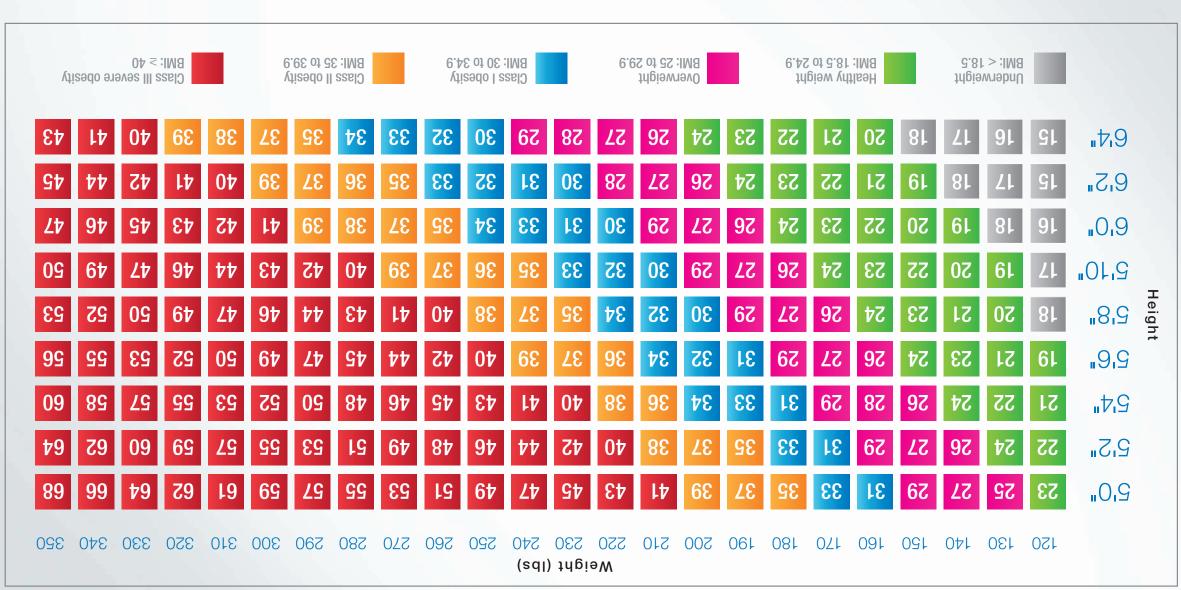


Bariatric and Metabolic Surgery Choosing the right procedure for you







http://asmbs.org/calculate-your-bmi/ Chart based on information from the American Society for Metabolic and Bariatric Surgery.

What Is Your BMI?

What Is Your BMI?



Chart based on information from the American Society for Metabolic and Bariatric Surgery. http://asmbs.org/calculate-your-bmi/



How bariatric and metabolic surgery can

following changes: Bariatric and metabolic surgery help you to make the

Decrease food intake

- Lose excess weight
- Take control of your overall health

Many obesity-related health conditions may be improved

or resolved, including:

Obstructive sleep apnea

Osteoarthritis of weight-bearing joints

Dyslipidemia (lipid metabolism abnormalities)

- High blood pressure/heart disease

- Type 2 diabetes

Stress urinary incontinence

Infertility/menstrual dysfunction

Gastroesophageal reflux/heartburn

There are multiple types of bariatric surgery:

see the Risks of Abdominal Surgery tab.

- For an explanation of the risks of bariatric surgery,
 - Economic opportunities¹
 - Social opportunities

Gastric banding

• Gastric bypass

Sleeve gastrectomy

- Physical functioning and appearance

Patients have experienced improvements in many areas of their lives:

Benefits of Surgery

Overall quality of life for bariatric surgery patients improves greatly.

Type 2 diabetes: A disorder of glucose and insulin metabolism.

improve your life

Benefits of Bariatric and Metabolic Surgery

Benefits of Bariatric and Metabolic Surgery

How bariatric and metabolic surgery can improve your life

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- Take control of your overall health

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- High blood pressure/heart disease
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- Dyslipidemia (lipid metabolism abnormalities)

Overall quality of life for bariatric surgery patients improves greatly.

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- Physical functioning and appearance
- Social opportunities
- Economic opportunities¹

For an explanation of the risks of bariatric surgery, see the Risks of Abdominal Surgery tab.

