Wound Disruption Variable Name: Postoperative Unplanned Admission to ICU within 30 Days Variable Name: Postoperative Clostridium difficile (C.diff) Colitis Variable Name: Postoperative Clostridium difficile (C.diff) Colitis	86 68 97 87	Yes; No Yes; No Yes; No Yes; No Toxin DNA Other-C. diff Unknown None	

Position #	Variable Name	Data Type	Variable Label	Search Term in Variables and Defintions	Page Number in Variables and Defintions	Variable Options	Comments
130	DEHYD_TRTMT_OUT	Char	Did the patient receive treatment for dehydration (nausea and vomiting, fluid, electrolyte, or nutritional depletion) as an outpatient?	Variable Name: Did the Patient Receive Treatment for Dehydration (Nausea and Vomiting, Fluid, Electrolyte, or Nutritional Depletion) as an Outpatient?	103	Yes; No	If CDIFF = "No" then this variable will be missing
131	DEHYD_NUM_TRTMTS	Num	Number of times the patient received treatment for dehydration (nausea and vomiting, fluid, electrolyte, or nutritional depletion) as an outpatient	Variable Name: Did the Patient Receive Treatment for Dehydration (Nausea and Vomiting, Fluid, Electrolyte, or Nutritional Depletion) as an Outpatient?	103		If CDIFF = "No" then this variable will be missing
132	EMERG_VISIT_OUT	Char	Was the patient seen in an emergency department (ED) which did not result in an inpatient admission?	Variable Name: Was the Patient Seen in any Emergency Department (ED) which did not result in an Inpatient Admission?	104	Yes; No	If CDIFF = "No" then this variable will be missing
133	EMERG_NUM_TIMES	Num		Variable Name: Was the Patient Seen in any Emergency Department (ED) which did not result in an Inpatient Admission?	104		If CDIFF = "No" then this variable will be missing
	DEATH30	Char	Death during Operation (Intra-Op Death) or Post-Op Death within 30 Days of Procedure	Variable Name: Death During Operation (Intraoperative Death) OR Postoperative Death w/in 30 Days of Procedure		Yes; No	
		Char	Death Likely Related to the Operation	Variable Name: Was the Death Likely Related to the Operation	100	Yes; No	
	DEATH_CAUSE_BAR	Char	Most likely cause of death	Variable Name: Most Likely Cause of Death	101	See "Most Likely Cause of Death Guidance Table" on page 101 in Variables and Defintions	
137	DEATHREVIEW_BAR	Char	Death reviewed by the bariatric committee within 60 days of death	Variable Name: Was the Death Reviewed by the Bariatric Committee within 60 Days of Death?	102	Yes; No	
138	DISCHARGE_DESTINATION	Char	Discharge Destination	Variable Name: Hospital Discharge Destination	98	Skilled care, not home	
				5 · · · · · · · · · · · · · · ·		Unskilled facility, not home	
					Ì	Facility which was home	
					Ì	Home	
					Ì	Separate acute care	
					Ì	Rehab	
						Expired Unknown	
139	FOLLOW_30DAYS_BAR	Char	Able to follow the patient for the full 30	Variable Name: Were you able to follow the patient for the full 30 days?	118	Yes; No	
			days			•	
140	R	Char	Exam performed by a bariatric physician or PA/NP	Variable Name: Was the Postoperative Exam Performed by a Bariatric Physician, Nurse Practitioner, or Physician's Assistant?	119	Yes; No	
141	REOP30	Char	At least one reoperation within 30 days of op	Variable Name: Did the Patient have a Reoperation within the 30 Day Postoperative Period?	107	Yes; No	
142	READ30	Char	At least one readmission within 30 days of	Variable Name: Did the Patient have a Hospital Readmission within 30 days of the Principal Procedure?	105	Yes; No	
143	INTV30	Char	At least one intervention within 30 days of		112	Yes; No	
144	ANTICOAGULATION_INITIATED_B AR	Char	Anticoagulation initiated or presumed/confirmed vein thrombosis/PE	Variable Name: Was Anticoagulation Initiated for Presumed/Confirmed Venous Thrombosis/PE Postoperatively	121	Yes; No	
145	INCISIONAL_HERNIA_NOTED_BAR	Char	Incisional Hernia Noted on Exam	Variable Name: Was an Incisional Hernia Noted on Exam Postoperatively	122	Yes; No	
-	=	Char	Operative drain still present at 30 days	Variable Name: Was an Operative Drain Still Present at 30 days Postoperative	123	Yes; No	
	DTPOSTOPSUPERFICIALINCISION ALSSI		date of Superficial Incisional SSI	Days to first recorded Superficial Incisional SSI occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If POSTOPSUPERFICIALINCISIONALSSI = 0 then this variable will be missing
			date of Deep Incisional SSI	Days to first recorded Deep Incisional SSI occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If POSTOPDEEPINCISIONALSSI = 0 then this variable will be missing
	DTPOSTOPORGANSPACESSI	Num	date of Organ/Space SSI	Days to first recorded Organ/Space SSI occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If POSTOPORGANSPACESSI = 0 then this variable will be missing
	DTPOSTOPVENTILATOR	Num	date of Ventilator > 48 Hours	Days to first recorded Ventilator > 48 Hours occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If DTPOSTOPVENTILATOR = 0 then this variable will be missing
151	DTPOSTOPPNEUMONIA	Num	date of Pneumonia	Days to first recorded Pneumonia occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If POSTOPPNEUMONIA = 0 then this variable will be missing
		Num	date of Sepsis	Days to first recorded Sepsis occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If POSTOPSEPSIS = 0 then this variable will be missing
	DTPOSTOPSEPTICSHOCK	Num	date of Septic Shock	Days to first recorded Septic Shock occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If POSTOPSEPTICSHOCK = 0 then this variable will be missing
		Num	Days from operation date to first recorded date of Urinary Tract Infection	Days to first recorded Urinary Tract Infection occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If POSTOPUTI = 0 then this variable will be missing
155	DTWOUNDDISRUPTION	Num	Days from operation date to Wound Disruption	Days to Wound Disruption occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If WOUNDDISRUPTION = "No" then this variable will be missing
	DTUNPLINTUBATION	Num	Intubation	Days to Unplanned Intubation occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If UNPLINTUBATION = "No" then this variable will be missing
157	DTPULMONARYEMBOLSM	Num	Days from operation date to Pulmonary Embolism	Days to Pulmonary Embolism occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If PULMONARYEMBOLSM = "No" then this variable will be missing

