

User Guide for the
2021 Participant Use Data File (PUF)

Released October 2022

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1. Introduction

The Metabolic and Bariatric Surgery Accreditation and Quality Improvement Program (MBSAQIP®) is pleased to introduce the 2021 Participant Use Data File (PUF) – including cases with operation dates between January 1, 2020 and December 31, 2021. 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 source 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 2021 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 2021 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 2020. These files represent the second 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 the two file years differences. (Tc.s, (I7())Tj 0.00Tc 0.070.0evife

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 requestors 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 an online form to provide ACS with basic information about themselves including the participating center in which they are currently employed and in what capacities, 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. Once 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 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 2021. 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 carry a unique key matching variable, CASEID, which allows users to merge datasets as necessary.

All postoperative events or outcomes (e.g., desaturation, 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.

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 admission, reoperation, or intention-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: 1.7 GB SPSS: 1.9 GB TXT: 162 MB	Contains 191 HIPAA compliant variables on 211,254 cases submitted from 902 centers in 2021. Each row represents one msme

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 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 for

Case Exclusion Criteria

The following exclusion criteria were applied to cases coded in 2021. 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 occurs 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, strict, 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

6. Data Limitations

While every effort has been made to make 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 set to missing with coded 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 Tc 0.08dw

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 10 days from the time 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 Guides 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" (Appendix B: Case Inclusion and Follow-up within the ~~IS~~ QIP 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:

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 six previous MBSAQIP PUF files available for request/download:

PUF Year	PUF Type	Cases	Centers
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 descriptors 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 tabular 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.

MAIN

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	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	1	Yes; No	
5	ageGT80	Char	Age Greater Than 80 Years	Indicator for patients with recorded age greater than 80	1	Yes; No	
7	HISPANIC	Char	Hispanic Ethnicity	Variable Name: Hispanic Ethnicity	4	White Black or African American American Indian or Alaska Native Native Hawaiian or Other Pacific Islander Asian Some Other Race Unknown/Not Reported	
8	PROCEDURE_TYPE	Char	Procedure Type	Variable Name: Procedure Type	6	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	CPT	Char	Primary Procedure CPT	Variable Name: Primary Procedure	7	CPT® codes	
10	CPT_DESCR	Char	Primary Procedure CPT Description	Variable Name: Primary Procedure	7		
11	INIT_PROC_DESC	Char	Initial Procedure Description	Variable Name: Initial Procedure Description	8	See "Variable Name: Initial Procedure Description" "Options" List on page 8 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	9	See "Variable Name: Conversions Previous" "Options" List on page 9 of Variables and Definitions	Field is multi-select. Selections are separated by " - ". If PROCEDURE_TYPE not = 'Conversion', then this field will be missing.
13	CONV_CURR_PROC	Char	Conversion Current Primary Procedure	Variable Name: Conversions Current Primary Procedure	10	See "Variable Name: Conversions Current Primary" "Options" List on page 10 of Variables and Definitions	If PROCEDURE_TYPE not = 'Conversion', then this field will be missing.
14	REV_PROC	Char	Revision Procedure Type	Variable Name: Revisions Procedure Type	11	See "Variable Name: Revisions Procedure Type" "Options" List on page 11 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	12	Yes; No	If PROCEDURE_TYPE = 'Initial', this field will be missing.
16	REV_CONV_FININDIC	Char	Revision/Conversion Final Indication	Variable Name: Final Indication	13	See "Variable Name: Final Indication" "Options" List on page 13 of Variables and Definitions	If PROCEDURE_TYPE = 'Initial', this field will be missing.
17	OTHcpt1	Char	Other CPT 1				
18	OTHcpt2	Char	Other CPT 2				
19	OTHcpt3	Char	Other CPT 3				
20	OTHcpt4	Char	Other CPT 4				
21	OTHcpt5	Char	Other CPT 5				
22	OTHcpt6	Char	Other CPT 6				
23	OTHcpt7	Char	Other CPT 7				
24	OTHcpt8	Char	Other CPT 8				
25	OTHcpt9	Char	Other CPT 9				
26	OTHcpt10	Char	Other CPT 10				
27	CONcpt1	Char	Concurrent CPT 1				
28	CONcpt2	Char	Concurrent CPT 2				
29	CONcpt3	Char	Concurrent CPT 3				
30	CONcpt4	Char	Concurrent CPT 4				
31	CONcpt5	Char	Concurrent CPT 5				
32	CONcpt6	Char	Concurrent CPT 6				
33	CONcpt7	Char	Concurrent CPT 7				
34	CONcpt8	Char	Concurrent CPT 8				
35	CONcpt9	Char	Concurrent CPT 9				
36	CONcpt10	Char	Concurrent CPT 10				
37	STAPLING_PROC	Char	Stapler Used/Anastomosis Completed	Variable Name: Stapler Used/Anastomosis Completed	16	Yes; No Home/Permanent residence Acute Care Hospital Other facility Expired Against Medical Advice (AMA) Unknown Gastroenterologist General surgeon Interventional radiologist Metabolic and bariatric surgeon Other	
40	OPYEAR	Num	Year of Operation	Year of initial bariatric or metabolic surgery	5		
41	DTOP	Num	Days to operation from hospital admit date	Days to initial bariatric or metabolic surgery operation date from hospital admission date	5,17		Values capped between 0 and 30.
42	DTDISCH_OP	Num	Days to discharge from operation date	Days to hospital discharge from initial bariatric or metabolic surgery date	5, 18		Values capped between 0 and 150.
43	DTDISCH_ADMIT	Num	Days to discharge from hospital admit date	Days to hospital discharge from hospital admission date	17, 18		Values capped between 0 and 180.
44	HGT	Num	Height	Variable Name: Height	21		
45	HGTUNIT	Char	Height Unit	Variable Name: Height	21	cm; in	
46	WGT_HIGH_BAR	Num	Highest Pre-Op Weight recorded	Variable Name: Highest Recorded Weight	22		
47	WGT_HIGH_UNIT_BAR	Char	Highest Pre-Op Weight recorded Unit	Variable Name: Highest Recorded Weight	22	kg; lbs	
48				VariabC2			

