



دائرة الصحة  
DEPARTMENT OF HEALTH

**JAWDA Quarterly  
Guidelines for Bariatric  
Surgery (BS)**

**Issue: October 2019**

## Table of Contents

|  |           |
|--|-----------|
| Executive Summary.....   | 3         |
| About this Guidance .....  | 4         |
| <b>Bariatric Surgery Quality Indicators .....</b>                          | <b>5</b>  |
| <b>Appendix A: Glossary.....</b>   | <b>20</b> |
| <b>Appendix B: Approved procedure CPT codes:.....</b>                      | <b>21</b> |
| <b>Appendix C: Minor Complications ICD-10 and CPT Codes: .....</b>         | <b>22</b> |
| <b>Appendix D: Major Complications ICD-10 Codes .....</b>                  | <b>22</b> |
| <b>Summary of Code Changes - Updated to 2018 ICD-10 CM &amp; CPT .....</b> | <b>24</b> |

## Executive Summary

The Department of Health– Abu Dhabi (DOH) is the regulatory body of the healthcare sector in the Emirate of Abu Dhabi and ensures excellence in healthcare for the community by monitoring the health status of its population.

The Emirate of Abu Dhabi is experiencing a substantial growth in the number of hospitals, centers and clinics. This is ranging from school clinics and mobile units to internationally renowned specialist and tertiary academic centers. Although, access and quality of care has improved dramatically over the last couple of decades, mirroring the economic upturn and population boom of Emirate of Abu Dhabi, however challenges remain in addressing further improvements.

The main challenges that are presented with increasingly dynamic population include an aging population with increased expectation for treatment, utilization of technology and diverse workforce leading to increased complexity of healthcare provision in Abu Dhabi. All of this results in an increased and inherent risk to quality and patient safety.

DOH has developed dynamic and comprehensive quality framework in order to bring about improvements across the health sector. This guidance relates to the quality indicators that DOH is mandating the quarterly reporting against by the operating general and specialist hospitals in Abu Dhabi.

The guidance sets out the full definition and method of calculation for patient safety and clinical effectiveness indicators. For enquiries about this guidance, please contact [jawda@DoH.gov.ae](mailto:jawda@DoH.gov.ae)

This document is subject for review and therefore it is advisable to utilize online versions available on the DOH website at all times.

Issued: October 2019

Published update: Version 2, January 2020

Published update: Version 3, October 2021

## About this Guidance

The guidance sets out the definitions and reporting frequency of JAWDA Bariatric Surgery (BS) performance indicators. The Department of Health (DoH), with consultation from local and international expertise of obesity and weight management, has developed Bariatric Surgery Performance Indicators that are aimed for assessing the degree to which a provider competently and safely delivers the appropriate clinical services to the patient within the optimal period of time.

The Bariatric Surgery performance indicators in this guidance include measures to monitor morbidity and mortality in patients undergoing bariatric surgery i.e. (postoperative complications, readmissions, re-operation, and extended length of stay). Healthcare providers are the most qualified professionals to develop and evaluate quality of care for obesity and weight management patients; therefore, it is crucial that clinicians retain a leadership position in defining performance among Bariatric healthcare providers.

## Who is this guidance for?

All DoH licensed healthcare facilities providing bariatric surgery services in the Emirate of Abu Dhabi.

## How do I follow this guidance?

Each provider will nominate one member of staff to coordinate, collect, monitor and report Bariatric services quality indicators data as per communicated dates. The nominated healthcare facility lead must in the first instance e-mail their contact details (if different from previous submission) to [JAWDA@doh.gov.ae](mailto:JAWDA@doh.gov.ae) and submit the required quarterly quality performance indicators through Jawda online portal.

## What are the Regulation related to this guidance?

- Legislation establishing the Health Sector
- [DOH Standard for Obesity and Weight Diagnosis, Pharmacological and Surgical Management Interventions](#)
- As per DoH [Policy for Quality and Patient Safety](#) issued January 15<sup>th</sup> 2017, this guidance applies to all DOH Licensed Hospital Healthcare Facilities in the Emirate of Abu Dhabi in accordance with the requirements set out in this Standard.

**Bariatric Surgery Quality Indicators**

Type: BS Quality Indicator

Indicator Number: BS01

| <b>KPI Description (title):</b>              | <b>Rate of Minor Complications among Low-Risk Patients within 30 days from Primary principal Bariatric Surgery</b>  |                            |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
|--|---|----------------------------|--|--------|----------------|--------------|---------------------|-----------------------------|-----|--------|-------|-----|-------|--------------|-----|-------|--|-----|-------|--------------|-----|--------------|--------------|----------------------------|-----|-------|-----|-------|--|-----|-------|-----|-----|--|--|-----|
| <b>Domain</b>                                | Patient Safety  |                            |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| <b>Sub-Domain</b>                            | Complication/Outcome  |                            |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| <b>Definition:</b>                           | <p>Rate of <b>minor</b> medical/surgical complications among <b>low risk</b> primary principle bariatric surgery patients (18 years or older) within 30 days of the surgery date.</p> <p><b>Primary Principal Procedure:</b> The most complex bariatric operative procedure performed during this OR encounter <b>AND</b> the first metabolic or bariatric procedure for the patient to ever undergo.</p>   |                            |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| <b>Calculation:</b>                          | <p><b>Numerator:</b> Total number of <b>low-risk</b> bariatric surgery patients (18 years or older) who have undergone a primary principal bariatric surgery and had a <b>minor</b> complication within 30 days of the principal bariatric surgery.</p> <p><b>Denominator:</b> Total number of <b>low-risk</b> patients (18 years or older) who have undergone a primary principal bariatric surgery during the reporting period.</p> <p><b>Bariatric Surgery CPT Codes: 43644,43645, 43659, 43775, 43846,43847, 43999</b></p> <p><b>Minor Complication Codes:</b></p> <table border="1"> <thead> <tr> <th>ICD-10</th> <th>CPT - Included</th> <th>CPT Excluded</th> </tr> </thead> <tbody> <tr> <td>K28 - K28.9; K56.7;</td> <td>43235 - 43236; 43239; 43259</td> <td>N/A</td> </tr> <tr> <td>K91.89</td> <td>43245</td> <td>N/A</td> </tr> <tr> <td>R11.2</td> <td>96360; 96361</td> <td>N/A</td> </tr> <tr> <td>N39.0</td> <td></td> <td>N/A</td> </tr> <tr> <td>E86.0</td> <td>96360; 96361</td> <td>N/A</td> </tr> <tr> <td>N17.8; N17.9</td> <td>96360; 96361</td> <td>90935; 90937; 90945; 90947</td> </tr> <tr> <td>N19</td> <td>90935</td> <td>N/A</td> </tr> <tr> <td>N20.0</td> <td></td> <td>N/A</td> </tr> <tr> <td>K43.2</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>K95.01; K95.81, T81.4XXA, T81.4XXD, T81.4XXS</td> <td></td> <td>N/A</td> </tr> </tbody> </table> |                            |  | ICD-10 | CPT - Included | CPT Excluded | K28 - K28.9; K56.7; | 43235 - 43236; 43239; 43259 | N/A | K91.89 | 43245 | N/A | R11.2 | 96360; 96361 | N/A | N39.0 |  | N/A | E86.0 | 96360; 96361 | N/A | N17.8; N17.9 | 96360; 96361 | 90935; 90937; 90945; 90947 | N19 | 90935 | N/A | N20.0 |  | N/A | K43.2 | N/A | N/A | K95.01; K95.81, T81.4XXA, T81.4XXD, T81.4XXS |  | N/A |
| ICD-10                                       | CPT - Included  | CPT Excluded               |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| K28 - K28.9; K56.7;                          | 43235 - 43236; 43239; 43259   | N/A                        |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| K91.89                                       | 43245   | N/A                        |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| R11.2  | 96360; 96361  | N/A                        |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| N39.0  |   | N/A                        |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| E86.0  | 96360; 96361  | N/A                        |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| N17.8; N17.9                                 | 96360; 96361  | 90935; 90937; 90945; 90947 |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| N19  | 90935   | N/A                        |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| N20.0  |   | N/A                        |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| K43.2  | N/A   | N/A                        |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| K95.01; K95.81, T81.4XXA, T81.4XXD, T81.4XXS |   | N/A                        |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| <b>Inclusion</b>                             | <ul style="list-style-type: none"> <li>Low Risk adult patients (18 years and above) with a primary principal bariatric procedure</li> </ul>   |                            |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| <b>Exclusion</b>                             | <ul style="list-style-type: none"> <li>Patient who are considered as high risk at the time of surgery as defined in <b>Appendix A</b></li> <li>Patients who have undergone revisional surgery.</li> <li>Patients who were discharged against medical advice</li> </ul>  |                            |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| <b>Reporting Frequency:</b>                  | Quarterly   |                            |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| <b>Unit of Measure:</b>                      | Percentage  |                            |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| <b>International comparison if available</b> | Developed locally by modifying similar indicators used by MBSAQIP   |                            |  |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |