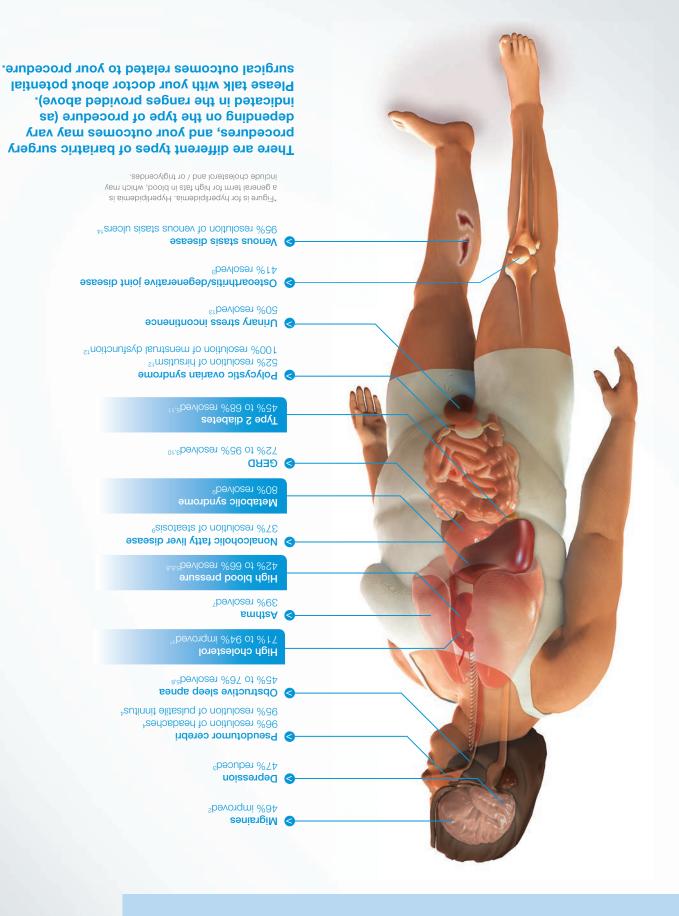
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- Gastric bypass
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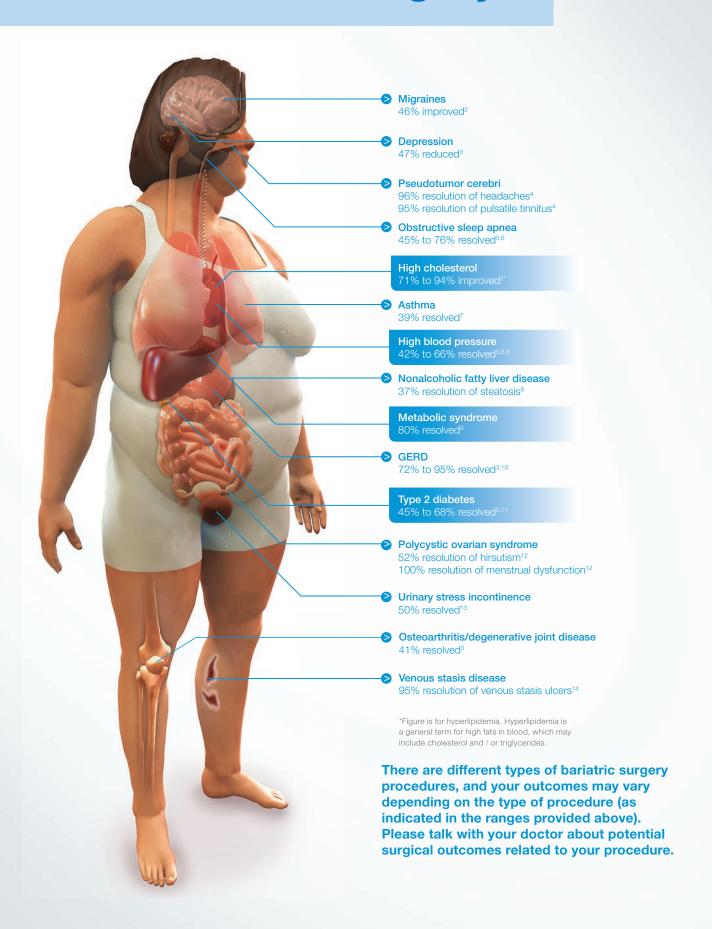
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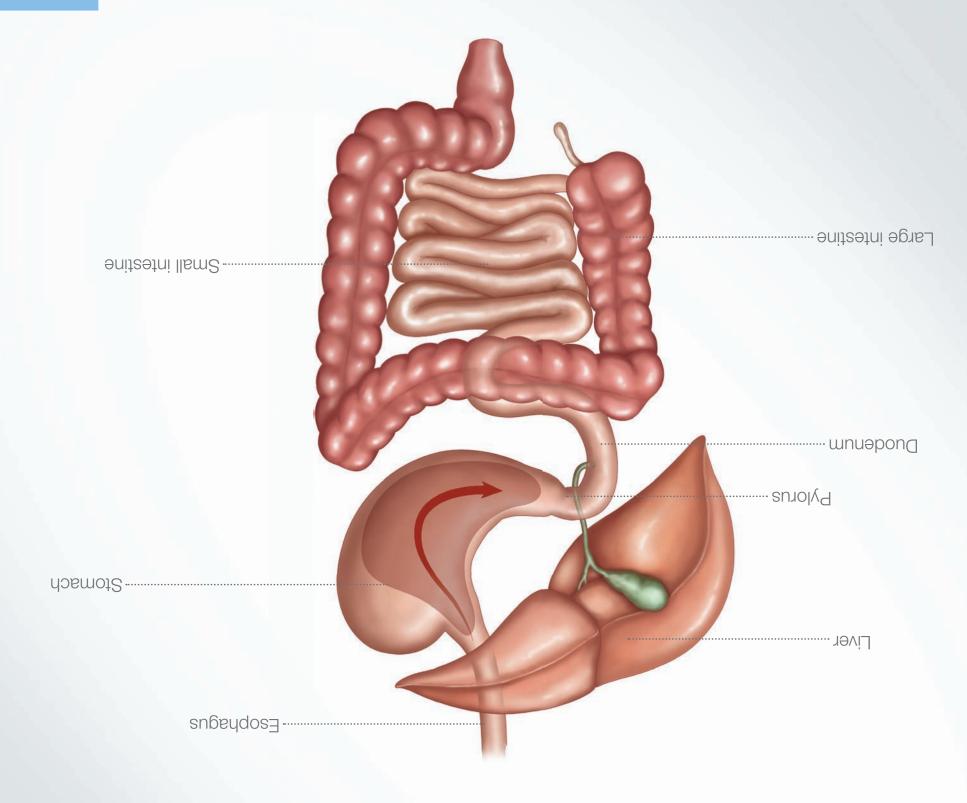
Resolution of Obesity-Related Disease After Bariatric and Metabolic Surgery



