FIBER-ENHANCED DIET

(Sheet 1 of 2)

PURPOSE:

This diet is designed to provide foods containing indigestible fiber as a part of preventive and/or therapeutic nutrition.

DESCRIPTION:

The high fiber diet is based on the basic food groups with a greater emphasis on fiber-rich foods such as fruits, legumes, vegetables, whole-grain breads, and high fiber cereals. The Daily Reference Value for fiber is 25 grams (based on 2000 calorie per day diet). The American Diabetes Association has reported that up to 40 gm fiber daily or 25 gm per 1000 Kcal may be beneficial (National Cancer Institute recommends 25-30 gm).

BASIC INFORMATION:

Dietary fiber is the component found in many foods that cannot be digested by the intestinal tract. Adequate fluid intake is important when following a high fiber diet due to the water binding capacity of fiber. Fiber should be increased in the diet slowly to avoid unpleasant side effects (gas, abdominal bloating, cramps). Dietary fiber can be divided into two separate categories: Water insoluble fiber and water soluble fiber.

Water Insoluble Fiber:

Water insoluble components, such as cellulose, hemicellulose and lignin, remain essentially unchanged during digestion. Foods containing water-insoluble fiber include: fruits, vegetables, cereals, and whole grain products. Research suggests that insoluble fiber may be beneficial in the prevention and/or treatment of constipation and diverticular disease and may decrease the risk of colon cancer.

Water Soluble Fiber:

Water soluble fiber, such as gum, pectin and mucilages, does dissolve in water and is found in oats, beans, barley and some fruits and vegetables. Some studies showed that this type of fiber may improve blood glucose and cholesterol levels.

NUTRITIONAL ADEQUACY:

The high fiber diet is adequate in all nutrients. Some studies indicate that excessive consumption of some high fiber foods may bind and decrease the absorption of the following minerals: calcium, copper, iron, magnesium, selenium and zinc. However, it is theorized that with a varied, well balanced diet, mineral or nutrient imbalances are unlikely to happen in those consuming a high fiber diet.

DIETARY FIBER CONTENT OF FOODS IN COMMONLY SERVED PORTIONS

FOOD							
GROUP	Less than 1 gm	1-1.9 gm	2-2.9 gm	3-3.9 gm	4-4.9 gm	5-5.9 gm	Over 6 gm
Breads	Bagel, white,	Whole-wheat	Bran muffin	None	None	None	None
(1 slice)	French						
Cereals	Rice-Krispies,	Oatmeal,	Wheaties,	Most,	Bran Chex,	Corn Bran	All-Bran,
(1 oz)	Special K,	Nutri-Grain,	Shredded-	Honey-Bran	40% Bran-		Bran Buds,
	Cornflakes	Cheerios	Wheat		Flakes,		100% Bran-
					Raisin-Bran		Fiber
Pasta	None	Macaroni,	None	Whole-	None	None	None
(1 cup)		Spaghetti		Wheat			
				Spaghetti			
Rice	White	Brown	None	None	None	None	None
(1/2 cup)							
Legumes	None	None	None	Lentils	Lima beans,	None	Kidney beans
(1/2 cup)					Dried peas		Baked beans,
cooked							Navy beans

DIETARY FIBER CONTENT OF FOODS

FOOD							
GROUP	Less than 1 gm	1-1.9 gm	2-2.9 gm	3-3.9 gm	4-4.9 gm	5-5.9 gm	> 6 gm
Vegetables	Cucumber,	Asparagus,	Broccoli,	Peas	None	None	None
(1/2 cup)	Lettuce	Green beans,	Brussels				
	(1 cup),	Cabbage,	sprouts,				
	Green pepper	Cauliflower,	Carrots,				
		Potato	Corn,				
		(no skin),	Potato				
		Celery	(with skin),				
			Spinach				
Fruits (1	Grapes (20),	Apricots (3),	Apple	Apple with	None	None	None
medium)	Watermelon	Pineapple	without skin,	skin,			
	(1 cup)	(1/2 cup),	Banana,	Pear with			
		Peach with	Orange	skin,			
		skin, half		Raspberries			
		grapefruit		(1/2 cup)			

SAMPLE MENU

SAMPLE MENO					
Suggested Meal Plan	Suggested Foods and Beverages				
BREAKFAST					
Fruit Juice	Prune Juice				
Cereal	All Bran				
Meat/Meat Substitute	Egg				
Bread - Margarine	Whole Grain Toast & Margarine*				
Milk/Beverage	1% Milk* & Coffee or Tea				
DINNER - NOON OR EVENING MEAL					
Meat/Meat Substitute	Meat Loaf				
Potato/Potato Substitute	Baked Potato				
Vegetable and/or Salad	Lima Beans, Tossed Salad with Dressing				
Bread - Margarine	Rye Bread & Margarine*				
Dessert	Fig Cookie				
Beverage	Coffee or Tea				
SUPPER - EVENING OR NOON MEAL					
Soup or Juice	Lentil Soup				
Meat/Meat Substitute	Baked Chicken				
Vegetable and/or Salad	Banana Squash, Tossed Salad & Dressing				
Bread - Margarine	Rye Bread w/Margarine*				
Dessert	Baked Apple with Cinnamon				
Milk/Beverage	1% Milk* & Coffee or Tea				

^{*}To reduce amount of fat in your diet, omit margarine and use skim milk.

Nutrient Analysis

Calories	1930 Kcal	Riboflavin	2.5 mg
Protein	95 gm	Thiamin	1.7 mg
Carbohydrate	239 gm	Folate	527 mcg
Fat	74 gm	Calcium	992 mg
Cholesterol	474 mg	Phosphorus	1789 mg
Dietary Fiber	32 gm	Zinc	15 mg
Vitamin A	2822 IU	Iron	22 mg
Vitamin C	106 mg	Sodium	3180 mg
Niacin	31 mg	Potassium	4158 mg

Adapted from the Arizona Diet Manual (revised 1992)