## JAWDA Quarterly Guidelines for Bariatric Surgery

---

|                                   |  |
|-----------------------------------|--|
| <b>Desired direction:</b>         | Lower is better                                  |
| <b>Notes for all providers</b>    |  |
| <b>Data sources and guidance:</b> | Hospital patient data source, bariatric registry |

## JAWDA Quarterly Guidelines for Bariatric Surgery

Type: BS Quality Indicator

Indicator Number: BS02

| <b>KPI Description (title):</b>              | <b>Rate of Minor Complications among High-Risk Patients within 30 days from Principal Bariatric Surgery</b>  |                             |                            |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
|--|--|-----------------------------|----------------------------|--------|----------------|--------------|---------------------|-----------------------------|-----|--------|-------|-----|-------|--------------|-----|-------|--|-----|-------|--------------|-----|--------------|--------------|----------------------------|-----|-------|-----|-------|--|-----|-------|-----|-----|--|--|-----|
| <b>Domain</b>                                | Patient Safety   |                             |                            |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| <b>Sub-Domain</b>                            | Complication/Outcome   |                             |                            |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| <b>Definition:</b>                           | Rate of <b>minor</b> medical/surgical complications within 30 days of the surgery date among <b>high-risk</b> bariatric surgery patients (18 years or older).  |                             |                            |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| <b>Calculation:</b>                          | <p><b>Numerator:</b> Total number of <b>high-risk</b> patients (18 years or older) who have undergone a principal bariatric surgery and had a minor complication within 30 days of the principal bariatric surgery.</p> <p><b>Denominator:</b> Total number of <b>high-risk</b> patients (18 years or older) who have undergone a principal bariatric surgery during reporting period</p> <p><b>Bariatric Surgery CPT Codes: 43644-43645, 43659, 43775, 43846-43847, 43848, 43999</b></p> <p><b>Minor Complication Codes:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">ICD-10</th> <th style="text-align: left;">CPT - Included</th> <th style="text-align: left;">CPT Excluded</th> </tr> </thead> <tbody> <tr> <td>K28 - K28.9; K56.7;</td> <td>43235 - 43236; 43239; 43259</td> <td>N/A</td> </tr> <tr> <td>K91.89</td> <td>43245</td> <td>N/A</td> </tr> <tr> <td>R11.2</td> <td>96360; 96361</td> <td>N/A</td> </tr> <tr> <td>N39.0</td> <td></td> <td>N/A</td> </tr> <tr> <td>E86.0</td> <td>96360; 96361</td> <td>N/A</td> </tr> <tr> <td>N17.8; N17.9</td> <td>96360; 96361</td> <td>90935; 90937; 90945; 90947</td> </tr> <tr> <td>N19</td> <td>90935</td> <td>N/A</td> </tr> <tr> <td>N20.0</td> <td></td> <td>N/A</td> </tr> <tr> <td>K43.2</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>K95.01; K95.81, T81.4XXA, T81.4XXD, T81.4XXS</td> <td></td> <td>N/A</td> </tr> </tbody> </table> |                             |                            | ICD-10 | CPT - Included | CPT Excluded | K28 - K28.9; K56.7; | 43235 - 43236; 43239; 43259 | N/A | K91.89 | 43245 | N/A | R11.2 | 96360; 96361 | N/A | N39.0 |  | N/A | E86.0 | 96360; 96361 | N/A | N17.8; N17.9 | 96360; 96361 | 90935; 90937; 90945; 90947 | N19 | 90935 | N/A | N20.0 |  | N/A | K43.2 | N/A | N/A | K95.01; K95.81, T81.4XXA, T81.4XXD, T81.4XXS |  | N/A |
|  | ICD-10   | CPT - Included              | CPT Excluded               |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
|  | K28 - K28.9; K56.7;  | 43235 - 43236; 43239; 43259 | N/A                        |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
|  | K91.89   | 43245                       | N/A                        |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
|  | R11.2  | 96360; 96361                | N/A                        |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
|  | N39.0  |                             | N/A                        |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
|  | E86.0  | 96360; 96361                | N/A                        |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
|  | N17.8; N17.9   | 96360; 96361                | 90935; 90937; 90945; 90947 |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
|  | N19  | 90935                       | N/A                        |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
|  | N20.0  |                             | N/A                        |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| K43.2  | N/A  | N/A                         |                            |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| K95.01; K95.81, T81.4XXA, T81.4XXD, T81.4XXS |  | N/A                         |                            |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| <b>Inclusion</b>                             | <ul style="list-style-type: none"> <li>Patients who are considered as high risk at the time of the principle bariatric surgery as defined in Appendix A.</li> <li>Patients who have undergone a revisional surgery.</li> </ul>   |                             |                            |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| <b>Exclusion</b>                             | <ul style="list-style-type: none"> <li>Patients who were discharged against medical advice</li> <li>Low-risk cases</li> </ul>  |                             |                            |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| <b>Reporting Frequency:</b>                  | Quarterly  |                             |                            |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| <b>Unit of Measure:</b>                      | % complications  |                             |                            |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| <b>International comparison if available</b> | Developed locally by modifying similar indicators used by MBSAQIP  |                             |                            |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| <b>Desired direction:</b>                    | Lower is better  |                             |                            |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| <b>Notes for all providers</b>               |  |                             |                            |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |
| <b>Data sources and guidance:</b>            | Hospital patient data source, bariatric registry   |                             |                            |        |                |              |                     |                             |     |        |       |     |       |              |     |       |  |     |       |              |     |              |              |                            |     |       |     |       |  |     |       |     |     |  |  |     |

