

METABOLIC AND BARIATRIC SURGERY ACCREDITATION AND QUALITY IMPROVEMENT PROGRAM

User Guide for the 2015 Participant Use Data File (PUF)

Updated Version Released: October 2018

PROPRIETARY AND CONFIDENTIAL

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This updated version of the 2015 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 variables not previously reported. This User Guide has been updated to include these added variables.

1. Introduction

The Metabolic and Bariatric Surgery Accreditation and Quality Improvement Program (MBSAQIP[®]) is pleased to introduce the inaugural 2015 Participant Use Data File (PUF) – including cases with operation dates between January 1, 2015 and December 31, 2015. 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 2015 Participant Use Data File available for download via the MBSAQIP website (https://www.facs.org/quality-programs/mbsaqip). 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 inaugural 2015 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 www.facs.org/quality-programs/mbsaqip 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 2015. 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 150 days from the date of the index procedure. All other postoperative events or outcomes (e.g., death, sepsis, reoperation, readmission, intervention, 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: 219 MB SPSS: 245 MB TXT: 94 MB	Contains 154 HIPAA compliant variables on 168,093 cases submitted from 742 centers in 2015. Each row represents one case and there is exactly one row per case.
MBSAQIP_PUF_Read	SAS, SPSS, TXT	SAS: 1.5 MB SPSS: 1.08 MB TXT: 640 KB	Contains 9 HIPAA compliant variables on 8,726 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: 650 KB TXT: 341 KB	Contains 15 HIPAA compliant variables on 3,510 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: 1.18 MB SPSS: 599 MB TXT: 362 KB	Contains 9 HIPAA compliant variables on 3,855 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: 20 MB SPSS: 21.2 MB TXT: 10.6 MB	Contains 13 HIPAA compliant variables on 186,734 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

Centers participating in the MBSAQIP do so by collecting data on the metabolic and bariatric surgical procedures at their center.

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 2015. 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 2015 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: The 2015 PUF is 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 45 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 (e.g., 11 records in the readmission dataset are missing the most likely reason for readmission). 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.
- Q: Why is post-op BMI missing for 10 records in the BMI dataset?
- A: A missing value of post-op BMI (variable name BMI_DISCH) indicates that a post-op BMI was recorded but that the recorded BMI was less than 15 or greater than 150.

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.