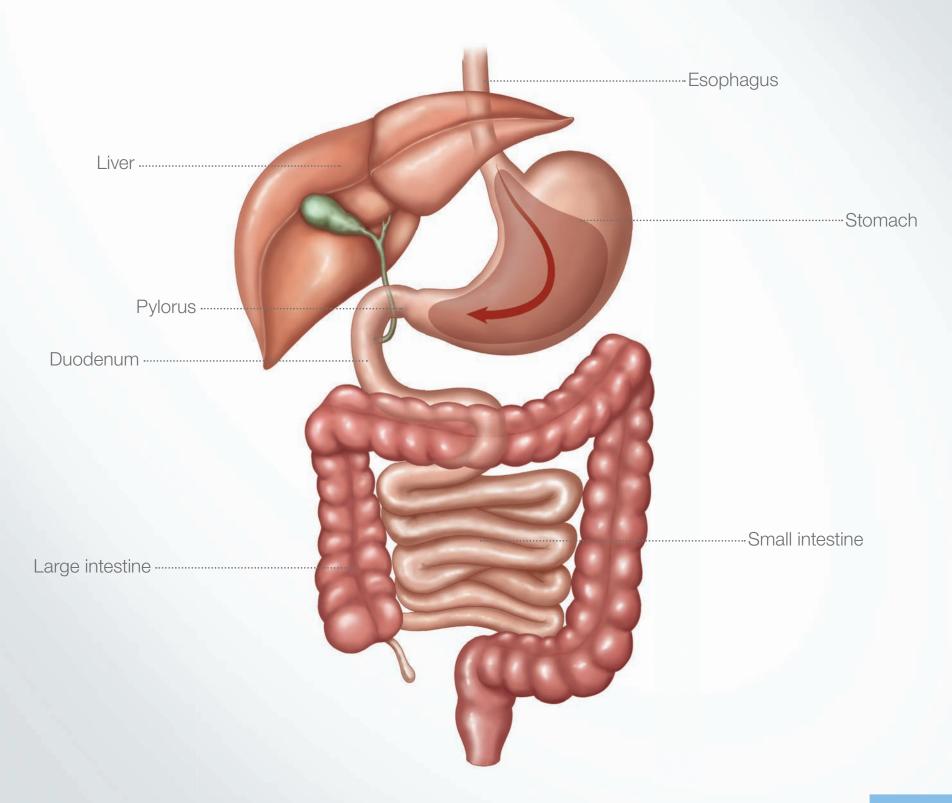
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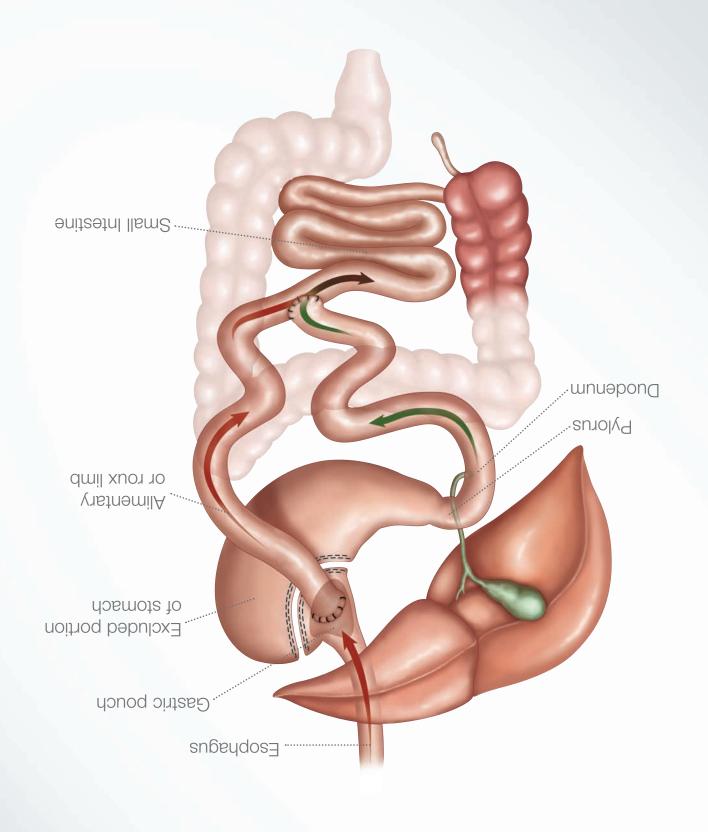
Understanding the Gastrointestinal Anatomy

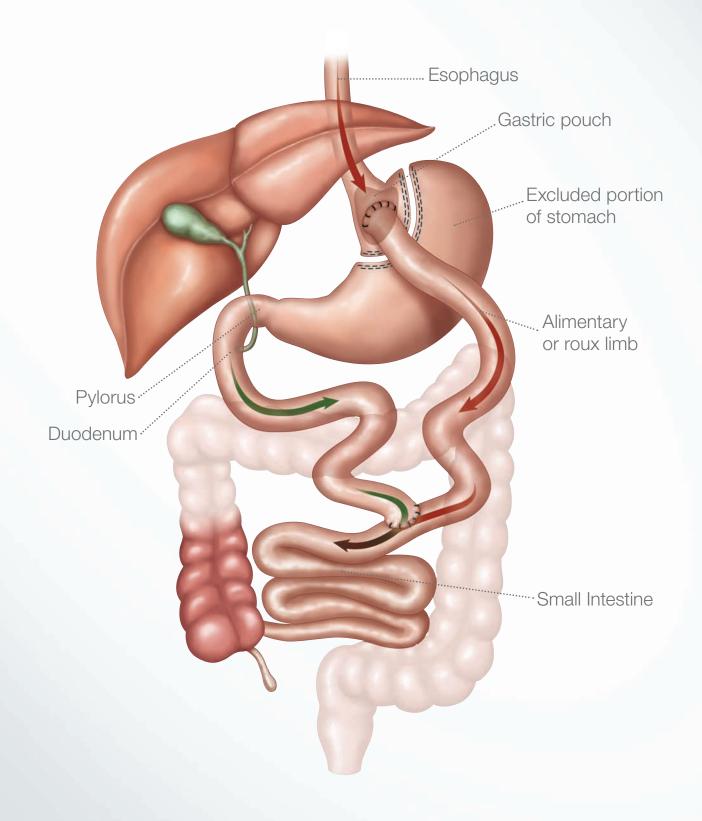


Understanding the Gastrointestinal Anatomy



Understanding the gastrointestinal anatomy





How does it work?

