

METABOLIC AND BARIATRIC SURGERY ACCREDITATION AND QUALITY IMPROVEMENT PROGRAM

User Guide for the 2020 Participant Use Data File (PUF)

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PROPRIETARY AND CONFIDENTIAL

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1. Introduction

The Metabolic and Bariatric Surgery Accreditation and Quality Improvement Program (MBSAQIP®) is pleased to introduce the 2020 Participant Use Data File (PUF) – including cases with operation dates between January 1, 2020 and December 31, 2020. The PUF is a Health Insurance Portability and Accountability Act (HIPAA)-compliant data file containing cases submitted to the MBSAQIP 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 165,000 metabolic and bariatric cases captured 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 2020 Participant Use Data File available for download via the MBSAQIP website (https://www.facs.org/quality-programs/mbsaqip/participant-use). The sections contained herein will provide the user with information on how to request the PUF, contents of the data files, data collection background, data limitations, and answers to frequently asked questions.

This user guide applies specifically to the 2020 PUF and will be updated with each subsequent PUF. All historical user guides remain available at the MBSAQIP website (https://www.facs.org/quality-programs/mbsaqip/participant-use). Please note that a new MBSAQIP data registry was launched January 1, 2020. These represent the first PUF documents reflecting the new registry, and, as such, may differ considerably from historical versions. It is the responsibility of the researcher to identify nuances between variables across different file years and versions.

2. Data Request Process

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

- 1. From the MBSAQIP main page (www.facs.org/quality-programs/mbsaqip) the requestor can click on the "Participant Use Data File (PUF)" link. This will take you to the PUF information and request page.
- 2. Following a brief introduction and explanation of the PUF, the requestor can click on "Request PUF."

- 3. This will take the requestor to the Data Use Agreement. This is a three page document that implements the data protections of the Health Insurance Portability and Accountability Act of 1996 (HIPAA) and the MBSAQIP Participation Agreement. Delivery of the PUF is contingent on agreement to the terms and conditions specified within the Data Use Agreement. The Data Use Agreement can be read from this page or the three-page document can be downloaded. The requestor is then required to type in their first and last name and click on "Request Data File." By clicking on "Request Data File" the requestor agrees to the terms and conditions of the Data Use Agreement.
- 4. Requestors will then be required to complete a brief online form to provide ACS with basic information about themselves, including the participating center in which they are currently employed and in what capacity, as well as how the requestor plans to utilize the PUF data. Once all of the required fields are completed, the requestor clicks "Submit."
- 5. Upon approval an email will be sent to the requestor containing a username and password along with the URL to download the data. The web link will be active from the time of the email for 10 full days (240 hours).
- 6. The file will be available in three different formats (Text, SPSS, SAS) and depending on the user's internet connection speed should take between 5 and 30 minutes to download.
- 7. The requestor may be contacted to confirm receipt of the data file and allow for feedback on the delivery mechanism, data points contained, and data file format.

3. File Description

The PUF consists of four distinct datasets which are referred to as main, reoperation, readmission, and intervention, 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 2020. The reoperation, readmission, and intervention datasets are available in long form (i.e., multiple rows per case), and contain detailed information on readmissions, reoperations, and interventions, respectively, associated with cases in the main dataset. All four datasets contain a unique key matching variable, CASEID, which allows users to merge datasets as necessary.

All postoperative events or outcomes (e.g., death, sepsis, reoperation, readmission, intervention, postop BMI, etc.) recorded in the main, reoperation, readmission, and intervention datasets are 30-day outcomes (i.e., occurred within 30 days of the index procedure).

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

is: "What is the 30-day unplanned reoperation rate for all cases included in the main dataset?" To answer this question, the researcher could use the variable REOP_UNPLANNED in the reoperation dataset to identify and create a flat file of cases where at least one 30-day reoperation was recorded as unplanned following 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 UNPLANNED_REOP30, taking values of either "Yes" or "No" to indicate whether at least one unplanned 30-day reoperation occurred for each case in the main dataset. The 30-day unplanned reoperation rate for all metabolic and bariatric surgical procedures could then be estimated by calculating the proportion of cases in the main dataset where UNPLANNED_REOP30 = "Yes."

Using the CASEID variable, other readmission, reoperation, or intervention-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 Tables 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: 1.2 GB SPSS: 1.3 GB TXT: 121 MB	Contains 183 HIPAA compliant variables on 168,568 cases submitted from 885 centers in 2020. Each row represents one case and there is exactly one row per case.		
MBSAQIP_PUF_Read	SAS, SPSS, TXT	SAS: 1.3 MB SPSS: 1.3 MB TXT: 345 KB	Contains 7 HIPAA compliant variables on 6,038 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: 1.2 MB SPSS: 1.2 MB TXT: 325 KB	Contains 14 HIPAA compliant variables on 2,337 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: 640 KB SPSS: 602 KB TXT: 170 KB	Contains 10 HIPAA compliant variables on 1,782 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.		

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 and web-based training. The Clinical Support staff makes available a host of written educational resources available through the MBSAQIP Resource Portal through a support system designed to ensure MBSCRs have the knowledge and resources available to collect high-quality data.

The data integrity audit is a fundamental tool of the MBSAQIP to assess the quality of the data collected at participating centers. The process involves the review of multiple charts, some of which are selected randomly, and others selected based on criteria designed to identify potential reporting errors.

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

5. Participation and Case Exclusion Criteria

Case Collection Process

All metabolic and bariatric surgical procedures and interventions, including those performed by non-metabolic and bariatric surgery credentialed general surgeons or other physician practitioners (i.e. gastroenterologists), must be entered into the MBSAQIP 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 (MBSCRs), 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 2020. 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 5 years of age.
- Primary Procedure not performed by the reporting site.
- 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 as a new case into the data registry per patient, per 30 days, for a center.
- Cases completed due to complication or occurrences from a prior metabolic and bariatric procedure (with the exception of GERD). For example, cases in which a portion of the metabolic and bariatric procedure was revised, or the metabolic and bariatric procedure was converted due to ulcer, perforation, stricture, nausea, vomiting, or excessive weight loss, the procedure would not be captured on a case form, rather captured as a Reoperation or Intervention. Note: Only Reoperations and Interventions which occurred within the 30 day postoperative timeframe of a case captured on a case form are included in the PUF.

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 saved as complete on a case form in the MBSAQIP registry 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 may also 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 5 are available for assessment, so the age distribution is somewhat truncated. Patients under the age of 13 and over the age of 80 also have their ages de-identified in the PUF (age is set to missing with added indicator variables included to identify patients under the age of 13 and over the age of 80, respectively).
- 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 >50%, depending on the tests). This high percentage of missing data can make it problematic to use these variables in traditional logistic regression models 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 3 of this document for a step-by-step approach on how to do so.
- Q: Is there a time limit for downloading the files after the PUF request is approved?
- A: Yes, users have 10 days from the time the PUF approval notification is sent to download the files.

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 Tables 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, conversion, 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 2020 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 have been cleaned (e.g., removal of invalid dates, truncation of variable bounds, etc.), but no analysis (e.g., risk adjustment, quality assessments, etc.) has been performed.

Q: Can we publish data from the PUF?

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

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

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

Q: Are other MBSAQIP PUF data sets available?

A: Yes, the 2015 PUF was the first MBSAQIP PUF available. Subsequent PUFs have been released on a yearly basis.

