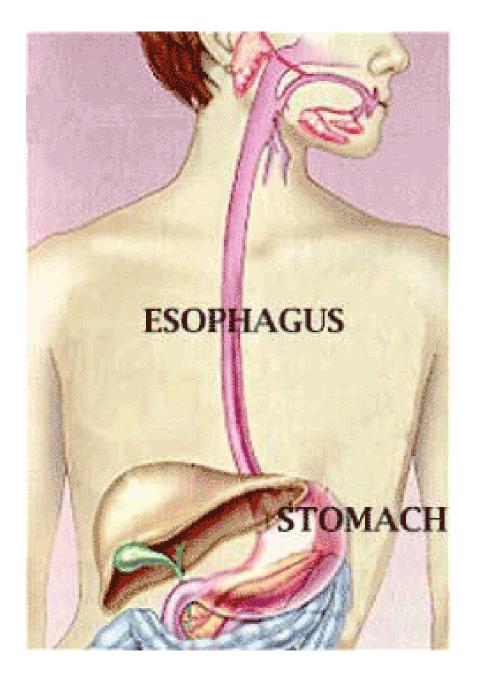
Chapter 17 :Nutrition for Patients with Upper Gastrointestinal Disorders

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Upper Gl tract

Upper Gl

Problems with the upper GI tract impact nutrition mostly by affecting food intake and tolerance to particular food

DISORDERS THAT AFFECT EATING

Anorexia

Nausea and Vomiting

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Anorexia

Anorexia : lack of appetite

It differs from anorexia nervosa(a psychological condition characterized by denial of appetite).

Anorexia

The aim of nutrition therapy is to

stimulate the appetite to maintain adequate nutritional intake.

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Anorexia : Intervention

- Serve food attractively and season according to individual taste
 - enhance flavors with (e.g., orange juice, vinegar, lemon juice) or strong seasonings (e.g., basil, oregano, rosemary, mint)
- Provide small, frequent meals.
- Withhold beverages for 30 minutes before and after meals to avoid displacing the intake of more nutrientdense foods
- Limit fat intake if fat is contributing to early satiety.

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Nausea and Vomiting

- Might be related to :
 - decrease in gastric acid secretion
 - decrease in digestive enzyme activity
 - decrease in gastrointestinal motility
 - gastric irritation
 - acidosis
- Other causes include:
 - bacterial and viral infection
 - increased intracranial pressure
 - equilibrium imbalance
 - liver, pancreatic, and gallbladder disorders
 - pyloric or intestinal obstruction.

Nutrition intervention

- The short term concern of nausea and vomiting is fluid and electrolyte balance.
- to meet patient needs until an oral intake resumes.

• With prolonged or **intractable vomiting**, dehydration and weight loss are concerns.

Nausea

• Food is withheld until nausea subsides.

 When the patient is ready to eat, <u>clear liquids</u> are offered and progressed to a regular diet as tolerated.

 Small, frequent meals of low fat, readily digested carbohydrates

Nausea

- Encourage the patient to eat slowly and not to eat if he or she feels nauseated.
- Promote good oral hygiene with mouthwash and ice chips.
- Limit liquids with meals because they can cause a full, bloated feeling.
- Encourage a liberal fluid intake between meals with whatever liquids the patient can tolerate, such as clear soup, juice, gelatin
- Serve foods at room temperature or chilled; hot foods may contribute to nausea.
- Avoid high-fat and spicy foods if they contribute to nausea

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DISORDERS OF THE ESOPHAGUS

Dysphagia

Gastroesophageal Reflux Disease (GERD)

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Dysphagia

- Mechanical causes include :
 - obstruction, inflammation, edema, and surgery of the throat.
- Neurologic causes include :
 - cerebrovascular accident, traumatic brain injury, Parkinson's disease, and multiple sclerosis.
- Refer patients with actual or potential swallowing impairments to the speech pathology department for a thorough swallowing assessment.

Dysphagia: Nutrition Therapy

 Modify the texture of foods and/or viscosity of liquids to enable the patient to achieve adequate nutrition and hydration while <u>decreasing the</u> risk of aspiration.