## JAWDA Quarterly Guidelines for Bariatric Surgery

Type: BS Quality Indicator

Indicator Number: BS03

| <b>KPI Description (title):</b>                   | <b>Rate of Major Complications among Low-Risk Patients within 30 days from Primary Principal Bariatric Surgery</b>   |               |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
|---|--|---------------|--|--------|----------------|--------------|-----------------------|---|-----|----------------------------------|---------------------|-----|---------------|--|---------------|-------|---|-----|---|----------------------------|-----|-------|---------------------|-----|-------|--------------|-----|------------------------------------|-----|-----|----------------|-----|-----|----------------------------------|----------------------------|-----|-------------|--------------------|-----|-------|-------------------------------------|-----|--------------------------------|--------------|-----|--|--------------------------|-----|
| <b>Domain</b>                                     | Patient Safety   |               |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| <b>Sub-Domain</b>                                 | Complication/Outcome   |               |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| <b>Definition:</b>                                | Rate of <b>major</b> medical/surgical complications within 30 days of the primary principal surgery date among <b>low risk</b> bariatric surgery patients (18 years or older).<br><b>Primary Principal Procedure:</b> The most complex bariatric operative procedure performed during this OR encounter <b>AND</b> the first metabolic or bariatric procedure for the patient to ever undergo.   |               |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| <b>Calculation:</b>                               | <p><b>Numerator:</b> Total number of <b>low risk</b> patients (18 years or older) who have undergone a primary principal bariatric surgery and had a <b>major</b> complication(s) within 30 days of the primary principal bariatric surgery.</p> <p><b>Denominator:</b> Total number of low-risk patients (18 years or older) who have undergone a primary principal bariatric surgery during the reporting period.</p> <p><b>Bariatric Surgery CPT Codes: 43644,43645, 43659, 43775, 43846,43847, 43999</b></p> <p><b>Major Complication Codes:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">ICD-10</th> <th style="text-align: left;">CPT - Included</th> <th style="text-align: left;">CPT Excluded</th> </tr> </thead> <tbody> <tr> <td>182 code range series</td> <td>34001; 34051; 34101; 34111; 34151; 34201; 34203; 34401; 34421; 34451, 34471, 34490; 37619</td> <td>N/A</td> </tr> <tr> <td>Z98.0;T82.533; T85.598; T85.638A</td> <td>44602; 44604; 49320</td> <td>N/A</td> </tr> <tr> <td>L02.91; Z98.0</td> <td>10030; 10080 - 10120; 11000 - 11047; 99601; 99602;</td> <td>11042 - 11044</td> </tr> <tr> <td>K92.2</td> <td>36430; 36440; ; 36450; 36455 with blood transfusion</td> <td>N/A</td> </tr> <tr> <td>K56.50, K56.51, K56.52, K56.600, K56.601, K56.609</td> <td>44180; 44602; 44604; 49320</td> <td>N/A</td> </tr> <tr> <td>K63.1</td> <td>44602; 44604; 49320</td> <td>N/A</td> </tr> <tr> <td>K43.0</td> <td>43281; 43282</td> <td>N/A</td> </tr> <tr> <td>I21.01-29; I22.1-9; I23.0-8; I25.2</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>I63.00 - I63.9</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>N17.8; N17.9; N19; N18.1 - N18.9</td> <td>90935; 90937; 90945; 90947</td> <td>N/A</td> </tr> <tr> <td>J96.0-J96.9</td> <td>31500; 94660-94662</td> <td>N/A</td> </tr> <tr> <td>R11.2</td> <td>96365 - 96371; 96373 - 96376; 96379</td> <td>N/A</td> </tr> <tr> <td>K91.30, K91.31, K91.32; K95.89</td> <td>43775; 43848</td> <td>N/A</td> </tr> <tr> <td>T81.4XXA; T81.4XXD; T81.4XXS; K95.01; K95.81</td> <td>10040-10180; 11000-11047</td> <td>N/A</td> </tr> </tbody> </table> |               |  | ICD-10 | CPT - Included | CPT Excluded | 182 code range series | 34001; 34051; 34101; 34111; 34151; 34201; 34203; 34401; 34421; 34451, 34471, 34490; 37619 | N/A | Z98.0;T82.533; T85.598; T85.638A | 44602; 44604; 49320 | N/A | L02.91; Z98.0 | 10030; 10080 - 10120; 11000 - 11047; 99601; 99602; | 11042 - 11044 | K92.2 | 36430; 36440; ; 36450; 36455 with blood transfusion | N/A | K56.50, K56.51, K56.52, K56.600, K56.601, K56.609 | 44180; 44602; 44604; 49320 | N/A | K63.1 | 44602; 44604; 49320 | N/A | K43.0 | 43281; 43282 | N/A | I21.01-29; I22.1-9; I23.0-8; I25.2 | N/A | N/A | I63.00 - I63.9 | N/A | N/A | N17.8; N17.9; N19; N18.1 - N18.9 | 90935; 90937; 90945; 90947 | N/A | J96.0-J96.9 | 31500; 94660-94662 | N/A | R11.2 | 96365 - 96371; 96373 - 96376; 96379 | N/A | K91.30, K91.31, K91.32; K95.89 | 43775; 43848 | N/A | T81.4XXA; T81.4XXD; T81.4XXS; K95.01; K95.81 | 10040-10180; 11000-11047 | N/A |
| ICD-10  | CPT - Included   | CPT Excluded  |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| 182 code range series                             | 34001; 34051; 34101; 34111; 34151; 34201; 34203; 34401; 34421; 34451, 34471, 34490; 37619  | N/A           |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| Z98.0;T82.533; T85.598; T85.638A                  | 44602; 44604; 49320  | N/A           |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| L02.91; Z98.0                                     | 10030; 10080 - 10120; 11000 - 11047; 99601; 99602;   | 11042 - 11044 |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| K92.2   | 36430; 36440; ; 36450; 36455 with blood transfusion  | N/A           |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| K56.50, K56.51, K56.52, K56.600, K56.601, K56.609 | 44180; 44602; 44604; 49320   | N/A           |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| K63.1   | 44602; 44604; 49320  | N/A           |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| K43.0   | 43281; 43282   | N/A           |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| I21.01-29; I22.1-9; I23.0-8; I25.2                | N/A  | N/A           |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| I63.00 - I63.9                                    | N/A  | N/A           |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| N17.8; N17.9; N19; N18.1 - N18.9                  | 90935; 90937; 90945; 90947   | N/A           |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| J96.0-J96.9                                       | 31500; 94660-94662   | N/A           |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| R11.2   | 96365 - 96371; 96373 - 96376; 96379  | N/A           |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| K91.30, K91.31, K91.32; K95.89                    | 43775; 43848   | N/A           |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| T81.4XXA; T81.4XXD; T81.4XXS; K95.01; K95.81      | 10040-10180; 11000-11047   | N/A           |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| <b>Inclusion</b>                                  | <ul style="list-style-type: none"> <li>Low-risk adult patients (18 years and above) with a primary principal bariatric surgery</li> </ul>  |               |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| <b>Exclusion</b>                                  | <ul style="list-style-type: none"> <li>Patients considered as high risk at the time of surgery as defined in <b>Appendix A</b>.</li> <li>Patients who have undergone revisional surgery.</li> <li>Patients who are discharged against medical advice</li> </ul>  |               |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| <b>Reporting Frequency:</b>                       | Quarterly  |               |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |
| <b>Unit of Measure:</b>                           | % complications  |               |  |        |                |              |                       |   |     |                                  |                     |     |               |  |               |       |   |     |   |                            |     |       |                     |     |       |              |     |                                    |     |     |                |     |     |                                  |                            |     |             |                    |     |       |                                     |     |                                |              |     |  |                          |     |



