



**Metabolic and Bariatric Surgery
Accreditation and Quality
Improvement Program**
American College of Surgeons

**User Guide for the 2024
MBSAQIP
Participant Use
Data File (PUF)**

Re-Released:
June 2026

NOTE: This updated version of the 2024 MBSAQIP PUF User Guide was released in **June 2026** and replaces the original released in November 2025.

The following updates have been made to the original PUF dataset:

- Recoding of Race groupings (RACE_PUF)
- Including Hispanic Ethnicity data (HISPANIC)
- Combining 'Non-binary' entries (SEX)
- Adding 'Severe Liver Disease' to the User Guide
- Updating the User Guide page numbers and document references for select variables

Please make sure you have the most recent files and you may discard the old version of the User Guide.

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Contents

Section	Page
1. Introduction	1
2. Data Request Process	2
3. File Description	3
4. Data Collection Background and Data Quality	4
5. Participation and Case Exclusion Criteria	5
Case Collection Process	5
Case Exclusion Criteria	5
Hospital Exclusion Criteria	6
6. Data Limitations	6
7. Contact Information	8
8. Frequently Asked Questions	8
Request Process	8
Contents of the Files	8
Values in the Data	10
File Formats	11
General	11
9. PUF User Guide Tables	12
Main	13
Reoperation	16
Readmission	17
Intervention	18

1. Introduction

The Metabolic and Bariatric Surgery Accreditation and Quality Improvement Program (MBSAQIP®) is pleased to introduce the 2024 Participant Use Data File (PUF) – including cases with operation dates between January 1, 2024 and December 31, 2024. 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 200,000 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 2024 Participant Use Data File available for download via the MBSAQIP website (<https://www.facs.org/quality-programs/accreditation-and-verification/metabolic-and-bariatric-surgery-accreditation-and-quality-improvement-program/participant-use-data-file-puf/>). 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 2024 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/accreditation-and-verification/metabolic-and-bariatric-surgery-accreditation-and-quality-improvement-program/participant-use-data-file-puf/>). Please note that a new MBSAQIP data registry was launched January 1, 2020. These files represent the fourth PUF documents reflecting the new registry, and updates are continually incorporated. As such, these files 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/accreditation-and-verification/metabolic-and-bariatric-surgery-accreditation-and-quality-improvement-program/participant-use-data-file-puf/> and following the steps listed below:

1. Once on the MBSAQIP PUF main page, there will be a brief introduction and explanation of the PUF. Scrolling down 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.
2. 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."
3. After the request is received, MBSAQIP will reach out to the chosen center for internal verification and approval. Internal approval is at the discretion of the issuing center.
4. 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).
5. 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.
6. 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 2024. 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 is on the following page:

Dataset	File Types Available	Uncompressed File Size	Description
MBSAQIP_PUF_Main	SAS, SPSS, TXT	SAS: 543 MB SPSS: 650 MB TXT: 139 MB	Contains 185 HIPAA compliant variables on 217,952 cases submitted from 961 centers in 2024. Each row represents one case and there is exactly one row per case.
MBSAQIP_PUF_Read	SAS, SPSS, TXT	SAS: 1.7 MB SPSS: 1.7 MB TXT: 455 KB	Contains 7 HIPAA compliant variables on 8,059 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: 1.4 MB SPSS: 1.4 MB TXT: 387 KB	Contains 15 HIPAA compliant variables on 2,674 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: 832 KB SPSS: 787 KB TXT: 216 KB	Contains 11 HIPAA compliant variables on 2,229 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, when warranted. 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 2024. 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 hospitals that are participating in the MBSAQIP and do not represent a statistically valid nationally representative sample. Furthermore, the PUF includes international sites so the data would not strictly represent the situation in U.S. hospitals. The inclusion of international sites may lead to other problems in interpretation. For example, many international sites are not permitted to provide patient race and ethnicity. As such, observed effects of missing race/ethnicity on outcomes would be confounded with the effects of country.
- Many patients do not receive all possible preoperative laboratory tests, so some of these variables have a high percentage of missing values. 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 Brian Matel, Statistical Report Manager, at bmatel@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 not 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 30 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) de-identified 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 2024 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 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: Yes, the first MBSAQIP PUF was released for 2015 data. Subsequent PUFs have been released on a yearly basis. There are eight previous MBSAQIP PUF files available for request/download:

PUF Year	PUF Type	Cases	Centers
2023	MBSAQIP	217,952	961
2022	MBSAQIP	230,707	924
2021	MBSAQIP	211,254	902
2020	MBSAQIP	168,568	885
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

MBSAQIP 2024 PUF USER GUIDE | (RE-RELEASED JUNE 2026)
(Dates of Surgery: January 1, 2024 – December 31, 2024)