Dysphagia: Nutrition Therapy

- Solid foods may be
 - minced, mashed, ground, or pureed
- Thin liquids may be thickened to facilitate swallowing
- These measures often dilute the nutritional value of the diet and make food and beverages less appealing
- Enteral nutrition is important!!

National Dysphagia Diet

 Generally, moist, semisolid foods are easiest to swallow, such as pudding, custards, scrambled eggs, and yogurt because they form a cohesive bolus that is more easily controlled.

• Dry, crumbly, and sticky foods are avoided.

National Dysphagia Diet

- Some foods, such as bread, are slurried to create a texture
- easily swallowed while retaining the appearance of "regular" bread.

<u>must have the consistency</u> <u>of puree when mashed</u> <u>with a spoon</u>

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pureed and molded foods



National Dysphagia Diet

 National Dysphagia Diet is composed of :

-Three levels of solid textures

-Four liquid consistencies

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National dysphagia diet

Table 17.2

- Level 1: Dysphagia Pureed
- Level 2: Dysphagia Mechanically Altered
- Level 3: Dysphagia Advanced

National dysphagia diet

Table 17.2

- Four Liquid Consistencies
 - Thin
 - Nectarlike
 - Honeylike
 - Spoon-thick

Three Levels of Solid Textures			
Level 1: Dysphagia Pureed	Foods are totally pureed to a smooth, homogenous consistency. Eliminates sticky foods such as peanut butter and coarse-textured foods such as nuts and raw fruits and vegetables	Smooth cooked cereals; slurried or pureed bread products; milk; smooth desserts such as yogurt, pudding, custard, and applesauce; pureed fruits, vegetables, meats, scrambled eggs, and soups	
Level 2: Dysphagia Mechanically Altered	Soft-textured, moist foods that are easily chewed. Eliminates coarse tex- tures, nuts, and raw fruits and vegetables (except banana)	Cooked cereals may have a little texture; some well-moistened ready-to-eat cereals; well-moist- ened pancakes with syrup; slurried bread; moist well-cooked potatoes, noodles, and dumplings; soft poached or scrambled egg; soft canned or cooked fruit; soft, well- cooked vegetables with <½ in. pieces (except no corn, peas, and other fibrous vegetables). Moist- ground or minced tender meat in pieces no larger than ¼ in., soft casseroles, cottage cheese, tofu; moist cobblers and moist soft cook- ies; soups with easy to chew meat or vegetables	
Level 3: Dysphagia Advanced STUDENTS-HUB.com	Near-normal textured foods; excludes crunchy, sticky, or very hard foods. Food is bite-sized and moist	All breads are allowed except for those that are crusty; moist cereals; most desserts except those with nuts, seeds, coconut, pineapple, or dried fruit; soft, peeled fruit without seeds; moist tender meats or casseroles with small pieces of meat; moist potatoes, rice, and stuffing; all soups except those with chewy meats or vegetables; most cooked, tender vegetables, except corn; shredded lettuce. No nuts, seeds, coconut, and ploaded day argonymous	

Four Liquid Consistencies			
Thin	All unthickened beverages and supplements	Clear juices, frozen yogurt, ice cream, milk, water, coffee, tea, soda, broth, plain gelatin, liquidy fruits such as watermelon	
Nectarlike	Liquids thicker than water but thin enough to sip through a straw	Nectars, vegetable juices, chocolate milk, buttermilk, thin milkshakes, cream soups, other properly thick- ened beverages	
Honeylike	Liquids that can be eaten with a spoon but do not hold their shape	Honey, tomato sauce, yogurt	
Spoon-thick	Liquids thickened to pudding consistency that need to be eaten with a spoon	Pudding, custard, hot cereal	

