## Nutrition and Diseases of the Stomach

1. What are the mechanisms by which the manifestations of dumping syndrome are produced?

Hypovolemia (low blood volume) - pulling fluid ---> blood volume drops. Hypoglycemia 1-3 hrs later - quickly absorb CHO monosaccharides. --> over stimulate the pancreas --> pancreas over-compensates.

- 2. Suppose a dumping syndrome patient is 5 pounds below weight. What nutrients and categories of foods would you increase in the diet to ensure that no more body weight will be lost?
  - Whole protein tolerated 20% kcal
  - Moderate fat 30-40% kcal
  - MCT maybe (hard to cook with and no taste)
  - Do not consume osmotically active foods.
  - Want very few simple sugars & no free a.a.
  - Stay away from beverages with high osmolality. (i.e., coca-cola, koolaid, OJ; frozen deserts are trickey)
  - Lactose intolerance varies
  - Pectin (soluble fiber) add to food to slow movement
  - small meals
  - individualize the diet
  - Limit liquids with meals (dry meal helps a lot; less fluid so it won't go quickly to small intestine.)
  - **<u>B12 shot or sub-linqual.</u>**
  - Ca. Fe. Zm. trace minerals, Mg
  - Thiamin?

## 3. What is the etiology of gastric ulcers and how is this related to the medical nutrition therapy used today?

Aspirin and other NSAIDs, H. pylori infection, and stress ----> erosion through muscularis mucosa into submucosa or muscularis propria

## 4. What is the recommended medical nutrition therapy for peptic ulcer disease?

- Medical Management:
  - o reduce or withdraw use of NSAIDs,
  - o use antibiotics, sucralfate, antacids,
  - Acid secretion suppression with proton pump inhibitors or H2-receptor blockers.
- Avoid tobacco products.
- Decrease consumption of alcohol, spices, particularly red and black peppers, coffee and caffeine

- Increased intake of n-3 and n-6 fatty acids which may have a protective effec.
  Good dietary/nutritional status helps decrease H. pylori.