57	IMMUNOSUPR_THER	Char	Pre-Op Steroid/Immunosuppressant Use for Chronic Condition	Variable Name: Immunosuppressive Therapy	29	Yes, insulin
58	PREOP_COVID	Char	Preop COVID-19 Diagnosis	Variable Name: Preop COVID-19 Diagnosis	34	Yes, non-insulin
59	COPD	Char	Pre-Op history of COPD	Variable Name: History of Severe COPD	35	No
60	HISTORY_PE	Char	History of PE	Variable Name: History of Pulmonary Embolism	36	Yes; No
61	SLEEP_APNEA	Char	Pre-Op Sleep Apnea	Variable Name: Sleep Apnea	37	Yes; No
62	GERD	Char	Pre-Op GERD	Variable Name: GERD	38	Yes; No
63	PREVIOUS_SURGERY	Char	Previous Foregut Surgery	Variable Name: Previous Foregut Surgery	39	Yes; No
64	MI_ALL_HISTORY	Char	History of MI	Variable Name: History of Myocardial Infarction	40	Yes; No
65	PTC	Char	Previous PCI/PTCA	Variable Name: Previous PCI/PTCA	41	Yes; No
66	PCARD	Char	Previous Cardiac Surgery	Variable Name: Previous Cardiac Surgery	42	Yes; No
67	HYPERTENSION	Char	Pre-Op Hypertension	Variable Name: Hypertension	43	Yes; No
69	HYPERLIPIDEMIA	Char	Pre-Op Hyperlipidemia	Variable Name: Hyperlipidemia	45	0
70	HISTORY_DVT	Char	Pre-Op Venous Thrombosis Requiring Therapy	Variable Name: Preop Venous Thrombosis Requiring Therapy	46	1
71	THERAPEUTIC_ANTICOAGULATION	Char	Pre-Op Therapeutic Anticoagulation	Variable Name: Therapeutic Anticoagulation	47	2
72	VENOUS_STASIS	Char	Pre-Op Venous Stasis	Variable Name: Venous Stasis	49	3 or more
73	IVC_FILTER	Char	Pre-Op IVC Filter	Variable Name: IVC Filter	50	Yes; No
75	DIALYSIS	Char	Pre-Op Requiring or on dialysis	Variable Name: Currently Requiring/On Dialysis	51	IVC filter placed in anticipation of the metabolic or bariatric procedure
76	RENAL_INSUFFICIENCY	Char	Pre-Op Renal Insufficiency	Variable Name: Renal Insufficiency	52	IVC filter was preexisting
77	ALBUMIN					Unknown