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.
- Q: Are other PUF data sets available?
- A: There are five previous MBSAQIP PUF files available for request / download:

PUF Year	PUF Type	Cases	Centers
2019	MBSAQIP	206,570	868
2018	MBSAQIP	204,837	854
2017	MBSAQIP	200,374	832
2016	MBSAQIP	186,772	791
2015	MBSAQIP	168,903	742

Values in the Data

- Q: Why is age missing for some records in the main dataset?
- A: Records will have a missing value for age if the calculated age of the patient was less than 13 years or greater than 80 years.
- Q: Why are some records in the main dataset missing a pre-op BMI measurement?
- A: Records will have a missing pre-op BMI measurement (either closest to surgery or highest recorded within one year prior to the surgery) if the pre-op BMI was unknown or the calculated pre-op BMI was less than 15 or greater than 150.
- Q: Some of the duration variables (e.g., Days from Operation Date to Readmission, Days from Operation Date to Reoperation, etc.) have unknown durations. Why is that?
- A: Records will have unknown durations for duration variables if an unknown or invalid date was entered which inhibited the calculation of duration. The duration (i.e., number of days) will be missing for such records.
- Q: Some of the required variables have missing values. Why is that?
- A: In the processing of large amounts of data, a small percentage of descriptions or data fields are inadvertently removed through either software glitches, automated uploader issues, or data entry errors. The program continues to improve the data collection software to minimize the potential for such issues and errors.

File Formats

- Q: In what file formats are the data available?
- A: The datasets are made available as tab delimited TXT files, SPSS data files, or SAS data files. Please note that SAS or SPSS files require special software. You can run the Text file, then save, and convert to an Excel File.

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 Tables

The PUF User Guide Tables provides a variable-by-variable description for each of the four datasets available in the PUF. This tables 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. 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 Tables 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

WAIN							
Position #	osition # Variable Name Data Type Variable Label		Variable Label	Search Term in Variables and Definitions	Page Number in Variables and Definitions	Variable Options	Comments
1	CASEID	Num	Case Identification Number	Each case or record in the database has a unique CaseID number.			
2	SEX	Char	Sex	Variable Name: Sex	2	Male; Female; Non-binary	
3	AGE	Num	Age (years)	Variable Name: Date of Birth	1		Values capped between 13 and 80
4	ageLT13	Char	Age Less Than 13 Years	Indicator for patients with recorded age less than 13		Yes; No	
5	ageGT80	Char	Age Greater Than 80 Years	Indicator for patients with recorded age greater than 80		Yes; No	
6	RACE PUF	Char	Race	Variable Name: Race		White	Field is multi-select. Selections are separated by " ~ ". Any
	_					Black or African American	unique categories with frequency < 50 are set to 'Race
						American Indian or Alaska Native	combinations with low frequency'.
					_	Native Hawaiian or Other Pacific	1
					3	Islander	
						Asian	1
						Some Other Race	
						Unknown/Not Reported	1
7	HISPANIC	Char	Hispanic Ethnicity	Variable Name: Hispanic Ethnicity	4	Yes; No; Unknown	
8	PROCEDURE_TYPE	Char	Procedure Type	Variable Name: Procedure Type		Conversion; Initial; Revision	Please refer to the Case Exclusion Criteria section in the
					7		accompanying User Guide for procedure types and cases
							eligible for inclusion in these data files.
9	CPT	Char	Primary Procedure CPT	Variable Name: Primary Procedure	8		
10	CPT_DESCR	Char	Primary Procedure CPT Description	Variable Name: Primary Procedure	8		
11	INIT_PROC_DESC	Char	Initial Procedure Description	Variable Name: Initial Procedure Description	9	See "Variable Name: Initial Procedure Description" "Options" List on page 9 of Variables and Definitions	Required if 43659 or 43999 is entered for the Primary Procedure CPT®. If PROCEDURE_TYPE not = 'Initial', then this field will be missing.
12	CONV_PREV_PROC	Char	Conversion Previous Procedure	Variable Name: Conversions Previous Procedure	10	See "Variable Name: Conversions Previous Procedure" "Options" List on	Field is multi-select. Selections are separated by " ~ ". If PROCEDURE_TYPE not = 'Conversion', then this field will be
13	CONV_CURR_PROC	Char	Conversion Current Primary Procedure	Variable Name: Conversions Current Primary Procedure	+	page 10 of Variables and Definitions See "Variable Name: Conversions	missing. If PROCEDURE_TYPE not = 'Conversion', then this field will be
					11	Current Primary Procedure" "Options" List on page 11 of Variables and Definitions	missing.
	REV_PROC	Char	Revision Procedure Type	Variable Name: Revisions Procedure Type	12	See "Variable Name: Revisions Procedure Type" "Options" List on page 12 of Variables and Definitions	If PROCEDURE_TYPE not = 'Revision', then this field will be missing.
15	REV_CONV_EMERGCASE	Char	Revision/Conversion Emergency Case	Variable Name: Emergency Case	13	Yes; No	If PROCEDURE_TYPE = 'Initial', this field will be missing.
16	REV_CONV_FININDIC	Char	Revision/Conversion Final Indication	Variable Name: Final Indication	14	See "Variable Name: Final Indication" "Options" List on page 14 of Variables and Definitions	If PROCEDURE_TYPE = 'Initial', this field will be missing.
17	OTHCPT1	Char	Other CPT 1	Variable Name: Other Procedures			Any additional CPT® code. If none entered field will be 'NULL'.
18	OTHCPT2	Char	Other CPT 2	7			1
19	OTHCPT3	Char	Other CPT 3	7			1
20	OTHCPT4	Char	Other CPT 4	†			1
21	OTHCPT5	Char	Other CPT 5	†			1
22	OTHCPT6	Char	Other CPT 6	†	15		1
23	OTHCPT7	Char	Other CPT 7	7			1
24	OTHCPT8	Char	Other CPT 8	†	1		1
25	OTHCPT9	Char	Other CPT 9	†			1
26	OTHCPT10	Char	Other CPT 10	†	1		1
27	CONCPT1	Char	Concurrent CPT 1	Variable Name: Concurrent Procedures			Any additional CPT® code. If none entered field will be 'NULL'.
28	CONCPT2	Char	Concurrent CPT 2	†	1		1
29	CONCPT3	Char	Concurrent CPT 3	†			1
30	CONCPT4	Char	Concurrent CPT 4	†	1		1
31	CONCPT5	Char	Concurrent CPT 5	┪	1		1
32	CONCPT6	Char	Concurrent CPT 6	┪	16		1
33	CONCPT7	Char	Concurrent CPT 7	┪	1		1
34	CONCPT8	Char	Concurrent CPT 8	-	1	-	-
	CONCPT9		Concurrent CPT 9	- 			-
35		Char		4	1		4
36	CONCPT10	Char	Concurrent CPT 10	Wastable Name Oten by Hand Manager and O	+	Was No	
37	STAPLING_PROC	Char	Stapler Used/Anastomosis Completed	Variable Name: Stapler Used/Anastomosis Completed	17	Yes; No	

