

PRESENTS

SLEEVE GASTRECTOMY SURGERY

Multimedia Health Education

Disclaimer

This information is an educational resource only and should not be used to manage Obesity. All decisions about surgical management of Obesity must be made in conjunction with your physician or a licensed healthcare provider.

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MULTIMEDIA HEALTH EDUCATION MANUAL

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SLEEVE GASTRECTOMY SURGERY

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INTRODUCTION

Sleeve Gastrectomy is a surgical procedure used in the treatment of Obesity. To learn more about this surgery, let us first learn about obesity and the normal digestive process.

our Practice Online



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Unit 1:

INTRODUCTION LESSONS:

a. What is Obesity?

Obesity is a serious, chronic disease that is a growing worldwide concern affecting the health of millions of people. Obesity is defined as an excessively high amount of body fat in relation to lean body mass resulting from caloric intake that exceeds energy usage.

Obesity is the second leading cause of preventable death following smoking.



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Unit 1:

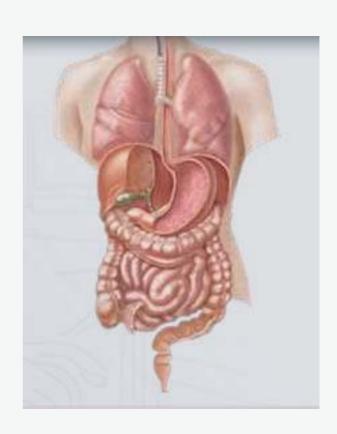
INTRODUCTION LESSONS:

b. The Gastrointestinal System

The gastrointestinal system is essentially a long tube running through the body with specialized sections that are capable of digesting material put in the mouth and extracting any useful components from it, then expelling the waste products from the anus.

Food after ingestion undergoes three types of processes in the body:

- Digestion
- Absorption
- Excretion



The entire GI system is under hormonal control with the presence of food in the mouth triggering a cascade of hormonal actions. When food reaches the stomach, different hormones activate acid secretion, increased gut motility, enzyme release etc.

Nutrients from the GI tract are not processed on-site but instead will be absorbed and taken to the liver through the blood circulation to be broken down further, stored, or distributed.



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Unit 1/cont:

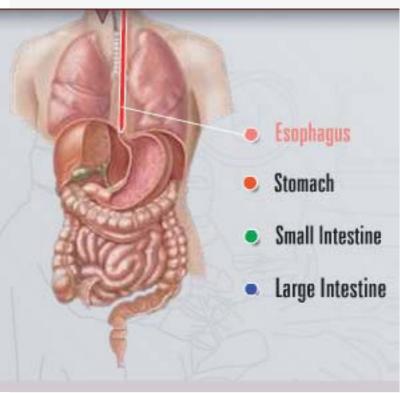
INTRODUCTION LESSONS:

Esophagus

Once food is chewed and mixed with saliva in the mouth. it is swallowed and passes down the esophagus. The esophagus has a stratified squamous epithelial lining (SE) which protects the esophagus from trauma. The submucosa lining (SM) secretes mucus from mucous glands (MG) which aid the passage of food down the esophagus. The esophageal wall muscle layer helps to push the food into the stomach by waves of motion called peristalsis.



The stomach is a 'j'-shaped organ with two openings- the esophageal and the duodenaland four regions- the cardia, fundus, body and pylorus. Each performs different region functions including mixing of food with digestive enzymes and strong acid. The layer of mucus produced prevents the stomach from digesting itself.





GASTRIC BYPASS SURGERY



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Unit 1/cont:

INTRODUCTION LESSONS:

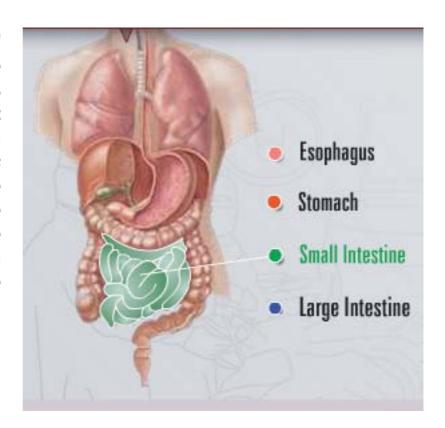
The stomach's major functions are:

- Temporary food storage
- Control the rate at which food enters the small intestine
- Acid secretion and antibacterial action
- Fluidization of stomach contents
- Preliminary digestion with pepsin, lipases etc.