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
1		Type			Variables and		
l j					Defintions		
l ,					Definitions		
l ,							
1	CASEID	Num	Case Identification Number	Each case or record in the database has a unique CaseID number.			
2	SEX	Char		Variable Name: Gender	2	Male; Female	
2	AGE	Num	Age	Patient's age at time of initial bariatric or metabolic surgery, calculated from Date of Birth and	T		Values capped between 10 and 80
	AGE	Num	Age	Operation date			values capped between 10 and 00
l	OT00	01	A Ct Th 00 V			Waar Na	
	ageGT80		Age Greater Than 80 Years	Indicator for patients with recorded age greater than 80		Yes; No	
5	RACE_PUF	Char	Race	Variable Name: Race	3	White	
l ,						Black or African American	
l ,						American Indian or Alaska Native	
l ,						Native Hawaiian or Other Pacific Islander	
l ,						Asian	
l ,						Unknown	1
	HISPANIC	Char	Hispanic Ethnicity	Variable Name: Hispanic Ethnicity	4	Yes; No; Unknown	
	CPT		CPT principal operative procedure	Variable Name: CPT® (Current Procedural Terminology) Code for the Principal Operative	5	1 CO, TTC, CHILLICHII	
l'	CF I	Cital	CF i principal operative procedure	Procedure	3		
l ,				Procedure			
8	CPTUNLISTED_REVCONV	Num	Revision/Conversion Flag	Variable Name: Revision/Conversion Principal Operative Procedure	7	0 = No; 1 = Yes	
	CPTUNLISTED_GASBYPASS		Miniloop Gastric Bypass Flag	Variable Name: Mini-Loop Gastric Bypass (MGB) Principal Operative Procedure	8	0 = No; 1 = Yes	
10	CPTUNLISTED_GASPLICATION	Num	Gastric Plication Flag	Variable Name: Gastric Plication Principal Operative Procedure	9	0 = No; 1 = Yes	
	CPTUNLISTED ENDOTHER		Endoscopic Therapy Flag	Variable Name: Endoscopic Therapy Principal Operative Procedure	10	0 = No; 1 = Yes	
	CPTUNLISTED OTHER		Other Flag	Variable Name: Other Principal Operative Procedure	11	0 = No; 1 = Yes	
	CPTUNLISTED_140101	Char	CPT when Principal CPT entered is	Variable Name: CPT® (Current Procedural Terminology) Code for Revisions/Other Reasons	12	1	
'3	S SINEIGTED_T#0101	Judi	unlisted (43659 or 43999)	Tanado Tanado O To (Outront Froducial Fortilliology) Code for Nevisions/Other Reasons		1	I
	OTABLINO BROS	Ob.		Mariable Name of this a Oraclina December 0 /B 1111 Oraclina December 1		V N-	
	STAPLING_PROC		Stapling Procedure	Variable Name: Is this a Stapling Procedure? (Bariatric Stapling Procedures)	55	Yes; No	I
15	GERD	Char	Pre-Op GERD requiring medication	Variable Name: Gastroesophageal Reflux Disease (GERD) Requiring Medication (within 30	23	Yes; No	Í
				days prior to surgery)	<u> </u>	<u> </u>	
16	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	24	Yes; No	
]	1	l	the time pre-op			1	
17	MI_ALL_HISTORY	Char	History of MI	Variable Name: History of Myocardial Infarction	25	Yes; No	
	PTC	Char	Previous PCI/PTCA	Variable Name: Previous PCI/PTCA	26	Yes: No	
	PCARD		Previous Cardiac Surgery	Variable Name: Previous Cardiac Surgery	27	Yes: No	
	HIP				28		
20	HIP	Char	Pre-Op Hypertension requiring medication	Variable Name: Preoperative Hypertension Requiring Medication	28	Yes; No	
21	HTN_MEDS	Char	Number of Hypertensive Medications	Variable Name: Preoperative Number of Anti-Hypertensive Medications	29	0	
l j						1	
l j						2	
l j						3+	1
22	HYPERLIPIDEMIA	Char	Pre-Op Hyperlipidemia	Variable Name: Preoperative Hyperlipidemia Requiring Medication	30	Yes: No	
					13	res, No	
23	HGT	Num	Height	Variable Name: Preoperative Height	13		
l ,							
24	HGTUNIT	Char	Height Unit	Height Measurement Units	13	cm	
I I		Ona	rioigin orin	Tolgik modesi omo		in	
0.5	WGT_HIGH_BAR	Num	Highest pre-op weight recorded	Variable Name: Highest Recorded Weight within 1 year at the Program	14		
26	WGT_HIGH_UNIT_BAR	Char	Highest pre-op weight recorded unit	Highest Pre-op Weight Measurement Units	14	kg	
						lbs	
27	WGT_CLOSEST	Num	Pre-Op Weight closest to bariatric surgery	Variable Name: Weight Closest to Surgery	15		
]]	1	l				1	
28	WGTUNIT_CLOSEST	Char	Pre-op Weight closest to bariatric surgery	Closest to Surgery Pre-op Weight Measurement Units	15	kg	
-"		Julia	unit			lbs	1
100	BMI	Nive		Coloulated from are an unright elegant to aureau : it his total	+	100	Values conned between 45 4 450
			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		Highest Recorded Pre-op BMI	Calculated from highest recorded pre-op weight and height			Values capped between 15 and 150
31	HISTORY_DVT	Char	Pre-Op Vein Thrombosis Requiring	Variable Name: Preoperative Vein Thrombosis Requiring Therapy	31	Yes; No	Í
	<u> </u>		Therapy		<u> </u>	<u> </u>	
	VENOUS_STASIS		Pre-Op Venous Stasis	Variable Name: Preoperative Venous Stasis	32	Yes; No	
	DIALYSIS		Pre-Op Requiring or on dialysis	Variable Name: Preoperative Currently Requiring or On Dialysis	34	Yes; No	
34	RENAL INSUFFICIENCY	Char	Pre-Op Renal Insufficiency	Variable Name: Preoperative Renal Insufficiency	35	Yes; No	
35	THERAPEUTIC_ANTICOAGULATIO	Char	Pre-Op Therapeutic Anticoagulation	Variable Name: Preoperative Trenan insumeterly Variable Name: Preoperative Therapeutic Anticoagulation	38	Yes; No	
	N	Onai	operapeutic Artificoaguiation	variable reams. 1 responding friends against of	00	1.00,110	
20	DDEVIOUS SUBSERV	01	Daniel Observation of the Committee of t	Verteble News Bergins Observe Organization (Francis Organization)	00	V N-	
	PREVIOUS_SURGERY			Variable Name: Previous Obesity Surgery/Foregut Surgery	39	Yes; No	ļ
37	DIABETES	Char	Pre-Op Diabetes Mellitus	Variable Name: Preoperative Diabetes Mellitus Requiring Therapy with Non-Insulin Agents or	16	Non-Insulin	1
	DI/ IDE 1 E O			Insulin	1	Insulin	Ĵ
	3,7,52,720						
	SINGETES					No	
38	SMOKER	Char	Current Smoker within 1 year	Variable Name: Current Smoker within One Year	17	No Yes; No	
	SMOKER				17	Yes; No	
			Current Smoker within 1 year Pre-Op Functional Health Status	Variable Name: Current Smoker within One Year Variable Name: Preoperative Functional Health Status		Yes; No Independent	
	SMOKER					Yes; No Independent Partially Dependent	
	SMOKER					Yes; No Independent Partially Dependent Totally Dependent	
39	SMOKER FUNSTATPRESURG	Char	Pre-Op Functional Health Status	Variable Name: Preoperative Functional Health Status	18	Yes; No Independent Partially Dependent Totally Dependent Unknown	
39	SMOKER FUNSTATPRESURG	Char	Pre-Op Functional Health Status Pre-Op history of COPD	Variable Name: Preoperative Functional Health Status Variable Name: History of Severe COPD		Yes; No Independent Partially Dependent Totally Dependent Unknown Yes; No	
39 40 41	SMOKER FUNSTATPRESURG COPD OXYGEN_DEPENDENT	Char Char Char	Pre-Op Functional Health Status Pre-Op history of COPD Pre-Op Oxygen Dependent	Variable Name: Preoperative Functional Health Status Variable Name: History of Severe COPD Variable Name: Preoperative Oxygen Dependent	18 19 20	Yes; No Independent Partially Dependent Totally Dependent Unknown Yes; No Yes; No	
39 40 41	SMOKER FUNSTATPRESURG COPD OXYGEN_DEPENDENT	Char Char Char	Pre-Op Functional Health Status Pre-Op history of COPD	Variable Name: Preoperative Functional Health Status Variable Name: History of Severe COPD	18	Yes; No Independent Partially Dependent Totally Dependent Unknown Yes; No	
39 40 41 42	SMOKER FUNSTATPRESURG COPD OXYGEN_DEPENDENT HISTORY_PE	Char Char Char	Pre-Op Functional Health Status Pre-Op history of COPD Pre-Op Oxygen Dependent History of PE	Variable Name: Preoperative Functional Health Status Variable Name: History of Severe COPD Variable Name: Preoperative Oxygen Dependent Variable Name: History of Pulmonary Embolism	18 19 20	Yes; No Independent Partially Dependent Totally Dependent Unknown Yes; No Yes; No	
39 40 41 42	SMOKER FUNSTATPRESURG COPD OXYGEN_DEPENDENT	Char Char Char Char	Pre-Op Functional Health Status Pre-Op history of COPD Pre-Op Oxygen Dependent	Variable Name: Preoperative Functional Health Status Variable Name: History of Severe COPD Variable Name: Preoperative Oxygen Dependent	19 20 21	Yes; No Independent Partially Dependent Totally Dependent Unknown Yes; No Yes; No Yes; No	
40 41 42 43	SMOKER FUNSTATPRESURG COPD OXYGEN DEPENDENT HISTORY_PE SLEEP_APNEA	Char Char Char Char Char	Pre-Op Functional Health Status Pre-Op history of COPD Pre-Op Oxygen Dependent History of PE Pre-Op Obstructive Sleep Apnea	Variable Name: Preoperative Functional Health Status Variable Name: History of Severe COPD Variable Name: Preoperative Oxygen Dependent Variable Name: History of Pulmonary Embolism Variable Name: Preoperative Obstructive Sleep Apnea Requiring CPAP/BiPAP (or similar technology)	19 20 21 22	Yes; No Independent Partially Dependent Totally Dependent Unknown Yes; No Yes; No Yes; No Yes; No Yes; No	
40 41 42 43	SMOKER FUNSTATPRESURG COPD OXYGEN_DEPENDENT HISTORY_PE	Char Char Char Char	Pre-Op Functional Health Status Pre-Op history of COPD Pre-Op Doxygen Dependent History of PE Pre-Op Obstructive Sleep Apnea Pre-Op Steroid/Immunosuppressant Use	Variable Name: Preoperative Functional Health Status Variable Name: History of Severe COPD Variable Name: Preoperative Oxygen Dependent Variable Name: History of Pulmonary Embolism Variable Name: Preoperative Ostructive Sleep Apnea Requiring CPAP/BIPAP (or similar	19 20 21	Yes; No Independent Partially Dependent Totally Dependent Unknown Yes; No Yes; No Yes; No	
39 40 41 42 43 44	SMOKER FUNSTATPRESURG COPD OXYGEN DEPENDENT HISTORY_PE SLEEP_APNEA CHRONIC_STEROIDS	Char Char Char Char Char Char	Pre-Op Functional Health Status Pre-Op history of COPD Pre-Op Oxygen Dependent History of PE Pre-Op Obstructive Sleep Apnea	Variable Name: Preoperative Functional Health Status Variable Name: History of Severe COPD Variable Name: Preoperative Oxygen Dependent Variable Name: History of Pulmonary Embolism Variable Name: Preoperative Obstructive Sleep Apnea Requiring CPAP/BiPAP (or similar technology)	19 20 21 22	Yes; No Independent Partially Dependent Totally Dependent Unknown Yes; No Yes; No Yes; No Yes; No Yes; No	