## JAWDA Quarterly Guidelines for Bariatric Surgery

---

|  |   |
|--|---|
| <b>International comparison if available</b> | Developed locally by modifying similar indicators used by MBSAQIP |
| <b>Desired direction:</b>                    | Lower is better   |
| <b>Notes for all providers</b>               |   |
| <b>Data sources and guidance:</b>            | Hospital patient data source, bariatric registry                  |

## JAWDA Quarterly Guidelines for Bariatric Surgery

Type: BS Quality Indicator

Indicator Number: BS04

|  |  |   |                     |
|--|--|---|---------------------|
| <b>KPI Description (title):</b>              | <b>Rate of Major Complications among High-Risk Patients within 30 days from Principal Bariatric Surgery</b>  |   |                     |
| <b>Domain</b>                                | Patient Safety   |   |                     |
| <b>Sub-Domain</b>                            | Complication/Outcome   |   |                     |
| <b>Definition:</b>                           | Rate of <b>major</b> medical/surgical complications within 30 days of the surgery date among <b>high-risk</b> bariatric surgery patients (18 years or older).  |   |                     |
| <b>Calculation:</b>                          | <p><b>Numerator:</b> Total number of <b>high-risk</b> patients (18 years or older) who have undergone a principal bariatric surgery and had a <b>major</b> complication(s) within 30 days of the principal bariatric surgery.</p> <p><b>Denominator:</b> Total number of <b>high-risk</b> patients (18 years or older) who have undergone a principal bariatric surgery during the reporting period.</p> <p><b>Bariatric Surgery CPT Codes:</b> 43644-43645, 43659, 43775, 43846-43847, 43848, 43999</p> <p><b>Major Complication Codes:</b></p> |   |                     |
|  | <b>ICD-10</b>  | <b>CPT - Included</b>   | <b>CPT Excluded</b> |
|  | 182 code range series  | 34001; 34051; 34101; 34111; 34151; 34201; 34203; 34401; 34421; 34451, 34471, 34490; 37619 | N/A                 |
|  | Z98.0; T82.533; T85.598; T85.638A  | 44602; 44604; 49320   | N/A                 |
|  | L02.91; Z98.0  | 10030; 10080 - 10120; 11000 - 11047; 99601; 99602;  | 11042 - 11044       |
|  | K92.2  | 36430; 36440; ; 36450; 36455; Blood transfusion   | N/A                 |
|  | K56.50, K56.51, K56.52, K56.600, K56.601, K56.609  | 44180; 44602; 44604; 49320  | N/A                 |
|  | K63.1  | 44602; 44604; 49320   | N/A                 |
|  | K43.0  | 43281; 43282  | N/A                 |
|  | I21.01-29; I22.1-9; I23.0-8; I25.2   | N/A   | N/A                 |
|  | I63.00 - I63.9   | N/A   | N/A                 |
|  | N17.8; N17.9; N19; N18.1 - N18.9   | 90935; 90937; 90945; 90947  | N/A                 |
|  | J96.0-J96.9  | 31500; 94660-94662  | N/A                 |
|  | R11.2  | 96365 - 96371; 96373 - 96376; 96379   | N/A                 |
|  | K91.30; K91.31; K91.32; K95.89   | 43775; 43848  | N/A                 |
| T81.4XXA; T81.4XXD; T81.4XXS; K95.01; K95.81 | 10040-10180; 11000-11047   | N/A   |                     |
| <b>Inclusion</b>                             | <ul style="list-style-type: none"> <li>Patients who are considered as high risk at the time of the principle bariatric surgery as defined in Appendix A.</li> <li>Patients who have undergone a revisional surgery.</li> </ul>   |   |                     |
| <b>Exclusion</b>                             | <ul style="list-style-type: none"> <li>Patients who are discharged against medical advice</li> <li>Low-risk cases</li> </ul>   |   |                     |
| <b>Reporting Frequency:</b>                  | Quarterly  |   |                     |
| <b>Unit of Measure:</b>                      | % complications  |   |                     |
| <b>International comparison if available</b> | Developed locally by modifying similar indicators used by MBSAQIP  |   |                     |

## JAWDA Quarterly Guidelines for Bariatric Surgery

---

|                                   |  |
|-----------------------------------|--|
| <b>Desired direction:</b>         | Lower is better                                  |
| <b>Notes for all providers</b>    |  |
| <b>Data sources and guidance:</b> | Hospital patient data source, bariatric registry |

