## DEPARTMENT OF DEVELOPMENTAL SERVICES STATE OF CALIFORNIA HEALTH AND HUMAN SERVICES AGENCY



## DIET MANUAL

"Building Partnerships, Supporting Choices"

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Revised 2004 & 2009 & 2010

 $^{\circ}$ 2003- State of California Department of Developmental Services. Revised 2004, 2009, and 2010.

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#### ACKNOWLEDGMENT

This diet manual was originally developed in 2003 by a team of dedicated nutritional professionals working under the auspices of the Department of Developmental Services, a State of California Health and Human Services agency. The collaborative efforts of this group have resulted in a simplified manual designed for use by physicians and health care professionals in providing nutrition care to individuals with developmental disabilities.

Revisions have been made in 2004, 2009 and again in 2010 to incorporate the most current medical nutritional therapy practices based on research findings since the development of this manual.

On-going revisions will occur as advancements in medical nutritional therapy continue to be made.

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#### **PREFACE**

The purpose of this diet manual is to establish a common language and practice for physicians and other healthcare professionals to use when providing nutritional care to individuals under the auspices of the Department of Developmental Services, a State of California Health and Human Services agency. Standard use of diet terminology can assist in providing a smooth transition for individuals transferred between developmental centers, or placed in community facilities or group homes.

This manual includes the most current information on diets in accordance with research findings. Nutritional adequacy of the diets is based upon the Dietary Reference Intakes (DRIs) established by The Food and Nutrition Board of the Institute of Medicine. The appendix includes reference materials that are pertinent and/or useful in providing appropriate nutritional care for individuals with developmental disabilities.

This manual has been simplified to include only those diets most routinely ordered. Each diet lists:

- Purpose
- Diet Principles
- Adequacy
- Foods Allowed
- Foods To Avoid
- Meal Pattern to use in menu planning and /or
- Sample Menu for one day (when appropriate)

If you have specific questions regarding any diet or have a need for a diet not listed in this manual, contact a Registered Dietitian.

Like all diet manuals, the information included in this manual is to be used only as a guide. Some individuals may require more or less of certain nutrients. Individualized assessments and care plans are essential in providing optimal nutritional care.

Each facility that uses this manual may want to customize it by adding information that is unique to their operation. For example, a list of enteral nutrition products available at your facility can be inserted in the enteral alimentation section.

California Code of Regulations, Title 22, Chapter 8 requires that "a current therapeutic diet manual be approved by the dietitian and the client care policy committee and shall be readily available to the program, health support, and dietetic personnel. It shall be reviewed annually and revised at least every five years." The manual approval page is to be used to document the required annual review.

#### MANUAL APPROVAL

This diet manual has been reviewed and approved for use at		
By:		
Executive Director/Administrator	Date	
Medical Director	Date	
Director of Dietetics/Registered Dietitian	Date	

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## **GENERAL DIETS**

#### **HOUSE DIET**

<u>PURPOSE</u>: This diet is the "core" diet, which serves as the foundation for all other diet development. The house diet is the medium portion size on the menu.

**<u>DIET PRINCIPLES</u>**: The diet is based on principles found in the USDA My Pyramid Food Guidance System, DASH (Dietary Approaches to Stop Hypertension) Eating Plan, American Cancer Society, American Heart Association and the Food and Nutrition Board of the Institute of Medicine, The National Academies. The diet promotes higher consumption of plant foods, such as whole grains, fruits and vegetables. It includes low-fat dairy products and encourages lower consumption of meats and high-fat foods. The diet is planned to provide variety in food, color, texture and flavor as well as seasonal menu variations.

**ADEQUACY:** This diet meets the Dietary Reference Intakes (DRIs) for most nutrients.

#### **Approximate Composition**

Calories: 2000 - 2500Carbohydrate: 45 - 65% kcal Protein: 15 - 20% kcal Fat: 20 - 30% kcal

**<u>FOODS ALLOWED:</u>** All foods served in the prescribed consistency are allowed in accordance with the diet principles listed above.

**FOODS TO AVOID:** None.

#### **BASIC MENU FRAMEWORK**

#### **HOUSE DIET 2000 – 2500 KCAL**

FOOD GROUP	Servings	Serving Size	Kcal Range
Meat (lean), Poultry, Fish, Dry	6-7 ounces	1 oz. cooked meat	330-385 kcal
Beans, Eggs, & Nuts		or poultry; 1 egg;	
		1/4 cup cooked dry	
		beans or tofu; 1	
		TB. peanut butter	
Grains	6-8 servings	1 slice bread; <sup>3</sup> / <sub>4</sub> -1	480- 640 kcal
Bread, Cereal, Rice, & Pasta		cup ready-to-eat	
( at least ½ of all grains should		cereal; ½ cup	
be whole grains)		cooked cereal,	
		rice or pasta	
Vegetables	5-6 servings	1 cup raw leafy	125-150 kcal
(including dark green or deep		vegetables; ½ cup	
yellow as a source of vitamin A		of other	
at least every other day)		vegetables (raw	
		or cooked); ½- ¾	
		cup vegetable	
		juice	
Fruits	4-5 servings	1 medium apple,	240-300 kcal
(at least 1 should be high in		banana, orange,	
vitamin C)		pear; ½ cup	
		chopped, cooked	
		or canned fruit;	
		½- ¾ cup fruit	
		juice	
Milk, Yogurt, & Cheese	3 servings	1 cup milk or	270 kcal
(low-fat)		yogurt; 1 ½ oz.	
		natural cheese; 2	
		oz. processed	
		cheese	
Fats & Oils	7 servings	1 tsp margarine,	315 kcal
		oil, butter,	
		mayonnaise; 1	
		TB. regular salad	
		dressing	
Discretionary Calorie			240-440 kcal
Allowance*			
Total Calories			2000- 2500 kcal

<sup>\*</sup>Calories remaining after the recommended servings from each food group have been met through the consumption of nutrient dense foods. Calories may come from foods such as jelly, sugar, syrup or dessert.

#### **SMALL DIET**

**PURPOSE:** This diet is indicated for individuals who require a calorie-controlled diet to achieve and/or maintain desirable body weight.

<u>**DIET PRINCIPLES:**</u> The small diet (1000-1500 calories) is based on the house diet and prescribed consistency. Some high calorie foods are omitted. Some desserts are allowed in moderation.