During the procedure, the surgeon creates a small stomach pouch. The surgeon then attaches a section of the small intestine directly to the pouch. This allows food to bypass a portion of the small intestine, which absorbs calories and nutrients. Having the smaller stomach pouch causes patients to feel full sooner and eat less food; bypassing a portion of the small intestine means the patient's body absorbs fewer calories. Like other metabolic surgeries, it also helps to establish a lower, healthier body fat set point by changing the signals between the stomach, brain, and liver.¹⁵

What are the benefits?

Patients report an early sense of fullness and satisfaction that reduces the desire to eat. Patients who have gastric bypass generally lose more weight sooner than patients who undergo purely restrictive procedures.

Gastric bypass patients can also experience dumping syndrome.

This syndrome is a rapid movement of food through the small intestine that leaves the patient feeling flushed and uncomfortable, but it may also be seen as a benefit, as it provides important warning signs that too much sugar or food is being consumed.

What are the risks, complications, and side effects?

Additional risks and complications associated with Roux-en-Y gastric bypass include:

- Dehiscence (separation of tissue that was stitched or stapled together)
- Leaks from staple lines
- Ulcers
- Dumping syndrome, an unpleasant side effect that may include vomiting, nausea, weakness, sweating, faintness, and diarrhea
- Required supplementation of diet with a daily multivitamin, calcium, and sometimes vitamin B12 and/or iron
- Inability to detect the stomach, duodenum and parts of the small intestine using X-ray or endoscopy should problems arise after surgery, such as ulcers, bleeding, or malignancy
- Increased gas

Stapled: Surgical staples, similar in look and function to those used to fasten paper, are used for connecting tissue. Staples are usually permanent and made of titanium.



What are the risks, complications, and side effects?

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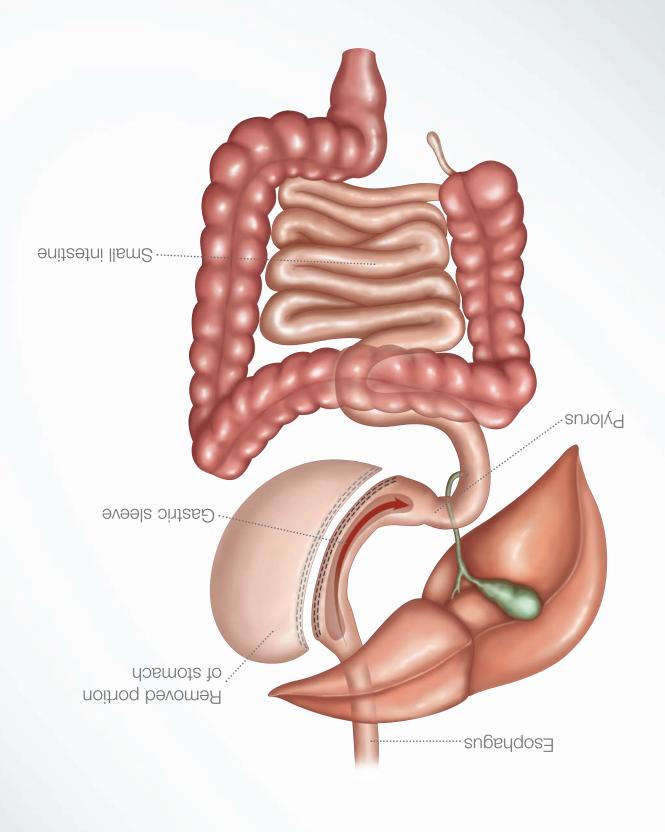
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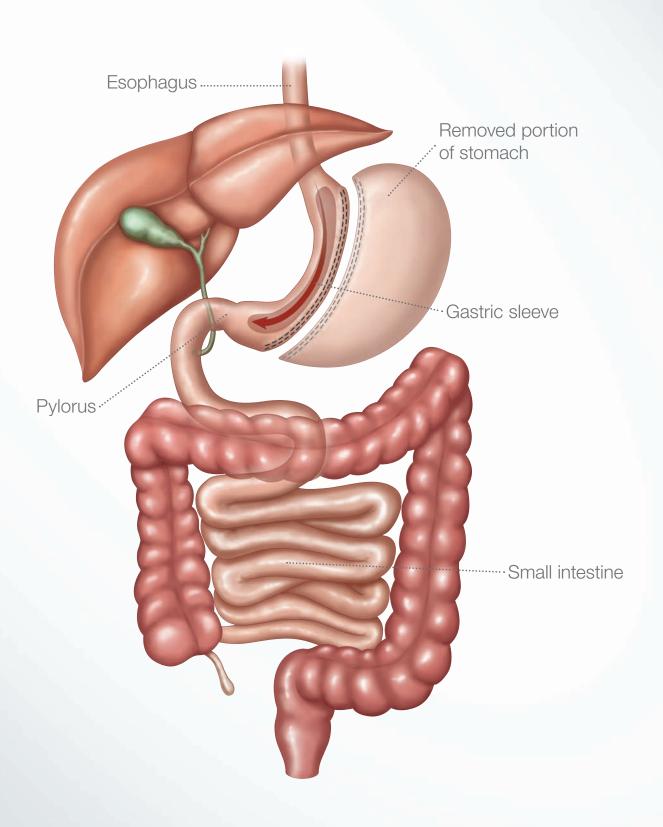
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What are the risks, complications, and side effects?