MBSAQIP 2016 PUF USER GUIDE (RE-RELEASED OCTOBER 2018)

Position #	Variable Name	Data Type	Variable Label		Page Number in Variables and Defintions	Variable Options	Comments
158	DTPROGRSRENALINSUF	Num	Renal Insufficiency	Days to Progressive Renal Insufficiency occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If PROGRSRENALINSUF = "No" then this variable will be missing
159	DTACTERENALFAILURE	Num	Failure	Days to Acute Renal Failure occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If ACTERENALFAILURE = "No" then this variable will be missing
160	DTCVA	Num	Days from operation date to Stroke/CVA	Days to Stroke/CVA occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If CVA = "No" then this variable will be missing
161	DTCOMA24HOURS	Num	Days from operation date to Coma > 24 Hours	Days to Coma > 24 Hours occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If COMA24HOURS = "No" then this variable will be missing
162	DTPREIFNRVINJ	Num	Days from operation date to Peripheral Nerve Injury	Days to Peripheral Nerve Injury occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If PREIFNRVINJ = "No" then this variable will be missing
163	DTCARDIACARRESTCPR	Num	Days from operation date to Cardiac Arrest Requiring CPR	Days to Cardiac Arrest Requiring CPR occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If CARDIACARRESTCPR = "No" then this variable will be missing
164	DTMYOCARDIALINFR	Num	Days from operation date to Myocardial Infarction	Days to Myocardial Infarction occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If MYOCARDIALINFR = "No" then this variable will be missing
165			Days from operation date to Transfusion	Days to Transfusion occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If TRANSFINTOPPSTOP = "No" then this variable will be missing
166	DTVEINTHROMBREQTER	Num	Days from operation date to Vein Thrombosis Requiring Therapy	Days to Vein Thrombosis Requiring Therapy occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If VEINTHROMBREQTER = "No" then this variable will be missing
167	DTCDIFF	Num	Days from operation date to C. diff Infection	Days to C. diff Infection occurrence from initial bariatric surgery operation date			Values capped between 0 and 30. If CDIFF = "No" then this variable will be missing