113	ACTERENALFAILURE	Char	Acute Renal Failure	Variable Name: Progressive Renal Insufficiency/Acute Renal Failure Requirin Dialysis	84	Yes; No	
114	POSTOPUTI	Char	Post-Op Urinary Tract Infection	Variable Name: Urinary Tract Infection	85	Yes; No	
115	UTIPATOS	Char	Urinary Tract Infection PATOS	Variable Name: UTI – PATOS	87	Yes; No	
116	CVA	Char	Post-Op Stroke/CVA	Variable Name: Stroke/CVA	88	Yes; No	
117	CARDIACARRESTCPR	Char	Intra-Op or Post-Op Cardiac Arrest Requiring CPR	Variable Name: Cardiac Arrest Requiring CPR	89	Yes; No	
118	MYOCARDIALINFR	Char	Intra-Op or Post-Op Myocardial Infarction	Variable Name: Myocardial Infarction	90	Yes; No	
119	TRANSFINTOPPSTOP	Char	Transfusion Intra-Op/Post-Op (72h of surgery start time)	Variable Name: Blood Transfusion	92	Yes; No	
120	BLEEDING_UNITS	Num	Number of Blood Units Transfused	Variable Name: Blood Transfusion	92		If TRANSFINTOPPSTOP = "Yes", values capped between 1 and 20. If TRANSFINTOPPSTOP = "No" then this variable = 0.
121	VEINTHROMBREQTER	Char	Post-Op Venous Thrombosis Requiring Therapy	Variable Name: Postop Venous Thrombosis Requiring Therapy	94	Yes; No	
122	CDIFF	Char	Clostridium difficile (C.diff) Colitis	Variable Name: C. diff Colitis	95	Yes; No	
123	POSTOPSEPSIS	Char	Post-Op Sepsis	Variable Name: Sepsis	97	Yes; No	
124	SEPSISPATOS	Char	Sepsis PATOS	Variable Name: Sepsis – PATOS	100	Yes; No	
125	POSTOPSEPTICSHOCK	Char	Post-Op Septic Shock	Variable Name: Septic Shock	101	Yes; No	
126	SEPSHOCKPATOS	Char	Septic Shock PATOS	Variable Name: Septic Shock – PATOS	102	Yes; No	
127	UNPLANNEDADMISSIONICU30	Char	Unplanned Admission to ICU	Variable Name: Unplanned Admission to ICU	103	Yes; No	
128	GITTRACTBLEED	Char	Post-Op GI Tract Bleeding	Variable Name: Gastrointestinal Tract Bleeding	104	Yes; No	
129	BOWELOBSTRUCTION	Char	Post-Op Bowel Obstruction	Variable Name: Bowel Obstruction	105	Yes; No	
130	POSTOP_COVID	Char	Post-Op COVID-19 Diagnosis	Variable Name: New Postop COVID-19 Diagnosis	106	Yes, lab-confirmed diagnosis (or ICD-10 code U07.1) Yes, suspected diagnosis (or ICD-10 code U07.2);	
131	REOP30	Char	At Least One Reoperation within 30 days of operation	Any Reoperation date recorded within 30 days from initial bariatric surgery operation date	119	Yes; No	See separate Reoperation file.
132	READ30	Char	At Least One Readmission within 30 days of operation	Any Readmission date recorded within 30 days from initial bariatric surgery operation date	113	Yes; No	See separate Readmission file.
133	INTV30	Char	At Least One Intervention within 30 days of operation	Any Intervention date recorded within 30 days from initial bariatric surgery operation date	129	Yes; No	See separate Intervention file.
134	DEHYD_TRTMT_OUT	Char	IV Treatment as an Outpatient	Variable Name: IV Treatment as an Outpatient	107	Yes; No 1 2 3 4 5 or more	
136	EMERG_VISIT_OUT	Char	Emergency Department (ED) Visits	Variable Name: Emergency Department (ED) Visits	108	Yes; No	
137	EMERG_NUM_TIMES	Num	Number of Emergency Department (ED) Visits	Variable Name: Emergency Department (ED) Visits	108		If EMERG_VISIT_OUT= 'No' then this variable will be missing.
138	ED_VSTNM_1	Char	Discharge Diagnosis - ED Visit 1				
139	ED_VSTNM_2	Char	Discharge Diagnosis - ED Visit 2				
140	ED_VSTNM_3	Char	Discharge Diagnosis - ED Visit 3				
141	ED_VSTNM_4	Char	Discharge Diagnosis - ED Visit 4				
142	ED_VSTNM_5	Char	Discharge Diagnosis - ED Visit 5				
143	ED_VSTNM_6	Char	Discharge Diagnosis - ED Visit 6				
144	ED_VSTNM_7	Char	Discharge Diagnosis - ED Visit 7				
145	ED_VSTNM_8	Char	Discharge Diagnosis - ED Visit 8				
146	ED_VSTNM_9	Char	Discharge Diagnosis - ED Visit 9				
147	ED_VSTNM_10	Char	Discharge Diagnosis - ED Visit 10				
148	ED_VSTNM_11	Char	Discharge Diagnosis - ED Visit 11				
149	ED_VSTNM_12	Char	Discharge Diagnosis - ED Visit 12				
150	DT_EDVISIT_1	Num	Days from operation date to ED Visit 1				
151	DT_EDVISIT_2	Num	Days from operation date to ED Visit 2				
152	DT_EDVISIT_3	Num	Days from operation date to ED Visit 3				
153	DT_EDVISIT_4	Num	Days from operation date to ED Visit 4				
154	DT_EDVISIT_5	Num	Days from operation date to ED Visit 5				
155	DT_EDVISIT_6	Num	Days from operation date to ED Visit 6				
156	DT_EDVISIT_7	Num	Days from operation date to ED Visit 7				
157	DT_EDVISIT_8	Num	Days from operation date to ED Visit 8				
158	DT_EDVISIT_9	Num	Days from operation date to ED Visit 9				
159	DT_EDVISIT_10	Char	Days from operation date to ED Visit 10				
160	DT_EDVISIT_11	Char	Days from operation date to ED Visit 11				
161	DT_EDVISIT_12	Char	Days from operation date to ED Visit 12				
162	DTPOSTOSUPERFINCSSI	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	64		Values capped between 0 and 30. If POSTOSUPERFICIALINCISIONALSSI = "No" then this variable will be missing.
163	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	67		Values capped between 0 and 30. If