Additional risks and complications associated with vertical sleeve

gastrectomy include:

- Dehiscence (separation of tissue that was stitched
- or stapled together)
- Leaks from staple lines
- Ulcers
- Dyspepsia
- Esophageal dysmotility
- Fistula

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How does it work?

During this procedure a thin vertical sleeve of stomach is created using a stapling device. The sleeve is about the size of a banana. The excised portion of the stomach is removed. Food passes through the digestive tract in the usual way, allowing vitamins and nutrients to be fully absorbed into the body. Like other metabolic surgeries, it also helps to establish a lower, healthier body fat set point by changing the signals between the stomach, brain, and liver. 15

What are the benefits?

A sleeve gastrectomy limits the amount of food you can eat by permanently reducing the size of your stomach. As a result, you feel full with less food and stay satisfied longer.



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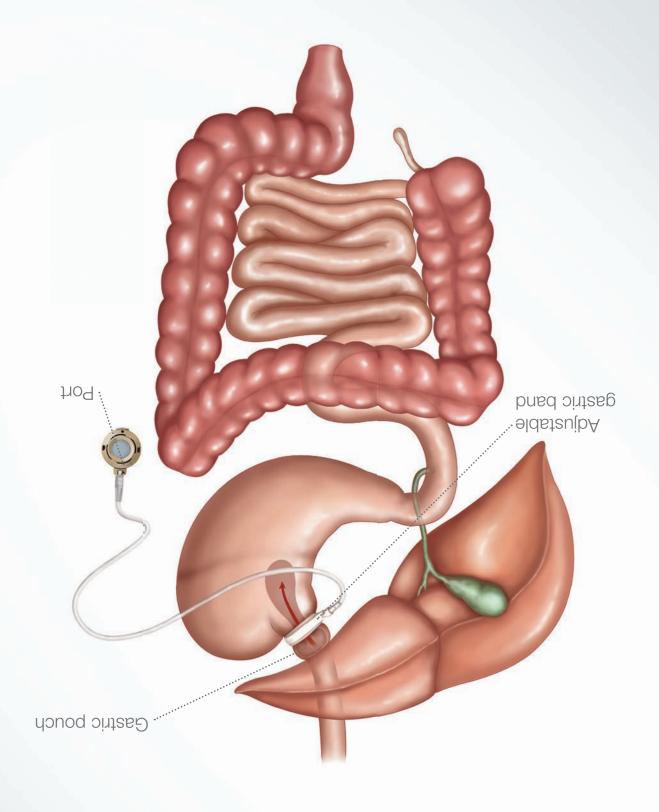
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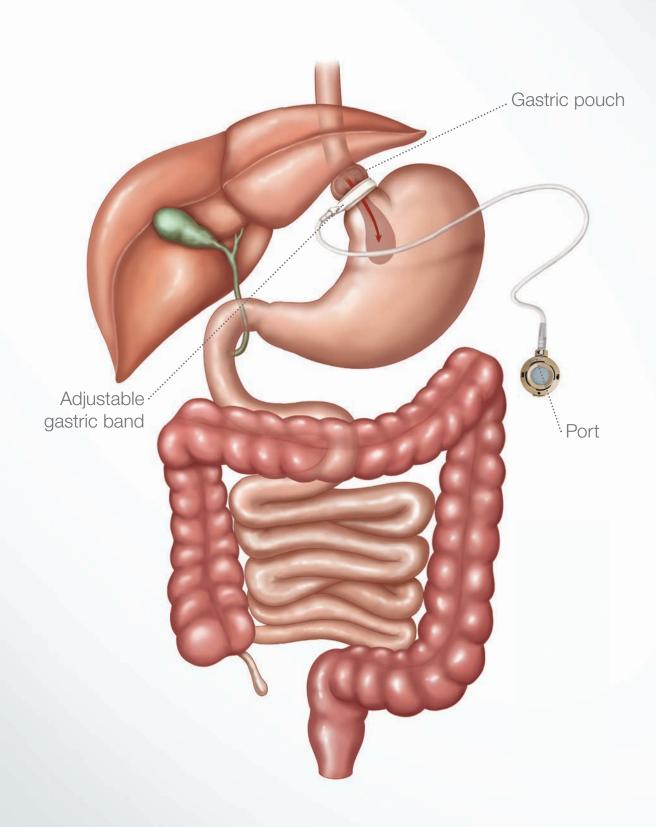
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What are the risks, complications, and side effects?

Additional risks and complications associated with

- Migration of implant (band erosion, band slippage, and
- Tubing-related complications (port disconnection
- and tubing kinking)

port displacement)

gastric banding include:

- Band leak
- Esophageal spasm
- Gastroesophageal reflux disease (GERD)
- Inflammation of the esophagus or stomach
- Port-site infection

Other nonserious complications also were reported in a U.S. clinical study. ¹⁶ None of these complications are usually life threatening. To learn more about the U.S. clinical study, visit **REALIZE.com**

How does it work?

A silicone band is placed around the upper part of the stomach to create a small upper pouch and lower stomach. To control the tightness around your stomach, saline is delivered through an injection port and tubing connected to the band. The injection port is attached to the abdominal wall during surgery. To control the appropriate the strack of the abdominal wall during surgery.