<u>ADEQUACY</u>: The need for vitamin and mineral supplementation should be assessed on an individual basis, as the Dietary Reference Intakes (DRIs) may not be met at the lower calorie level.

**FOODS ALLOWED:** Most foods served on the prescribed consistency are allowed. Portion sizes are reduced to control calories. Non-caloric foods are allowed as desired.

#### FOODS TO AVOID: None.

#### **Approximate Composition**

 Calories:
 1000 – 1500

 Carbohydrate:
 45 – 65% kcal

 Protein:
 15 – 20% kcal

 Fat:
 20 – 30% kcal

#### **BASIC MENU FRAMEWORK**

#### **SMALL DIET 1000 – 1500 KCAL**

FOOD GROUP	Servings	Serving Size	Kcal Range
Meat (lean), Poultry, Fish, Dry Beans, Eggs, & Nuts	4 – 5 ounces	1 oz. cooked meat or poultry; 1 egg; ½ cup cooked dry beans or tofu; 1 TB.	220 – 275 kcal
Grains Bread, Cereal, Rice, & Pasta ( at least ½ of all grains should be whole grains)	3 – 5 servings	peanut butter  1 slice bread; ¾-1 cup ready-to-eat cereal; ½ cup cooked cereal, rice or pasta	240 – 400 kcal
Vegetables (including dark green or deep yellow as a source of vitamin A at least every other day)	3 – 4 servings	1 cup raw leafy vegetables; ½ cup of other vegetables (raw or cooked); ½- ¾ cup vegetable juice	75 – 100 kcal
Fruits (at least 1 should be high in vitamin C)	3 servings	1 medium apple, banana, orange, pear; ½ cup chopped, cooked or canned fruit; ½- ¾ cup fruit juice	180 kcal
Milk, Yogurt, & Cheese (low-fat)	2-3 servings	1 cup milk or yogurt; 1 ½ oz. natural cheese; 2 oz. processed cheese	180 – 270 kcal
Fats & Oils	2-5 serving	1 tsp margarine, oil, butter, mayonnaise; 1 TB. regular salad dressing	90-225 kcal
Discretionary Calories*			15-50 kcal
Total Calories			1000 – 1500 kcal

<sup>\*</sup>Calories remaining after the recommended servings from each food group have been met through the consumption of nutrient dense foods. Calories may come from foods such as jelly, sugar, syrup or dessert.

#### **SMALL PLUS DIET**

<u>PURPOSE</u>: This diet is indicated for individuals of large stature who require a caloric-controlled diet to achieve and/or maintain desirable body weight.

**<u>DIET PRINCIPLES</u>**: The small plus diet (1500 - 2000 calories) follows the principles of the house and small diets and prescribed consistency. The diet is designed to provide a calorie level that is between the house and small diet. Some high calorie foods are omitted. Some high calorie desserts are allowed in moderation.

<u>ADEQUACY</u>: The need for vitamin and mineral supplementation should be assessed on an individual basis, as the Dietary Reference Intake (DRIs) may not be met at a calorie level that is less than 2000 calories.

#### **Approximate Composition**

 Calories:
 1500 – 2000

 Carbohydrates:
 45 – 65% kcal

 Protein:
 15 – 20% kcal

 Fat:
 20 – 30% kcal

<u>FOODS ALLOWED</u>: Most foods served on the prescribed consistency are allowed in accordance with the house and small diet principles. Portion sizes are reduced to control calorie intake. Non-caloric foods are allowed as desired.

FOODS TO AVOID: None

#### **BASIC MENU FRAMEWORK**

#### Small Plus Diet 1500 – 2000 KCAL

FOOD GROUP	Servings	Serving Size	Kcal Range
Meat (lean), Poultry, Fish, Dry	5 – 6 ounces	1 oz cooked meat or	275 – 330 kcal
Beans, Eggs, & Nuts		poultry, 1 egg; ½ cup	
		cooked dry beans or	
		tofu; 1 TB peanut	
		butter	
Grains	5 – 6 servings	1 slice bread; <sup>3</sup> / <sub>4</sub> -1	400-480 kcal
Bread, Cereal, Rice, & Pasta		cup ready-to-eat	
( at least ½ of all grains should		cereal; ½ cup cooked	
be whole grains)		cereal, rice or pasta	
Vegetables	4-5 servings	1 cup raw leafy	100-125 kcal
(including dark green or deep		vegetables; ½ cup of	
yellow as a source of vitamin		other vegetables	
A at least every other day)		(raw or cooked); ½-	
		3/4 cup vegetable	
		juice	
Fruits	3-4 servings	1 medium apple,	180-240 kcal
(at least 1 should be high in		banana, orange, pear;	
vitamin C)		½ cup chopped,	
		cooked, or canned	
		fruit; ½-3/4 cup fruit	
		juice	
Milk, Yogurt, & Cheese	3 servings	1 cup milk or yogurt;	270 – 360 kcal
( low-fat)		1 ½ oz natural	
		cheese; 2 oz	
		processed cheese	
Fats & Oils	5-7 servings	1 tsp margarine, oil,	225 – 315 kcal
		butter, mayonnaise;	
		1 TB regular salad	
		dressing	
Discretionary Calorie			50 – 150 kcal
Allowance*			
Total Calories			1500 – 2000 kcal

<sup>\*</sup>Calories remaining after the recommended servings from each food group have been met through the consumption of nutrient dense foods. Calories may come from foods such as jelly, sugar, syrup or dessert.

#### **LARGE DIET**

**PURPOSE:** This diet is indicated for individuals who require additional calories beyond those provided by the house diet to achieve and/or maintain desirable body weight. The portion sizes of the house diet may be multiplied or beverages may be fortified to increase calories.

<u>**DIET PRINCIPLES:**</u> This diet is based on the house diet and prescribed consistency with additional calories provided by increasing the volume/enriching entrees, starches and beverages.