MAIN

Position #	Variable Name	Data Type	Variable Label	Search Term 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	Male; Female; Non-binary	
3	AGE	Num	Age (years)	Variable Name: Date of Birth		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 Black or African American American Indian or Alaska Native Native Hawaiian or Other Pacific Islander Asian Some Other Race/Multi-racial Unknown/Not Reported	
7	HISPANIC	Char	Hispanic Ethnicity	Variable Name: Hispanic Ethnicity	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 accompanying User Guide for procedure types and cases eligible for inclusion in these data files.
9	PROC_PREV_SITE	Char	Previous Procedure Completed at Your Site	Variable Name: Previous Procedure Completed at Your Site	Yes; No	
10	CPT	Char	Primary Procedure CPT	Variable Name: Primary Procedure	CPT® codes	
11	CPT_DESCR	Char	Primary Procedure CPT Description	Variable Name: Primary Procedure		
12	INIT_PROC_DESC	Char	Initial Procedure Description	Variable Name: Initial Procedure Description	See "Variable Name: Initial Procedure Description" "Options" List on page 18 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.
13	CONV_PREV_PROC	Char	Conversion Previous Procedure	Variable Name: Conversions Previous Procedure	See "Variable Name: Conversions Previous Procedure" "Options" List on page 19 of Variables and Definitions	Field is multi-select. Selections are separated by " - ". If PROCEDURE_TYPE not = 'Conversion', then this field will be missing.
14	CONV_CURR_PROC	Char	Conversion Current Primary Procedure	Variable Name: Conversions Current Primary Procedure	See "Variable Name: Conversions Current Primary Procedure" "Options" List on page 21 of Variables and Definitions	If PROCEDURE_TYPE not = 'Conversion', then this field will be missing.
15	REV_PROC	Char	Revision Procedure Type	Variable Name: Revisions	See "Variable Name: Revisions" "Options" List on page 22 of Variables and Definitions	If PROCEDURE_TYPE not = 'Revision', then this field will be missing.
16	REV_CONV_EMERGCASE	Char	Revision/Conversion Emergency Case	Variable Name: Emergency Case	Yes; No	If PROCEDURE_TYPE = 'Initial', this field will be missing.
17	REV_CONV_FININDIC	Char	Revision/Conversion Final Indication	Variable Name: Final Indication	See "Variable Name: Final Indication" "Options" List on page 25 of Variables and Definitions	If PROCEDURE_TYPE = 'Initial', this field will be missing.
18	CON_ORG_TRAN	Char	Concurrent Organ Transplant	Variable Name: Concurrent Organ Transplant	Yes; No	
19	OTHCP1	Char	Other CPT 1	Variable Name: Other Procedures		Any additional CPT® code. If none entered field will be 'NULL'.
20	OTHCP2	Char	Other CPT 2			
21	OTHCP3	Char	Other CPT 3			
22	OTHCP4	Char	Other CPT 4			
23	OTHCP5	Char	Other CPT 5			
24	OTHCP6	Char	Other CPT 6			
25	OTHCP7	Char	Other CPT 7			
26	OTHCP8	Char	Other CPT 8			
27	OTHCP9	Char	Other CPT 9			
28	OTHCP10	Char	Other CPT 10			
29	CONCPT1	Char	Concurrent CPT 1	Variable Name: Concurrent Procedures		Any additional CPT® code. If none entered field will be 'NULL'.
30	CONCPT2	Char	Concurrent CPT 2			
31	CONCPT3	Char	Concurrent CPT 3			
32	CONCPT4	Char	Concurrent CPT 4			
33	CONCPT5	Char	Concurrent CPT 5			
34	CONCPT6	Char	Concurrent CPT 6			
35	CONCPT7	Char	Concurrent CPT 7			
36	CONCPT8	Char	Concurrent CPT 8			
37	CONCPT9	Char	Concurrent CPT 9			
