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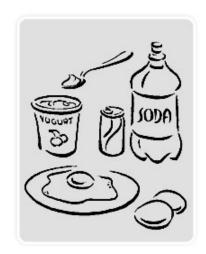
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# **Gastroparesis Diet for Delayed Stomach Emptying**

#### **Purpose**

Gastroparesis is the medical term for delayed stomach emptying. During the process of digestion, the stomach must contract to empty itself of food and liquid. Normally, it contracts about three times a minute. This empties the stomach within 90-120 minutes after eating. If contractions are sluggish or less frequent, stomach emptying is delayed. This results in bothersome and sometimes serious symptoms, as well as malnutrition, because food is not being digested properly.

Gastroparesis may be caused by various conditions such as diabetes mellitus, certain disorders of the nervous system, or certain drugs. Often however, no cause can be found although a viral infection is suspected in some. Usually, the physician prescribes medication to stimulate the stomach to contract. The purpose of the gastroparesis diet is to reduce symptoms and maintain adequate fluids and nutrition. There are three steps to the diet.



**STEP 1 DIET** consists of liquids, which usually leave the stomach quickly by gravity alone. Liquids prevent dehydration and keep the body supplied with vital salts and minerals.

**STEP 2 DIET** provides additional calories by adding a small amount of dietary fat -- less than 40 gm each day. For patients with gastroparesis, fatty foods and oils should be restricted, because they delay stomach emptying. However, patients at the Step 2 level are usually able to tolerate this amount

**STEP 3 DIET** is designed for long-term maintenance. Fat is limited to 50 gm per day, and fibrous foods are restricted, because many plant fibers cannot be digested.

#### **Nutrition Facts**

The STEP 1 Gastroparesis Diet is inadequate in all nutrients except sodium and potassium. It should not be continued for more than three days without additional nutritional support. STEP 2 and STEP 3 Gastroparesis Diets may be inadequate in Vitamins A and C, and the mineral iron. A multi-vitamin supplement is usually prescribed.

### **Special Considerations**

- 1. Diets must be tailored to the individual patient. This is because the degree of gastroparesis may range from severe and long-standing to mild and easily corrected. Patients may also have various medical conditions to be considered. For example, diabetes patients with gastroparesis are allowed sugar-containing liquids on the Step 1 diet, because that is their only source of carbohydrate. On the Step 2 and Step 3 diets, these patients should avoid concentrated sweets. These are noted with an asterisk (\*) on the food lists.
- 2. On all of the diets, liquids and food should be eaten in small, frequent meals. This helps to maintain nutrition.

Step 1 Food Groups			
Group	Recommend	Avoid	
Milk & milk products	none	all	
Vegetables	none	all	



Fruits	none		all	
Breads & grains	plain saltine crackers	all others		
Meat or meat substitutes	none		all	
Fats & oils	none		all	
Beverages	Gatorade and soft drinks (sinthroughout the day)	oped slowly	all others	
Soups	fat-free consommé and boui	llon	all others	
	Sample Menu S	tep 1		
Breakfast	Lu	ınch	Dinner	
<ul> <li>Gatorade 1/2 cup</li> <li>ginger ale 1/2 cup</li> <li>bouillon 3/4 cup</li> <li>saltine crackers 6</li> </ul>	■ Coke bouille	■ Coke 1/2 cup ■ bouillon 3/4 cup		
This Sample Diet Provides the Following				
Calories	790	Fat	9 gm	
Protein	11 gm	Sodium	3531 mg	
Carbohydrates	156 gm	Potassium	244 mg	
	Step 2 Food Gr	oups		
Group	Recommend	Avoid		
Milk & milk products	skim milk, products made with skim milk, low-fat yogurt, low-fat cheeses whipping), half & half		cts, creams (sour, light, heavy, half	
Soups	fat-free consommé & bouillon, soups made from skim milk, & fat-free broths containing pasta or noodles and allowed vegetables	ps made from soups made with cream, whole milk, or broths containing fat		
Group	Recommend	Avoid		
Meat & meat substitutes	eggs, peanut butter (maximum 2 Tbsp/day)	beef; poultry; fish; pork products; dried beans, pea, & lentils		
Vegetables	vegetable juice (tomato, V-8); well-cooked vegetables skins; beans (green, wax, lima), broccoli,		en, wax, lima), broccoli,	



	beets, carrots, mushrooms, potatoes, spinach, summer squash, strained tomato sauce, yams)	corn, eggplant, onions, peas, peppers, pea pods, sauerkraut, turnips, water chestnuts, zucchini
Fruits	apple juice, cranberry juice, grape juice, pineapple, prune juice, canned fruits without skins (applesauce, peaches, pears)	citrus juices, all fresh and dried fruits, canned fruits with skins (apricots, cherries, blueberries, fruit cocktail, oranges, grapefruit, pineapple, plums, persimmons)
Fats & oils	any type of fat, but only in small amounts	none
Sweets & desserts*	hard candies, caramels, puddings & custards made from skim milk, frozen yogurt, fruit ice, gelatin, ice milk, jelly, honey, syrups	high-fat desserts (cakes, pies, cookies, pastries, ice cream), fruit preserves
Beverages	Gatorade*, soft drinks* (sipped slowly throughout the day)	all others, except allowed juices
*Concentrated sweets		