Reoperation

Position #	Variable Name	Data	Variable Label	Search Term in Variables and Definitons	Page Number in	Variable Options	Comments
		Type			Variables and		
					Definitions		
1	CASEID	Num	Case Identification Number	Each case or record in the database has a unique CaseID number.			
2	REOP INFORMATION SOURCE B		Information Source	Variable Name: Information Source for Reoperation	107	Medical record	
ľ	AR				101	Patient/Family Report	†
l						Other	1
3	REOP_RELATED_BAR		Reoperation related to metabolic/bariatric procedure	Variable Name: Was this Reoperation likely related to a Metabolic or Bariatric procedure?	107	Yes; No	
4	REOP_SUSPECTED_REASON_BAR		Most likely reason for reoperation	Variable Name: Most Likely Reason for Reoperation	110	See "Most Likely Reason for Reoperation Guidance Table" on page 110 in Variables and Defintions	
5	REOP_CODE_BAR	Char	Reoperation Type	Variable Name: Reoperation Type	108	See "Reoperation Guidance Table" on page 108 in Variables and Defintions	
6	REOP_CPT_BAR	Char	Reoperation CPT	Variable Name: CPT code for Reoperation	108		
7	REOP_UNPLANNED	Char	Unplanned reoperation	Variable Name: Was this reoperation unplanned at the time of the principal procedure?	109	Yes; No	
8	REOP_CENTER	Char	Reoperation performed at reporting center	Variable Name: Was this reoperation performed at your hospital?	107	Yes; No	
9	REOP_EMERGENCY	Char	Emergency Reoperation	Variable Name: Reoperation Emergency Case	107	Yes; No	
10	REOP_STAPLING_PROC			Variable Name: Was this Reoperation a Stapling Procedure?	107	Yes; No	
11	REOP_REVCONV_PROC	Char	Reoperation Revision/Conversion	Was this procedure a Revision/Conversion?	107	Yes; No	
12	REOP_MINILOOP	Char	Reoperation Mini-Loop Gastric Bypass	Was this procedure a mini-loop gastric bypass?	107	Yes; No	
13	REOP_GAS_PLICATION	Char	Reoperation Gastric Plication	Was this procedure a gastric plication?	107	Yes; No	
14	REOP_ENDO_THER		Reoperation Endoscopic Therapy	Was this procedure an endoscopic therapy?	107	Yes; No	
15	DTREOP	Num	Days to Reoperation	Days from initial bariatric or metabolic surgery procedure to reoperation.			Values capped between 0 and 30

MBSAQIP 2016 PUF USER GUIDE (RE-RELEASED OCTOBER 2018)