			,				
Position #	Variable Name	Data Type	Variable Label	Search Term in Variables and Defintions	Page Number in Variables and Defintions	Variable Options	Comments
6	IVC_TIMING	Char	Pre-Op IVC Filter Timing	IVC Filter Timing	33	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	4
7	ALBUMIN	Num	Pre-op Albumin Lab Value	Variable Name: Preoperative Lab Value Information	40	OTIKTOWIT	Values capped between 1 and 10
8	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	3., 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,			
9	HCT	Num	Pre-op Hematocrit Lab Value	Variable Name: Preoperative Lab Value Information	40		Values capped between 8 and 60
50	DPRHCT	Num	Days from Hematocrit Pre-Op Labs to	Days from pre-operative Hematocrit to intitial bariatric surgery operation date			Values capped between 0 and 90
			Operation				
i1	ASSISTANT_TRAINING_LEVEL	Char	First Assist Training Level	Variable Name: First Assistant Principal Operative Procedure	41	None (no assist or scrub tech/RN only)	
						Physician Assistant/Nurse Practitioner/Registerd Nurse First Assist	
						Resident (PGY 1-5+)	4
						Minimally Invasive Surgery Fellow	
						Attending - Weight Loss Surgeon	1
						Attending - Other	1
2	PRIORITY	Char	Emergency Case	Variable Name: Emergency Case Principal Operative Procedure	42	Yes; No	
3	SURGICAL_APPROACH	Char	Surgical Approach	Variable Name: Surgical Approach Principal Operative Procedure	44	N.O.T.E.S. (Natural Orifice Transluminal Endoscopic	
	1					Single Incision]
	1					Robotic-assisted	_
	1					Conventional laparoscopic (thoracoscopic)	
	1					Laparoscopic assisted (thoracoscopic assisted)]
	1]
	1					Hand-assisted	4
i4	ADDDOAGU GONVEDTED	01	December 2011	North News West Bright Occupies December 201	45	Open Yes: No	
i4	APPROACH_CONVERTED	Char	Procedure converted to another approach	Variable Name: Was the Principal Operative Procedure converted to another approach?	45	Yes; No	
55	CONVERSION	Char	If approach was converted, what was the	Variable Name: Was the Principal Operative Procedure converted to another approach?	45	Single Incision	If APPROACH_CONVERTED = "No" then this
			final operative approach			Robotic-assisted	variable will be missing
						Conventional laparoscopic (thoracoscopic)	
						Laparoscopic assisted (thoracoscopic assisted)	
						Hand and the	
						Hand-assisted	
56	BOUGIE SIZE	Num	Sleeve Bougie Size	Variable Name: Bougie (or sizing device) size for Gastric Sleeve	49	Open	
JO E7	BOUGIE_SIZE_UNITS	Num	Sleeve Bougle Size Units	Bougie Size Measurement Units	49	1 = French	
31	BOOGIE_SIZE_UNITS	Nulli	Sieeve Bougle Size Offics	Bougle Size Measurement Offics	43	2 = cm	1
58	PYLORUS_DISTANCE	.	Sleeve Distance to Pylorus	Variable Name: Distance from the Pylorus (in cm) for Gastric Sleeve	50	2 - 011	
		Num					
59	STAPLE LINE REINFORCEMENT	Num Char	Sleeve Staple Line Reinforcement	Variable Name: Staple Line Reinforcement for Gastric Sleeve	51	Yes; No	
59	STAPLE_LINE_REINFORCEMENT		Sleeve Staple Line Reinforcement	Variable Name: Staple Line Reinforcement for Gastric Sleeve	51	Yes; No	
59	STAPLE_LINE_REINFORCEMENT OVERSEW		Sleeve Staple Line Reinforcement	Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve	51	Yes; No Yes; No	
59 60	STAPLE_LINE_REINFORCEMENT	Char	Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial	Variable Name: Staple Line Reinforcement for Gastric Sleeve	51		
59 60 61	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED	Char Char Char	Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation	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	51 52 46	Yes; No Yes; No	
59 60 61	STAPLE_LINE_REINFORCEMENT OVERSEW	Char	Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day	Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Oversew for Gastric Sleeve	51 52	Yes; No Yes; No Yes, routine	
59	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED	Char Char Char	Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation	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	51 52 46	Yes; No Yes; No Yes, routine Yes, selective	
59 60 61 62	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY	Char Char Char Char	Steeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure	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	51 52 46 47	Yes; No Yes; No Yes, routine Yes, selective No	
59 60 61 62	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED	Char Char Char	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	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	51 52 46	Yes; No Yes; No Yes, routine Yes, selective No Yes	
59 60 61	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY	Char Char Char Char	Steeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure	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	51 52 46 47	Yes; No Yes, No Yes, routine Yes, selective No Yes No	
50 51 52	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED	Char Char Char Char	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	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	51 52 46 47 48	Yes; No Yes; No Yes; No Yes, routine Yes, selective No Yes No No N/A	
9 0 1 2 2 3	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY	Char Char Char Char	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	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	51 52 46 47	Yes; No Yes; No Yes, routine Yes, selective No Yes No No No NA ASA 1 - No Disturb	
9 0 1 2 2 3 3	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED	Char Char Char Char	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	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	51 52 46 47 48	Yes; No Yes; No Yes; No Yes, routine Yes, selective No Yes No No N/A	
59 50 51 52	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED	Char Char Char Char	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	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	51 52 46 47 48	Yes; No Yes; No Yes, routine Yes, selective No No No No No No NA ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening	
9 0 1 2 2 3	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED	Char Char Char Char	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	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	51 52 46 47 48	Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
9 0 1 2 2 3 3	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS	Char Char Char Char Char Char	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 wyprovocative test to assess for leak ASA Class	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	51 52 46 47 48 48	Yes; No Yes; No Yes, routine Yes, selective No No No No No No NA ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening	
9 0 1 2 2 3 4 4	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1	Char Char Char Char Char Char	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	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	51 52 46 47 48	Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
59 50 51 51 52 53 53 54	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2	Char Char Char Char Char Char Char Char	Sleeve Staple Line Reinforcement Sleeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomossis/staple line checked w/provocative test to assess for leak ASA Class Other CPT 1 Other CPT 2	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	51 52 46 47 48 48	Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
9 0 1 2 3 4	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3	Char Char Char Char Char Char Char Char	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	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	51 52 46 47 48 48	Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
59 50 51 52 53 53 54 54 55 66 67 77	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT4	Char Char Char Char Char Char Char Char	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	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	51 52 46 47 48 48	Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
9 0 1 1 2 3 3 4 4 5 5 6 6 7 7 8 9	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT4 OTHCPT5	Char Char Char Char Char Char Char Char	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 wiprovocative test to assess for leak ASA Class Other CPT 1 Other CPT 2 Other CPT 3 Other CPT 4 Other CPT 5	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	51 52 46 47 48 48	Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
9 0 11 22 3 3 4 4 4 5 6 6 6 7 7 8 9 9	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT4 OTHCPT5 OTHCPT6	Char Char Char Char Char Char Char Char	Sieeve Staple Line Reinforcement Sieeve 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 4 Other CPT 5 Other CPT 5 Other CPT 5 Other CPT 6	Variable Name: Other Procedure	51 52 46 47 48 48	Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
9 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 0 0 1 1	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT4 OTHCPT6 OTHCPT6 OTHCPT6 OTHCPT7	Char Char Char Char Char Char Char Char	Sieeve Staple Line Reinforcement Sieeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked wiprovocative test to assess for leak ASA Class Other CPT 1 Other CPT 2 Other CPT 3 Other CPT 4 Other CPT 5 Other CPT 5 Other CPT 5 Other CPT 7	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	51 52 46 47 48 48	Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