38	CONCPT10	Char	Concurrent CPT 10			
39	STAPLING_PROC	Char	Stapler Used/Anastomosis Completed	Variable Name: Stapler Used/Anastomosis Completed	Yes; No	
40	DISCHARGE_DESTINATION	Char	Discharge Destination	Variable Name: Hospital Discharge Destination	Home/Permanent residence Acute Care Hospital Other facility Expired Against Medical Advice (AMA) Unknown	
41	SURGSPECIALTY_BAR	Char	Medical specialty of the physician performing the Primary Procedure	Variable Name: Medical Specialist	Gastroenterologist General surgeon Interventional radiologist Metabolic and bariatric surgeon Other	
42	OPYEAR	Num	Year of Operation	Year of initial bariatric or metabolic surgery		
43	DTOP	Num	Days to operation from hospital admit date	Days to initial bariatric or metabolic surgery operation date from hospital admission date		Values capped between 0 and 30.
44	DTDISCH_OP	Num	Days to discharge from operation date	Days to hospital discharge from initial bariatric or metabolic surgery date		Values capped between 0 and 150.
45	DTDISCH_ADMIT	Num	Days to discharge from hospital admit date	Days to hospital discharge from hospital admission date		Values capped between 0 and 180.
46	HGT	Num	Height	Variable Name: Height		
47	HGTUNIT	Char	Height Unit	Variable Name: Height	cm; in	
48	WGT_HIGH_BAR	Num	Highest Pre-Op Weight recorded	Variable Name: Highest Recorded Weight		
49	WGT_HIGH_UNIT_BAR	Char	Highest Pre-Op Weight recorded Unit	Variable Name: Highest Recorded Weight	kg; lbs	
50	BMI_HIGH_BAR	Num	Highest Recorded Pre-Op BMI	Calculated from highest recorded pre-op weight and height		Values capped between 15 and 150.
51	WGT_CLOSEST	Num	Pre-Op Weight closest to bariatric surgery	Variable Name: Weight Closest to Procedure		
52	WGTUNIT_CLOSEST	Char	Pre-Op Weight closest to bariatric surgery Unit	Variable Name: Weight Closest to Procedure	kg; lbs	
53	BMI	Num	Pre-Op BMI closest to bariatric surgery	Calculated from pre-op weight closest to procedure and height		Values capped between 15 and 150.
54	MBSAQIP_RISK_CALC	Char	MBSAQIP Risk Calculator Used	Variable Name: Risk Calculator Used	Yes; No	
55	MBSAQIP_SUBST_SCRN	Char	Substance Abuse Screening Completed	Variable Name: Substance Abuse Screening Completed	Yes; No	
56	FUNSTATPRESURG	Char	Pre-Op Functional Health Status	Variable Name: Functional Health Status	Independent Partially dependent Totally dependent Unknown	
57	SMOKER	Char	Current smoker within one year	Variable Name: Current Smoker	Yes; No	
58	DIABETES	Char	Pre-Op Diabetes Mellitus	Variable Name: Diabetes Mellitus	Yes; insulin Yes; non-insulin No	
59	IMMUNOSUPR_THER	Char	Pre-Op Steroid/Immunosuppressant Use for Chronic Condition	Variable Name: Immunosuppressive Therapy	Yes; No	
60	PREOP_COVID	Char	Preop COVID-19 Diagnosis	Variable Name: Preop COVID-19 Diagnosis	Yes, lab-confirmed diagnosis (or ICD-10 code U07.1); Yes, suspected diagnosis (or ICD-10 code U07.2); No	
61	COPD	Char	Pre-Op history of COPD	Variable Name: History of Severe COPD	Yes; No	
62	HISTORY_PE	Char	History of PE	Variable Name: History of Pulmonary Embolism	Yes; No	
63	SLEEP_APNEA	Char	Pre-Op Sleep Apnea	Variable Name: Sleep Apnea	Yes; No	
64	GERD	Char	Pre-Op GERD	Variable Name: GERD	Yes; No	
65	PREVIOUS_SURGERY	Char	Previous Foregut Surgery	Variable Name: Previous Foregut Surgery	Yes; No	
66	LIV_DIS	Char	Liver Disease	Variable Name: Liver Disease	Yes; No	