<sup>\*</sup>Concentrated sweets

Sample Menu Step 2				
Breakfast	ı	unch		Dinner
<ul> <li>skim milk 1/2 cup</li> <li>poached egg 1</li> <li>white toast slice</li> <li>apple juice 1/2 cup</li> </ul>	<ul> <li>mozzarella cheese 2 oz</li> <li>saltine crackers 6</li> <li>chicken noodle soup 3/4 cup</li> <li>Gatorade 1/2 cup</li> </ul>			peanut butter 1 Tbsp saltine crackers 6 vanilla pudding 1/2 cup grape juice 1/2 cup
Morning Snack	Afternoon Snack			Evening Snack
<ul><li>ginger ale 1/2 cup</li><li>canned pears 1/2 cup</li></ul>	<ul><li>skim milk 1/2 cup</li><li>cornflakes 1/2 cup</li><li>sugar 2 tsp</li></ul>			frozen yogurt <i>1/2 cup</i> saltine crackers <i>6</i>
This Sample Diet Provides the Following				
Calories	1343	Fat		35 gm
Protein	52 gm	Sodium		2639 mg
Carbohydrates	206 gm	Potassium		1411 mg

## **Step 3 Food Groups**



Group	Recommend	Avoid
Milk & milk products	skim milk, products made with skim milk, low-fat yogurt, low-fat cheeses	whole milk products, creams (sour, light, heavy, whipping), half & half
Soups	fat-free consommé & bouillon, soups made from skim milk, & fat-free broths containing pasta or noodles and allowed vegetables	soups made with cream, whole milk, or broths containing fat
Fruits	fruit juices, canned fruits without skins (applesauce, peaches, pears)	all fresh & dried fruits, canned fruits with skins (apricots, cherries, plums, blueberries, fruit cocktail, oranges, grapefruit, pineapple, persimmons)
Meat & meat substitutes	eggs, peanut butter (2 Tbsp/day), poultry, fish, lean ground beef	fibrous meats (steaks, roasts, chops), dried beans, peas, lentils
Fats & oils	any type of fat, but only in small amounts	none
Breads & grains	Low fiber breads & cereals, cream of wheat, pasta, white rice, egg noodles, low-fat crackers	oatmeal; whole grain rice, cereal, bread
Vegetables	vegetable juices (tomato V-8), well- cooked vegetables without skins (acorn squash, beets, carrots, mushrooms, potatoes, spinach, summers quash, strained tomato sauce, yams)	all raw vegetables; cooked vegetables with skins: beans (green, wax, lima), broccoli, Brussels sprouts, cabbage, cauliflower, celery, corn, eggplant, onions, peas, peppers, pea pods, sauerkraut, turnips, water chestnuts, zucchini
Sweets & desserts*	hard candies, caramels, puddings & custards made from skim milk, frozen yogurt, fruit ice, gelatin, ice milk, jelly, honey, syrups	high-fat desserts (cakes, pies, cookies, pastries, ice cream), fruit preserves
Beverages	Gatorade*, soft drinks* (sipped slowly throughout the day), coffee, tea, water (note: non-caloric beverages should be limited if patient cannot maintain adequate caloric intake)	all others, except allowed juices
*Concentrated sweets		

<sup>\*</sup>Concentrated sweets

#### Sample Menu Step 3 Lunch Dinner Breakfast baked chicken 2 oz skim milk 1/2 tuna fish 2 oz сир white rice 1/2 cup low-fat mayonnaise 2 Tbsp cream of cooked beets 1/2 cup white bread 2 slices wheat dinner roll 1 1/2 cup canned peaches 1/2 cup skim milk 1/2 cup sugar 2 tsp Gatorade 1.2 cup margarine 2 tsn -------



<ul> <li>1/2 cup</li> <li>white toast 1 slice</li> <li>margarine 1 tsp</li> <li>jelly 1 Tbsp</li> </ul>				
Morning Snack	Afternoon Snack		Evening Snack	
<ul><li>low-fat yogurt 1/2 cup</li><li>Sprite 1/2 cup</li></ul>	<ul><li>chocolate pudding 1/2 cup</li><li>gingerale 1/2 cup</li></ul>		<ul><li>ice milk 1/2 cup</li><li>pretzels 2</li></ul>	
This Sample Diet Provides the Following				
Calories	1822	Fat	42 gm	
Protein	75 gm	Sodium	2234 mg	
Carbohydrates	286 gm	Potassium	2467 mg	