Small intestine

The small intestine is the site where most of the chemical and mechanical digestion is carried out, and where virtually all of the absorption of useful materials occurs. The whole of the small intestine is lined with an absorptive mucosal layer, with certain modifications for each section. The intestine also has a smooth muscle wall with two layers of muscle; rhythmical contractions force products of digestion through the intestine (peristalsis). There are three main sections to the small intestine:

The duodenum forms a 'C' shape around the head of the pancreas. Its main function is to neutralize the acidic gastric contents (called 'chyme') and to initiate further digestion; Brunner's glands in the submucosa secrete alkaline mucus which neutralizes the acidic chyme of the stomach and protects the surface of the duodenum.





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Unit 1/cont:

INTRODUCTION LESSONS:

The jejunum and the ileum are the greatly coiled parts of the small intestine, and together are about 4-6 meters long or 13-20 feet; the junction between the two sections is not well-defined. The mucosa of these sections is highly folded (the folds are called plica), increasing the surface area available for absorption dramatically.

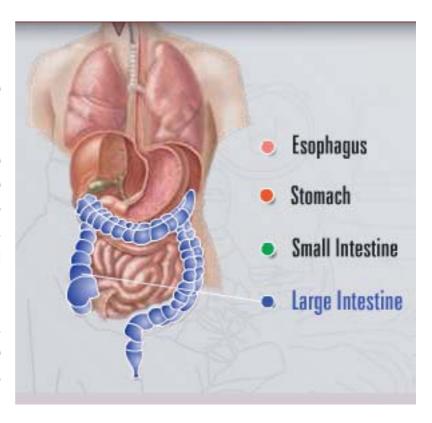
Large intestine

The large intestine is the last part of the digestive tube and the location of the terminal phases of digestion. It is the part of the digestive tube between the terminal small intestine and anus. Within the large intestine, three major segments are recognized:

The cecum is a blind-ended pouch that in humans carries a worm-like extension called the vermiform appendix.

The colon constitutes the majority of the length of the large intestine and is subclassified into ascending, transverse, and descending segments.

The rectum is the short, terminal segment of the digestive tube, continuous with the anal canal.





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Unit 1/cont:

INTRODUCTION LESSONS:

Functions of the Large Intestine

Recovery of water and electrolytes from digested food:

A considerable amount of water and electrolytes like sodium and chloride remain and must be recovered by absorption in the large intestine. This is what goes wrong when you have diarrhea and constipation.

Formation and storage of feces:

As digested food passes through the large intestine, it is dehydrated, mixed with bacteria and mucus, and formed into feces.

Microbial fermentation:

Fermentation is the enzymatic decomposition and utilization of foodstuffs, particularly carbohydrates, by microbes. The large intestine does not produce its own digestive enzymes, but contains huge numbers of bacteria which have the enzymes to digest and utilize many substrates.

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Unit 2:

OBESITY LESSONS:

a. Body Mass Indicator

Body Mass Index (BMI) is the measure of body fat based on height and weight that applies to both adult men and women. BMI does not differentiate between body fat and muscle mass. Therefore, body builders and people who have a lot of muscle bulk will have a high BMI but are not overweight or obese.

Overweight is defined as a Body Mass Index (BMI) of 25 to 29.9. Overweight refers to increased body weight in relation to height.

Obesity is defined as a Body Mass Index (BMI) of 30 or higher and extreme obesity is a BMI of 40 or more. Extreme obesity is often referred to as Morbid Obesity due to the associated health risks.

ВМІ	Status
Less than 19	Underweight
19 to 24.9	Normal
25 to 29.9	Overweight
30 to 39.9	Obese
40 and above	Morbid Obesity

b. Causes of Obesity

- Obesity could be a combination of the following:
 - The genes you inherited from your parents
 - How well your body turns food into energy
 - Your eating and exercising habits
 - Your surroundings
 - Psychological factors



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Unit 2/cont::

OBESITY LESSONS:

c. Complications of Obesity

• If you are obese, severely obese, or morbidly obese, you may have:

Major health risks

Shorter Life Expectancy:

Compared to people of normal weight, obese people have a 50% to 100% increased risk of dying prematurely.

Obese people have more risk for:

- Diabetes (type 2)
- Joint problems (e.g., arthritis)
- High blood pressure
- Heart disease
- Gallbladder problems
- Certain types of cancer (breast, uterine, colon)
- Digestive disorders (e.g., gastroesophageal reflux disease, or GERD)
- Breathing difficulties (e.g., sleep apnea, asthma)
- Psychological problems such as depression
- Problems with fertility and pregnancy
- Incontinence

Risks to psychological and social well-being:

- Negative self-image
- Social isolation
- Discrimination

Difficulties with day-to-day living:

- Normal tasks become harder when you are obese, as movement is more difficult
- You tend to tire more quickly and you find yourself short of breath
- Public transportation seats and car seats may be too small for you
- You may find it difficult to maintain personal hygiene