Num Days (GANSPE) recorded date of Deep Incisional SSI Days to first recorded Deep Incisional SSI occurrence from initial bariatric surgery operation date
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172	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	79		Values capped between 0 and 30. If UNPLINTUBATION = "No" then this variable will be missing.
173	DTPULMONARYEMBOLSM	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	81		Values capped between 0 and 30. If PULMONARYEMBOLSM = "No" then this variable will be missing.
174	DTPROGRSRENALINSUF	Num	Days from operation date to Progressive Renal Insufficiency	Days to Progressive Renal Insufficiency occurrence from initial bariatric surgery operation date	84		Values capped between 0 and 30. If PROGRSRENALINSUF = "No" then this variable will be missing.
175	DTACTERENALFAILURE	Num	Days from operation date to Acute Renal Failure	Days to Acute Renal Failure occurrence from initial bariatric surgery operation date	84		Values capped between 0 and 30. If ACTERENALFAILURE = "No" then this variable will be missing.
176	DTCVA	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	88		Values capped between 0 and 30. If CVA = "No" then this variable will be missing.
177	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	89		Values capped between 0 and 30. If CARDIACARRESTCPR = "No" then this variable will be missing.
178	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	90		Values capped between 0 and 30. If MYOCARDIALINFR = "No" then this variable will be missing.
179	DTTRANSFINTOPPSTOP	Num	Days from operation date to Blood Transfusion (72h)	Days to Blood Transfusion (72h) occurrence from initial bariatric surgery operation date	92		Values capped between 0 and 3. If TRANSFINTOPPSTOP = "No" then this variable will be missing.
180	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	94		Values capped between 0 and 30. If VEINTHROMBREQTER = "No" then this variable will be missing.
181	DTUNPLANADMICU	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	103		Values capped between 0 and 30. If UNPLANNEDADMISSIONICU30 = "No" then this variable will be missing.
182	DTGITTRACTBLEED	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	104		Values capped between 0 and 30. If GITTRACTBLEED = "No" then this variable will be missing.
183	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	105		Values capped between 0 and 30. If BOWELOBSTSTRUCTION = "No" then this variable will be missing.
184	DTCDIFF	Num	Days from operation date to C. diff Infection	Days to C. diff Infection occurrence from initial bariatric surgery operation date	95		Values capped between 0 and 30. If CDIFF = "No" then this variable will be missing.
185	FOLLOW_30DAYS_BAR	Char	Follow-up data (30 Day) Captured	Variable Name: Morbidity Occurrences, Events, and Mortality Data Captured	109	Yes; No	
186	WGT_CLOSEST30D	Num	Post-Op Weight Closest to Day 30	Variable Name: Weight Closest to Day 30	111		
187	WGTUNIT_CLOSEST30D	Char	Post-Op Weight Closest to Day 30 Unit	Variable Name: Weight Closest to Day 30	111	kg, lbs	
188	BMI_CLOSEST30D	Num	Post-Op BMI Closest to Day 30	Calculated from weight closest to day 30 post-op and height	111		Values capped between 15 and 150.
189	DTBML_30D	Num	Days from bariatric surgery to Post-Op BMI measurement	Days from bariatric surgery to Post-Op BMI Closest to Day 30 measurement	111		Values capped between 0 and 30.
190	PHYSASS_30D	Char	Post-Op Physical Assessment (30 Day)	Variable Name: Physical Assessment Completed	112	Yes; No	
191	DTDEATH_OP	Num	Days to death from operation date	Days to death from initial bariatric surgery operation date	137		Values capped between 0 and 30.