Discription Control								
20	38	DISCHARGE_DESTINATION	Char	Discharge Destination	Variable Name: Hospital Discharge Destination		Expired	
BURGORPECALTY_SAR Class	1							
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Section Control Cont						20		
Unificated Policy Ty Bulk Color						20		
March Company Compan							Skilled care, not home	
Section of the process of the proc								
April Committed on Primary Procedure Primary Procedure Primary Procedure Primary Procedure Primary Procedure Primary Procedure Primary							Unskilled facility, not home	
APPLICATION No. Control Specialistics Control Specialistic	39	SURGSPECIALTY_BAR	Char		Variable Name: Medical Specialist		_	
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Very of proposition Very of relatal basistance or mecabolic surgety C						21	Interventional radiologist	
40 DTPSRF Num							Metabolic and bariatric surgeon	
41 PTOP Num							Other	
International decision decision decision (as	40	OPYEAR	Num	Year of Operation	Year of initial bariatric or metabolic surgery	6		
April DTRISCH_CP Num	41	DTOP	Num	Days to operation from hospital admit date		18		Values capped between 0 and 30.
OFFICIAL CAMIT Number Nu		DEDICOUL OR				- 10		
44 HOT Num Regist Num Num Regist Num Num Regist Num Regist Num Regist Num Regist Num Num Regist Num Num Regist	42	DTDISCH_OP	Num	Days to discharge from operation date		19		Values capped between 0 and 150.
MOT MOT More Marger Num	43	DTDISCH ADMIT	Num	Days to discharge from hospital admit date		10		Values canned between 0 and 180
45 MOT_MICE_SER Num				I .				values suppose potinosii e ana 100.
MOT_HOLLSARE Num				_	=		cm: in	
47 MOT _HIGH_LINET_BAR Dark Proposed proposed for the content Unit					_			
### MILESTORY P. Care Processor Proc							ka: lbs	
MOT.CLOSEST Num					_		ng, iba	Values canned between 15 and 150
WeSTUNT_CLOSEST Claur								Taliado dappou potrecen lo ana 100.
Unit		_			-		ka: lbs	
ST FUNTATPRESURG Char Pre-Op SMIt closes to baselatic surgery Calculated from pre-op weight closes to procedure and height Funtation Pre-Op Functional Health Status Variable Name: Functional Health Status Pre-Op Functional Health Status Variable Name: Functional Health Status Pre-Op Functional Health Status Variable Name: Current Smoker Pre-Op State Status Variable Name: Current Smoker Pre-Op State Status Variable Name: Current Smoker Pre-Op State Status Variable Name: Current Smoker Pre-Op Status Status Variable Name: Current Smoker Pre-Op Status Status Variable Name: Current Smoker Pre-Op Status Status Variable Name: Status Status Variable Name: Status Status Variable Name: Status	30	TTO TORNI _OLUGEST	Ullai		variable realite. everytt Glosest to Flocedule	24	ng, iba	
Sample S	51	BMI	Num	Pre-Op BMI closest to bariatric surgery	Calculated from pre-op weight closest to procedure and height	24		Values capped between 15 and 150.
Sample Control Contr	52	FUNSTATPRESURG	Char	Pre-Op Functional Health Status	Variable Name: Functional Health Status		Independent	
Sample S								
Sa						25	Totally dependent	
SS MOKER Char Current smoker within one year Variable Name: Current Smoker 26 Yes: No Variable Name: Charles Mellitus 27 Variable Name: No Var								
OABBTES Char Pre-Op Diabetes Melitius Variable Name: Diabetes Melitius Variable Name: Condition Variable Name: Diabetes Melitius Variable Name: No.	53	SMOKER	Char	Current smoker within one year	Variable Name: Current Smoker	26		
Section	54	DIABETES	Char	Pre-Op Diabetes Mellitus	Variable Name: Diabetes Mellitus		Yes, insulin	
Section						27	Yes, non-insulin	
For Chronic Condition							No	
For Chronic Condition	55	CHRONIC_STEROIDS	Char	Pre-Op Steroid/Immunosuppressant Use	Variable Name: Steroid/Immunosuppressant for Chronic	20	Yes; No	
				for Chronic Condition	Condition			
SEEP_APNEA Char Pre-Op Sleep Apnea Variable Name: Sleep Apnea 32 Yes; No Char Pre-Op GERD Variable Name: Flewfous Foregut Surgery 33 Yes; No Ves; No V								
Ser			-	-				
PREVIOUS_SURGERY Char Previous Foregut Surgery Variable Name: Previous Foregut Surgery 34 Yes; No								
61 MLALL_HISTORY Char History of MI Variable Name: History of Myocardial Infarction 35 Yes: No 662 PTC Char Previous PCIPTCA Variable Name: Previous PCIPTCA 36 Yes: No 70 Previous PCIPTCA 77 Previous PCIPTCA 77 Previous PCIPTCA 78 P				<u> </u>				
PTC								
PCARD Char Prevous Cardiac Surgery Variable Name: Previous Cardiac Surgery 37 Yes; No				<u> </u>				
Record Hilp Char Pre-Op Hypertension Variable Name: Hypertension Variable Name: Number of Anti-Hypertensive Medications Same Ves; No								
NBHTN_MEDS Char Number of Anti-Hypertensive Medications Variable Name: Number of Anti-Hypertensive Medications 1		PCARD		I .				
Action Pre-Op Hyperlipidemia Variable Name: Hyperlipidemia Variable Name: Hyperlipidemia 40 Yes, No		HIP				38	Yes; No	
Action	65	NBHTN_MEDS	Char	Number of Anti-Hypertensive Medications	Variable Name: Number of Anti-Hypertensive Medications		0	
Action						30	1	
Fre-Op Hyperlipidemia Variable Name: Hyperlipidemia Variable Name: Hyperlipidemia 40 Yes; No						33	2	
67 HISTORY_DVT Char Pre-Op Vein Thrombosis Requiring Therapy 68 THERAPEUTIC_ANTICOAGU Char Pre-Op Therapeutic Anticoagulation Variable Name: Therapeutic Anticoagulation 42 Yes; No 69 VENOUS_STASIS Char Pre-Op Venous Stasis Variable Name: IVC Filter 45 Yes; No 70 IVC_FILTER Char Pre-Op IVC Filter Wariable Name: IVC Filter 45 IVC_TIMING Variable Name: IVC_TIMING Variable Name: Currently Requiring/On Dialysis 46 Yes; No 72 DIALYSIS Char Pre-Op Requiring or on dialysis Variable Name: Renal Insufficiency Variable Name: Renal Insufficiency 47 Yes; No 73 RENAL_INSUFFICIENCY Char Pre-Op Renal Insufficiency Variable Name: Preoperative Lab Value Information 48 Values capped between 1 and 10. 75 DPRALBUM Num Days from Albumin Pre-Op Labs to Days from pre-operative Albumin to initial bariatric surgery 48 Values capped between 0 and 180.								
Therapy The						40		
68 THERAPEUTIC_ANTICOAGU LATION 69 VENOUS_STASIS Char Pre-Op Therapeutic Anticoagulation Variable Name: Therapeutic Anticoagulation Variable Name: Venous Stasis Variable Name: IVC Filter Variable Name: IVC Filter 1 IVC_TIMING Char Pre-Op IVC Filter Timing Variable Name: IVC Filter Variable Name: IVC Filter Variable Name: IVC Filter Variable Name: IVC Filter Variable Name: IVC Filter Variable Name: IVC Filter 45 Yes; No IVC filter placed in anticipation of the metabolic or bariatric procedure IVC filter was preexisting Unknown T2 DIALYSIS Char Pre-Op Requiring or on dialysis Variable Name: Renal Insufficiency Variable Name: Renal Insufficiency Variable Name: Renal Insufficiency Variable Name: Preoperative Lab Value Information Variable Name: Preoperative Lab Value Information Values capped between 1 and 10. Values capped between 0 and 180.	67	HISTORY_DVT	Char		Variable Name: Vein Thrombosis Requiring Therapy	41	Yes; No	