Gastroesophageal Reflux Disease

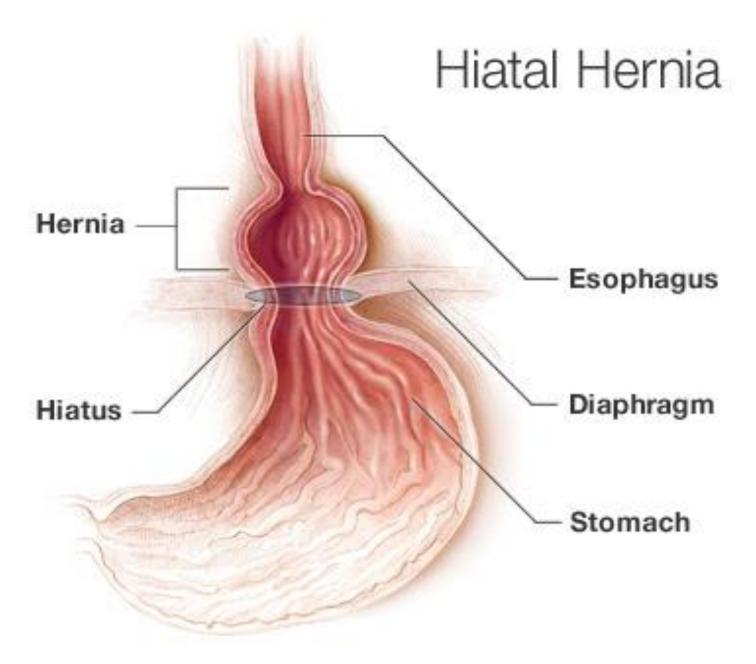
• Gastroesophageal reflux is the backflow of gastric acid into the esophagus

 Gastroesophageal reflux disease (GERD): occurs when symptoms of reflux happen two or more times a week.

Gastroesophageal Reflux Disease

 Because of abnormal relaxation of the lower esophageal sphincter

- Other contributing factors are:
 - increased intra-abdominal pressure (e.g., related to hiatal hernia, obesity, or pregnancy)
 - decreased esophageal motility.



Gastroesophageal Reflux Disease

- Pain frequently worsens when:
 - the person lies down
 - bends over after eating
 - wears tight-fitting clothing

- Chronic untreated GERD may cause:
 - reflux esophagitis
 - dysphagia
 - Adenocarcinoma (epithelial cells of the esophagus)
 - esophageal ulcers
 - bleeding

GERD: Nutrition Therapy

- 1. lifestyle modification, including nutrition therapy
 - (Box 17.2)
- 2. drug therapy

3. surgical intervention

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LIFESTYLE AND NUTRITION THERAPY RECOMMENDATIONS FOR THE TREATMENT OF GERD

Lifestyle Recommendations Exercise at moderate intensity for at least 30 minutes/day Lose weight to keep BMI <25 Avoid lying down for 3 hours after meals Elevate the head of the bed during sleep

Nutrition Therapy Recommendations Avoid:

- Large and/or fatty meals within 3 hours of bed
- Eating too fast
- Drinking alcohol, caffeinated beverages, regular and decaffeinated coffee, soft drinks
- Eating high-fat foods, spicy foods, chocolate, mint, and citrus foods

Source: Vemulapalli, R. (2008). Diet and lifestyle modifications in the management of gastroesophageal reflux disease. *Nutrition in Clinical Practice, 23,* 293–298.

DISORDERS OF THE STOMACH

Peptic Ulcer Disease Dumping Syndrome

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Peptic Ulcer Disease

• Erosion of the mucosal layer of the stomach (gastric ulcer)

 Duodenum (duodenal ulcer) caused by an excess secretion of, or decreased mucosal resistance to, hydrochloric acid.

Causes of peptic ulcer

- 1. Helicobacter pylori
 - destroying the bacteria—with antibiotics generally cures the ulcer.
- 2. The second leading cause of peptic ulcers is the use of nonsteroidal antiinflammatory drugs (NSAIDs).

Eating spicy food does not cause ulcers.

Ulcer : Nutrition Therapy

 There is no evidence that diet causes peptic ulcer disease or speeds ulcer healing

- Patients may be told to avoid :
 coffee, alcohol, and chocolate
- because they stimulate gastric acid secretion

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Ulcer : Nutrition Therapy

 Avoid items that stimulate gastric acid secretion, namely coffee (decaffeinated and regular), alcohol, and pepper.

• Avoid eating 2 hours before bed.

• Avoid individual intolerances.

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