**ADEQUACY:** This diet meets the Dietary Reference Intakes (DRIs) for most nutrients.

#### **Approximate Composition**

Calories	3000 - 3500
Carbohydrate	45 - 65% kcal
Protein	15 - 20% kcal
Fat	20 - 30% kcal

**FOODS ALLOWED:** All foods served in the prescribed consistency are allowed.

**FOODS TO AVOID:** None

#### **BASIC MENU FRAMEWORK**

#### **LARGE DIET 3000 – 3500 KCAL**

FOOD GROUP	Servings	Serving Size	Kcal Range
Meat (lean), Poultry, Fish, Dry	10 – 11 ounces	1 oz. cooked meat	550 – 605 kcal
Beans, Eggs, & Nuts		or poultry; 1 egg;	
		1/4 cup cooked dry	
		beans or tofu; 1	
		TB. peanut butter	
Grains	12 - 14 servings	1 slice bread; <sup>3</sup> / <sub>4</sub> -1	960 – 1120 kcal
Bread, Cereal, Rice, & Pasta		cup ready-to-eat	
( at least ½ of all grains should		cereal; ½ cup	
be whole grains)		cooked cereal,	
		rice or pasta	
Vegetables	6 servings	1 cup raw leafy	150 kcal
(including dark green or deep		vegetables; ½ cup	
yellow as a source of vitamin A		of other	
at least every other day)		vegetables (raw	
		or cooked); ½- ¾	
		cup vegetable	
		juice	
Fruits	6 servings	1 medium apple,	360 kcal
(at least 1 should be high in		banana, orange,	
vitamin C)		pear; ½ cup	
		chopped, cooked	
		or canned fruit;	
		½-¾ cup fruit	
		juice	
Milk, Yogurt, & Cheese	3 servings	1 cup milk or	270 kcal
(low-fat)		yogurt; $1 \frac{1}{2}$ oz.	
		natural cheese; 2	
		oz. processed	
		cheese	
Fats & Oils	7-10 servings	1 tsp margarine,	315-450 kcal
		oil, butter,	
		mayonnaise; 1	
		TB. regular salad	
		dressing	
Discretionary Calorie			395 – 545 kcal
Allowance*			
Total Calories			3000 – 3500 kcal

<sup>\*</sup>Calories remaining after the recommended servings from each food group have been met through the consumption of nutrient dense foods. Calories may come from foods such as jelly, sugar, syrup or dessert.

#### **EXTRA LARGE DIET**

**PURPOSE:** This diet is indicated for individuals who require additional calories beyond those provided by the large diet to achieve/maintain desirable body weight. The portion sizes of the large diet may be further multiplied and beverages fortified to increase calories.

<u>**DIET PRINCIPLES:**</u> This diet is based on the large diet and prescribed consistency with additional calories provided by increasing the volume/enriching entrees, starches and beverages.

**ADEQUACY:** This diet meets the Dietary Reference Intakes (DRIs) for most nutrients.

#### **Approximate Composition**

Calories	4000 - 4500
Carbohydrate	45 - 65%
Protein	15 - 20%
Fat	20 - 30%

**FOODS ALLOWED:** All foods served in the prescribed consistency are allowed.

FOODS TO AVOID: None

#### **BASIC MENU FRAMEWORK**

#### EXTRA LARGE DIET 4000 – 4500 KCAL

FOOD GROUP	Servings	Serving Size	Kcal Range
Meat (lean), Poultry, Fish, Dry Beans, Eggs, & Nuts	13 – 14 ounces	1 oz. cooked meat or poultry; 1 egg; ¼ cup cooked dry beans or tofu; 1TB. peanut butter	715 – 770 kcal
Grains Bread, Cereal, Rice, & Pasta (at least ½ of all grains should be whole grains)	15 – 17 servings	1 slice bread; ¾- 1 cup ready-to- eat cereal; ½ cup cooked cereal, rice or pasta	1200 – 1360 kcal
Vegetables (including dark green or deep yellow as a source of vitamin A at least every other day)	9 servings	1 cup raw leafy vegetables; ½ cup of other vegetables (raw or cooked); ½- ¾ cup vegetable juice	225 kcal
Fruits (at least 1 should be high in vitamin C)	9 servings	1 medium apple, banana, orange, pear; ½ cup chopped, cooked or canned fruit; ½-¾ cup fruit juice	540 kcal
Milk, Yogurt, & Cheese (low-fat)	3 servings	1 cup milk or yogurt; 1 ½ oz. natural cheese; 2 oz. processed cheese	270 kcal
Fats & Oils	10 -12 servings	1 tsp margarine, oil, butter, mayonnaise; 1 TB. regular salad dressing	450-540 kcal
Discretionary Calorie Allowance*			600 – 795 kcal
Total Calories			4000 – 4500 kcal

<sup>\*</sup>Calories remaining after the recommended servings from each food group have been met through the consumption of nutrient dense foods. Calories may come from foods such as jelly, sugar, syrup or dessert.

# TEXTURE MODIFICATIONS OF HOUSE DIET

#### **REGULAR TEXTURE**

**PURPOSE:** This diet is for persons who require no food consistency modifications.

<u>**DIET PRINCIPLES:**</u> No modifications are required. This diet texture can apply to any portion size or therapeutic diet.

**ADEQUACY:** This diet meets the Dietary Reference Intakes (DRIs) for most nutrients.

**FOODS ALLOWED:** All foods are allowed.

**FOODS TO AVOID:** None.

#### REGULAR TEXTURE SAMPLE MENU

BREAKFAST	<u>LUNCH</u>	<u>DINNER</u>
Orange Juice	Spaghetti with Meatballs	Baked Chicken Breast
Dry Cereal	Tossed Lettuce Salad with	Steamed Potatoes with Gravy
Scrambled Eggs	Dressing	Broccoli
Toast	Garlic Bread	Cherry Crisp
Margarine	Fruit Cup	Bread
Milk	Milk	Margarine
Coffee	Condiments	Milk
Condiments		Condiments

#### **CHOPPED TEXTURE**

**<u>PURPOSE</u>**: This diet is for persons who have difficulty chewing some regular foods or have difficulty cutting up foods.

**<u>DIET PRINCIPLES</u>**: Some foods are modified by dicing, chopping or cutting into bite-sized pieces as tolerated. Most meats are cubed and raw vegetables and hard fruits are finely diced. This diet texture can be applied to any portion size or therapeutic diet.