LATION Pre-Op Venous Stasis Variable Name: Venous Stasis 44 Yes; No 70 IVC_FILTER Char Pre-Op IVC Filter Variable Name: IVC Filter 45 Yes; No 71 IVC_TIMING Char Pre-Op IVC Filter Variable Name: IVC Filter 45 IVC filter placed in anticipation of the metabolic or bariatric procedure lift (Filter procedure lift) (Filter was preexisting Unknown) 72 DIALYSIS Char Pre-Op Requiring or on dialysis Variable Name: Currently Requiring/On Dialysis 46 Yes; No 73 RENAL_INSUFFICIENCY Char Pre-Op Renal Insufficiency Variable Name: Renal Insufficiency 47 Yes; No 74 ALBUMIN Num Pre-Op Albumin Lab Value (g/dL) Variable Name: Preoperative Lab Value Information 48 Values capped between 1 and 10. 75 DPRALBUM Num Days from Albumin Pre-Op Labs to Days from pre-operative Albumin to initial bariatric surgery 48 Values capped between 0 and 180.	CO	THED VDELITIC VALUE OF CALL	Char		Variable Name: Therepoutic Antices sulation		Van No	
69 VENOUS_STASIS Char Pre-Op Venous Stasis Variable Name: Venous Stasis 44 Yes; No 70 IVC_FILTER Char Pre-Op IVC Filter Variable Name: IVC Filter 45 Yes; No 71 IVC_TIMING Char Pre-Op IVC Filter Timing Variable Name: IVC Filter Variable Name: Na	80		Unai	Fie-Op Therapeutic Anticoagulation	variable Name: Therapeutic Anticoagulation	42	res, INU	
70 IVC_FILTER Char Pre-Op IVC Filter Variable Name: IVC Filter 45 Yes; No 71 IVC_TIMING Char Pre-Op IVC Filter Timing Variable Name: IVC Filter Var	60	211011	Char	Pre-Op Venous Stasis	Variable Name: Venous Stasis	44	Yes; No	
71 IVC_TIMING Char Pre-Op IVC Filter Timing Variable Name: IVC Filter 45 IVC filter procedure IVC filter was preexisting Unknown 72 DIALYSIS Char Pre-Op Requiring or on dialysis Variable Name: Currently Requiring/On Dialysis 46 Yes; No 73 RENAL_INSUFFICIENCY Char Pre-Op Renal Insufficiency Variable Name: Renal Insufficiency 47 Yes; No 74 ALBUMIN Num Pre-Op Albumin Lab Value (g/dL) Variable Name: Preoperative Lab Value Information 48 Values capped between 1 and 10. 75 DPRALBUM Num Days from Albumin Pre-Op Labs to Days from pre-operative Albumin to initial bariatric surgery 49 Values capped between 0 and 180.	1 09							
T2 DIALYSIS Char Pre-Op Requiring or on dialysis Variable Name: Currently Requiring/On Dialysis 46 Yes; No 73 RENAL_INSUFFICIENCY Char Pre-Op Renal Insufficiency Variable Name: Renal Insufficiency 47 Yes; No 74 ALBUMIN Num Pre-Op Albumin Lab Value (g/dL) Variable Name: Preoperative Lab Value Information 48 Values capped between 1 and 10. 75 DPRALBUM Num Days from Albumin Pre-Op Labs to Days from pre-operative Albumin to initial bariatric surgery 48 Values capped between 0 and 180.			Cilai	The state of the s		10		If IVC_FILTER = "No" then this variable will be missing.
T2 DIALYSIS Char Pre-Op Requiring or on dialysis Variable Name: Currently Requiring/On Dialysis 46 Yes; No 73 RENAL_INSUFFICIENCY Char Pre-Op Renal Insufficiency Variable Name: Renal Insufficiency 47 Yes; No 74 ALBUMIN Num Pre-Op Albumin Lab Value (g/dL) Variable Name: Preoperative Lab Value Information 48 Values capped between 1 and 10. 75 DPRALBUM Num Days from Albumin Pre-Op Labs to Days from pre-operative Albumin to initial bariatric surgery 48 Values capped between 0 and 180.	70	IVC_FILTER		Pre-Op IVC Filter Timina	Variable Name: IVC Filter			
72 DIALYSIS Char Pre-Op Requiring or on dialysis Variable Name: Currently Requiring/On Dialysis 46 Yes; No 73 RENAL_INSUFFICIENCY Char Pre-Op Renal Insufficiency Variable Name: Renal Insufficiency 47 Yes; No 74 ALBUMIN Num Pre-Op Albumin Lab Value (g/dL) Variable Name: Preoperative Lab Value Information 48 Values capped between 1 and 10. 75 DPRALBUM Num Days from Albumin Pre-Op Labs to Days from pre-operative Albumin to initial bariatric surgery 48 Values capped between 0 and 180.	70	IVC_FILTER		Pre-Op IVC Filter Timing	Variable Name: IVC Filter		metabolic or bariatric procedure	· · · · · · · · · · · · · · · · · ·
72 DIALYSIS Char Pre-Op Requiring or on dialysis Variable Name: Currently Requiring/On Dialysis 46 Yes; No 73 RENAL_INSUFFICIENCY Char Pre-Op Renal Insufficiency Variable Name: Renal Insufficiency 47 Yes; No 74 ALBUMIN Num Pre-Op Albumin Lab Value (g/dL) Variable Name: Preoperative Lab Value Information 48 Values capped between 1 and 10. 75 DPRALBUM Num Days from Albumin Pre-Op Labs to Days from pre-operative Albumin to initial bariatric surgery 48 Values capped between 0 and 180.	70	IVC_FILTER		Pre-Op IVC Filter Timing	Variable Name: IVC Filter	45		
73 RENAL_INSUFFICIENCY Char Pre-Op Renal Insufficiency Variable Name: Renal Insufficiency 47 Yes; No 74 ALBUMIN Num Pre-Op Albumin Lab Value (g/dL) Variable Name: Preoperative Lab Value Information 48 Values capped between 1 and 10. 75 DPRALBUM Num Days from Albumin Pre-Op Labs to Days from pre-operative Albumin to initial bariatric surgery 19 Values capped between 0 and 180.	70	IVC_FILTER		Pre-Op IVC Filter Timing	Variable Name: IVC Filter	45	IVC filter was preexisting	
75 DPRALBUM Num Days from Albumin Pre-Op Labs to Days from pre-operative Albumin to initial bariatric surgery AB Values capped between 0 and 180.	70 71	IVC_FILTER IVC_TIMING	Char				IVC filter was preexisting Unknown	-
	70 71	IVC_FILTER IVC_TIMING DIALYSIS	Char	Pre-Op Requiring or on dialysis	Variable Name: Currently Requiring/On Dialysis	46	IVC filter was preexisting Unknown Yes; No	
	70 71 72 73	IVC_FILTER IVC_TIMING DIALYSIS RENAL_INSUFFICIENCY	Char Char Char	Pre-Op Requiring or on dialysis Pre-Op Renal Insufficiency	Variable Name: Currently Requiring/On Dialysis Variable Name: Renal Insufficiency	46 47	IVC filter was preexisting Unknown Yes; No	-
	70 71 72 73 74	IVC_FILTER IVC_TIMING DIALYSIS RENAL_INSUFFICIENCY ALBUMIN	Char Char Char Num	Pre-Op Requiring or on dialysis Pre-Op Renal Insufficiency Pre-Op Alburnin Lab Value (g/dL) Days from Alburnin Pre-Op Labs to	Variable Name: Currently Requiring/On Dialysis Variable Name: Renal Insufficiency Variable Name: Preoperative Lab Value Information Days from pre-operative Albumin to initial bariatric surgery	46 47 48	IVC filter was preexisting Unknown Yes; No	Values capped between 1 and 10.