MBSAQIP 2024 PUF USER GUIDE | (RE-RELEASED JUNE 2026)
(Dates of Surgery: January 1, 2024 – December 31, 2024)

67	LIV_DIS_SEVERE	Char	Severe Liver Disease	Variable Name: Severe Liver Disease	Yes: No	If LIV_DIS = "No" then this variable will be missing.
68	MI_ALL_HISTORY	Char	History of MI	Variable Name: History of Myocardial Infarction	Yes: No	
69	PTC	Char	Previous PCI/PTCA	Variable Name: Previous PCI/PTCA	Yes: No	
70	PCARD	Char	Previous Cardiac Surgery	Variable Name: Previous Cardiac Surgery	Yes: No	
71	HRT_FAIL	Char	Heart Failure	Variable Name: Heart Failure	Yes: No	
72	VENT_DEVICE	Char	Ventricular Assist Device	Variable Name: Ventricular Assist Device	Yes: No	
73	HYPERTENSION	Char	Pre-Op Hypertension	Variable Name: Hypertension	Yes: No	
74	NHNTN_MEDS	Char	Number of Anti-Hypertensive Medications	Variable Name: Number of Anti-Hypertensive Medications	0 1 2 3 or more	
75	HYPERLIPIDEMIA	Char	Pre-Op Hyperlipidemia	Variable Name: Hyperlipidemia	Yes: No	
76	HISTORY_DVT	Char	Pre-Op Venous Thrombosis Requiring Therapy	Variable Name: Preop Venous Thrombosis Requiring Therapy	Yes: No	
77	THERAPEUTIC_ANTICOAGULATION	Char	Pre-Op Therapeutic Anticoagulation	Variable Name: Therapeutic Anticoagulation	Yes: No	
78	VENOUS_STASIS	Char	Pre-Op Venous Stasis	Variable Name: Venous Stasis	Yes: No	
79	IVC_FILTER	Char	Pre-Op IVC Filter	Variable Name: IVC Filter	Yes: No	
80	IVC_TIMING	Char	Pre-Op IVC Filter Timing	Variable Name: IVC Filter	IVC filter placed in anticipation of the metabolic or bariatric procedure IVC filter was preexisting Unknown	If IVC_FILTER = "No" then this variable will be missing.
81	DIALYSIS	Char	Pre-Op Requiring or on dialysis	Variable Name: Currently Requiring/On Dialysis	Yes: No	
82	RENAL_INSUFFICIENCY	Char	Pre-Op Renal Insufficiency	Variable Name: Renal Insufficiency	Yes: No	
83	ALBUMIN	Num	Pre-Op Albumin Lab Value (g/dL)	Variable Name: Preoperative Lab Value Information		Values capped between 1 and 10.
84	OPRALBUM	Num	Days from Albumin Pre-Op Labs to Operation	Variable Name: Preoperative Lab Value Information		Values capped between 0 and 180.
85	CREATININE	Num	Pre-Op Creatinine Lab Value (mg/dL)	Variable Name: Preoperative Lab Value Information		Values capped between 0.1 and 15.
86	OPRCREAT	Num	Days from Creatinine Pre-Op Labs to Operation	Variable Name: Preoperative Lab Value Information		Values capped between 0 and 180.
87	HCT	Num	Pre-Op Hematocrit Lab Value (%)	Variable Name: Preoperative Lab Value Information		Values capped between 8 and 60.
88	OPRHCT	Num	Days from Hematocrit Pre-Op Labs to Operation	Variable Name: Preoperative Lab Value Information		Values capped between 0 and 180.
89	HEMO	Num	Pre-Op Hemoglobin A1c Value	Variable Name: Preoperative Lab Value Information		Values capped between 4 and 20.
90	OPRHEMO	Num	Days from Hemoglobin A1c Pre-Op Labs to Operation	Variable Name: Preoperative Lab Value Information		Values capped between 0 and 180.
91	ASACLASS	Char	ASA Class	Variable Name: ASA Classification	ASA I - Normal/Healthy ASA II - Mild systemic disease ASA III - Severe systemic disease ASA IV - Severe systemic disease threat to life ASA V - Moribund None assigned	
92	ANESTYPE	Char	Intra-gastric Balloon Anesthesia Type	Variable Name: Intra-gastric Balloon Anesthesia Type	General Monitored anesthesia care/IV Sedation None Other Local	If INIT_PROC_DESC not = 'Intra-gastric balloon placement' then this field will be missing.
93	BALLOON_TYPE	Char	Intra-gastric Balloon Type	Variable Name: Intra-gastric Balloon Type	Absorbable Adjustable Air-filled Fluid-filled Open	If INIT_PROC_DESC not = 'Intra-gastric balloon placement' then this field will be missing.
94	SURGICAL_APPROACH	Char	Procedural Approach	Variable Name: Procedural Approach	Endoscopic Laparoscopic Open	
95	ROBOTIC_ASST	Char	Robotic Assist	Variable Name: Procedural Approach	Yes: No	
96	APPROACH_CONVERTED	Char	Procedure converted to another approach	Variable Name: Procedure Converted to Another Approach	Yes: No	
97	CONVERSION	Char	Procedure Converted - Final Procedural Approach	Variable Name: Procedure Converted to Another Approach	Endoscopic Laparoscopic	If APPROACH_CONVERTED = "No" then this variable will be missing.
98	ROBOTIC_ASST_CONV	Char	Procedure Converted - Final Procedural Approach Robotic Assist	Variable Name: Procedure Converted to Another Approach	Yes: No	If APPROACH_CONVERTED = "No" then this variable will be missing.
99	DRAIN_PLACED	Char	Drain Placed	Variable Name: Drain Placed	Yes: No	
100	ANASTOMOSIS_CHECKED	Char	Anastomosis/Staple Line Leak Test	Variable Name: Anastomosis/Staple Line Leak Test	Yes: No	If STAPLING_PROC = "No" then this variable will be missing.