## JAWDA Quarterly Guidelines for Bariatric Surgery

Type: BS Quality Indicator

Indicator Number: BS05

| <b>KPI Description (title):</b>                           | <b>Re-operation Rate among Low-Risk Patients within 30 days from Primary Principal Bariatric Surgery</b>  |                                 |  |                 |        |     |      |                                      |                     |                               |  |                              |       |                        |                                  |       |   |  |                                 |
|---|---|---------------------------------|--|-----------------|--------|-----|------|--------------------------------------|---------------------|-------------------------------|--|------------------------------|-------|------------------------|----------------------------------|-------|---|--|---------------------------------|
| <b>Domain</b>   | Patient Safety  |                                 |  |                 |        |     |      |                                      |                     |                               |  |                              |       |                        |                                  |       |   |  |                                 |
| <b>Sub-Domain</b>   | Complications   |                                 |  |                 |        |     |      |                                      |                     |                               |  |                              |       |                        |                                  |       |   |  |                                 |
| <b>Definition:</b>  | Re-operation rate among <b>low-risk</b> patients 18 years old or older within 30 days from primary principal bariatric procedure surgery. <b>Primary Principal Procedure:</b> The most complex bariatric operative procedure performed during this OR encounter <b>AND</b> the first metabolic or bariatric procedure for the patient to ever undergo.  |                                 |  |                 |        |     |      |                                      |                     |                               |  |                              |       |                        |                                  |       |   |  |                                 |
| <b>Calculation:</b>                                       | <p><b>Numerator:</b> Total number of <b>low-risk</b> patients (18 years or older) who had a re-operation within 30 days of the primary principal bariatric surgery.<br/> <b>Denominator:</b> Total number of <b>low-risk</b> patients (18 years or older) who have undergone a primary principal bariatric surgery during the reporting period.<br/> <b>Bariatric Surgery CPT Codes:</b> 43644,43645, 43659, 43775, 43846,43847, 43999</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Reason for RTOR</th> <th style="width: 30%;">ICD-10</th> <th style="width: 30%;">CPT</th> </tr> </thead> <tbody> <tr> <td>Leak</td> <td>Z98.0; T82.533;<br/>T85.598; T85.638A</td> <td rowspan="3">44602; 44604; 49320</td> </tr> <tr> <td>Stricture / Bowel Obstruction</td> <td>K56.49; K56.50; K56.51;<br/>K56.52; K56.600,<br/>K56.601, K56.609;</td> </tr> <tr> <td>Perforations (non-traumatic)</td> <td>K63.1</td> </tr> <tr> <td>Severe Wound Infection</td> <td>T81.32XA, T81.32XD,<br/>T81.32XS;</td> <td>10030</td> </tr> <tr> <td>Incision &amp; Drainage, Skin, Sub-Q and Accessory Structures</td> <td></td> <td>10040 - 10180;<br/>11000 - 11047</td> </tr> </tbody> </table> |                                 |  | Reason for RTOR | ICD-10 | CPT | Leak | Z98.0; T82.533;<br>T85.598; T85.638A | 44602; 44604; 49320 | Stricture / Bowel Obstruction | K56.49; K56.50; K56.51;<br>K56.52; K56.600,<br>K56.601, K56.609; | Perforations (non-traumatic) | K63.1 | Severe Wound Infection | T81.32XA, T81.32XD,<br>T81.32XS; | 10030 | Incision & Drainage, Skin, Sub-Q and Accessory Structures |  | 10040 - 10180;<br>11000 - 11047 |
| Reason for RTOR   | ICD-10  | CPT                             |  |                 |        |     |      |                                      |                     |                               |  |                              |       |                        |                                  |       |   |  |                                 |
| Leak  | Z98.0; T82.533;<br>T85.598; T85.638A  | 44602; 44604; 49320             |  |                 |        |     |      |                                      |                     |                               |  |                              |       |                        |                                  |       |   |  |                                 |
| Stricture / Bowel Obstruction                             | K56.49; K56.50; K56.51;<br>K56.52; K56.600,<br>K56.601, K56.609;  |                                 |  |                 |        |     |      |                                      |                     |                               |  |                              |       |                        |                                  |       |   |  |                                 |
| Perforations (non-traumatic)                              | K63.1   |                                 |  |                 |        |     |      |                                      |                     |                               |  |                              |       |                        |                                  |       |   |  |                                 |
| Severe Wound Infection                                    | T81.32XA, T81.32XD,<br>T81.32XS;  | 10030                           |  |                 |        |     |      |                                      |                     |                               |  |                              |       |                        |                                  |       |   |  |                                 |
| Incision & Drainage, Skin, Sub-Q and Accessory Structures |   | 10040 - 10180;<br>11000 - 11047 |  |                 |        |     |      |                                      |                     |                               |  |                              |       |                        |                                  |       |   |  |                                 |
| <b>Inclusion</b>  | <ul style="list-style-type: none"> <li>Low-risk adult patients (18 years and above) with a primary principal bariatric surgery</li> </ul>   |                                 |  |                 |        |     |      |                                      |                     |                               |  |                              |       |                        |                                  |       |   |  |                                 |
| <b>Exclusion</b>  | <ul style="list-style-type: none"> <li>Patient who are considered as high risk at the time of surgery as defined in Appendix A.</li> <li>Patients who have undergone revisional surgery.</li> <li>Patients who are discharged against medical advice</li> </ul>   |                                 |  |                 |        |     |      |                                      |                     |                               |  |                              |       |                        |                                  |       |   |  |                                 |
| <b>Reporting Frequency:</b>                               | Quarterly   |                                 |  |                 |        |     |      |                                      |                     |                               |  |                              |       |                        |                                  |       |   |  |                                 |
| <b>Unit of Measure:</b>                                   | % Complication rate   |                                 |  |                 |        |     |      |                                      |                     |                               |  |                              |       |                        |                                  |       |   |  |                                 |
| <b>International comparison if available</b>              | Developed locally by modifying similar indicators used by MBSAQIP   |                                 |  |                 |        |     |      |                                      |                     |                               |  |                              |       |                        |                                  |       |   |  |                                 |
| <b>Desired direction:</b>                                 | Lower is better   |                                 |  |                 |        |     |      |                                      |                     |                               |  |                              |       |                        |                                  |       |   |  |                                 |
| <b>Notes for all providers</b>                            |   |                                 |  |                 |        |     |      |                                      |                     |                               |  |                              |       |                        |                                  |       |   |  |                                 |
| <b>Data sources and guidance:</b>                         | Hospital patient data source, bariatric registry  |                                 |  |                 |        |     |      |                                      |                     |                               |  |                              |       |                        |                                  |       |   |  |                                 |

## JAWDA Quarterly Guidelines for Bariatric Surgery

Type: BS Quality Indicator

Indicator Number: BS06

|  |   |  |                                 |
|--|---|--|---------------------------------|
| <b>KPI Description (title):</b>              | <b>Re-operation Rate among High-Risk Patients within 30 days from Principal Bariatric Surgery</b>   |  |                                 |
| <b>Domain</b>                                | Patient Safety  |  |                                 |
| <b>Sub-Domain</b>                            | Complications   |  |                                 |
| <b>Definition:</b>                           | Re-operation rate among <b>high-risk</b> patients (18 years old or older) within 30 days from principal bariatric procedure surgery   |  |                                 |
| <b>Calculation:</b>                          | <p><b>Numerator:</b> Total number of <b>high-risk</b> patients (18 years or older) who had a re-operation within 30 days of the principal bariatric surgery.</p> <p><b>Denominator:</b> Total number of <b>high-risk</b> patients (18 years or older) who have undergone a principal bariatric surgery during the reporting period.</p> <p><b>Bariatric Surgery CPT Codes: 43644, 43645, 43659, 43775, 43846, 43847, 43848, 43999</b></p> |  |                                 |
|  | <b>Reason for RTOR</b>  | <b>ICD-10</b>  | <b>CPT</b>                      |
|  | Leak  | Z98.0; T82.533; T85.598; T85.638A                          | 44602; 44604; 49320             |
|  | Stricture / Bowel Obstruction   | K56.49; K56.50; K56.51; K56.52; K56.600, K56.601, K56.609; |                                 |
|  | Perforations (non-traumatic)  | K63.1  |                                 |
|  | Severe Wound Infection  | T81.32XA, T81.32XD, T81.32XS;                              | 10030                           |
|  | Incision & Drainage, Skin, Sub-Q and Accessory Structures   |  | 10040 - 10180;<br>11000 - 11047 |
| <b>Inclusion</b>                             | <ul style="list-style-type: none"> <li>• Patients who are considered as high risk at the time of the principle bariatric surgery as defined in Appendix A.</li> <li>• Patients who have undergone a revisional surgery.</li> </ul>  |  |                                 |
| <b>Exclusion</b>                             | <ul style="list-style-type: none"> <li>• Patients who are discharged against medical advice</li> <li>• Low-risk cases</li> </ul>  |  |                                 |
| <b>Reporting Frequency:</b>                  | Quarterly   |  |                                 |
| <b>Unit of Measure:</b>                      | % Complication rate   |  |                                 |
| <b>International comparison if available</b> | Developed locally by modifying similar indicators used by MBSAQIP   |  |                                 |
| <b>Desired direction:</b>                    | Lower is better   |  |                                 |
| <b>Notes for all providers</b>               |   |  |                                 |
| <b>Data sources and guidance:</b>            | Hospital patient data source, bariatric registry  |  |                                 |