What are the benefits?

Gastric banding limits the amount of food you can eat at one time. For this reason, you will feel full sooner than usual. The stomach created by the band also slows the flow of food from the small upper stomach to the lower stomach. This means you will feel full sooner and stay full longer, and you will have better control of your appetite.

When the band fits properly and is filled adequately, it helps you feel satisfied and full with minimal discomfort. Your health care team will quickly learn how to when adjustments to your band are needed. You will quickly learn how to eat to avoid discomfort and regurgitation. As you eat less food, your body will stop storing excess calories and begin to use its fat energy stores.



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What are the risks, complications, and side effects?

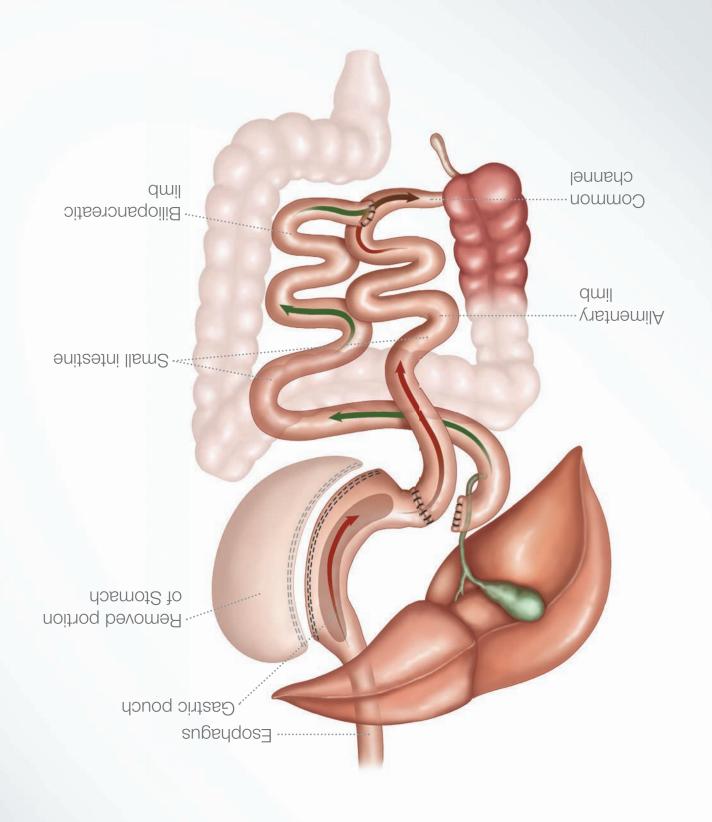
Additional risks and complications associated with gastric banding include:

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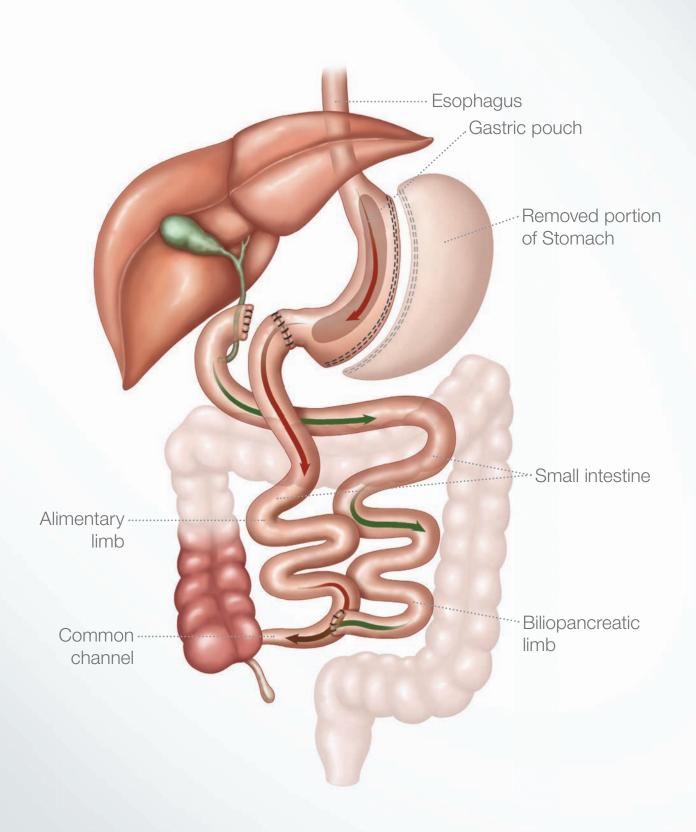
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Biliopancreatic Diversion with Duodenal Switch (BPD/DS)



Biliopancreatic Diversion with Duodenal Switch (BPD/DS)



Biliopancreatic Diversion with Duodenal Switch

What are the risks, complications, and side effects?

- Dehiscence (separation of tissue that was stitched or
- earli alaets most salea l

stapled together)

- Leaks from staple lines
- Ucers
- Required supplementation of diet with a daily multivitamin,
- Inability to detect the duodenum and parts of the small intestine using X-ray or endoscopy should problems arise after surgery, such as ulcers, bleeding, or malignancy
- Abdominal bloating and foul-smelling stool or gas

calcium, and sometimes B12 and/or iron

How Does It Work?

Biliopancreatic diversion with duodenal switch (BPD/DS) is similar to gastric bypass. Instead of a small stomach pouch, the surgeon creates a sleeve-shaped stomach. The surgeon then attaches the final section of the small intestine to the stomach sleeve. The small intestine absorbs calories and nutrients. Bypassing all but the last section of the small intestine causes far fewer calories to be absorbed than with normal anatomy. Like other metabolic surgeries, it also helps to establish a lower, healthier body fat set point by changing the signals between the stomach, brain, and liver. 16

What Are the Benefits?