**ADEQUACY:** This diet meets the Dietary Reference Intakes (DRIs) for most nutrients.

FOODS FOR THE DAY	EXAMPLES OF FOODS ALLOWED	EXAMPLES OF FOODS TO AVOID
MILK & MILK PRODUCTS	Milk, cottage cheese, sliced cheese.	None
MEAT OR SUBSTITUTE	Cubed meat and poultry, whole fish, tender sliced lunchmeat and cheese, eggs, *Peanut Butter, cooked dried beans and peas.	All others
BREADS, CEREALS, PASTA & RICE	Whole grain, enriched bread, cereals, crackers, pasta, or rice.	None
VEGETABLES	Cubed cooked vegetables, shredded lettuce, vegetable juice, finely diced raw carrots and celery. White or sweet potato.	Whole raw vegetable salads, whole raw carrots and celery.
FRUITS	May be fresh, canned, or frozen, served whole (except apples), diced, or as juice. Soft fresh fruit as tolerated.	Whole fresh apples. Whole hard fresh fruit.
FATS	Margarine, butter, salad oil, mayonnaise.	
DISCRETIONARY CALORIES	Puddings, ice cream, sherbet, cakes, cookies, gelatin, pastries, pie, sugar, jelly, salt, herbs and spices, flavorings, pepper.	None

<sup>\*</sup> Peanut Butter mixed with honey or jelly and margarine (to soften).

#### CHOPPED TEXTURE SAMPLE MENU

<b>BREAKFAST</b>	<u>LUNCH</u>	DINNER	
Orange Juice	Minced Spaghetti with Cubed	Cubed Baked Chicken Breast	
Dry Cereal	Meatballs	with Gravy	
Scrambled Eggs	Shredded Lettuce Salad with	Steamed Potatoes with Gravy	
Toast	Dressing	Diced Broccoli	
Margarine	Garlic Bread	Cherry Crisp	
Milk	Diced Fruit Cup	Bread	
Coffee	Milk	Margarine	
Condiments	Condiments	Milk	
		Condiments	

#### **GROUND TEXTURE**

**<u>PURPOSE</u>**: This diet is for persons who have difficulty chewing and/or swallowing. It is intended to minimize the need for chewing and to ease swallowing.

**<u>DIET PRINCIPLES</u>**: Foods are finely minced or ground, and moistened. Foods that are fork-mashable are included. This diet texture can be applied to any portion size or therapeutic diet.

**ADEQUACY:** This diet meets the Dietary Reference Intakes (DRIs) for most nutrients

FOODS FOR THE	EXAMPLES OF FOOD ALLOWED	EXAMPLES OF
<u>DAY</u>		FOODS TO AVOID
MILK & MILK PRODUCTS	Yogurt, cottage cheese, custard, cheese spread (ground).	String cheese or other cheese larger than diced.
MEAT OR SUBSTITUTE	Moistened ground meats, ground dried beans. Meat salads made with ground meat and vegetables. Scrambled eggs. Soft tofu.	Unmoistened meats, whole hamburger patty, cold cuts, whole hard cooked egg.
BREADS, CEREALS, PASTA, & RICE	Soft, moist bread products such as moistened breadcrumbs or bread pudding. Cooked cereals (oatmeal, farina, malt-o-meal).  Moistened rice and small chopped pasta.	Bread with: seeds, nuts, dry fruits, unsoaked crackers, gold fish crackers, teddy grahams, dry cereal, coarse whole grain cereals not softened by soaking.
<u>VEGETABLES</u>	Minced or ground tomatoes, peas, beets, lima beans, creamed or pureed corn, kidney beans, spinach, gelled vegetable salads.  Mashed potatoes, ground tater tots, minced potato salad, tender steamed potatoes that can be mashed with a fork.	Raw crunchy vegetables without sauce or dressing. Potato chips, whole french fries.
FRUITS	Ground or minced baked apples, ripe banana, peaches, crushed pineapple, canned/cooked fruit, applesauce, pureed raisins, fruit cocktail, blueberries, strawberries.  Pineapple sauce and pureed bananas can be used if crushed pineapple and minced bananas are not tolerated.	Raw and crunchy fruit, fruit roll-ups, dried fruit, coconut.
FATS DISCRETIONARY CALORIES	Margarine, butter, salad oil, mayonnaise.  Moistened soft cookies, cubed cake.	Seeds, unmoistened cookies, plain peanut butter.

#### GROUND TEXTURE SAMPLE MENU

<u>BREAKFAST</u>	<u>LUNCH</u>	<u>DINNER</u>
Orange Juice	Minced Spaghetti with Ground	Ground Baked Chicken Breast
Cooked Cereal	Meatballs	With Gravy
Scrambled Eggs	Ground Lettuce Salad with	Steamed Potatoes with Gravy
Moistened Breadcrumbs	Dressing	Ground Broccoli
Margarine	Moistened Garlic Breadcrumbs	Ground Cherry Crisp
Milk	Ground Fruit Cup	Moistened Breadcrumbs
Coffee	Milk	Margarine
Condiments	Condiments	Milk
		Condiments

#### **PUREED TEXTURE**

<u>**PURPOSE:**</u> This diet is for persons who have chewing or swallowing problems and may not safely handle a ground texture.

**<u>DIET PRINCIPLES</u>**: Foods are pureed to smooth consistency unless already in a comparatively smooth form such as mashed potatoes. This texture can be applied to any diet portion size or therapeutic diet.

**ADEQUACY:** This diet meets the Dietary Reference Intakes (DRIs) for most nutrients.

FOODS FOR THE DAY	EXAMPLES OF FOOD ALLOWED	EXAMPLES OF FOODS TO AVOID
MILK & MILK PRODUCTS	Yogurt, pureed cottage cheese, custard, ice cream.	Hard and semi-hard cheeses used alone.
MEAT OR SUBSTITUTE	Pureed meat, poultry, fish, eggs, cooked dried beans. Soft tofu.	All others.
BREADS, CEREAL, PASTA, & RICE	Moistened bread crumbs or pureed baked bread pudding. Cooked cereals (pureed oatmeal, farina, malt-o-meal). Moistened pureed rice or rice cereal, pureed pasta.	All others. Dry cereal, coarse whole grain cereals not softened by soaking.
<u>VEGETABLES</u>	Pureed: tomatoes, peas, beets, lima beans, pureed creamed corn, kidney beans, spinach, pureed gelled vegetable salads, mashed potatoes, pureed tater tots, and pureed potato salads.	Whole creamed corn. All other potato products.
FRUITS	Pureed: baked apples, banana, peaches, pineapple sauce, canned/cooked fruit, raisins, fruit cocktail, blueberries, strawberries and applesauce.	Raw and crunchy fruit, fruit roll-ups, dried fruit, coconut.
FATS DISCRETIONARY CALORIES	Margarine, butter, salad oil, mayonnaise.  Pureed soft cookies or cake, ice cream, pudding.	Seeds, unmoistened cookies, peanut butter (by itself).