9 0 1 1 2 3 3 4 4 5 6 6 6 7 7 8 8 9 0 0 1 1 2 2	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT4 OTHCPT5 OTHCPT6 OTHCPT6 OTHCPT7	Char Char Char Char Char Char Char Char	Sieeve 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 5 Other CPT 6 Other CPT 6 Other CPT 6 Other CPT 7	Variable Name: Other Procedure	51 52 46 47 48 48	Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
9 0 1 2 3 4 4 4 5 6 6 7 7 8 9 9 0 1 1 2 3	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT4 OTHCPT5 OTHCPT6 OTHCPT6 OTHCPT7 OTHCPT7 OTHCPT7 OTHCPT7 OTHCPT7 OTHCPT7 OTHCPT7 OTHCPT7 OTHCPT7	Char Char Char Char Char Char Char Char	Sieeve Staple Line Reinforcement Sieeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomossis/staple line checked w/provocative test to assess for leak ASA Class Other CPT 1 Other CPT 2 Other CPT 3 Other CPT 4 Other CPT 5 Other CPT 6 Other CPT 6 Other CPT 7 Other CPT 7 Other CPT 7 Other CPT 7	Variable Name: Other Procedure	51 52 46 47 48 48	Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
99 100 11 12 13 14 14 15 15 16 16 17 18 19 10 10 11 12 13 13 14 14 14 15 15 16 16 17 17 18 18 19 10 10 11 12 13 13 14 14 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT4 OTHCPT4 OTHCPT6 OTHCPT6 OTHCPT7 OTHCPT7 OTHCPT7 OTHCPT7 OTHCPT7 OTHCPT8 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT10	Char Char Char Char Char Char Char Char	Sieeve 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 wiprovocative test to assess for leak ASA Class Other CPT 1 Other CPT 2 Other CPT 3 Other CPT 4 Other CPT 5 Other CPT 5 Other CPT 5 Other CPT 7 Other CPT 7 Other CPT 8 Other CPT 8 Other CPT 8 Other CPT 9 Other CPT 8 Other CPT 9 Other CPT 10	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	51 52 46 47 48 48	Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
99 100 11 1 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT4 OTHCPT5 OTHCPT6 OTHCPT6 OTHCPT7	Char Char Char Char Char Char Char Char	Sieeve Staple Line Reinforcement Sieeve 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 4 Other CPT 4 Other CPT 5 Other CPT 6 Other CPT 8 Other CPT 8 Other CPT 8 Other CPT 9 Other CPT 1	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	51 52 46 47 48 43 53	Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
9 0 1 1 2 3 3 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT4 OTHCPT4 OTHCPT6 OTHCPT6 OTHCPT7 OTHCPT7 OTHCPT7 OTHCPT7 OTHCPT7 OTHCPT8 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT10	Char Char Char Char Char Char Char Char	Sieeve 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 wiprovocative test to assess for leak ASA Class Other CPT 1 Other CPT 2 Other CPT 3 Other CPT 4 Other CPT 5 Other CPT 5 Other CPT 5 Other CPT 7 Other CPT 7 Other CPT 8 Other CPT 8 Other CPT 8 Other CPT 9 Other CPT 8 Other CPT 9 Other CPT 10	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	51 52 46 47 48 43 53	Yes; No Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
9 0 1 1 2 3 3 4 4 4 5 6 6 7 7 8 9 9 0 1 1 2 2 3 3 4 4 4 5 6 6 7 7 8 9 9 9 1 1 1 1 1 2 1 2 1 3 3 3 3 4 4 5 6 6 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT4 OTHCPT6 OTHCPT6 OTHCPT6 OTHCPT7 OTHCPT7 OTHCPT8 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT10 CONCPT1	Char Char Char Char Char Char Char Char	Sieeve Staple Line Reinforcement Sieeve 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 5 Other CPT 6 Other CPT 6 Other CPT 8 Other CPT 8 Other CPT 9 Other CPT 9 Other CPT 9 Other CPT 9 Other CPT 1 Concurrent CPT 2 Concurrent CPT 2 Concurrent CPT 2 Concurrent CPT 3	Variable Name: Other Procedure Variable Name: Concurrent Procedure	51 52 46 47 48 43 53	Yes; No Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
9 0 1 1 2 3 3 4 4 4 5 6 6 7 7 8 9 9 0 1 1 2 2 3 3 4 4 4 7 7 7 7 8 7 8 9 9 0 1 1 1 2 1 2 1 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT4 OTHCPT6 OTHCPT6 OTHCPT7 OTHCPT7 OTHCPT7 OTHCPT7 OTHCPT7 OTHCPT7 OTHCPT7 OTHCPT8 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT10 CONCPT1 CONCPT1 CONCPT2 CONCPT3	Char Char Char Char Char Char Char Char	Sieeve Staple Line Reinforcement Sieeve 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 5 Other CPT 6 Other CPT 6 Other CPT 8 Other CPT 8 Other CPT 9 Other CPT 9 Other CPT 9 Other CPT 9 Other CPT 1 Concurrent CPT 2 Concurrent CPT 2 Concurrent CPT 2 Concurrent CPT 3	Variable Name: Other Procedure Variable Name: Concurrent Procedure Variable Name: Concurrent Procedure Variable Name: Concurrent Procedure Variable Name: Concurrent Procedure	51 52 46 47 48 43 53	Yes; No Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
99 90 10 11 12 12 13 13 14 14 15 15 15 16 16 17 17 18 18 19 10 10 11 11 11 11 11 11 11 11 11 11 11	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT4 OTHCPT6 OTHCPT6 OTHCPT6 OTHCPT7 OTHCPT7 OTHCPT7 OTHCPT9 OTHCPT7 OTHCPT9 OTHCPT9 OTHCPT9 OTHCPT10 CONCPT1 CONCPT1 CONCPT2 CONCPT2 CONCPT2 CONCPT3	Char Char Char Char Char Char Char Char	Sieeve Staple Line Reinforcement Sieeve 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 4 Other CPT 5 Other CPT 6 Other CPT 7 Other CPT 7 Other CPT 9 Other CPT 9 Other CPT 9 Other CPT 9 Other CPT 10 Concurrent CPT 1 Concurrent CPT 1 Concurrent CPT 2 Concurrent CPT 2 Concurrent CPT 2 Concurrent CPT 3	Variable Name: Other Procedure Variable Name: Concurrent Procedure	51 52 46 47 48 43 53	Yes; No Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
99 90 10 11 12 12 13 13 14 14 15 15 15 16 16 17 17 18 18 19 10 10 11 11 11 11 11 11 11 11 11 11 11	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT4 OTHCPT6 OTHCPT6 OTHCPT7	Char Char Char Char Char Char Char Char	Sieeve Staple Line Reinforcement Sieeve 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 4 Other CPT 5 Other CPT 6 Other CPT 7 Other CPT 8 Other CPT 9 Other CPT 9 Concurrent CPT 1 Concurrent CPT 1 Concurrent CPT 2 Concurrent CPT 3 Concurrent CPT 3 Concurrent CPT 4 Concurrent CPT 5	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	51 52 46 47 48 43 53	Yes; No Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
59 50 51 52 53 54 55 56 57 57 58 59 70 71 72 73 74 75 76 77 77 78 79 90 90 90 90 90 90 90 90 90 9	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT4 OTHCPT6 OTHCPT6 OTHCPT7	Char Char Char Char Char Char Char Char	Sieeve Staple Line Reinforcement Sieeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked wyprovocative test to assess for leak ASA Class Other CPT 1 Other CPT 2 Other CPT 3 Other CPT 4 Other CPT 4 Other CPT 5 Other CPT 6 Other CPT 7 Other CPT 9 Other CPT 1 Concurrent CPT 2 Concurrent CPT 5 Concurrent CPT 6 Concurrent CPT 6 Concurrent CPT 7 Concurrent CPT 6 Concurrent CPT 7 Concurrent CPT 6 Concurrent CPT 6 Concurrent CPT 7	Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation 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	51 52 46 47 48 43 53	Yes; No Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
59 50 50 50 50 50 50 50 50 50 50 50 50 50	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT4 OTHCPT5 OTHCPT6 OTHCPT7 OTHCPT9 OTHCPT7 OTHCPT9 CONCPT1 CONCPT1 CONCPT5 CONCPT6 CONCPT6 CONCPT7 CONCPT9 CONCPT9	Char Char Char Char Char Char Char Char	Sieeve Staple Line Reinforcement Sieeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked wiprovocative test to assess for leak ASA Class Other CPT 1 Other CPT 2 Other CPT 3 Other CPT 4 Other CPT 5 Other CPT 6 Other CPT 7 Other CPT 9 Other CPT 9 Other CPT 9 Other CPT 9 Concurrent CPT 2 Concurrent CPT 4 Concurrent CPT 4 Concurrent CPT 5 Concurrent CPT 6 Concurrent CPT 7 Concurrent CPT 8 Concurrent CPT 7 Concurrent CPT 7 Concurrent CPT 8 Concurrent CPT 8 Concurrent CPT 8	Variable Name: Other Procedure Variable Name: Concurrent Procedure	51 52 46 47 48 43 53	Yes; No Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
59 60 61	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT4 OTHCPT5 OTHCPT6 OTHCPT7 CONCPT1 CONCPT1 CONCPT1 CONCPT2 CONCPT3 CONCPT5 CONCPT6 CONCPT6 CONCPT7	Char Char Char Char Char Char Char Char	Sieeve Staple Line Reinforcement Sieeve 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 6 Other CPT 7 Other CPT 8 Other CPT 9 Other CPT 9 Other CPT 9 Concurrent CPT 1 Concurrent CPT 4 Concurrent CPT 4 Concurrent CPT 4 Concurrent CPT 5 Concurrent CPT 6 Concurrent CPT 7 Concurrent CPT 8	Variable Name: Staple Line Reinforcement for Gastric Sleeve Variable Name: Was a Drain Placed at Time of the Initial Operation 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	51 52 46 47 48 43 53	Yes; No Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	
559 660 661 662 663 663 664 664 665 666 667 668 669 70 71 72 73 74 74 77 77 78 79 80 81	STAPLE_LINE_REINFORCEMENT OVERSEW DRAIN_PLACED SWALLOW_STUDY ANASTOMOSIS_CHECKED ASACLASS OTHCPT1 OTHCPT2 OTHCPT3 OTHCPT4 OTHCPT5 OTHCPT6 OTHCPT7 OTHCPT9 OTHCPT7 OTHCPT9 CONCPT1 CONCPT1 CONCPT5 CONCPT6 CONCPT6 CONCPT7 CONCPT9 CONCPT9	Char Char Char Char Char Char Char Char	Sieeve Staple Line Reinforcement Sieeve Oversew Drain placed at the time of the initial operation Swallow study performed day of or day after procedure Anastomosis/staple line checked wiprovocative test to assess for leak ASA Class Other CPT 1 Other CPT 2 Other CPT 3 Other CPT 4 Other CPT 5 Other CPT 6 Other CPT 7 Other CPT 9 Other CPT 9 Other CPT 9 Other CPT 9 Concurrent CPT 2 Concurrent CPT 4 Concurrent CPT 4 Concurrent CPT 5 Concurrent CPT 6 Concurrent CPT 7 Concurrent CPT 8 Concurrent CPT 7 Concurrent CPT 7 Concurrent CPT 8 Concurrent CPT 8 Concurrent CPT 8	Variable Name: Other Procedure Variable Name: Concurrent Procedure	51 52 46 47 48 43 53	Yes; No Yes; No Yes; No Yes, routine Yes, selective No Yes No N/A ASA 1 - No Disturb ASA 2 - Mild Disturb ASA 3 - Severe Disturbance ASA 4 - Life Threatening ASA 6 - Morbund	Values capped between 0 and 30