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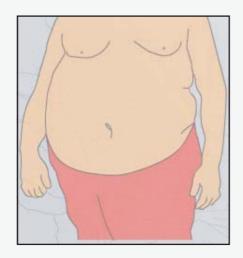
Unit 3:

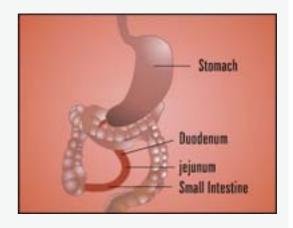
SLEEVE GASTRECTOMY SURGERY:

a. Surgical Procedure

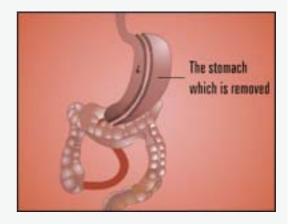
Sleeve Gastrectomy surgery is a restrictive surgical procedure. It is restrictive in the sense that it "restricts" how much food the stomach can hold.

Patients with excessively high BMI's (over 55), are at increased risk for Bariatric surgery. Therefore, your surgeon may recommend performing the sleeve gastrectomy as the first part of a two part surgery. This enables the patient to lose weight for the first year prior to the second surgery where bypass is performed to assist the patient with the remaining weight loss. Because the patient loses weight from the sleeve gastrectomy, there is less risk associated with the second surgery to do the bypass. Highly motivated patients may not require the second stage of surgery if adequate weight loss is achieved by sleeve gastrectomy alone.





In a sleeve gastrectomy surgery, the left side of the stomach is removed leaving a smaller sleave or tube that is shaped like a banana. This surgery is performed laparoscopically and involves stapling of the stomach upon removal of the left side of the stomach.





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Unit 3/cont: SLEEVE GASTRECTOMY SURGERY:

b. Advantages of Sleeve Gastrectomy Surgery includes:

- Reduced stomach volume increases feeling of fullness
- Stomach functions normally allowing most foods to be eaten, just in smaller amounts
- Stomach portion that produces hunger stimulating hormone (Ghrelin) is removed.
- No dumping syndrome due to pyloric portion of stomach is left intact
- No intestinal bypass and its associated risks
- Can be performed laparoscopically
- Simpler procedure than gastric bypass
- Safer first stage procedure of two stage surgery for super morbidly obese
- Less operative time than bypass surgeries
- Less hospital stay than bypass surgeries
- No foreign bodies used such as in band surgery

c. Disadvantages of Sleeve Gastrectomy Surgery include:

- Potential is higher for inadequate weight loss or weight regain compared to intestinal bypass surgeries.
- Irreversible
- Considered investigational by some surgeons and insurance companies
- Considered a temporary treatment for obesity unless second stage (bypass) is performed
- Potential for dilation of the sleeve affecting weight loss
- Long term results have not been evaluated

d. Risks & Complications

- As with any surgery there are potential risks involved. The decision to proceed with the surgery is made because the advantages of surgery outweigh the potential disadvantages
- It is important that you are informed of these risks before the surgery takes place.

Most patients do not have complications after Sleeve Gastrectomy surgery; however complications can occur and depend on the patient's health status.



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Unit 3/cont: SLEEVE GASTRECTOMY SURGERY:

Complications can be medical (general) or specific to Sleeve Gastrectomy.

Medical complications include those of the anesthesia and your general well being. Almost any medical condition can occur so this list is not complete. Complications include:

- Allergic reaction to medications
- Blood loss requiring transfusion with its low risk of disease transmission
- Heart attack, strokes, kidney failure, pneumonia, bladder infections
- Complications from anesthesia
- Serious medical problems can lead to ongoing health concerns, prolonged hospitalization, or rarely death. (less than 1% cases)

Specific complications for Sleeve Gastrectomy surgery include:

- DVT (blood clot in the deep leg veins)
- Damage to adjacent organs
- Leakage of digestive contents from the staple line can lead to serious infection

Conclusion

Although every effort is made to educate you on Sleeve Gastrectomy surgery and take control, there will be specific information that will not be discussed. Talk to your doctor or health care provider about any concerns you have about this surgery.

Your BARIATRIC SURGICAL Team

SLEEVE GASTRECTOMY SURGERY

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Physician's Signature:	Patient's Signature:
Physician's Name:	Patient's Name:
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	FAMILY SUPPORT REVIEW
	PRE-ADMISSION TESTING
	ADVANCE MEDICAL DIRECTIVE
	DENTAL CHECK UP
	MEDICAL CHECK UP
	ARRANGE FOR BLOOD
	PRE-HABILITATION
	VIEW YOUR VIDEO/ CD/ DVD/ WEBSITE
	READ YOUR BOOK AND MATERIAL
2006	YOUR SURGERY DATE