101	OPLLENGTH	Num	Operation Length (minutes)	Variable Name: Length of bariatric/metabolic surgery, in minutes		Values capped between 1 and 720.
102	METH_VTEPROPHYL	Char	VTE Prophylaxis Method(s)	Variable Name: VTE Prophylaxis	Mechanical only Pharmacologic only Mechanical and pharmacologic None	
103	OCCURRENCE_POST_YN	Char	Intra-Op/Post-Op Occurrence	Postprocedural Information – Occurrences	Yes: No	
104	POSTOPSUPERFICIALINCISIONALSSI	Char	Post-Op Superficial Incisional SSI	Variable Name: Superficial Incisional SSI	Yes: No	
105	SSSIPATOS	Char	Superficial Incisional SSI PATOS	Variable Name: Superficial Incisional SSI – PATOS	Yes: No	
106	POSTOPDEEPPINCISIONALSSI	Char	Post-Op Deep Incisional SSI	Variable Name: Deep Incisional SSI	Yes: No	
107	OSSIPATOS	Char	Deep Incisional SSI PATOS	Variable Name: Deep Incisional SSI – PATOS	Yes: No	
108	POSTOPORGANSAPACESSI	Char	Post-Op Organ/Space SSI	Variable Name: Organ/Space SSI	Yes: No	
109	OSSIPATOS	Char	Organ/Space SSI PATOS	Variable Name: Organ/Space SSI – PATOS	Yes: No	
110	POSTOPANASTOMOSISLEAK	Char	Post-Op Anastomotic/Staple Line Leak	Variable Name: Anastomotic/Staple Line Leak	Yes: No	Post-Op Organ/Space SSI occurrence must be assigned in order to assign Anastomotic/Staple Line Leak.
111	WOUNDISRUPTION	Char	Post-Op Wound Disruption	Variable Name: Wound Disruption	Yes: No	
112	POSTOPPNEUMONIA	Char	Post-Op Pneumonia	Variable Name: Pneumonia	Yes: No	
113	PNAPATOS	Char	Pneumonia PATOS	Variable Name: Pneumonia – PATOS	Yes: No	
114	UNPLINTUBATION	Char	Post-Op Unplanned Intubation	Variable Name: Unplanned Intubation	Yes: No	
115	PULMONARYEMBOLISM	Char	Post-Op Pulmonary Embolism	Variable Name: Pulmonary Embolism	Yes: No	
116	POSTOPVENTILATOR	Char	Post-Op On Ventilator > 48 hours	Variable Name: On Ventilator > 48 Hours	Yes: No	
117	VENTPATOS	Char	On Ventilator > 48 hours PATOS	Variable Name: On Ventilator > 48 Hours – PATOS	Yes: No	
118	PROGRSRENALINSUF	Char	Progressive Renal Insufficiency	Variable Name: Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis	Yes: No	
119	ACTERENALFAILURE	Char	Acute Renal Failure	Variable Name: Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis	Yes: No	
120	POSTOPUTI	Char	Post-Op Urinary Tract Infection	Variable Name: Urinary Tract Infection	Yes: No	
121	UTIPATOS	Char	Urinary Tract Infection PATOS	Variable Name: UTI – PATOS	Yes: No	
122	CVA	Char	Post-Op Stroke/CVA	Variable Name: Stroke/CVA	Yes: No	
123	CARDIACARRESTOPR	Char	Intra-Op or Post-Op Cardiac Arrest Requiring CPR	Variable Name: Cardiac Arrest Requiring CPR	Yes: No	
124	MYOCARDIALINFR	Char	Intra-Op or Post-Op Myocardial Infarction	Variable Name: Myocardial Infarction	Yes: No	
125	TRANSFINTOPSTOP	Char	Transfusion Intra-Op/Post-Op (72h of surgery start time)	Variable Name: Blood Transfusion	Yes: No	
126	BLEEDING_UNITS	Num	Number of Blood Units Transfused	Variable Name: Blood Transfusion		If TRANSFINTOPSTOP = "Yes", values capped between 1 and 20. If TRANSFINTOPSTOP = "No" then this variable = 0.
127	VEINTHROMBREGOTER	Char	Post-Op Venous Thrombosis Requiring Therapy	Variable Name: Postop Venous Thrombosis Requiring Therapy	Yes: No	
128	CDIFF	Char	Clostridium difficile (C.diff) Colitis	Variable Name: C. diff Colitis	Yes: No	
129	CDIFF_TRTMT	Char	C. diff Treatment Given	Variable Name: C. diff Colitis	Yes: No	If CDIFF = "No" then this variable will be missing.
130	CDIFF_COLLAB	Char	Laboratory Confirmation of C. diff Colitis	Variable Name: C. diff Colitis	Yes: No	If CDIFF = "No" then this variable will be missing.
131	POSTOPSEPSIS	Char	Post-Op Sepsis	Variable Name: Sepsis	Yes: No	
132	SEPSISPATOS	Char	Sepsis PATOS	Variable Name: Sepsis – PATOS	Yes: No	
133	POSTOPSEPTICSHOCK	Char	Post-Op Septic Shock	Variable Name: Septic Shock	Yes: No	
134	SEPSHOCKPATOS	Char	Septic Shock PATOS	Variable Name: Septic Shock – PATOS	Yes: No	
135	UNPLANNEDADMISSIONICU30	Char	Unplanned Admission to ICU	Variable Name: Unplanned Admission to ICU	Yes: No	
136	GITTRACTBLEED	Char	Post-Op GI Tract Bleeding	Variable Name: Gastrointestinal Tract Bleeding	Yes: No	
137	BOWELOBSSTRUCTION	Char	Post-Op Bowel Obstruction	Variable Name: Bowel Obstruction	Yes: No	
138	POSTOP_COVID	Char	Post-Op COVID-19 Diagnosis	Variable Name: New Postop COVID-19 Diagnosis	Yes, lab-confirmed diagnosis (or ICD-10 code U07.1); Yes, suspected diagnosis (or ICD-10 code U07.2); No	
139	REOP30	Char	At Least One Reoperation within 30 days of operation	Any Reoperation date recorded within 30 days from initial bariatric surgery operation date	Yes: No	See separate Reoperation file.