Position #	Variable Name	Data Type	Variable Label	Search Term in Variables and Defintions	Page Number in Variables and Defintions	Variable Options	Comments
96	DTDISCH_OP	Num	Days to discharge from operation	Days to hospital discharge from initial bariatric or metabolic surgery date			Values capped between 0 and 150
87	DTDISCH_OF	Num	Days to discharge from hospital admit	Days to hospital discharge from hospital admission date			Values capped between 0 and 150
88	DTDEATH_OP	Num	Days to death from operation	Days to death from initial bariatric surgery operation date			Values capped between 0 and 30
89	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	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
90	OPYEAR	Num	Year of Operation	Year of initial bariatric or metabolic surgery			
91	OPLENGTH	Num	Operation Length (minutes)	Length of baratric/metabolic surgery, in minutes			Values capped between 1 and 720
92	ACTERENALFAILURE	Char	Acute Renal Failure	Variable Name: Postoperative Progressive Renal Insufficiency/ Postoperative Acute Renal	73	Yes; No	
				Failure Requiring Dialysis			
93	CARDIACARRESTCPR	Char	Intra-Op or Post-Op Cardiac Arrest Requiring CPR	Variable Name: Intraoperative or Postoperative Cardiac Arrest Requiring CPR	78	Yes; No	
94		Char	Coma > 24 hours	Variable Name: Postoperative Coma >24 Hours	88	Yes; No	
95	CVA	Char	Stroke/CVA	Variable Name: Intraoperative or Postoperative Stroke/Cerebral Vascular Accident (CVA)	77	Yes; No	
96	POSTOPDEEPINCISIONALSSI	Num	Number of Post-Op Deep Incisional SSI occurrences	Variable Name: Deep Incisional SSI	59		
97	DSSIPATOS	Char	Deep Incisional SSI PATOS	Variable Name: Deep Incisional SSI – PATOS	60	Yes; No	
98	MYOCARDIALINFR	Char	Intra-op or Post-op Myocardial Infarction	Variable Name: Intraoperative or Postoperative Myocardial Infarction	79	Yes; No	
99	POSTOPVENTILATOR	Num	Number of On Ventilator > 48 hours occurrences	Variable Name: Postoperative On Ventilator > 48 Hours	71		
			Ventilator > 48 hours PATOS	Variable Name: On Ventilator > 48 Hours – PATOS	72	Yes; No	
101	POSTOPORGANSPACESSI	Num	Number of Post-Op Organ/Space SSI occurrences	Variable Name: Organ/Space SSI	61		
102		Char	Organ/Space SSI PATOS	Variable Name: Organ/Space SSI – PATOS	63	Yes; No	
103	POSTOPPNEUMONIA	Num	Number of Post-Op Pneumonia occurrences	Variable Name: Postoperative Pneumonia	65		
104	PNAPATOS	Char	Pneumonia PATOS	Variable Name: Pneumonia – PATOS	67	Yes; No	
105	PREIFNRVINJ	Char	Peripheral Nerve Injury	Variable Name: Postoperative Peripheral Nerve Injury	89	Yes; No	
106	PROGRSRENALINSUF	Char	Progressive Renal Insufficiency	Variable Name: Postoperative Progressive Renal Insufficiency/ Postoperative Acute Renal Failure Requiring Dialysis	73	Yes; No	
107	PULMONARYEMBOLSM	Char	Pulmonary Embolism	Variable Name: Postoperative Pulmonary Embolism	70	Yes; No	
108	POSTOPSEPSIS	Num	Number of Post-Op Sepsis Occurrences	Variable Name: Postoperative Sepsis	82		
109	SEPSISPATOS	Char	Sepsis PATOS	Variable Name: Sepsis – PATOS	85	Yes; No	
110	POSTOPSEPTICSHOCK	Num	Number of Post-Op Septic Shock Occurrences	Variable Name: Postoperative Septic Shock	86		
111		Char	Septic Shock PATOS		87	Yes; No	
112	SSI	Num	Number of Post-Op Superficial Incisional SSI occurrences	Variable Name: Superficial Incisional SSI	56		
113			Superficial Incisional SSI PATOS	Variable Name: Superficial Incisional SSI – PATOS	58	Yes; No	
114	TRANSFINTOPPSTOP	Char	Transfusion Intra-op/Post-Op (72h of surgery start time)	Variable Name: Transfusion Intra/Postop (RBC within the First 72 Hrs of Surgery Start Time)	80	Yes; No	
115		Num	Number of Units transfused (1-200)	Variable Name: Transfusion Intra/Postop (RBC within the First 72 Hrs of Surgery Start Time)	80		
116	UNPLINTUBATION		Unplanned Intubation	Variable Name: Intraoperative OR Postoperative Unplanned Intubation	68	Yes; No	
117	POSTOPUTI	Num	Number of Post-Op Urinary Tract Infection occurrences	Variable Name: Postoperative Urinary Tract Infection	74		
118		Char	Urinary Tract Infection PATOS	Variable Name: UTI – PATOS	76	Yes; No	
119	VEINTHROMBREQTER	Char	Post-Op Vein Thrombosis Requiring Therapy	Variable Name: Postoperative Vein Thrombosis Requiring Therapy	81	Yes; No	
120	WOUNDDISRUPTION	Char	Wound Disruption	Variable Name: Wound Disruption	64	Yes; No	
121	UNPLANNEDADMISSIONICU30	Char	Unplanned Admission to ICU within 30 days	Variable Name: Postoperative Unplanned Admission to ICU within 30 Days	90	Yes; No	
122	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	92	Yes; No	
123	DEATH_RELATED_BAR	Char	Death Likely Related to the Operation	Variable Name: Was the Death Likely Related to the Operation	93	Yes; No	
124	DEATH_CAUSE_BAR	Char	Most likely cause of death	Variable Name: Most Likely Cause of Death	94	See "Most Likely Cause of Death Guidance Table" on page 94 in in Variables and Defintions	
125	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?	97	Yes; No	
			Discharge Destination	Variable Name: Hospital Discharge Destination	91	Skilled care, not home	
	DISCHARGE DESTINATION	Char					
	DISCHARGE_DESTINATION	Char	Discharge Destination			Unskilled facility, not home	
	DISCHARGE_DESTINATION	Char	Discharge Destination	3		Unskilled facility, not home Facility which was home	
	DISCHARGE_DESTINATION	Char	District Destination				
	DISCHARGE_DESTINATION	Char	bisonal ge Destination			Facility which was home Home Separate acute care	
	DISCHARGE_DESTINATION	Char	Discharge Destination			Facility which was home Home	
	DISCHARGE_DESTINATION	Char	Eschange Bestimation			Facility which was home Home Separate acute care Rehab Expired	
126	DISCHARGE_DESTINATION 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?	128	Facility which was home Home Separate acute care Rehab	
126		Char	Able to follow the patient for the full 30 days	Variable Name: Were you able to follow the patient for the full 30 days? Variable Name: Was the Postoperative Exam Performed by a Bariatric Physician, Nurse	128	Facility which was home Home Separate acute care Rehab Expired Unknown	
126	FOLLOW_30DAYS_BAR	Char	Able to follow the patient for the full 30 days	Variable Name: Were you able to follow the patient for the full 30 days?		Facility which was home Home Separate acute care Rehab Expired Unknown Yes, No	
126 127 128	FOLLOW_30DAYS_BAR EXAM_PERFORMED_PERSON_BA R	Char	Able to follow the patient for the full 30 days Exam performed by a bariatric physician or PA/NP	Variable Name: Were you able to follow the patient for the full 30 days? Variable Name: Was the Postoperative Exam Performed by a Bariatric Physician, Nurse Practitioner, or Physician's Assistant? Variable Name: Did the Patient have a Reoperation within the 30 Day Postoperative Period?	129	Facility which was home Home Separate acute care Rehab Expired Unknown Yes; No Yes; No	