76	CREATININE	Num	Pre-Op Creatinine Lab Value (mg/dL)	Variable Name: Preoperative Lab Value Information	48		Values capped between 0.1 and 15.
	DPRCREAT	Num	Days from Creatinine Pre-Op Labs to	Days from pre-operative Creatinine to initial bariatric surgery			Values capped between 0 and 180.
''	DENOREAL	Nulli	Operation	operation date	48		values capped between 0 and 160.
78	HCT	Num	Pre-Op Hematocrit Lab Value (%)	Variable Name: Preoperative Lab Value Information	48		Values capped between 8 and 60.
79	DPRHCT	Num	Days from Hematocrit Pre-Op Labs to	Days from pre-operative Hematocrit to initial bariatric surgery	48		Values capped between 0 and 180.
00	HEMO	Nicon	Operation Pre-Op Hemoglobin A1c Value	operation date Variable Name: Preoperative Lab Value Information	_		Values capped between 4 and 20.
80 81	DPRHEMO	Num Num		Days from pre-operative Hemoglobin A1c to initial bariatric	48		Values capped between 4 and 20. Values capped between 0 and 180.
01	DEKNEMO	Nulli	Operation	surgery operation date	48		values capped between 0 and 160.
82	ASACLASS	Char	ASA Class	Variable Name: ASA Classification		ASA I - Normal/Healthy	
1						ASA II - Mild systemic disease	1
1						ASA III - Severe systemic disease	
1					49	ASA IV - Severe systemic disease	
1						threat to life ASA V - Moribund	-
						None assigned	-
83	ANESTYPE	Char	Intragastric Balloon Anesthesia Type	Variable Name: Intragastric Balloon Anesthesia Type		General	If INIT_PROC_DESC not ='Intragastric balloon placement' then
	7.11.201.11.2	Oriai	magacare zancom micoarcola Type	variable Harrie magazane Bancon Anocalesia Type		Monitored anesthesia care/IV	this field will be missing.
					50	None	•
						Other	
						Local	1
84	BALLOON_TYPE	Char	Intragastric Balloon Type	Variable Name: Intragastric Balloon Type		Absorbable	If INIT_PROC_DESC not ='Intragastric balloon placement' then
					54	Adjustable	this field will be missing.
					51	Air-filled	1
						Fluid-filled	
85	SURGICAL_APPROACH	Char	Procedural Approach	Variable Name: Procedural Approach		Endoscopic	
1					52	Laparoscopic	
						Open	
		Char	Robotic Assist	Variable Name: Procedural Approach	52	Yes; No	
87	APPROACH_CONVERTED	Char	Procedure converted to another approach	Variable Name: Procedure Converted to Another Approach	53	Yes; No	
88	CONVERSION	Char	Procedure Converted - Final Procedural	Variable Name: Procedure Converted to Another Approach		Endoscopic	If APPROACH_CONVERTED = "No" then this variable will be missing.
1			Approach		53	Laparoscopic	missing.
	DODOTIO ACOT CONIV	01	December Occupated Final Brown hand	Westerlie News Proceedings Occupated to Acade a Acade and		Open	KARROAANI OOMETEE INIII kaa kii aasiah aa'il ka
89	ROBOTIC_ASST_CONV	Char	Procedure Converted - Final Procedural Approach Robotic Assist	Variable Name: Procedure Converted to Another Approach	53	Yes; No	If APPROACH_CONVERTED = "No" then this variable will be missing.
90	DRAIN_PLACED	Char	Drain Placed	Variable Name: Drain Placed	54	Yes; No	moonig.
91	ANASTOMOSIS_CHECKED	Char	Anastomosis/Staple Line Leak Test	Variable Name: Anastomosis/Staple Line Leak Test	55	Yes; No	
92	OPLENGTH	Num	Operation Length (minutes)	Length of bariatric/metabolic surgery, in minutes	56		Values capped between 1 and 720.
93	METH_VTEPROPHYL	Char	VTE Prophylaxis Method(s)	Variable Name: VTE Prophylaxis		Mechanical only	
					57	Pharmacologic only	
1					31	Mechanical and pharmacologic	
						None	
		Char	Intraop/Postop Occurrence	Postprocedural Information – Occurrences	58	Yes; No	
95	POSTOPSUPERFICIALINCISI ONALSSI	Num	Number of Post-Op Superficial Incisional	Variable Name: Superficial Incisional SSI	59		
96		Char	SSI occurrences Superficial Incisional SSI PATOS	Variable Name: Superficial Incisional SSI – PATOS	61	Yes; No	
		Num	Number of Post-Op Deep Incisional SSI	Variable Name: Deep Incisional SSI			
	SI		occurrences	·	62		
		Char	Deep Incisional SSI PATOS	Variable Name: Deep Incisional SSI – PATOS	64	Yes; No	
99	POSTOPORGANSPACESSI	Num	Number of Post-Op Organ/Space SSI	Variable Name: Organ/Space SSI	65		
100			Organ/Space SSI PATOS	Variable Name: Organ/Space SSI – PATOS		Yes; No	-
	OSSIPATOS	Char			67		
101		Char Num			67		Post-op Organ/Space SSI occurrence must be assigned in order
	POSTOPANASTSLLEAK	Num	Number of Post-Op Anastomotic/Staple Line Leak occurrences	Variable Name: Anastomotic/Staple Line Leak	68		Post-op Organ/Space SSI occurrence must be assigned in order to assign Anastomotic/Staple Line Leak.
101	POSTOPANASTSLLEAK		Number of Post-Op Anastomotic/Staple Line Leak occurrences Number of Post-Op Wound Disruption				
102	POSTOPANASTSLLEAK WOUNDDISRUPTION	Num	Number of Post-Op Anastomotic/Staple Line Leak occurrences Number of Post-Op Wound Disruption occurrences	Variable Name: Anastomotic/Staple Line Leak Variable Name: Wound Disruption	68 69		
102	POSTOPANASTSLLEAK WOUNDDISRUPTION	Num	Number of Post-Op Anastomotic/Staple Line Leak occurrences Number of Post-Op Wound Disruption	Variable Name: Anastomotic/Staple Line Leak	68		
102	POSTOPANASTSLLEAK WOUNDDISRUPTION POSTOPPNEUMONIA	Num	Number of Post-Op Anastomotic/Staple Line Leak occurrences Number of Post-Op Wound Disruption occurrences Number of Post-Op Pneumonia	Variable Name: Anastomotic/Staple Line Leak Variable Name: Wound Disruption	68 69	Yes; No	
102 103 104	POSTOPANASTSLLEAK WOUNDDISRUPTION POSTOPPNEUMONIA PNAPATOS	Num Num Num	Number of Post-Op Anastomotic/Staple Line Leak occurrences Number of Post-Op Wound Disruption occurrences Number of Post-Op Pneumonia occurrences Pneumonia PATOS Number of Post-Op Unplanned Intubation	Variable Name: Anastomotic/Staple Line Leak Variable Name: Wound Disruption Variable Name: Pneumonia	68 69 70 73	Yes; No	
102 103 104 105	POSTOPANASTSLLEAK WOUNDDISRUPTION POSTOPPNEUMONIA PNAPATOS UNPLINTUBATION	Num Num Num Char Num	Number of Post-Op Anastomotic/Staple Line Leak occurrences Number of Post-Op Wound Disruption occurrences Number of Post-Op Pneumonia occurrences Pneumonia PATOS Number of Post-Op Unplanned Intubation occurrences	Variable Name: Anastomotic/Staple Line Leak Variable Name: Wound Disruption Variable Name: Pneumonia Variable Name: Pneumonia – PATOS Variable Name: Unplanned Intubation	68 69 70	Yes; No	
102 103 104	POSTOPANASTSLLEAK WOUNDDISRUPTION POSTOPPNEUMONIA PNAPATOS	Num Num Num Char	Number of Post-Op Anastomotic/Staple Line Leak occurrences Number of Post-Op Wound Disruption occurrences Number of Post-Op Pneumonia occurrences Pneumonia PATOS Number of Post-Op Unplanned Intubation	Variable Name: Anastomotic/Staple Line Leak Variable Name: Wound Disruption Variable Name: Pneumonia Variable Name: Pneumonia	68 69 70 73	Yes; No	
102 103 104 105	POSTOPANASTSLLEAK WOUNDDISRUPTION POSTOPPNEUMONIA PNAPATOS UNPLINTUBATION PULMONARYEMBOLSM	Num Num Num Char Num	Number of Post-Op Anastomotic/Staple Line Leak occurrences Number of Post-Op Wound Disruption occurrences Number of Post-Op Pneumonia occurrences Pneumonia PATOS Number of Post-Op Unplanned Intubation occurrences Number of Post-Op Pulmonary Embolism	Variable Name: Anastomotic/Staple Line Leak Variable Name: Wound Disruption Variable Name: Pneumonia Variable Name: Pneumonia – PATOS Variable Name: Unplanned Intubation	68 69 70 73 74	Yes; No Yes; No	
102 103 104 105 106	POSTOPANASTSLLEAK WOUNDDISRUPTION POSTOPPNEUMONIA PNAPATOS UNPLINTUBATION PULMONARYEMBOLSM POSTOPVENTILATOR	Num Num Num Char Num Num	Number of Post-Op Anastomotic/Staple Line Leak occurrences Number of Post-Op Wound Disruption occurrences Number of Post-Op Pneumonia occurrences Pneumonia PATOS Number of Post-Op Unplanned Intubation occurrences Number of Post-Op Pulmonary Embolism occurences	Variable Name: Anastomotic/Staple Line Leak Variable Name: Wound Disruption Variable Name: Pneumonia Variable Name: Pneumonia – PATOS Variable Name: Unplanned Intubation Variable Name: Pulmonary Embolism	68 69 70 73 74 76		
102 103 104 105 106	POSTOPANASTSLLEAK WOUNDDISRUPTION POSTOPPNEUMONIA PNAPATOS UNPLINTUBATION PULMONARYEMBOLSM POSTOPVENTILATOR VENTPATOS	Num Num Char Num Num Char Char Char	Number of Post-Op Anastomotic/Staple Line Leak occurrences Number of Post-Op Wound Disruption occurrences Number of Post-Op Pneumonia occurrences Pneumonia PATOS Number of Post-Op Unplanned Intubation occurrences Number of Post-Op Pulmonary Embolism occurrences Post-Op On Ventilator > 48 hours	Variable Name: Wound Disruption Variable Name: Wound Disruption Variable Name: Pneumonia Variable Name: Pneumonia – PATOS Variable Name: Unplanned Intubation Variable Name: Pulmonary Embolism Variable Name: On Ventilator > 48 Hours Variable Name: On Ventilator > 48 Hours – PATOS Variable Name: Progressive Renal Insufficiency/Acute Renal	68 69 70 73 74 76	Yes; No	
102 103 104 105 106 107 108 109	POSTOPANASTSLLEAK WOUNDDISRUPTION POSTOPPNEUMONIA PNAPATOS UNPLINTUBATION PULMONARYEMBOLSM POSTOPVENTILATOR VENTPATOS PROGRSRENALINSUF	Num Num Char Num Char Char Char Char	Number of Post-Op Anastomotic/Staple Line Leak occurrences Number of Post-Op Wound Disruption occurrences Number of Post-Op Pneumonia occurrences Pneumonia PATOS Number of Post-Op Unplanned Intubation occurrences Number of Post-Op Pulmonary Embolism occurrences Number of Post-Op Pulmonary Embolism occurrences On Ventilator > 48 hours On Ventilator > 48 hours PATOS	Variable Name: Anastomotic/Staple Line Leak Variable Name: Wound Disruption Variable Name: Pneumonia Variable Name: Pneumonia – PATOS Variable Name: Unplanned Intubation Variable Name: Pulmonary Embolism Variable Name: On Ventilator > 48 Hours Variable Name: On Ventilator > 48 Hours – PATOS	68 69 70 73 74 76 77 78	Yes; No Yes; No	