## JAWDA Quarterly Guidelines for Bariatric Surgery

Type: BS Quality Indicator

Indicator Number: BS07

|  |   |
|--|---|
| <b>KPI Description (title):</b>              | <b>Unplanned Hospital Readmission among Low-Risk Patients within 30 days of the Primary Principal Bariatric Surgery</b>   |
| <b>Domain</b>                                | Patient Safety  |
| <b>Sub-Domain</b>                            | Complications   |
| <b>Definition:</b>                           | Percentage of <b>low-risk</b> bariatric patients (18 years or older) who had an unplanned hospital readmission within 30 days of the primary principal bariatric surgery encounter discharge date.<br><br><i><b>Primary Principal Procedure:</b></i> The most complex bariatric operative procedure performed during this OR encounter <b>AND</b> the first metabolic or bariatric procedure for the patient to ever undergo.   |
| <b>Calculation:</b>                          | <b>Numerator:</b> Total number of <b>low risk</b> patients (18 years or older) who had an unplanned hospital readmission within 30 days of the primary principal bariatric surgery encounter discharge date.<br><br><b>Denominator:</b> Total number of discharged <b>low-risk</b> patients (18 years or older) who have undergone a primary principal bariatric surgery.<br><br><i><b>Bariatric Surgery CPT Codes: 43644,43645, 43659, 43775, 43846,43847, 43999</b></i> |
| <b>Inclusion</b>                             | <ul style="list-style-type: none"> <li>• Low-risk adult patients (18 years and above) with a primary principal bariatric surgery</li> </ul>   |
| <b>Exclusion</b>                             | <ul style="list-style-type: none"> <li>• Patient who are considered as high risk at the time of surgery as defined in Appendix A</li> <li>• Patients who undergoing revisional surgery.</li> <li>• Patients who are discharged against medical advice</li> </ul>  |
| <b>Reporting Frequency:</b>                  | Quarterly   |
| <b>Unit of Measure:</b>                      | % complication rate   |
| <b>International comparison if available</b> | Developed locally by modifying similar indicators used by MBSAQIP   |
| <b>Desired direction:</b>                    | Lower is better   |
| <b>Notes for all providers</b>               |   |
| <b>Data sources and guidance:</b>            | Hospital patient data source, bariatric registry  |

## JAWDA Quarterly Guidelines for Bariatric Surgery

---

Type: BS Quality Indicator

Indicator Number: BS08

|  |   |
|--|---|
| <b>KPI Description (title):</b>              | <b>Unplanned Hospital Readmission among High-Risk Patients within 30 days of the Principal Bariatric Surgery</b>  |
| <b>Domain</b>                                | Patient Safety  |
| <b>Sub-Domain</b>                            | Complications   |
| <b>Definition:</b>                           | Percentage of <b>high-risk</b> bariatric patients (18 years or older) who had an unplanned hospital readmission within 30 days of the principal bariatric surgery encounter discharge date.   |
| <b>Calculation:</b>                          | <p><b>Numerator:</b> Total number of <b>high-risk</b> patients (18 years or older) who had an unplanned hospital readmission within 30 days of the principal bariatric surgery encounter discharge date.</p> <p><b>Denominator:</b> Total number of discharged <b>high-risk</b> patients (18 years or older) who have undergone a principal bariatric surgery</p> <p><b>Bariatric Surgery CPT Codes: 43644, 43645, 43659, 43775, 43846, 43847, 43848, 43999</b></p> |
| <b>Inclusion</b>                             | <ul style="list-style-type: none"> <li>• Patients who are considered as high risk at the time of the principle bariatric surgery as defined in Appendix A.</li> <li>• Patients who have undergone a revisional surgery.</li> </ul>  |
| <b>Exclusion</b>                             | <ul style="list-style-type: none"> <li>• Patients who are discharged against medical advice</li> <li>• Low risk cases</li> </ul>  |
| <b>Reporting Frequency:</b>                  | Quarterly   |
| <b>Unit of Measure:</b>                      | % complication rate   |
| <b>International comparison if available</b> | Developed locally by modifying similar indicators used by MBSAQIP   |
| <b>Desired direction:</b>                    | Lower is better   |
| <b>Notes for all providers</b>               |   |
| <b>Data sources and guidance:</b>            | Hospital patient data source, bariatric registry  |

## JAWDA Quarterly Guidelines for Bariatric Surgery

Type: BS Quality Indicator

Indicator Number: BS09

|  |   |
|--|---|
| <b>KPI Description (title):</b>              | <b>Death Rate among Low-Risk Patients within 30 days from Primary Principal Bariatric Surgery</b>   |
| <b>Domain</b>                                | Patient Safety  |
| <b>Sub-Domain</b>                            | Complications   |
| <b>Definition:</b>                           | Rate of death within 30 days following the primary principal bariatric surgery among <b>low-risk</b> patients 18 years or older.<br><br><i><b>Primary Principal Procedure:</b></i> The most complex bariatric operative procedure performed during this OR encounter <b>AND</b> the first metabolic or bariatric procedure for the patient to ever undergo.   |
| <b>Calculation:</b>                          | <b>Numerator:</b> Total number of <b>low-risk</b> patients (18 years or older) who died within 30 days of the primary principal bariatric surgery.<br><b>Denominator:</b> Total number of <b>low-risk</b> patients (18 years or older) who have undergone a primary principal bariatric surgery during the reporting period<br><i><b>Bariatric Surgery CPT Codes: 43644,43645, 43659, 43775, 43846,43847, 43999</b></i> |
| <b>Inclusion</b>                             | <ul style="list-style-type: none"> <li>Low-risk adult patients (18 years and above) with a primary principal bariatric surgery.</li> </ul>  |
| <b>Exclusion</b>                             | <ul style="list-style-type: none"> <li>Patients who are considered as high risk at time of surgery as defined in Appendix A.</li> <li>Patients who have undergone revisional surgery.</li> <li>Patients who are discharged against medical advice</li> </ul>  |
| <b>Reporting Frequency:</b>                  | Quarterly   |
| <b>Unit of Measure:</b>                      | % Performance   |
| <b>International comparison if available</b> | Developed locally by modifying similar indicators used by MBSAQIP   |
| <b>Desired direction:</b>                    | Lower is better   |
| <b>Notes for all providers</b>               |   |
| <b>Data sources and guidance:</b>            | Hospital patient data source, bariatric registry  |



## JAWDA Quarterly Guidelines for Bariatric Surgery

Type: BS Quality Indicator

Indicator Number: BS10

|  |   |
|--|---|
| <b>KPI Description (title):</b>              | <b>Death Rate among High-Risk Patients within 30 days from Principal Bariatric Surgery</b>  |
| <b>Domain</b>                                | Patient Safety  |
| <b>Sub-Domain</b>                            | Complications   |
| <b>Definition:</b>                           | Rate of death within 30 days following the principal bariatric surgery among <b>high-risk</b> patients (18 years or older).   |
| <b>Calculation:</b>                          | <p><b>Numerator:</b> Total number of <b>high-risk</b> patients (18 years or older) who died within 30 days of the principal bariatric surgery.</p> <p><b>Denominator:</b> Total number of <b>high-risk</b> patients (18 years or older) who have undergone a principal bariatric surgery during the reporting period.</p> <p><b>Bariatric Surgery CPT Codes: 43644, 43645, 43659, 43775, 43846, 43847, 43848, 43999</b></p> |
| <b>Inclusion</b>                             | <ul style="list-style-type: none"> <li>• Patients who are considered as high risk at the time of the principle bariatric surgery as defined in Appendix A.</li> <li>• Patients who have undergone a revisional surgery.</li> </ul>  |
| <b>Exclusion</b>                             | <ul style="list-style-type: none"> <li>• Patients who are discharged against medical advice</li> <li>• Low-risk cases</li> </ul>  |
| <b>Reporting Frequency:</b>                  | Quarterly   |
| <b>Unit of Measure:</b>                      | % Performance   |
| <b>International comparison if available</b> | Developed locally by modifying similar indicators used by AHRQ, OECD, CQC, and MBSAQIP  |
| <b>Desired direction:</b>                    | Lower is better   |
| <b>Notes for all providers</b>               |   |
| <b>Data sources and guidance:</b>            | Hospital patient data source, bariatric registry  |