Patients report less restriction on consumed food than with other bariatric procedures. BPD/DS studies also show that this procedure results in the greatest weight loss because it provides the highest levels of malabsorption and has the highest rate of resolution of type 2 diabetes and hyperlipidemia.





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Comparison of Surgical Procedures

*Disbetes controlled in patients without medications. Control of disbetes is defined as HADA1c ≤7.0%

Resolution statistics above reflect observations in the confines of studies; EES has no independent data to suggest permanent resolution.

										ant safety information	Import
8 ot S eayseb	7.8 of S ⁸ snuori	°bevlosen %97	i bəvlosər	oz pe Alosea	coupto eq1,52,123,25,26* 60-84%	₀₂ %79	Reduces the amount of calories (in the form of nutrients) absorbed.	By creating a smaller atomach pouch, a gastric bypass limits the amount of food that can be eaten at one time, so you feel full sooner and stay full longer. By bypassing a portion of the small intestine, your body also absorbs fewer calories. As you eat less food and absorb fewer calories, your body will stop storing excess calories and start body will stop storing excess calories and start bear and start be	In this procedure, the surgeon creates a small surgeon creates a small stomach pouch using a stapling device and attaches a section of the small intestine directly to the pouch. This allows food to bypass a portion of the small intestine.		GASTRIC BYPASS
21 ot 2 ^{e1} 8ysb	3.5 of 3.1 Pours ¹⁹	₉ рөлүсsөл %09	77% sipənoidui	₉ pənjosəu %09	46-58%	ž1%99	Does not significantly alter normal digestion and absorbion. Food passes through the digestive through the usual order, allowing it to be fully absorbed in the body.	By creating a smaller stomach pouch, a sleeve gastrectomy limits the amount of tood that can be eaten at one time, so you feel full sooner. As you say full longer. As you eat less food, your body eat less food, your body will stop storing excess calories and start using its and start using its	During the sleeve gastrectomy procedure, a thin vertical sleeve of stomach is created using a stapling device. The sleeve is about the size of a banana. The rest of the slomach is removed.		SLEEVE GASTRECTOMY
1 to 3 days ⁵	3,2 of f esnuori	°bevlosen 45%	%17 ®bəvonqmi	⁸ Þevloser	confrolled ^{1,5,21,22*} 20-59%	91%lt	Does not significantly alter normal digestion and alter normal digestion and absorption. Food passes through the digestive tract in the usual order, allowing it to be fully absorbed in the body.	By creating a smaller stomach pouch, the atomach pouch, the band limits the amount of food that can be eaten at sooner and stay full longer. As you eat less food, your body will stop storing excess body will stop storing excess the storing excess calones and start using its fat supply for energy.	The adjustable gastric band wraps gastric band wraps around the upper part of the stomach, dividing the stomach into a small upper pouch that holds about ½ cup of food and a larger lower atomach. The degree of band tightness affects how much food you can eat and the length of time it takes for food to leave the stomach food to leave the stomach pouch.		GASTRIC BANDING
Length of hospital stay	Average surgery time	Obstructive sengs geels	High cholesterol	High blood pressure	sətədsib 2 əqyT	Total percent excess body weight lost (at 3 years)	How it affects digestion	How it works to help you lose weight	Procedure description		
	SI	N CLINICAL TRIA	SENEFITS SHOWN	<u> НЕАГТН</u>							

Bariatric surgery is used in morbidly obese adult patients for significant long-term weight loss. It may not be right for inclividuals with other bariatric procedures, please visit REALIZE.com/potentialrisks.

Comparison of Surgical Procedures

	HEALTH BENEFITS SHOWN IN CLINICAL TRIALS									
	Procedure description	How it works to help you lose weight	How it affects digestion	Total percent excess body weight lost (at 3 years)	Type 2 diabetes	High blood pressure	High cholesterol	Obstructive sleep apnea	Average surgery time	Length of hospital stay
GASTRIC BANDING	The adjustable gastric band wraps around the upper part of the stomach, dividing the stomach into a small upper pouch that holds about ½ cup of food and a larger lower stomach. The degree of band tightness affects how much food you can eat and the length of time it takes for food to leave the stomach pouch.	By creating a smaller stomach pouch, the band limits the amount of food that can be eaten at one time, so you feel full sooner and stay full longer. As you eat less food, your body will stop storing excess calories and start using its fat supply for energy.	Does not significantly alter normal digestion and absorption. Food passes through the digestive tract in the usual order, allowing it to be fully absorbed in the body.	41% ¹⁶	20-59% controlled ^{1,5,21,22*}	42% resolved ⁸	71% improved ⁸	45% resolved⁵	1 to 2.5 hours⁵	1 to 3 days⁵
SLEEVE GASTRECTOMY	During the sleeve gastrectomy procedure, a thin vertical sleeve of stomach is created using a stapling device. The sleeve is about the size of a banana. The rest of the stomach is removed.	By creating a smaller stomach pouch, a sleeve gastrectomy limits the amount of food that can be eaten at one time, so you feel full sooner and stay full longer. As you eat less food, your body will stop storing excess calories and start using its fat supply for energy.	Does not significantly alter normal digestion and absorption. Food passes through the digestive tract in the usual order, allowing it to be fully absorbed in the body.	66% ¹⁷	45-58% controlled ^{22,23,24*}	50% resolved ⁶	77% improved ¹⁸	60% resolved ⁶	1.5 to 3.5 hours ¹⁹	2 to 12 days ¹⁹
GASTRIC BYPASS	In this procedure, the surgeon creates a small stomach pouch using a stapling device and attaches a section of the small intestine directly to the pouch. This allows food to bypass a portion of the small intestine.	By creating a smaller stomach pouch, a gastric bypass limits the amount of food that can be eaten at one time, so you feel full sooner and stay full longer. By bypassing a portion of the small intestine, your body also absorbs fewer calories. As you eat less food and absorb fewer calories, your body will stop storing excess calories and start using its fat supply for energy.	Reduces the amount of calories (in the form of nutrients) absorbed.	62%²º	60-84% controlled ^{1,5,21,23,25,26*}	66% resolved ²⁰	94% resolved ¹	76% resolved⁵	2 to 3.7 hours⁵	2 to 8 days⁵