MBSAQIP 2024 PUF USER GUIDE | (RE-RELEASED JUNE 2026)
(Dates of Surgery: January 1, 2024 – December 31, 2024)

140	READ30	Char	At Least One Readmission within 30 days of operation	Any Readmission date recorded within 30 days from initial bariatric surgery operation date	Yes: No	See separate Readmission file.
141	INTV30	Char	At Least One Intervention within 30 days of operation	Any Intervention date recorded within 30 days from initial bariatric surgery operation date	Yes: No	See separate Intervention file.
142	DEHYD_TRTMT_OUT	Char	IV Treatment as an Outpatient	Variable Name: IV Treatment as an Outpatient	Yes: No	
143	DEHYD_NUM_TRTMTS	Char	Number of IV Treatment Outpatient visits	Variable Name: IV Treatment as an Outpatient	1 2 3 4 5 or more	If DEHYD_TRTMT_OUT = 'No' then this variable will be missing.
144	EMERG_VISIT_OUT	Char	Emergency Department (ED) Visits	Variable Name: Emergency Department (ED) Visits	Yes: No	
145	EMERG_NUM_TIMES	Num	Number of Emergency Department (ED) Visits	Variable Name: Emergency Department (ED) Visits	Yes: No	If EMERG_VISIT_OUT = 'No' then this variable will be missing.
146	EMERG_VISIT_GTFIVE	Char	More than 5 ED Visits	Variable Name: Emergency Department (ED) Visits	Yes: No	
147	ED_VSTNM_1	Char	Discharge Diagnosis - ED Visit 1	Variable Name: Emergency Department (ED) Visits	See "MBSAQIP Diagnoses List" located in Appendix J	
148	ED_VSTNM_2	Char	Discharge Diagnosis - ED Visit 2			
149	ED_VSTNM_3	Char	Discharge Diagnosis - ED Visit 3			
150	ED_VSTNM_4	Char	Discharge Diagnosis - ED Visit 4			
151	ED_VSTNM_5	Char	Discharge Diagnosis - ED Visit 5			
152	DT_EDVISIT_1	Num	Days from operation date to ED Visit 1	Variable Name: Emergency Department (ED) Visits		Values capped between 0 and 30.
153	DT_EDVISIT_2	Num	Days from operation date to ED Visit 2			
154	DT_EDVISIT_3	Num	Days from operation date to ED Visit 3			
155	DT_EDVISIT_4	Num	Days from operation date to ED Visit 4			
156	DT_EDVISIT_5	Num	Days from operation date to ED Visit 5			
157	DTPOSTOPSUPERFNCSSI	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 POSTOSUPERFICIALINCISIONALSSI = "No" then this variable will be missing.
158	DTPOSTOPDEEPPINCISIONALSSI	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 POSTOPDEEPPINCISIONALSSI = "No" then this variable will be missing.
159	DTPOSTOPORGANSAPCESSI	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 POSTOPORGANSAPCESSI = "No" then this variable will be missing.
160	DTANASTLSLEAK	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		Values capped between 0 and 30. If POSTOPANASTLSLEAK = "No" then this variable will be missing.
161	DTPOSTOPVENTILATOR	Num	Days from operation date to first recorded date of On Ventilator > 48 Hours	Days to first recorded On Ventilator > 48 Hours occurrence from initial bariatric surgery operation date		Values capped between 0 and 30. If POSTOPVENTILATOR = "No" then this variable will be missing.
162	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 = "No" then this variable will be missing.
163	DTPOSTOPSEPSIS	Num	Days from operation date to first recorded date of Sepsis	Days to first recorded Sepsis occurrence from initial bariatric surgery operation date		Values capped between 0 and 30. If POSTOPSEPSIS = "No" then this variable will be missing.
164	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 = "No" then this variable will be missing.
165	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 date		Values capped between 0 and 30. If POSTOPUTI = "No" then this variable will be missing.
166	DTWOUNDISRUPTION	Num	Days from operation date to first recorded date of Wound Disruption	Days to first recorded Wound Disruption occurrence from initial bariatric surgery operation date		Values capped between 0 and 30. If WOUNDISRUPTION = "No" then this variable will be missing.