#### PUREED TEXTURE SAMPLE MENU

BREAKFAST	<u>LUNCH</u>	<u>DINNER</u>
Orange Juice	Pureed Spaghetti with Pureed	Pureed Baked Chicken Breast
Pureed Cooked Refined Cereal	Meatballs	with Gravy
Pureed Scrambled Eggs	Pureed Lettuce Salad with	Mashed Potatoes with Gravy
Pureed Bread Pudding	Dressing	Pureed Broccoli
Milk	Pureed Garlic Bread Bake	Pureed Cherry Crisp
Coffee	Pureed Fruit Cup	Pureed Bread Pudding
Condiments	Milk	Milk
	Condiments	Condiments

#### **FINGER FOODS**

**<u>PURPOSE</u>**: This diet is appropriate for persons who exhibit a desire to eat with their fingers despite training to develop hand movements to utilize utensils.

**<u>DIET PRINCIPLES</u>**: All foods offered on this diet must be must be given in a form that a person can easily handle with their fingers, without risk of spilling much of the food. This diet modification can apply to persons on regular or chopped textures, any portion size, general or therapeutic diet.

**ADEQUACY:** This diet meets the Dietary Reference Intakes (DRIs) for most nutrients.

**FOODS ALLOWED:** All foods that a person can easily handle with their fingers without risk of spilling much of the food. Foods that can be placed in a mug or glass to drink.

**<u>FOODS TO AVOID</u>**: Any small foods that may be hard to pick up due to dexterity problems (corn, peas, rice, etc.). Any slippery foods that may be difficult to pick up due to dexterity problems (noodles in sauce, fruits in heavy syrup, macaroni in cheese sauce, etc.).

#### **FINGER FOODS SAMPLE MENU**

BREAKFAST	<u>BREAKFAST</u> <u>LUNCH</u>	
Orange Juice	Meatballs Cut in Half	Baked Chicken Breast Strips
Dry Cereal	Vegetable Sticks with Dressing	Steamed Potatoes Wedges with
Scrambled Egg Sandwich	for Dipping	Gravy for Dipping
Milk	Garlic Bread	Broccoli Spears
Coffee	Sliced Fruit	Cherry Cake cut in cubes
Condiments	Milk	Bread
	Condiments	Margarine
		Milk
		Condiments

## **CLEAR LIQUID DIET**

#### **CLEAR LIQUID DIET**

<u>PURPOSE</u>: This diet is for persons requiring a source of fluids with calories and electrolytes during acute stages of many illnesses, especially those with elevated temperatures, in acute inflammatory condition of gastro-intestinal tract, post-operative and in conditions when it is necessary to minimize the amount of fecal material in the colon.

**<u>DIET PRINCIPLES</u>**: Clear fluids, or foods which are liquid upon reaching the stomach (i.e. gelatin) provide calories, electrolytes and fluids without stimulating extensive digestive processes, prevent dehydration and reduce colonic residue to a minimum.

<u>ADEQUACY</u>: This diet is inadequate in most nutrients when compared with the Dietary Reference Intakes (DRIs) and should be used for only a short period of time (24-48 hrs.)

Fortified clear liquid replacement, a lactose, cholesterol, gluten and fat-free oral supplement can be provided. Three servings of fortified clear liquid replacement provide more than one third of the DRIs for protein and all known essential vitamins and minerals.

**FOODS ALLOWED:** Apple, cranberry or grape juice, clear broth, gelatin or gelatin water, sugar, coffee or tea and fortified clear liquid replacement.

**FOODS TO AVOID:** All others.

#### **CLEAR LIQUID DIET SAMPLE MENU**

BREAKFAST	<u>LUNCH</u>	DINNER
8 oz. Broth	8 oz. Broth	8 oz. Broth
6 oz. Apple Juice	6 oz. Apple Juice	6 oz. Apple Juice
4 oz. Flavored Gelatin/	4 oz. Flavored Gelatin/	4 oz. Flavored Gelatin/
8 oz. Gelatin Water	8 oz. Gelatin Water	8 oz. Gelatin Water
Tea, Coffee	Tea, Coffee	Tea, Coffee
8 oz. Fortified Clear Liquid	8 oz Fortified Clear Liquid	8 oz. Fortified Clear Liquid
Replacement	Replacement	Replacement
Sugar	Sugar	Sugar

#### CLEAR LIQUID DIET - MILK ALLERGY SAMPLE MENU

BREAKFAST	<u>LUNCH</u>	<u>DINNER</u>
8 oz. Broth	8 oz. Broth	8 oz. Broth
6 oz. Apple Juice	6 oz. Apple Juice	6 oz. Apple Juice
4 oz. Gelatin/	4 oz. Gelatin/	4 oz. Gelatin/
8 oz. Gelatin Water	8 oz. Gelatin Water	8 oz. Gelatin Water
Tea, Coffee	Tea, Coffee	Tea, Coffee
Sugar	Sugar	Sugar

#### **FULL LIQUID DIET**

<u>PURPOSE</u>: This diet is prescribed post-operative; for the person having difficulty chewing, swallowing, or digesting solid food; and may follow a clear liquid diet in the progression to solid food.