MBSAQIP 2015 PUF USER GUIDE (RE-RELEASED OCTOBER 2018)

Beetitee #	Mantable Name	D-1-	Western Lebel	December Towns to Month Law and Deffections	Danie Mandania	Madable Outland	0
Position #	Variable Name	Data Type	Variable Label	Search Term in Variables and Defintions	Page Number in Variables and Defintions	Variable Options	Comments
131	INTV30	Char	At least one intervention within 30 days of op	Variable Name: Did the Patient have an Intervention within the 30 day Postoperative Period?	119	Yes; No	
132	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	131	Yes; No	
133	INCISIONAL_HERNIA_NOTED_BAR	Char	Incisional Hernia Noted on Exam	Variable Name: Was an Incisional Hernia Noted on Exam Postoperatively	132	Yes; No	
134	DRAIN_PRESENT_30DAY_BAR	Char	Operative drain still present at 30 days	Variable Name: Was an Operative Drain Still Present at 30 days Postoperative	133	Yes; No	
135	DTPOSTOPSUPERFICIALINCISION ALSSI	Num	Days from operation date to first recorded 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
136	DTPOSTOPDEEPINCISIONALSSI	Num	Days from operation date to first recorded 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
137	DTPOSTOPORGANSPACESSI	Num	Days from operation date to first recorded 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
138	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
139	DTPOSTOPPNEUMONIA	Num	Days from operation date to first recorded 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
140		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
141	DTPOSTOPSEPTICSHOCK	Num	Days from operation date to first recorded 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
142	DTPOSTOPUTI	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			Values capped between 0 and 30. If POSTOPUTI = 0 then this variable will be missing
143	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
144	DTUNPLINTUBATION	Num	Days from operation date to Unplanned 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
145	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
146	DTPROGRSRENALINSUF	Num	Days from operation date to Progressive 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
147	DTACTERENALFAILURE	Num	Days from operation date to Acute Renal 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
148	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
149	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
150	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
151	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
152	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
153	DTTRANSFINTOPPSTOP	Num	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
154	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