167	DTUNPLINTUBATION	Num	Days from operation date to first recorded date of Unplanned Intubation	Days to first recorded Unplanned Intubation occurrence from initial bariatric surgery operation date		Values capped between 0 and 30. If UNPLINTUBATION = "No" then this variable will be missing.
168	DTPULMONARYEMBOLISM	Num	Days from operation date to first recorded date of Pulmonary Embolism	Days to first recorded Pulmonary Embolism occurrence from initial bariatric surgery operation date		Values capped between 0 and 30. If PULMONARYEMBOLISM = "No" then this variable will be missing.
169	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.
170	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.
171	DTICVA	Num	Days from operation date to first recorded date of Stroke/CVA	Days to first recorded Stroke/CVA occurrence from initial bariatric surgery operation date		Values capped between 0 and 30. If ICVA = "No" then this variable will be missing.
172	DTCARDIACARRESTCPR	Num	Days from operation date to first recorded date of Cardiac Arrest Requiring CPR	Days to first recorded 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.
173	DTMYOCARDIALINFR	Num	Days from operation date to first recorded date of Myocardial Infarction	Days to first recorded Myocardial Infarction occurrence from initial bariatric surgery operation date		Values capped between 0 and 30. If MYOCARDIALINFR = "No" then this variable will be missing.
174	DTTRANSFINTOPPSTOP	Num	Days from operation date to Blood Transfusion (72h)	Days to Blood Transfusion (72h) occurrence from initial bariatric surgery operation date		Values capped between 0 and 3. If TRANSFINTOPPSTOP = "No" then this variable will be missing.
175	DTVEINTHROMBREQTER	Num	Days from operation date to first recorded date of Venous Thrombosis Requiring Therapy	Days to first recorded Venous 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.
176	DTUNPLANNADMICU	Num	Days from operation date to first recorded date of Unplanned Admission to ICU	Days to first recorded Unplanned Admission to ICU occurrence from initial bariatric surgery operation date		Values capped between 0 and 30. If UNPLANNEDADMISSIONICU30 = "No" then this variable will be missing.
177	DTGITRACTBLEED	Num	Days from operation date to first recorded date of GI Tract Bleed	Days to first recorded Gastrointestinal Tract Bleeding occurrence from initial bariatric surgery operation date		Values capped between 0 and 30. If GITRACTBLEED = "No" then this variable will be missing.
178	DTBOWELOBSTSTRUCTION	Num	Days from operation date to first recorded date of Bowel Obstruction	Days to first recorded Bowel Obstruction occurrence from initial bariatric surgery operation date		Values capped between 0 and 30. If BOWELOBSTSTRUCTION = "No" then this variable will be missing.
179	DTCDIFF	Num	Days from operation date to C. diff Colitis	Days to C. diff Colitis occurrence from initial bariatric surgery operation date		Values capped between 0 and 30. If CDIFF = "No" then this variable will be missing.
180	FOLLOW_30DAYS_BAR	Char	Follow-up data (30 Day) Captured	Variable Name: Morbidity Occurrences, Events, and Mortality Data Captured	Yes: No	
181	WGT_CLOSEST30D	Num	Post-Op Weight Closest to Day 30	Variable Name: Weight Closest to Day 30		
182	WGTUNIT_CLOSEST30D	Char	Post-Op Weight Closest to Day 30 Unit	Variable Name: Weight Closest to Day 30	kg; lbs	
183	BMI_CLOSEST30D	Num	Post-Op BMI Closest to Day 30	Calculated from weight closest to day 30 post-op and height		Values capped between 15 and 150.
184	DTBMI_30D	Num	Days from bariatric surgery to Post-Op BMI measurement	Days from bariatric surgery to Post-Op BMI Closest to Day 30 measurement		Values capped between 0 and 30.
185	PHYSASS_30D	Char	Post-Op Physical Assessment (30 Day)	Variable Name: Physical Assessment Completed	Yes: No	
186	DTDEATH_OP	Num	Days to death from operation date	Days to death from initial bariatric surgery operation date		Values capped between 0 and 30.