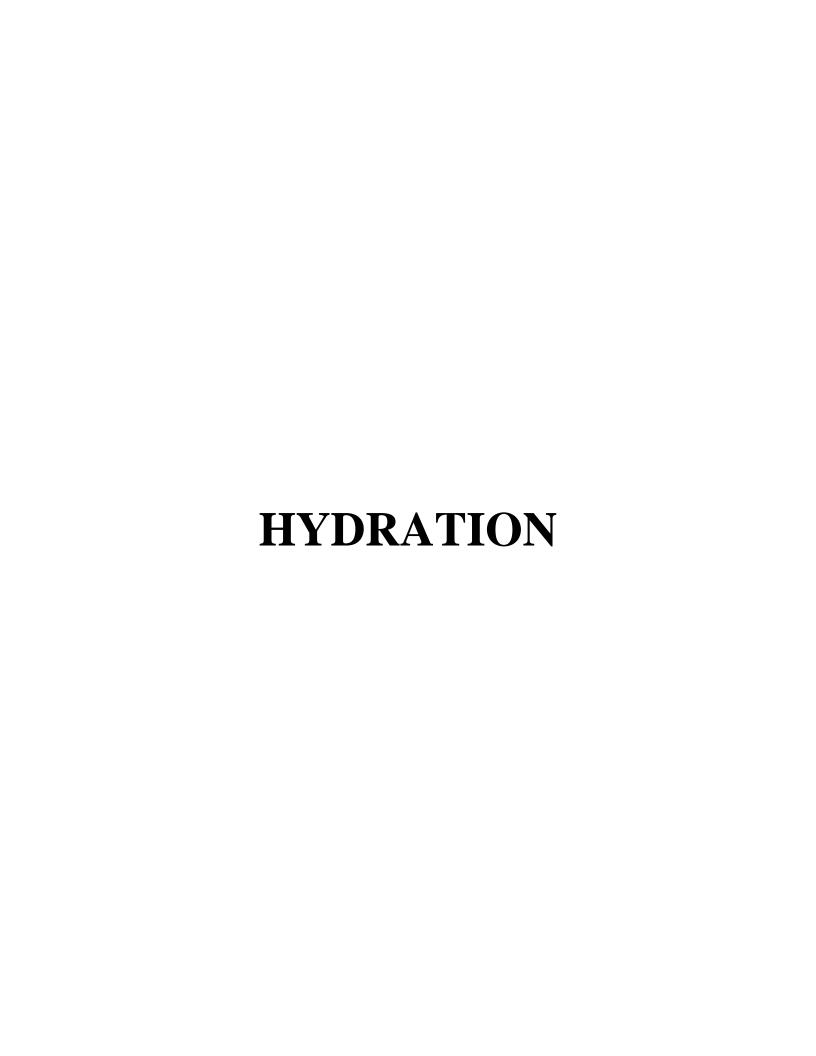
<u>DIET PRINCIPLES</u>: The full liquid diet includes milk-based foods that are liquid at room temperature. If the person exhibits symptoms of lactose intolerance, the medical staff should indicate a lactose restriction on the diet order. The diet will then be modified to reduce the amount of dairy products. Because the diet is high in simple carbohydrates, it may need to be adjusted for persons with diabetes or hypoglycemia.

**ADEQUACY:** This diet is inadequate in most nutrients when compared with the Dietary Reference Intakes (DRIs) and should be used for only a short period of time (24-72 hrs.)

<u>CONTRADICTIONS:</u> According to the American Dietetic Association's 2010 Nutrition Care Manual there is "no data supporting the use of a full liquid diet as part of a postoperative diet progression. The trend toward early postoperative discharge has rendered elaborate postoperative diet regimens impractical therefore the full liquid diet is no longer widely advocated or used. For patients with chewing or swallowing difficulties that may benefit from a liquid diet, dysphagia diets are recommended."

**FOODS ALLOWED:** All foods on clear liquid diet with the addition of thin cereal or gruel, strained cream soups, milkshakes, custard, puddings, and juices or nectars that contain pulp.

**FOODS TO AVOID:** All others.



#### **HYDRATION**

**<u>PURPOSE</u>**: Adequate hydration is essential for life. It is necessary to regulate body temperature, transport nutrients, moisten body tissues, comprise body fluids, and make waste products soluble for excretion.

<u>DIET PRINCIPLES</u>: As the most plentiful substance in the human body, water is also the most plentiful nutrient in the diet. The amount of water recommended for an individual varies with age, activity, medical condition, and physical condition. The water in juice, iced tea, milk, decaffeinated coffee, and other beverages contributes the majority of water in the diet. Solid foods also contribute water to the diet, but are not usually counted in the amount of water provided per day.

Water deficiency, or dehydration, is characterized by dark urine, decreased skin turgor, dry mouth, lips, and mucous membranes, headache, a coated wrinkled tongue, dry or sunken eyes, weight loss, a lowered body temperature and increased serum sodium, albumin, blood urea nitrogen (BUN), and creatinine values. Thirst is often the first sign of the need for more hydration. Dehydration may be caused by inadequate intake in relation to fluid requirements or excessive fluid losses due to fever, increased urine output, diarrhea, draining wounds, ostomy output, fistulas, environmental temperature, or vomiting. Concentrated or high protein tube feeding formulas may increase the water requirement.

Water excess or over hydration is rare and may be the result of inadequate output or excessive intake. Over hydration is characterized by increased blood pressure, decreased pulse rate, edema, and decreased serum sodium, potassium, albumin, BUN, and creatinine values. Fluid restrictions may be necessary for certain medical conditions such as kidney or cardiac disease. For those on fluid restrictions, the Registered Dietitian must calculate fluid needs on an individual basis.

**ADEQUACY:** The house diet provides about 1080 ml (36 oz.) of fluid per day.

#### APPROXIMATE FLUID CONTENT OF COMMON FOODS

FOOD	FLUID OUNCES	HOUSEHOLD	METRIC
		MEASURE	MEASURE
Juice	2	½ cup	60 ml
	3	¹⁄₃ cup	90 ml
	4	½ cup	120 ml
	8	1 cup	240 ml
Coffee, Tea,	6	²⁄₃ cup	180 ml
Decaffeinated coffee			
Gelatin	4	½ cup	120 ml
Ice Cream, Sherbet	3	¹/₃ cup	90 ml
Soup	6	²⁄₃ cup	180 ml
Liquid Coffee	1	2 TB.	30 ml
Creamer			

#### ESTIMATING DAILY FLUID REQUIREMENTS FOR HEALTHY INDIVIDUALS

#### **CHILDREN**

Infants: 140 to 150 ml/kg

Children: Method 1: 50 to 60 ml/kg

Method 2: 3 to 10 kg body weight: 100 ml/kg

11 to 20 kg body weight: 1000 ml + 50 ml/kg > 10More than 20 kg: 1500 ml + 20 ml/kg > 20