Important safety information

Bariatric surgery is used in morbidly obese adult patients for significant long-term weight loss. It may not be right for individuals with certain digestive tract conditions. All surgery presents risks. Weight, age and medical history determine your specific risks. Ask your doctor if bariatric surgery is right for you. For potential risks associated with other bariatric procedures, please visit REALIZE.com/potentialrisks.

Resolution statistics above reflect observations in the confines of studies; EES has no independent data to suggest permanent resolution.

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Incision Types for Bariatric Surgery

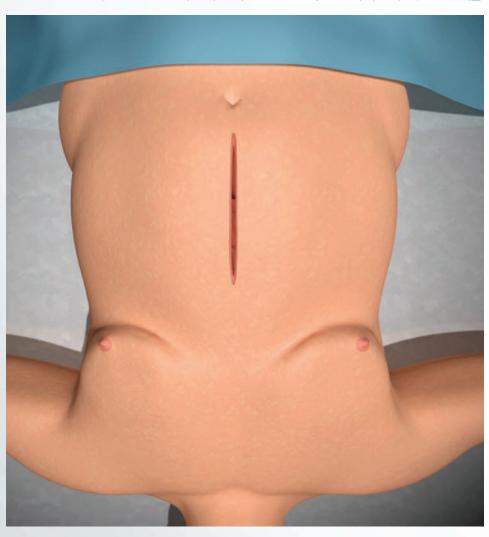


Figure 2: Incisions for open bariatric surgery*

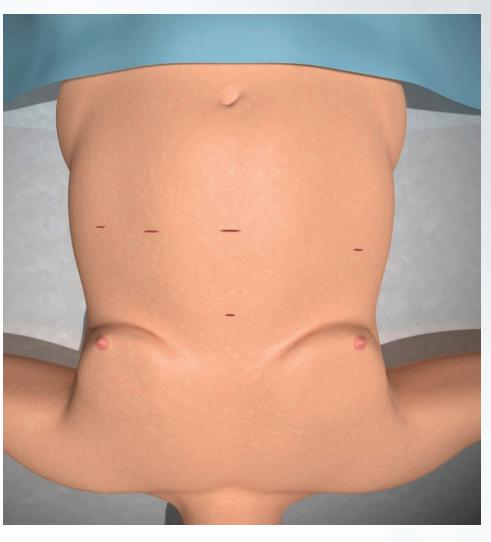


Figure 1: Incisions for laparoscopic bariatric surgery*

*The location, number, and size of incisions may vary from surgeon to surgeon.

Incision Types for Bariatric Surgery



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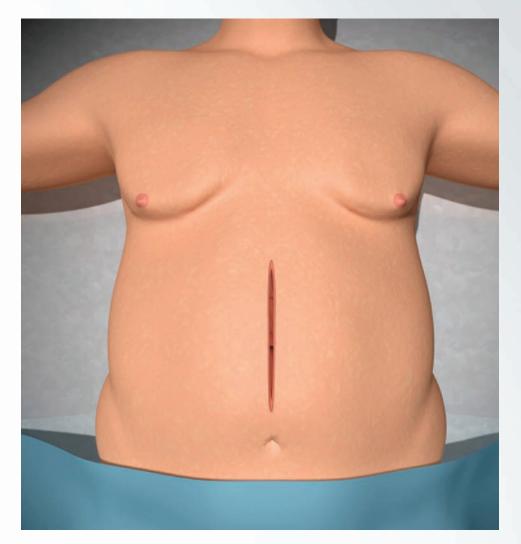


Figure 2: Incisions for open bariatric surgery*

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Risks of Abdominal Surgery

Risks associated with bariatric and metabolic surgery

Risks associated with all bariatric surgeries include:

- Abdominal hernia
- Chest pain
- Collapsed lung
- Constipation or diarrhea
- Enlarged heart

Dehydration

- Gallstones, pain from passing a gallstone, inflammation of the gallbladder, or surgery to remove the gallbladder
- Gastrointestinal inflammation or swelling
- Stoma obstruction
- Stretching of the stomach
- Surgical procedure repeated
- Vomiting and nausea

Abdominal: Referring to the part of the body between the ribs and the pelvis that encloses the viscera.

Deep vein thrombosis: Blood clot.

Pulmonary embolism: A sudden blockage of a lung artery by material circulating in the blood; most often a blood clot from a deep vein in the lung or pelvis.

Risks associated with abdominal surgery

There are risks associated with abdominal surgery. You can think of risks in the following way: some are associated with surgery, some are specific to a particular bariatric procedure, and some may be unique to you. If you have health conditions such as heart disease or diabetes, or if you are on certain medications (such as blood-thinning medications) or have had other surgeries, your surgeon will inform you about your specific risks for bariatric surgery.

Risks associated with any general abdominal surgery include:

- Bleeding
- Pain
- Shoulder pain
- Pneumonia
- Complications due to anesthesia and medications
- Deep vein thrombosis
- Injury to the stomach, esophagus, or surrounding organs
- Infection
- Pulmonary embolism
 Stroke or heart attack
- Death



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