Position #	Variable Name	Data	Variable Label	Search Term in Variables and Defintions	Page Number in	Variable Options	Comments
		Type			Variables and		
					Defintions		
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osition #	Variable Name	Data	Variable Label	Search Term in Variables and Definitons	Page Number in	Variable Options	Comments
		Type			Variables and		
					Definitions		
	CASEID	Num	Case Identification Number	Each case or record in the database has a unique CaseID number.			
,	READ INFO SOURCE	Char	Information Source	Variable Name: Did the Patient have a Hospital Readmission within 30 days of the Principal	105	Medical record	
-	READ_INFO_SOURCE	Chai	iniomation source		105		
				Procedure?		Patient/Family Report	
						Other	
3	READ_RELATED	Char	Readmission related to metabolic/bariatric	Variable Name: Did the Patient have a Hospital Readmission within 30 days of the Principal	105	Yes; No	
			procedure	Procedure?			
	SUSPREASON	Char	Most Likely Reason for Readmission	Variable Name: Did the Patient have a Hospital Readmission within 30 days of the Principal	105	See "Most Likely Reason for Readmission Guidance	
				Procedure?		Table" on page 105 in in Variables and Defintions	
	READ_UNPLANNED	Char	Unplanned Readmission	Was this readmission unplanned at the time of the principal procedure?	105	Yes; No	
	READ_HOSPITAL	Char	Readmission Occured at Reporting	Did this readmission occur at your hospital?	105	Yes; No	
			Center				
	DTREAD	Num		Days from initial bariatric or metabolic surgery procedure to readmission	1		Values capped between 0 and 30
	·		,	.,			
	DTREAD_DISCH	Num	Days from Original Discharge to	Days to readmission from original hospital stay discharge	1		Values capped between 0 and 30
'	DINEAD_DIGGIT	Null	Readmission	Days to readmission from original nospital stay distribinge			values capped between 0 and 30
	DIDIEDT BEAD	Nive		Dava to readmission discharge from readmission date	+		Values consed between C 1450
	DTDISDT_READ	Num	Days from Readmission to Readmission	Days to readmission discharge from readmission date			Values capped between 0 and 150
			Discharge				
ntervention							
osition#	Variable Name	Data	Variable Label	Search Term in Variables and Definitons	Page Number in	Variable Options	Comments
		Туре			Variables and	·	
		. 7			Definitions		
					Deminions		
	CASEID	Num	Case Identification Number	Each case or record in the database has a unique CaseID number.			
	INTV_INFORMATION_SOURCE_BA	Char	Information Source	Variable Name: Information Source for Intervention	117	Medical Record	
	R					Patient/Family Report	
						Other	
,	INTV_RELATED_BAR	Char	Intervention related to metabolic/hariatric	Variable Name: Was the Intervention likely related to a Metabolic or Bariatric procedure?	112	Yes; No	
'	INTV_RELATED_BAR	Cital	procedure	variable Name. Was the intervention likely related to a Metabolic or Banatic procedure:	112	165, NO	
	INTV REASON BAR	Char	Most Likely Reason for Intervention	Variable Name: Most Likely Reason for Intervention	115	See "Most Likely Reason for Intervention Guidance	
	INTV_REASON_BAR	Chai	WOST LIKELY REASON FOR INTERVENTION	variable Name. Most Likely Reason for Intervention	115		
						Table" on page 115 in Variables and Defintions	
i	INTV_CODE_BAR	Char	Intervention Type	Variable Name: Intervention Type	114	See options on page 114 in in Variables and	
						Defintions	
3	INTV_UNPLANNED_BAR	Char	Unplanned Intervention	Variable Name: Was this intervention unplanned at the time of the principal procedure?	113	Yes; No	
	INTV_EMERGENCY_BAR	Char	Emergency Intervention	Variable Name: Intervention Emergency Case	112	Yes; No	
	INTV_THER_BAR	Char	Intervention Therapeutic Endoscopy	Therapeutic Endoscopy	114		If INTV_CODE_BAR does not equal "Therapeutic
		1	1				Endoscopy" then this variable will be missing
	DTINTV	Num	Days from Operation date to Intervention	Days from the initial metabolic and bariatric surgical operation to the intervention procedure			Values capped between 0 and 30
			.,,				
						L	1
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eeltle: #	Verieble Neme	Det-	Veriable Label	Search Term in Veriables and Definitions	Dana Month of 1	Variable Ontions	Comments
osition#	Variable Name	Data	Variable Label	Search Term in Variables and Definitons	Page Number in	Variable Options	Comments
		Type	1		Variables and		
		1	1		Definitions		
		1	1				
		1	1				
	CASEID	Num	Case Identification Number	Each case or record in the database has a unique CaseID number.	1		i e
	HGT	Num	Height	Variable Name: Preoperative Height	17		Same variable found in the main dataset
	HGTUNIT	Char		Height Measurement Units	17	in. cm	Same variable found in the main dataset Same variable found in the main dataset
			Height Unit			III, GIII	
	WGT_CLOSEST	Num	Pre-Op Weight closest to bariatric surgery	Variable Name: Weight Closest to Surgery	19		Same variable found in the main dataset
					1		
	WGTUNIT_CLOSEST	Char		Closest to Surgery Pre-op Weight Measurement Units	19	lbs, kg	Same variable found in the main dataset
			Unit				
		Num	Highest Pre-Op Weight recorded	Variable Name: Highest Recorded Weight within 1 year at the Program	18		Same variable found in the main dataset
	WGT_HIGH_UNIT_BAR	Char	Highest Pre-Op Weight recorded Unit	Highest Recorded Pre-op Weight Measurement Units	18	lbs, kg	Same variable found in the main dataset
	WGT_DISCH	Num	Post-Op Weight	Variable Name: Postoperative Weight	120	. *	
	WGTUNIT_DISCH	Char	Post-Op Weight Unit	Post-op Weight Measurement Units	120	lbs, kg	
0	BMI	Num	Pre-Op BMI closest to bariatric surgery	Calculated from closest to surgery recorded pre-op weight and height	.20	noo; ng	Same variable found in the main dataset. Values
U	DIVII	rvum	1 16-Op Divil closest to bariatile surgery	Calculated from closest to surgery recorded pre-op weight and neight			capped between 15 and 150
	DMI LIICH DAD	Nicon	Lishaat Dagardad Dra On DMI	Coloulated from highest recorded are an unight and baight	+		
1	BMI_HIGH_BAR	Num	Highest Recorded Pre-Op BMI	Calculated from highest recorded pre-op weight and height			Same variable found in the main dataset. Values
							capped between 15 and 150
	BMI_DISCH	Num	Post-Op BMI	Calculated from post-op weight and height			Values capped between 15 and 150
3	DTBMI	Num	Days from bariatric surgery to Post-Op	Days from bariatric or metabolic surgery to post-op BMI measurement			Values capped between 0 and 30
	İ		BMI measurement		1	i	Ī



METABOLIC AND BARIATRIC SURGERY ACCREDITATION AND QUALITY IMPROVEMENT PROGRAM