## JAWDA Quarterly Guidelines for Bariatric Surgery

Type: BS Quality Indicator

Indicator Number: BS011

|  |   |
|--|---|
| <b>KPI Description (title):</b>              | <b>Extended Length of Stay (LOS) &gt; 7 days among Low-Risk Primary Principal Bariatric Surgery Patients</b>  |
| <b>Domain</b>                                | Patient Safety  |
| <b>Sub-Domain</b>                            | Effectiveness/Process   |
| <b>Definition:</b>                           | The percentage of <b>low-risk</b> patients (18 years or older) undergoing primary principal bariatric surgery who had an extended postoperative LOS (>7 days).<br><br><b>Primary Principal Procedure:</b> The most complex bariatric operative procedure performed during this OR encounter <b>AND</b> the first metabolic or bariatric procedure for the patient to ever undergo.  |
| <b>Calculation:</b>                          | <b>Numerator:</b> Total number of <b>low-risk</b> patients who experienced extended length of stay (> 7 days) following the primary principal bariatric procedure.<br><br><b>Denominator:</b> Total number of <b>low-risk</b> patients (18 years or older) who have undergone a primary principal bariatric surgery. during the reporting period<br><br><b>Bariatric Surgery CPT Codes: 43644,43645, 43659, 43775, 43846,43847, 43999</b> |
| <b>Inclusion</b>                             | <ul style="list-style-type: none"> <li>Low-risk adult patients (18 years and above) with a primary principal bariatric surgery</li> </ul>   |
| <b>Exclusion</b>                             | <ul style="list-style-type: none"> <li>Patient who are considered as high risk at the time of surgery as defined in Appendix A.</li> <li>Patients who have undergone revisional surgery.</li> </ul>   |
| <b>Reporting Frequency:</b>                  | Quarterly   |
| <b>Unit of Measure:</b>                      | % performance   |
| <b>International comparison if available</b> | Developed locally by modifying similar indicators used by MBSAQIP   |
| <b>Desired direction:</b>                    | Lower is better   |
| <b>Notes for all providers</b>               |   |
| <b>Data sources and guidance:</b>            | Hospital patient data source, bariatric registry  |

## JAWDA Quarterly Guidelines for Bariatric Surgery

Type: BS Quality Indicator

Indicator Number: BS012

|  |   |
|--|---|
| <b>KPI Description (title):</b>              | <b>Extended Length of Stay (LOS) &gt; 7 days among High-Risk Bariatric Surgery Patients</b>   |
| <b>Domain</b>                                | Patient Safety  |
| <b>Sub-Domain</b>                            | Effectiveness/Process   |
| <b>Definition:</b>                           | The percentage of <b>high-risk</b> patients (18 years or older) who have undergone a principal bariatric surgery and had an extended postoperative LOS (>7 days).   |
| <b>Calculation:</b>                          | <p><b>Numerator:</b> Total number of <b>high-risk</b> patients (18 years or older) who experienced an extended length of stay (&gt; 7 days) following the principal bariatric procedure.</p> <p><b>Denominator:</b> Total number of <b>high-risk</b> patients (18 years or older) who have undergone a principal bariatric surgery during the reporting period.</p> <p><b>Bariatric Surgery CPT Codes: 43644, 43645, 43659, 43775, 43846, 43847, 43848, 43999</b></p> |
| <b>Inclusion</b>                             | <ul style="list-style-type: none"> <li>Patients who are considered as high risk at the time of the principle bariatric surgery as defined in Appendix A.</li> <li>Patients who have undergone a revisional surgery.</li> </ul>  |
| <b>Exclusion</b>                             | <ul style="list-style-type: none"> <li>Low-risk cases</li> </ul>  |
| <b>Reporting Frequency:</b>                  | Quarterly   |
| <b>Unit of Measure:</b>                      | % performance   |
| <b>International comparison if available</b> | Developed locally by modifying similar indicators used by MBSAQIP   |
| <b>Desired direction:</b>                    | Lower is better   |
| <b>Notes for all providers</b>               |   |
| <b>Data sources and guidance:</b>            | Hospital patient data source, bariatric registry  |

**Appendix A: Glossary**

| <b>Term</b>               | <b>Definition</b>  |
|---------------------------|--|
| <b>Low Risk</b>           | <ul style="list-style-type: none"> <li>• No previous metabolic or bariatric surgical procedures (regardless of approach).</li> <li>• Does not meet any of the “high risk” criteria below.</li> </ul>   |
| <b>High Risk</b>          | <p>To be considered high-risk, the patient must meet any one or more of the following criteria:</p> <ul style="list-style-type: none"> <li>• Revisional surgery</li> <li>• BMI &gt;50 (<b>Z68.43, Z68.44, Z68.45</b>)</li> <li>• H/O Venous Thromboembolism (VTE) (<b>Z86.718</b>)</li> <li>• Severe Obstructive Sleep Apnea (OSA) (<b>G47.33</b>)</li> <li>• Poor Functional Status (<b>Z74.09</b>)</li> <li>• H/O Acute Myocardial Infarction (AMI) (<b>AMI - I21, I22 and I23 range and I25.2</b>)</li> <li>• H/O Percutaneous Coronary Intervention (PCI) (<b>PCI - Z98.61</b>)</li> <li>• H/O End Organ Damage (<b>N18.1 - N18.9</b>)</li> <li>• Transplant (<b>Z94.0 - Z94.7 and Z94.81 - Z94.89</b>)</li> <li>• Age &gt;55 yrs</li> </ul> |
| <b>Primary Surgery</b>    | The first metabolic or bariatric procedure ever performed on the patient.  |
| <b>Principal Surgery</b>  | The most complex bariatric operative procedure performed during this OR encounter.   |
| <b>Revisional Surgery</b> | A revision is a procedure in which the patient has a history of having any bariatric procedure at any time in the past and the current procedure modifies all or part of the previous bariatric procedure.   |