- 444	DOOTODUTI	Maria	North and David On Helman Translations	Martable Name (112) and Tarret late of the	1	T	1
111	POSTOPUTI	Num	Number of Post-Op Urinary Tract Infection occurrences	Variable Name: Urinary Tract Infection	80		
112	UTIPATOS	Char	Urinary Tract Infection PATOS	Variable Name: UTI – PATOS	82	Yes: No	
113	CVA	Num	Number of Post-Op Stroke/CVA	Variable Name: Stroke/CVA			
			occurrences		83		
114	CARDIACARRESTCPR	Num	Number of Intra-Op or Post-Op Cardiac	Variable Name: Cardiac Arrest Requiring CPR	84		
115	MYOCARDIALINFR	Num	Arrest Requiring CPR occurrences Number of Intra-op or Post-op Myocardial	Variable Name: Myocardial Infarction			
113	WI OCANDIALINI IX	Nulli	Infarction occurrences	variable Name. Myocardiai miarciion	85		
116	TRANSFINTOPPSTOP	Char	Transfusion Intra-op/Post-Op (72h of	Variable Name: Blood Transfusion	87	Yes; No	
	DI SERVICI LIVITO		surgery start time)	h	07		WED AND SWITCH POTOR BY
117	BLEEDING_UNITS	Num	Number of Blood Units Transfused	Variable Name: Blood Transfusion	87		If TRANSFINTOPPSTOP = "Yes", values capped between 1 and 20. If TRANSFINTOPPSTOP = "No" then this variable = 0.
118	VEINTHROMBREQTER	Num	Number of Post-Op Vein Thrombosis	Variable Name: Vein Thrombosis Requiring Therapy	89		
			Requiring Therapy occurrences				
119		Char	Post-Op Sepsis	Variable Name: Sepsis	92	Yes; No	
120		Char	Sepsis PATOS	Variable Name: Sepsis – PATOS	95	Yes; No	
121	POSTOPSEPTICSHOCK	Char	Post-Op Septic Shock	Variable Name: Septic Shock	96	Yes; No	
122	SEPSHOCKPATOS	Char	Septic Shock PATOS	Variable Name: Septic Shock – PATOS	97	Yes; No	
123	UNPLANNEDADMISSIONICU	Num	Number of Unplanned Admission to ICU	Variable Name: Unplanned Admission to ICU	98		
124	OLEDA CEDI EED	Nivee	occurrences	Variable News Contraintentinal Treat Disadies			
124	GITRACTBLEED	Num	Number of Post-Op GI Tract Bleeding occurrences	Variable Name: Gastrointestinal Tract Bleeding	99		
125	BOWELOBSTRUCTION	Num	Number of Post-Op Bowel Obstruction	Variable Name: Bowel Obstruction	100		
			occurrences				
126	CDIFF	Char	Clostridium difficile (C.diff) Colitis	Variable Name: C. diff Colitis	90	Yes; No	
127	CDIFF_TRTMT	Char	C. diff Treatment Given	Variable Name: C. diff Colitis	90	Yes; No	If CDIFF = "No" then this variable will be missing.
128	REOP30	Char		Any Reoperation date recorded within 30 days from initial	111	Yes; No	See separate Reoperation file.
129	READ30	Char	operation At Least One Readmission within 30 days	bariatric surgery operation date		Vas: No	See caparate Readmission file
129	READ30	Char	At Least One Readmission within 30 days of operation	Any Readmission date recorded within 30 days from initial bariatric surgery operation date	107	Yes; No	See separate Readmission file.
130	INTV30	Char	At Least One Intervention within 30 days of	Any Intervention date recorded within 30 days from initial	120	Yes; No	See separate Intervention file.
			operation	bariatric surgery operation date	120		·
131		Char	IV Treatment as an Outpatient	Variable Name: IV Treatment as an Outpatient	101	Yes; No	
132	DEHYD_NUM_TRTMTS	Char	Number of IV Treatment Outpatient visits	Variable Name: IV Treatment as an Outpatient		1	If DEHYD_TRTMT_OUT = 'No' then this variable will be missing.
						2	
					101	3	
						4	
						5 or more	1
133	EMERG_VISIT_OUT	Char	Emergency Department (ED) Visits	Variable Name: Emergency Department (ED) Visits	102	Yes; No	
134		Num	Number of Emergency Department (ED)	Variable Name: Emergency Department (ED) Visits	102		If EMERG_VISIT_OUT= 'No' then this variable will be missing.
			Visits		102		
135		Char	Discharge Diagnosis - ED Visit 1	Variable Name: Emergency Department (ED) Visits		See Options list on page 129 in	
136	ED_VSTNM_2	Char	Discharge Diagnosis - ED Visit 2			Variables MBSAQIP PUF Definitions	
137	ED_VSTNM_3	Char	Discharge Diagnosis - ED Visit 3				
138	ED_VSTNM_4	Char	Discharge Diagnosis - ED Visit 4				
139	ED_VSTNM_5	Char	Discharge Diagnosis - ED Visit 5		102		
140	ED_VSTNM_6	Char	Discharge Diagnosis - ED Visit 6				
141	ED_VSTNM_7	Char	Discharge Diagnosis - ED Visit 7				
142	ED_VSTNM_8	Char	Discharge Diagnosis - ED Visit 8	1			
143	ED_VSTNM_9	Char	Discharge Diagnosis - ED Visit 9	†			
144	DT_EDVISIT_1	Num	Days from operation date to ED Visit 1	Variable Name: Emergency Department (ED) Visits			Values capped between 0 and 30.
145	DT_EDVISIT_2	Num	Days from operation date to ED Visit 2				
146	DT_EDVISIT_3	Num	Days from operation date to ED Visit 3	†			
147	DT_EDVISIT_4	Num	Days from operation date to ED Visit 4	†			
148	DT_EDVISIT_5	Num	Days from operation date to ED Visit 5	†	102		
149	DT EDVISIT 6	Num	Days from operation date to ED Visit 6	†			
150	DT_EDVISIT_7	Num	Days from operation date to ED Visit 7	†			
151	DT EDVISIT 8	Num	Days from operation date to ED Visit 8	†			
152	DT EDVISIT 9	Num	Days from operation date to ED Visit 9	†			
153	DTPOSTOPSUPERFINCSSI	Num	Days from operation date to first recorded	Days to first recorded Superficial Incisional SSI occurrence			Values capped between 0 and 30. If
			date of Superficial Incisional SSI	from initial bariatric surgery operation date			POSTOPSUPERFICIALINCISIONALSSI = 0 then this variable will be missing.
154	DTPOSTOPDEEPINCISIONA LSSI	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.
155	DTPOSTOPORGANSPACES	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
	31						missing
156	DTANASTSLLEAK	Num					missing. Values capped between 0 and 30. If POSTOPANASTSLLEAK =
156	DTANASTSLLEAK	Num	Days from operation date to first recorded date of Anastomotic/Staple Line Leak	Days to first recorded Anastomotic/Staple Line Leak occurrence from initial bariatric surgery operation date			missing. Values capped between 0 and 30. If POSTOPANASTSLLEAK = 0 then this variable will be missing.