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Position #	Variable Name	Data	Variable Label	Search Term in Variables and Defintions	Page Number in	Variable Options	Comments
		Type			Variables and		
					Defintions		

REOPERATION

Position #	Variable Name	Data	Variable Label	Search Term in Variables and Definitons	Page Number in	Variable Options	Comments
		Type			Variables and		
					Definitions		
1		Num	Case Identification Number	Each case or record in the database has a unique CaseID number.			
2	REOP_INFORMATION_SOURCE_B	Char	Information Source	Variable Name: Information Source for Reoperation	118	Medical record	
	AR					Patient/Family Report	
						Other	
3	REOP_RELATED_BAR	Char	Reoperation related to metabolic/bariatric procedure	Variable Name: Was this Reoperation likely related to a Metabolic or Bariatric procedure?	105	Yes; No	
4	REOP SUSPECTED REASON BAR	Char	Most likely reason for reoperation	Variable Name: Most Likely Reason for Reoperation	115	See "Most Likely Reason for Reoperation Guidance	
					-	Table" on page 115 in Variables and Defintions	
5	REOP_CODE_BAR	Char	Reoperation Type	Variable Name: Reoperation Type	112	See "Reoperation Guidance Table" on page 112 in	
						in Variables and Defintions	
6	REOP_CPT_BAR	Char	Reoperation CPT	Variable Name: CPT code for Reoperation	114		
7	REOP_UNPLANNED	Char	Unplanned reoperation	Variable Name: Was this reoperation unplanned at the time of the principal procedure?	103	Yes; No	
В	REOP_CENTER	Char	Reoperation performed at reporting center	Variable Name: Was this reoperation performed at your hospital?	104	Yes; No	
9	REOP_EMERGENCY	Char	Emergency Reoperation	Variable Name: Reoperation Emergency Case	106	Yes; No	
10	REOP_STAPLING_PROC	Char	Reoperation Stapling Procedure	Variable Name: Was this Reoperation a Stapling Procedure?	107	Yes; No	
11	REOP_REVCONV_PROC		Reoperation Revision/Conversion	Variable Name: Was this Reoperation a Revision/Conversion?	108	Yes; No	
12	REOP MINILOOP	Char	Reoperation Mini-Loop Gastric Bypass	Variable Name: Was this Reoperation a Mini-Loop Gastric Bypass?	109	Yes: No	
	_		1	, , , , , , , , , , , , , , , , , , , ,		· ·	
13	REOP_GAS_PLICATION	Char	Reoperation Gastric Plication	Variable Name: Was this Reoperation a Gastric Plication?	110	Yes; No	
14			Reoperation Endoscopic Therapy	Variable Name: Was this Reoperation an Endoscopic Therapy?	111	Yes: No	
15			Days to Reoperation	Days from initial bariatric or metabolic surgery procedure to reoperation.			Values capped between 0 and 30

READMISSION

Position #	Variable Name	Data Type	Variable Label	Search Term in Variables and Definitons	Page Number in Variables and Definitions	Variable Options	Comments
	CASEID	Num	Case Identification Number	For the control of the depth of the control of the			
				Each case or record in the database has a unique CaseID number.			
2	READ_INFO_SOURCE	Char	Information Source	Information Source for Readmission	98	Medical record	
						Patient/Family Report	
						Other	
-	READ_RELATED		procedure	Was this readmission likely related to a metabolic or bariatric procedure?	98	Yes; No	
4	SUSPREASON	Char	Most Likely Reason for Readmission	Variable Name: Most Likely Reason for Postoperative Readmission	99	See "Most Likely Reason for Readmission Guidance Table" on page 99 in in Variables and Defintions	
5	READ_UNPLANNED	Char	Unplanned Readmission	Was this readmission unplanned at the time of the principal operative procedure?	98	Yes; No	
6	READ_HOSPITAL	Char	Readmission Occured at Reporting Center	Did this readmission occur at your Center (Hospital)?	98	Yes; No	
7	DTREAD	Num	Days from Operation date to Readmission	Days to readmission from original metabolic or bariatric surgery operation date			Values capped between 0 and 30
3	DTREAD_DISCH		Days from Original Discharge to Readmission	Days to readmission from original hospital stay discharge			Values capped between 0 and 30
9	DTDISDT_READ		Days from Readmission to Readmission Discharge	Days to readmission discharge from readmission date			Values capped between 0 and 150