MBSAQIP 2024 PUF USER GUIDE | (RE-RELEASED JUNE 2026)
(Dates of Surgery: January 1, 2024 – December 31, 2024)

REOPERATION

Position #	Variable Name	Data Type	Variable Label	Search Term 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	Yes; No	
3	REOP_WEIGHTLOSS_MNFUT	Char	Reoperation To Maintain or for Future Weight Loss	Variable Name: To Maintain or for Future Weight Loss	Yes; No	
4	REOP_UNPLANNED	Char	Unplanned Reoperation	Variable Name: Unplanned Reoperation	Yes; No	
5	REOP_EMERGENCY	Char	Reoperation Emergency Case	Variable Name: Emergency Case (Reoperation form)	Yes; No	
6	REOP_STAPLING_PROC	Char	Reoperation Stapler Used/Anastomosis Completed	Variable Name: Stapler Used or Anastomosis Completed (Reoperation form)	Yes; No	
7	REOP_SURGICAL_APPROACH	Char	Reoperation Final Procedural Approach	Variable Name: Final Surgical Approach (Reoperation form)	Endoscopic Laparoscopic Open	
8	REOP_ROBOTICASST	Char	Reoperation Robotic Assist	Variable Name: Final Surgical Approach (Reoperation form)	Yes; No	
9	REOP_DIAGNOSIS	Char	Reoperation Postprocedural Diagnosis	Variable Name: Postprocedural Diagnosis (Reoperation form)	See "MBSAQIP Diagnoses List" located in Appendix J	
10	REOP_TYPE	Char	Reoperation Type	Variable Name: Reoperation Type	See "Variable Name : Reoperation Type (Reoperation form) " "Options" List on page 199 of Variables and Definitions	
11	REOP_CPT	Char	Reoperation CPT Code	Variable Name: Reoperation Type	CPT@ code.	
12	REOP_PREV_PROC	Char	Reoperation Previous Metabolic or Bariatric Procedure	Variable Name: Conversions - Previous Metabolic and Bariatric Procedure (Reoperation form)	See "Variable Name : Conversions - Previous Metabolic and Bariatric Procedure (Reoperation form) " "Options" List on page 202 of Variables and Definitions	
13	REOP_CURR_PROC	Char	Reoperation Current Procedure	Variable Name: Conversions - Current Procedure (Reoperation form)	See "Variable Name: Conversions - Current Procedure (Reoperation form) " "Options" List on page 203 of Variables and Definitions	
14	DTREOP	Num	Days to Reoperation	Days from initial bariatric or metabolic surgery procedure to reoperation		Values capped between 0 and 30.
15	REOP_PROC_PREV_SITE	Char	Previous Procedure Completed at Your Site	Variable Name: Previous Procedure Completed at Your Site (Reoperation Form)	Yes; No	

READMISSION

Position #	Variable Name	Data Type	Variable Label	Search Term 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	READ_HOSPITAL	Char	Readmission Occurred at Reporting Center	Variable Name: Readmission	Yes; No	
3	READ_UNPLANNED	Char	Unplanned Readmission	Variable Name: Unplanned Readmission	Yes; No	
4	READ_DIAGNOSIS	Char	Readmission Discharge Diagnosis	Variable Name: Readmission	See "MBSAQIP Diagnoses List" located in Appendix J	
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	Num	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	Search Term 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	Yes; No	
3	INTV_WEIGHTLOSS_MNFUT	Char	Intervention To Maintain or for Future Weight Loss	Variable Name: To Maintain or for Future Weight Loss	Yes; No	
4	INTV_UNPLANNED_BAR	Char	Unplanned Intervention	Variable Name: Unplanned Intervention	Yes; No	
5	INTV_EMERGENCY_BAR	Char	Intervention Emergency Case	Variable Name: Emergency Case (Intervention form)	Yes; No	
6	INTV_ANESTYPE	Char	Intervention Intra gastric Balloon Anesthesia Type	Variable Name: Intra gastric Balloon Anesthesia Type (Intervention form)	General Local Monitored anesthesia care/IV sedation None Other	If INTV_TYPE not = 'Intra gastric balloon adjustment', 'Intra gastric balloon placement', or 'Intra gastric balloon removal', then this variable will be missing.
7	INTV_IGBALLOON_TYPE	Char	Intervention Intra gastric Balloon Type	Variable Name: Intra gastric Balloon Type (Intervention form)	Absorbable Adjustable Air-filled Fluid-filled	If INTV_TYPE not = 'Intra gastric balloon adjustment', 'Intra gastric balloon placement', or 'Intra gastric balloon removal', then this variable will be missing.
8	INTV_TYPE	Char	Intervention Type	Variable Name: Intervention Type	See "Variable Name: Intervention Type (Intervention form) " "Options" List on page 211 of Variables and Definitions	
9	INTV_DIAGNOSIS	Char	Intervention Postprocedural Diagnosis	Variable Name: Postprocedural Diagnosis (Intervention form)	See "MBSAQIP Diagnoses List" located in Appendix J	
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.
11	INTV_PROC_PREV_SITE	Char	Previous Procedure Completed at Your Site	Variable Name: Previous Procedure Completed at Your Site (Intervention Form)	Yes; No	



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