157	DTPOSTOPVENTILATOR	Num	Days from operation date to first recorded	Days to first recorded On Ventilator > 48 Hours occurrence		I	Values capped between 0 and 30. If DTPOSTOPVENTILATOR
137	DIFOSTOFVENTILATOR	Nulli	date of On Ventilator > 48 Hours	from initial bariatric surgery operation date			= 0 then this variable will be missing.
158	DTPOSTOPPNEUMONIA	Num	Days from operation date to first recorded	Days to first recorded Pneumonia occurrence from initial			Values capped between 0 and 30. If POSTOPPNEUMONIA = 0
130	DITOSTOLLINEOMONIA	Nulli	date of Pneumonia	bariatric surgery operation date			then this variable will be missing.
159	DTPOSTOPSEPSIS	Num	Days from operation date to first recorded	Days to first recorded Sepsis occurrence from initial bariatric			Values capped between 0 and 30. If POSTOPSEPSIS = 0 then
100	211 00101 021 010	110	date of Sepsis	surgery operation date			this variable will be missing.
160	DTPOSTOPSEPTICSHOCK	Num	Days from operation date to first recorded	Days to first recorded Septic Shock occurrence from initial		i	Values capped between 0 and 30. If POSTOPSEPTICSHOCK =
			date of Septic Shock	bariatric surgery operation date			0 then this variable will be missing.
161	DTPOSTOPUTI	Num	Days from operation date to first recorded	Days to first recorded Urinary Tract Infection occurrence from			Values capped between 0 and 30. If POSTOPUTI = 0 then this
			date of Urinary Tract Infection	initial bariatric surgery operation date			variable will be missing.
162	DTWOUNDDISRUPTION	Num	Days from operation date to first recorded	Days to first recorded Wound Disruption occurrence from			Values capped between 0 and 30. If WOUNDDISRUPTION =
			date of Wound Disruption	initial bariatric surgery operation date			"No" then this variable will be missing.
163	DTUNPLINTUBATION	Num		Days to first recorded Unplanned Intubation occurrence from			Values capped between 0 and 30. If UNPLINTUBATION = "No"
			date of Unplanned Intubation	initial bariatric surgery operation date			then this variable will be missing.
164	DTPULMONARYEMBOLSM	Num		Days to first recorded Pulmonary Embolism occurrence from			Values capped between 0 and 30. If PULMONARYEMBOLSM =
			date of Pulmonary Embolism	initial bariatric surgery operation date			"No" then this variable will be missing.
165	DTPROGRSRENALINSUF	Num	Days from operation date to Progressive	Days to Progressive Renal Insufficiency occurrence from			Values capped between 0 and 30. If PROGRSRENALINSUF =
	DT LOTED SHALL SAULUS		Renal Insufficiency	initial bariatric surgery operation date			"No" then this variable will be missing.
166	DTACTERENALFAILURE	Num	Days from operation date to Acute Renal	Days to Acute Renal Failure occurrence from initial bariatric			Values capped between 0 and 30. If ACTERENALFAILURE =
167	DTCVA	Num	Failure Days from operation date to first recorded	surgery operation date Days to first recorded Stroke/CVA occurrence from initial			"No" then this variable will be missing. Values capped between 0 and 30. If CVA = "No" then this
107	DICVA	Num	date of Stroke/CVA	bariatric surgery operation date			variable will be missing.
168	DTCARDIACARRESTCPR	Num	Days from operation date to first recorded	Days to first recorded Cardiac Arrest Requiring CPR			Values capped between 0 and 30. If CARDIACARRESTCPR =
100	DICANDIACANNESTOTA	Nulli	date of Cardiac Arrest Requiring CPR	occurrence from initial bariatric surgery operation date			"No" then this variable will be missing.
169	DTMYOCARDIALINFR	Num	Days from operation date to first recorded	Days to first recorded Myocardial Infarction occurrence from			Values capped between 0 and 30. If MYOCARDIALINFR = "No"
100	D I W I O O W CD I A C I W I K	rtuin	date of Myocardial Infarction	initial bariatric surgery operation date			then this variable will be missing.
170	DTTRANSFINTOPPSTOP	Num	Days from operation date to Blood	Days to Blood Transfusion (72h) occurrence from initial			Values capped between 0 and 3. If TRANSFINTOPPSTOP =
			Transfusion (72h)	bariatric surgery operation date			"No" then this variable will be missing.
171	DTVEINTHROMBREQTER	Num	Days from operation date to first recorded	Days to first recorded Vein Thrombosis Requiring Therapy			Values capped between 0 and 30. If VEINTHROMBREQTER =
			date of Vein Thrombosis Requiring Therapy	occurrence from initial bariatric surgery operation date			"No" then this variable will be missing.
172	DTUNPLANADMICU	Num		Days to first recorded Unplanned Admission to ICU			Values capped between 0 and 30. If
			date of Unplanned Admission to ICU	occurrence from initial bariatric surgery operation date			UNPLANNEDADMISSIONICU30 = 0 then this variable will be
							missing.
173	DTGITRACTBLEED	Num	Days from operation date to first recorded	Days to first recorded Gastrointestinal Tract Bleeding			Values capped between 0 and 30. If GITRACTBLEED = 0 then
			date of GI Tract Bleed	occurrence from initial bariatric surgery operation date			this variable will be missing.
174	DTBOWELOBSTRUCTION	Num	Days from operation date to first recorded	Days to first recorded Bowel Obstruction occurrence from			Values capped between 0 and 30. If BOWELOBSTRUCTION =
475	DTCDIFF	Nicon	date of Bowel Obstruction	initial bariatric surgery operation date Days to C. diff Infection occurrence from initial bariatric			0 then this variable will be missing. Values capped between 0 and 30. If CDIFF = "No" then this
175	DICOIFF	Num	Days from operation date to C. diff infection				variable will be missing.
176	FOLLOW 30DAYS BAR	Char	Follow-up data (30 Day) Captured	surgery operation date Variable Name: Morbidity Occurrences, Events, and Mortality		Yes; No	variable will be missing.
170	OLLOW_SUDATS_BAR	Ollai	ollow-up data (30 Day) Captured	Data Captured	103	163, 140	
177	WGT_CLOSEST30D	Num	Post-Op Weight Closest to Day 30	Variable Name: Weight Closest to Day 30	105		
178	WGTUNIT CLOSEST30D	Char	Post-Op Weight Closest to Day 30 Unit	Variable Name: Weight Closest to Day 30	105	kg; lbs	
179	BMI CLOSEST30D	Num	Post-Op BMI Closest to Day 30	Calculated from weight closest to day 30 post-op and height	105	J,	Values capped between 15 and 150.
180	DTBMI_30D	Num		Days from bariatric surgery to Post-Op BMI Closest to Day 30	100	+	Values capped between 0 and 30.
100	D I DIVII_30D	Nulli	measurement	measurement			values capped between 0 and 50.
181	PHYSASS 30D	Char	Post-Op Physical Assessment (30 Day)	Variable Name: Physical Assessment Completed	106	Yes; No	
182	DTDEATH OP	Num	Days to death from operation date	Days to death from initial bariatric surgery operation date	6, 127	,	Values capped between 0 and 30.
183	DEATH CAUSE BAR	Char	Most Likely Cause of Death	Variable Name: Cause of Death		See Options list on page 129 in	raidos cappos between o una oo.
103	DEATH_CAUSE_BAK	Char	INIUSI LIKELY Cause of Death	variable marrie: Cause of Death	128	Variables MBSAQIP PUF Definitions	