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Position #	Variable Name	Data	Variable Label	Search Term in Variables and Defintions	Page Number in	Variable Options	Comments
		Гуре			Variables and		
					Defintions		

INTERVENTION

	Туре	Variable Label	Search Term in Variables and Definitons	Page Number in Variables and Definitions	Variable Options	Comments
	Num					
	Num			Definitions		
	Num					
	Num					
	Num					İ
	Num					<u> </u>
		Case Identification Number	Each case or record in the database has a unique CaseID number.			İ
ITV_INFORMATION_SOURCE_BA	Char	Information Source	Variable Name: Information Source for Intervention	127	Medical Record	
					Patient/Family Report	İ
					Other	İ
ITV RELATED BAR	Char	Intervention related to metabolic/bariatric	Variable Name: Was the Intervention likely related to a Metabolic or Bariatric procedure?	121	Yes: No	
				i=:	,	İ
ITV REASON BAR			Variable Name: Most Likely Reason for Intervention	124	See "Most Likely Reason for Intervention Guidance	
TIV_REAGON_BAR	Onai	Wost Elkely Reason for intervention	Variable Name. Wost Electy Neason for Intervention	124		İ
					Table on page 124 in variables and Delinions	İ
TT/ 0005 040	01			100	0 0.11	
II V_CODE_BAR	Cnar	Intervention Type	variable Name: Intervention Type			İ
						1
ITV_EMERGENCY_BAR	Char	Emergency Intervention	Variable Name: Intervention Emergency Case	122		·
ITV_THER_BAR	Char	Intervention Therapeutic Endoscopy	Therapeutic Endoscopy	123	See "Therapeutic Endoscopy" in the "Intervention	If INTV_CODE_BAR does not equal "Therapeutic
					Guidance Table" on page 123 in Variables and	Endoscopy" then this variable will be missing
						1
TINTV	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
11	IV_RELATED_BAR IV_REASON_BAR IV_CODE_BAR IV_UNPLANNED_BAR IV_EMERGENCY_BAR IV_THER_BAR	IV_RELATED_BAR Char IV_REASON_BAR Char IV_CODE_BAR Char IV_UNPLANNED_BAR Char IV_EMERGENCY_BAR Char IV_THER_BAR Char	Intervention related to metabolic/bariatric procedure V_REASON_BAR Char Most Likely Reason for Intervention V_CODE_BAR Char Intervention Type V_UNPLANNED_BAR Char Unplanned Intervention V_EMERGENCY_BAR Char Emergency Intervention V_THER_BAR Char Intervention V_THER_BAR Char Emergency Intervention Intervention Therapeutic Endoscopy	V_RELATED_BAR	V_RELATED_BAR Char Intervention related to metabolic/bariatric Variable Name: Was the Intervention likely related to a Metabolic or Bariatric procedure? 121 V_REASON_BAR Char Most Likely Reason for Intervention Variable Name: Most Likely Reason for Intervention 124 V_CODE_BAR Char Intervention Type Variable Name: Intervention Type 123 V_UNPLANNED_BAR Char Unplanned Intervention Variable Name: Was this intervention unplanned at the time of the principal procedure? 120 V_EMERGENCY_BAR Char Char Intervention Variable Name: Intervention Emergency Case 122 V_THER_BAR Char Intervention Type 123 Therapeutic Endoscopy 123 Therapeutic Endoscopy 123	Patient/Family Report Other V_RELATED_BAR Char Intervention related to metabolic/bariatric procedure Wariable Name: Was the Intervention likely related to a Metabolic or Bariatric procedure? 121 Yes; No Yes; No Yes; No Total Wariable Name: Most Likely Reason for Intervention Variable Name: Most Likely Reason for Intervention 124 See "Most Likely Reason for Intervention Guidance Table" on page 124 in Variables and Definitions V_CODE_BAR Char Intervention Type Variable Name: Intervention Type Variable Name: Was this intervention unplanned at the time of the principal procedure? V_EMERGENCY BAR Char Intervention Type Variable Name: Was this intervention unplanned at the time of the principal procedure? V_THER_BAR Char Intervention Type Variable Name: Mast his intervention unplanned at the time of the principal procedure? Variable Name: Intervention Type Variable Name: Intervention Emergency Case V_THER_BAR Char Intervention Type Variable Name: Intervention Emergency Case Variable Name: Intervention Type Variable Name: Intervention Type Variable Name: Intervention Emergency Case Variable Name: Intervention Type Variable Name: Intervention Type Variable Name: Intervention Type Variable Name: Intervention Type Variable Name: Intervention Type Variable Name: Intervention Type Variable Name: Intervention Type Variable Name: Intervention Type Variable Name: Intervention Type Variable Name: Intervention Type Variable Name: Intervention Type Variable Name: Intervention Type Variable Name: Intervention Type Variable Name: Intervention Type Variable Name: Variable Name: Variable Name: Variable Name: Intervention Type Variable Name: Variabl

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Position #	Variable Name	Data Type	Variable Label	Search Term in Variables and Definitons	Page Number in Variables and Definitions	Variable Options	Comments
	CASEID		Case Identification Number	Each case or record in the database has a unique CaseID number.			
	HGT		Height	Variable Name: Preoperative Height	13		Same variable found in the main dataset
3	HGTUNIT	Char	Height Unit	Height Measurement Units	13	in, cm	Same variable found in the main dataset
4	WGT_CLOSEST	Num	Pre-Op Weight closest to bariatric surgery	Variable Name: Weight Closest to Surgery	15		Same variable found in the main dataset
5	WGTUNIT_CLOSEST	Char	Pre-Op Weight closest to bariatric surgery Unit	Closest to Surgery Pre-op Weight Measurement Units	15	lbs, kg	Same variable found in the main dataset
6	WGT_HIGH_BAR	Num	Highest Pre-Op Weight recorded	Variable Name: Highest Recorded Weight within 1 year at the Program	14		Same variable found in the main dataset
7	WGT_HIGH_UNIT_BAR	Char	Highest Pre-Op Weight recorded Unit	Highest Recorded Pre-op Weight Measurement Units	14	lbs, kg	Same variable found in the main dataset
8	WGT_DISCH	Num	Post-Op Weight	Variable Name: Postoperative Weight	130		
9	WGTUNIT_DISCH	Char	Post-Op Weight Unit	Post-op Weight Measurement Units	130	lbs, kg	
10	BMI	Num	Pre-Op BMI closest to bariatric surgery	Calculated from closest to surgery recorded pre-op weight and height			Same variable found in the main dataset. Values capped between 15 and 150
11	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
12	BMI_DISCH	Num	Post-Op BMI	Calculated from post-op weight and height			Values capped between 15 and 150
13	DTBMI		Days from bariatric surgery to Post-Op BMI measurement	Days from bariatric or metabolic surgery to post-op BMI measurement			Values capped between 0 and 150



METABOLIC AND BARIATRIC SURGERY ACCREDITATION AND QUALITY IMPROVEMENT PROGRAM