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REOPERATION

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	116	Yes; No	
3	REOP_WEIGHTLOSS_MNFUT	Char	Reoperation To Maintain or for Future Weight Loss	Variable Name: To Maintain or for Future Weight Loss	117	Yes; No	
4	REOP_UNPLANNED	Char	Unplanned Reoperation	Variable Name: Unplanned Reoperation	120	Yes; No	
5	REOP_EMERGENCY	Char	Reoperation Emergency Case	Variable Name: Emergency Case (Reoperation form)	121	Yes; No	
6	REOP_STAPLING_PROC	Char	Reoperation Stapler Used/Anastomosis Completed	Variable Name: Stapler Used or Anastomosis Completed (Reoperation form)	122	Yes; No	
7	REOP_SURGICAL_APPROACH	Char	Reoperation Final Procedural Approach	Variable Name: Final Surgical Approach (Reoperation form)	123	Endoscopic Laparoscopic Open	
8	REOP_ROBOTICASST	Char	Reoperation Robotic Assist	Variable Name: Final Surgical Approach (Reoperation form)	123	Yes; No	
9	REOP_DIAGNOSIS	Char	Reoperation Postprocedural Diagnosis	Variable Name: Postprocedural Diagnosis (Reoperation form)	124	See Options list on page 139 in Variables MBSAQIP PUF Definitions	
10	REOP_TYPE	Char	Reoperation Type	Variable Name: Reoperation Type	125	See Table on page 125 in MBSAQIP PUF Definitions	
11	REOP_CPT	Char	Reoperation CPT Code	Variable Name: Reoperation Type	125	CPT@ code.	
12	REOP_PREV_PROC	Char	Reoperation Previous Metabolic or Bariatric Procedure	Variable Name: Conversions - Previous Metabolic and Bariatric Procedure (Reoperation form)	127	See Options list on page 127 in Variables MBSAQIP PUF Definitions	
13	REOP_CURR_PROC	Char	Reoperation Current Procedure	Variable Name: Conversions - Current Procedure (Reoperation form)	128	See Options list on page 128 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	Each case or record in the database has a unique CaseID number.			
2	READ_HOSPITAL	Char	Readmission Occurred at Reporting Center	Variable Name: Readmission	113	Yes; No	
3	READ_UNPLANNED	Char	Unplanned Readmission	Variable Name: Unplanned Readmission	115	Yes; No	
4	READ_DIAGNOSIS	Char	Readmission Discharge Diagnosis	Variable Name: Readmission	113, 139	See Options list on page 139 in Variables MBSAQIP PUF Definitions	
5	DTREAD	Num	Days from Operation date to Readmission	Days from initial bariatric or metabolic surgery procedure to readmission	5, 113		Values capped between 0 and 30.
6	DTREAD_DISCH	Num	Days from Original Discharge to Readmission	Days to readmission from original hospital stay discharge	18, 113		Values capped between 0 and 30.
7	DTDISDT_READ	Num	Days from Readmission to Readmission Discharge	Days to readmission discharge from readmission date	113		Values capped between 0 and 150.

INTERVENTION

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	INTV_CENTER	Char	Intervention Performed at Reporting Site	Variable Name: Performed at Your Site	116	Yes; No	
3	INTV_WEIGHTLOSS_MNFUT	Char	Intervention To Maintain or for Future Weight Loss	Variable Name: To Maintain or for Future Weight Loss	117	Yes; No	
4	INTV_UNPLANNED_BAR	Char	Unplanned Intervention	Variable Name: Unplanned Intervention	131	Yes; No	
5	INTV_EMERGENCY_BAR	Char	Intervention Emergency Case	Variable Name: Emergency Case (Intervention form)	132	Yes; No	
6	INTV_ANESTYPE	Char	Intervention Intra gastric Balloon Anesthesia Type	Variable Name: Intra gastric Balloon Anesthesia Type (Intervention form)	133	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)	134	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	135		
9	INTV_DIAGNOSIS	Char	Intervention Postprocedural Diagnosis	Variable Name: Postprocedural Diagnosis (Intervention form)	136, 139	See Options list on page 139 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.



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