#### **ADULTS\*\***

Method 1: 30 to 35 ml per weight in kilograms

Method 2: 1 ml fluid per calorie consumed

Method 3: 100 ml/kg for first 10 Kg body weight

+ 50 ml/kg for second 10 Kg body weight

+ 20 ml/kg for remaining kg body weight (age < 50) + 15 ml/kg for remaining Kg body weight (age > 50)

Method 4: Age in years:

16 – 30 (active) 40 ml/kg 20 – 55 35 ml/kg 55 to 75 30 ml/kg >75 25 ml/kg

- 1. American Dietetic Association: *Manual of Clinical Dietetics*. 6<sup>th</sup> ed. Chicago, IL: Chicago Dietetic Association, South Suburban Dietetic Association, Dietitians of Canada; 2000.
- 2. Food and Nutrition Board: *Recommended Dietary Allowances*. 10<sup>th</sup> ed. Washington, DC: National Academy Press; 1989.
- 3. Heird WC. *Nutritional Requirements During Infancy*. In: Shils ME, Olson JA, Shike MA, eds. Modern Nutrition in Health & Disease, 9<sup>th</sup> ed. Philadelphia, PA: Lippincott Williams & Wilkins; 1999.
- 4. Schwenk WF, Olson D. *Pediatrics*. In: Gottschlich MM ed. The Science and Practice of Nutrition Support. Dubuque, IA: Kendall/Hunt Publishing; 2001.
- 5. Whitmire SJ. *Fluid and Electrolytes*. In: Gottschlich MM ed. The Science and Practice of Nutrition Support. Dubuque, IA: Kendall/Hunt Publishing; 2001.

<sup>\*\*</sup>The 1 ml per calorie method should be used with caution, as it will underestimate the fluid needs of those with low calorie needs. Persons who are significantly obese may best be evaluated by method 3, because it adjusts for high weight.

References:

#### THICKENED LIQUID DIET

**<u>PURPOSE</u>**: To provide liquids that allow for safe swallowing, minimize the risk of choking and aspiration, and facilitate drinking liquids to support hydration and independence.

**<u>DIET PRINCIPLES</u>:** Thickened liquids are indicated for individuals who have dysphagia, a swallowing disorder characterized by abnormality in the transfer of a liquid or food bolus from the mouth to the stomach. Dysphagic symptoms may include poor bolus control associated with a delayed or premature swallow, pharyngeal residuals, and choking or coughing associated with airway penetration.

When an individual exhibits symptoms of dysphagia, they are evaluated by an occupational therapist and/or speech pathologist, per physician's order, to determine swallowing ability and appropriate liquid consistency.

More detailed information about thickened liquids can be found in The American Dietetic Association's *National Dysphagia Diet: Standardization for Optimal Care*.

<u>ADEQUACY</u>: In designing a meal plan that includes thickened liquids, particular attention is given to assuring adequacy of hydration and vitamin/mineral intake. A Registered Dietitian should review all individuals on a thickened liquid diet.

#### LIQUID CONSISTENCIES AVAILABLE

**THIN LIQUIDS:** Water, coffee, tea, all fruit juices, punch, broth, soup, milk, fortified drink, liquid supplements, gelatin, milkshakes, ice, ice cream, and sherbet are also considered thin liquids, as they quickly take this form when melting.

<u>THICKENED LIQUIDS</u> are available in three levels: nectar-like, honey-like and spoonthick consistency. All orders for thickened liquids should include the following: "<u>No gelatin</u>, ice cream, or sherbet," unless otherwise specified.

- ❖ <u>NECTAR-LIKE CONSISTENCY</u>: Coats a spoon and falls in small droplets. Commercially prepared pre-thickened fruit juice, punch, diet punch, milk, fortified drink, coffee and iced tea. Other thin liquids are to be thickened to nectar/syrup consistency by trained staff using instant food thickener.
- ❖ <u>HONEY-LIKE CONSISTENCY</u>: Drips from a spoon in small clumps. Commercially prepared pre-thickened fruit juice, punch, diet punch, milk, fortified drink, coffee and iced tea. Other thin liquids are to be thickened to honey consistency by trained staff using instant food thickener.
- ❖ **SPOON-THICK CONSISTENCY:** Falls from a spoon in large clumps; a spoon will stand up in thickened liquid for a few seconds before falling to side. Thin liquids are to be thickened to pudding consistency by trained staff using instant food thickener.

#### **FLUID RESTRICTION DIET**

**PURPOSE:** This diet is designed to prevent fluid retention in the body. It may be ordered for individuals with congestive heart failure, hypertension, acute renal failure, chronic renal failure and patients with ascites or edema. This diet may be used in combination with a Sodium Controlled diet or any other therapeutic diet as per the physician's prescription.

**DIET PRINCIPLES:** The diet order specifies the daily fluid allowance in milliliters (ml). All fluids are measured. All foods such as ice cream, sherbet, gelatin, fruit ice, popsicle and juice bars, which liquefy at room temperature, are also measured. Use of standard measuring cups or spoons is necessary. Any additional fluids added to cereal, breadcrumbs, health shake or milk shakes are measured. Canned foods should be drained.

**ADEQUACY:** This diet meets the Dietary Reference Intakes (DRIs) for most nutrients.

**FOODS ALLOWED:** Most solid foods are permitted. Liquid food items are allowed in limited amounts, foods that liquefy at room temperature are given in limited amounts. Water used for the taking of medications should be counted in the total amount of fluid intake for the day. Medications can also be taken with applesauce or gelatin.

**FOODS TO AVOID:** All liquids in excess of the amount of fluids prescribed by the physician. The following sample menu provides 960 ml of liquid per 24 hours. An additional 240 ml of water can be given with medications, for a total of 1200 ml of fluid/day.