**Appendix B: Approved procedure CPT codes:**

| CPT   | Description  |
|-------|--|
| 43644 | Laparoscopy, surgical, gastric restrictive procedure; with gastric bypass and Roux-en-Y gastroenterostomy (roux limb 150 cm or less)   |
| 43645 | Laparoscopy, surgical, gastric restrictive procedure; with gastric bypass and small intestine reconstruction to limit absorption   |
| 43659 | Unlisted laparoscopy procedure, stomach  |
| 43770 | Laparoscopy, surgical, gastric restrictive procedure; placement of adjustable gastric restrictive device (eg. Gastric band and subcutaneous port components)   |
| 43771 | Laparoscopy, surgical, gastric restrictive procedure; revision of adjustable gastric restrictive device component only   |
| 43775 | Laparoscopy, surgical, gastric restrictive procedure; longitudinal gastrectomy (ie. Sleeve gastrectomy)  |
| 43842 | Gastric restrictive procedure, without gastric bypass, for morbid obesity; vertical-banded gastroplasty  |
| 43843 | Gastric restrictive procedure, without gastric bypass, for morbid obesity; other than vertical-banded gastroplasty   |
| 43845 | Gastric restrictive procedure with partial gastrectomy, pylorus-preserving duodenoileostomy and ileoileostomy (50 to 100 cm common channel) to limit absorption (biliopancreatic diversion with duodenal switch) |
| 43846 | Gastric restrictive procedure, with gastric bypass for morbid obesity; with short limb (150 cm or less) Roux-en-Y gastroenterostomy  |
| 43847 | Gastric restrictive procedure, with gastric bypass for morbid obesity; with small intestine reconstruction to limit absorption   |
| 43848 | Revision, open, of gastric restrictive procedure for morbid obesity, other than adjustable gastric restrictive device (separate procedure)   |
| 43999 | Unlisted procedure, stomach  |

**Appendix C: Minor Complications ICD-10 and CPT Codes:**

| Minor Complication  | ICD-10  | CPT - Included                 | CPT - Excluded                |
|---|---|--------------------------------|-------------------------------|
| Marginal Ulcer diagnosed with endoscopy                                 | K28 - K28.9; K56.7;                               | 43235 - 43236;<br>43239; 43259 | N/A                           |
| Anastomotic Stricture Requiring Endoscopic dilatation                   | K91.89  | 43245                          | N/A                           |
| Nausea / Vomiting   | R11.2   | 96360; 96361                   | N/A                           |
| Urinary Tract Infection (UTI)   | N39.0   |                                | N/A                           |
| Dehydration   | E86.0   | 96360; 96361                   | N/A                           |
| Acute Renal Failure managed w/ IV fluids - no hemodialysis              | N17.8; N17.9                                      | 96360; 96361                   | 90935; 90937;<br>90945; 90947 |
| Unspecified Kidney Failure  | N19   | 90935                          | N/A                           |
| Kidney stone  | N20.0   |                                | N/A                           |
| Incisional Hernia   | K43.2   | N/A                            | N/A                           |
| Trocar surgical site infection managed with drainage & local wound care | T81.4XXA;<br>T81.4XXD;T81.4XXS;<br>K95.01; K95.81 |                                | N/A                           |

**Appendix D: Major Complications ICD-10 Codes**

| Complication  | ICD-10                               | CPT - Included   | CPT - Excluded   |
|---|--------------------------------------|--|------------------|
| Venous Thrombembolism (VTE) requiring administration of anticoagulant or intervention, such as embolectomy or inferior vena cava (IVC) filter | I82 code range series                | 34001; 34051;<br>34101; 34111;<br>34151; 34201;<br>34203; 34401;<br>34421; 34451,<br>34471, 34490;<br>37619; | N/A              |
| Anastomotic Leak requiring reoperation  | Z98.0; T82.533;<br>T85.598; T85.638A | 44602; 44604;<br>49320   | N/A              |
| Percutaneous drainage of abscess, stent placement, or conservative management with parenteral nutrition or NPO                                | L02.91; Z98.0                        | 10030; 10080 -<br>10120; 11000 -<br>11047; 99601;<br>99602;  | 11042 -<br>11044 |
| Gastrointestinal hemorrhage requiring transfusion or intervention   | K92.2                                | 36430; 36440;<br>36455; 36450;<br>with<br>blood transfusion  | N/A              |

## JAWDA Quarterly Guidelines for Bariatric Surgery

---

|   |   |  |     |
|---|---|--|-----|
| Small bowel obstruction with reoperation  | K56.49 - K56.50,<br>K56.51, K56.52;<br>K56.600, K56.601;<br>K56.609 | 44180; 44602;<br>44604; 49320          | N/A |
| Bowel perforation with reoperation  | K63.1   | 44602; 44604;<br>49320                 | N/A |
| Trocar site hernia requiring reoperation  | K43.0   | 43281; 43282                           | N/A |
| Myocardial infarction (AMI)   | I21.01-29; I22.1-9;<br>I23.0-.8; I25.2                              | N/A                                    | N/A |
| Cerebrovascular accident (CVA)  | I63.00 - I63.9  | N/A                                    | N/A |
| Renal Failure requiring dialysis  | N17.8; N17.9;<br>N19; N18.1 - N18.9                                 | 90935; 90937;<br>90945; 90947          | N/A |
| Respiratory failure requiring intubation  | J96.0-J96.9   | 31500; 94660-<br>94662                 | N/A |
| Chronic nausea and vomiting not responsive to conservative management and requiring total parenteral nutrition (TPN)                                | R11.2   | 96365 - 96371; 96373<br>- 96376; 96379 | N/A |
| Gastric sleeve stenosis/obstruction requiring revision to gastric bypass  | K91.30, K91.31,<br>K91.32; K95.89                                   | 43775; 43848                           | N/A |
| Surgical site infection (SSI - superficial, deep or organ space) requiring debridement, washout in the operating room, or percutaneous intervention | T81.4XXA;<br>T81.4XXD;<br>T81.4XXS; K95.01;<br>K95.81               | 10040-10180;<br>11000-11047            | N/A |

**Summary of Code Changes – Updated to 2018 ICD-10 CM & CPT  
(Quarter 3 2021)**

| Indicators  | 2015 ICD                     | 2018 ICD   |
|---|------------------------------|--|
| <b>BS05 &amp; BS06</b>  | K56.60; K56.5, K63.1, T81.32 | K56.600, K56.601, K56.609, K63.1, T81.32XA, T81.32XD, T81.32XS |
| <b>Appendix C: Minor Complications ICD-10 and CPT Codes:</b>  |                              |  |
| Trocar surgical site infection managed with drainage & local wound care   | T81.4xxx;                    | T81.4XXA; T81.4XXD; T81.4XXS;                                  |
| <b>Appendix D: Major Complications ICD-10 Codes</b>   |                              |  |
| Small bowel obstruction with reoperation  | K56.60; K56.5                | K56.50, K56.51, K56.52, K56.600, K56.601, K56.609              |
| Gastric sleeve stenosis/obstruction requiring revision to gastric bypass  | K91.3;                       | K91.30, K91.31, K91.32,  |
| Surgical site infection (SSI – superficial, deep or organ space) requiring debridement, washout in the operating room, or percutaneous intervention | T81.4xxx;                    | T81.4XXA; T81.4XXD; T81.4XXS;                                  |
| <b>Appendix D: Major Complications CPT Codes</b>  |                              |  |
|   | 2011 CPT                     | 2018 CPT   |
| administration of anticoagulant or intervention, such as embolectomy or inferior vena cava (IVC) filter   | 37620                        | 37619  |
| Gastrointestinal haemorrhage requiring transfusion or intervention  | 36444 (Typo Error)           | 36455 (correct CPT)  |
| Trocar site hernia requiring reoperation  | 35902;                       |  |