REOPERATION

	LIVATION						
Position #	Variable Name	Data Type	Variable Label	Search Term in Variables and Definitions	Page Number in Variables and Definitions	Variable Options	Comments
1	CASEID	Num	Case Identification Number	Each case or record in the database has a unique CaseID number.			
2	REOP_CENTER	Char	Reoperation Performed at Reporting Site	Variable Name: Performed at Your Site	5	Yes; No	
3	REOP_WEIGHTLOSS_MNFUT	Char	Reoperation To Maintain or for Future Weight Loss	Variable Name: To Maintain or for Future Weight Loss	110	Yes; No	
4	REOP_UNPLANNED	Char	Unplanned Reoperation	Variable Name: Unplanned Reoperation	111	Yes; No	
5	REOP_EMERGENCY	Char	Reoperation Emergency Case	Variable Name: Emergency Case (Reoperation form)	112	Yes; No	
6	REOP_STAPLING_PROC	Char	Reoperation Stapler Used/Anastomosis Completed	Variable Name: Stapler Used or Anastomosis Completed (Reoperation form)	113	Yes; No	
7	REOP_SURGICAL_APPROACH	Char	Reoperation Final Procedural Approach	Variable Name: Final Surgical		Endoscopic	
				Approach (Reoperation form)	114	Laparoscopic	
						Open	
8	REOP_ROBOTICASST	Char	Reoperation Robotic Assist	Variable Name: Final Surgical Approach (Reoperation form)	114	Yes; No	
9	REOP_DIAGNOSIS	Char	Reoperation Postprocedural Diagnosis	Variable Name: Postprocedural Diagnosis (Reoperation form)	115	See Options list on page 129 in Variables MBSAQIP PUF Definitions	
10	REOP_TYPE	Char	Reoperation Type	Variable Name: Reoperation Type	116	See Table on page116 in MBSAQIP PUF Definitions	
11	REOP_CPT	Char	Reoperation CPT Code	Variable Name: Reoperation Type	116	CPT® code. LH - If REOP_CENTER= 'No' then this variable will be missing	
12	REOP_PREV_PROC	Char	Reoperation Previous Metabolic or Bariatric Procedure	Variable Name: Conversions - Previous Metabolic and Bariatric Procedure (Reoperation form)	118	See Options list on page 118 in Variables MBSAQIP PUF Definitions	
13	REOP_CURR_PROC	Char	Reoperation Current Procedure	Variable Name: Conversions - Current Procedure (Reoperation form)	119	See Options list on page 119 in Variables MBSAQIP PUF Definitions	
14	DTREOP	Num	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 Definitions	Page Number in Variables and Definitions	Variable Options	Comments
1	CASEID	Num	Case Identification Number				
2	READ_HOSPITAL	Char	Readmission Occurred at Reporting Center	Variable Name: Readmission	107	Yes; No	
3	READ_UNPLANNED	Char	Unplanned Readmission	Variable Name: Unplanned Readmission	109	Yes; No	
4	READ_DIAGNOSIS	Char	Readmission Discharge Diagnosis	Variable Name: Readmission	107	See Options list on page 129 in Variables MBSAQIP PUF Definitions	
5	DTREAD	Num	Days from Operation date to Readmission	Days from initial bariatric or metabolic surgery procedure to readmission			Values capped between 0 and 30.
6	DTREAD_DISCH	Num	Days from Original Discharge to Readmission	Days to readmission from original hospital stay discharge			Values capped between 0 and 30.
7	DTDISDT_READ		Days from Readmission to Readmission Discharge	Days to readmission discharge from readmission date			Values capped between 0 and 150.

INTERVENTION

Position #	Variable Name	Data Type	Variable Label	Definitions	Page Number in Variables and Definitions	Variable Options	Comments
1	CASEID	Num	Case Identification Number	Each case or record in the database has a unique CaseID number.			
2	INTV_CENTER	Char	Intervention Performed at Reporting Site	Variable Name: Performed at Your Site	5	Yes; No	
3	INTV_WEIGHTLOSS_MNFUT	Char	Intervention To Maintain or for Future Weight Loss	Variable Name: To Maintain or for Future Weight Loss	110	Yes; No	
4	INTV_UNPLANNED_BAR	Char	Unplanned Intervention	Variable Name: Unplanned Intervention	121	Yes; No	
5	INTV_EMERGENCY_BAR	Char	Intervention Emergency Case	Variable Name: Emergency Case (Intervention form)	122	Yes; No	
6	INTV_ANESTYPE	Char	Intervention Intragastric Balloon Anesthesia Type	Variable Name: Intragastric Balloon Anesthesia Type (Intervention form)		General Local Monitored anesthesia care/IV sedation None Other	If INTV_TYPE not = 'Intragastric balloon adjustment', 'Intragastric balloon placement', or 'Intragastric balloon removal', then this variable
7	INTV_IGBALLOON_TYPE	Char	Intervention Intragastric Balloon Type	Variable Name: Intragastric Balloon Type (Intervention form)	124	Absorbable Adjustable Air-filled Fluid-filled	If INTV_TYPE not = 'Intragastric balloon adjustment', 'Intragastric balloon placement', or 'Intragastric balloon
8	INTV_TYPE	Char	Intervention Type	Variable Name: Intervention Type	125		
9	INTV_DIAGNOSIS	Char	Intervention Postprocedural Diagnosis	Variable Name: Postprocedural Diagnosis (Intervention form)	126	See Options list on page 129 in Variables MBSAQIP PUF Definitions	
10	DTINTV	Num	Days from Operation date to Intervention	Days from the initial metabolic and bariatric surgical operation to the intervention procedure			Values capped between 0 and 30.



METABOLIC AND BARIATRIC SURGERY ACCREDITATION AND QUALITY IMPROVEMENT PROGRAM





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