### FLUID RESTRICTION DIET SAMPLE MENU

BREAKFAST	<u>LUNCH</u>	<u>DINNER</u>
½ c. Orange Sections	3 oz. Meat Balls	3 oz. Baked Chicken
(drained)	6 oz. Spaghetti	with Gravy
<sup>3</sup> / <sub>4</sub> Cold Cereal	4 oz. Tossed Lettuce	4 oz. Steamed Potato
1 svg. Scrambled Egg	Salad w/Dressing	with Gravy
1 sl. Toast	1 sl. Garlic Bread	4 oz. Broccoli
1 tsp. Margarine	1 Fruit Cup (drained)	1 svg. Cherry Crisp
1 tsp. Jelly	8 oz. Fruit Punch	1 sl. Bread
8 oz. Milk		1 tsp. Margarine
8 oz. Coffee		8 oz. Milk

**Note:** Refer to Hydration section of this manual for "Approximate Fluid Content of Foods".

#### TIPS FOR RESTRICTING FLUID INTAKE

- 1. Encourage the individual to drink according to thirst. If high sodium foods are avoided, the individual will be less thirsty.
- 2. Drinking for habit or to be social is discouraged.
- 3. Provide the most nutrition from allowed liquids. Give up coffee, tea, soft drinks, and alcoholic beverages, before milk, soup, and juices.
- 4. Offer allowed fruits and vegetables (ice cold) between meals.
- 5. A slice of lemon will help moisten a dry mouth. Sour hard candies or chewing gum can also help.
- 6. Recommend to the individual to rinse his/her mouth with water but don't swallow it.
- 7. Take medications with mealtime liquids, especially phosphate binders.
- 8. Offer some lemon juice in ice cubes—you'll use fewer. Use about ½ lemon per tray of water. Lemonade can be frozen into individual Popsicles in an ice cube tray.
- 9. Measure daily ice allowance and store in a special container in the freezer. Most people find ice more satisfying than water since it stays in the mouth longer.
- 10. Use very small cups and glasses for beverages.
- 11. Remember, a pint (480 ml.) of retained fluid will equal one pound (.45 kg.) of fluid weight gain.
- 12. If the individual is thirsty, try offering something like bread and margarine with jelly to eat before taking liquids. Often thirst is really the sensation of having a dry mouth. Food can alleviate a dry mouth as well as liquid.
- 13. Try to keep the individual as active as possible. When he/she is bored, he/she may become preoccupied with a desire for liquids.
- 14. If the individual eats well-balanced meals, he/she will have less desire for excess liquids.

#### References:

- 1. John Hopkins Bayview Medical Center. Guidelines For Fluid Restriction. October 2002.
- 2. American Dietetic Association. Manual of Clinical Dietetics, 6th Edition, 2000.



### **ANTI-REFLUX DIET**

**<u>PURPOSE</u>**: The purpose of the anti-reflux diet is to reduce discomfort associated with esophageal reflux by decreasing the reflux of gastric contents into the esophagus and excluding foods that inflame the esophageal mucosa.

**<u>DIET PRINCIPLES</u>**: This diet restricts items that may stimulate gastric acid production (caffeine, colas, coffee, alcohol and red pepper), cause esophageal irritation (citrus, tomato, vinegar, coffee, black pepper), reduce esophageal sphincter pressure (fat, caffeine, chocolate, alcohol, peppermint oil, spearmint oil, garlic and onions), and cause air to come up from the stomach (carbonated beverages and bell peppers). Small frequent feedings of soft foods and fluids taken between meals may be helpful during acute episodes. Increased protein intake may increase lower esophageal sphincter pressure.

**ADEQUACY:** This diet meets the Dietary Reference Intakes (DRIs) for most nutrients.

FOODS FOR THE DAY	EXAMPLES OF FOODS ALLOWED	EXAMPLES OF FOODS TO AVOID
MILK & MILK PRODUCTS	Low-fat or skim milk,	Chocolate.
	yogurt, custard, ice cream.	
MEAT & SUBSTITUTES	Meats, fish, poultry, cheese,	Processed meats such as
	eggs, peanut butter, & dried	corned beef, salami, bologna,
	beans.	etc; hot dogs, bacon, sausage.
BREAD, CEREAL, RICE, &	Whole grain or enriched	None
<u>PASTA</u>	breads & cereals, crackers,	
VECETABLES	pasta, rice.	Tamata tamata iniga hall
<u>VEGETABLES</u>	All other vegetables not listed under "Foods to	Tomato, tomato juice, bell pepper, garlic, onion unless
	Avoid"; fresh, canned,	tolerated by individual.
	frozen, served whole, diced	tolerated by marviadar.
	or as juice; whole kernel or	
	creamed corn. White or	
	sweet potatoes.	
<u>FRUITS</u>	All other fruits not listed	Citrus fruits and juice unless
	under "Foods to Avoid";	tolerated by individual.
	fresh, canned, frozen, served	
	whole, diced or as juice.	
FATS	Butter, margarine, salad oil,	High-fat gravies, sauces and
Use sparingly	mayonnaise.	fried foods.
BEVERAGES	Punch, water, decaffeinated	Coffee, mint tea, cocoa,
	coffee, thickened water	colas, caffeine, alcohol,
	(contains small amount of lemon flavoring), non-mint	carbonated beverages.
	tea.	
DISCRETIONARY	Puddings, sherbet, cakes,	Chocolate.
CALORIES	cookies, gelatin, pastries,	Chocolate.
	pies, sugar, jelly. High fat	
	items in moderation.	
SEASONINGS &	Salt, herbs, spices and	Black pepper, chili powder,
CONDIMENTS	flavorings not listed as	mustard, catsup, vinegar.
Use sparingly	"Foods to Avoid".	

# ANTI-REFLUX DIET SAMPLE MENU

BREAKFAST	<u>LUNCH</u>	DINNER
Apple Juice	Spaghetti w/White Sauce and	Baked Chicken Breast
Dry Cereal	Plain Meatballs	Steamed Potatoes
Scrambled Eggs	Tossed Salad	Gravy
Toast	Dressing	Broccoli
Margarine	French Bread	Cherry Crisp
Milk	Margarine	Bread
Coffee- Decaf	Fruit Cup	Margarine
Condiments	Milk	Milk
	Condiments	Condiments

#### CHOLESTEROL CONTROLLED DIET

**<u>PURPOSE</u>**: This diet is to reduce the amount of cholesterol and other foods high in saturated fats in the body. This diet is used in the management of cardiovascular disease and hypercholesterolemia.

**<u>DIET PRINCIPLES:</u>** The proportion of monounsaturated and polyunsaturated fatty acids is increased while the saturated fatty acids are decreased. Increased intake of foods high in fiber is recommended. The suggested amount of cholesterol is 300 mg or less per day.

Cholesterol is a soft, fatty substance found in body cells. The cholesterol and saturated fats consumed may raise blood cholesterol level. Low density lipoprotein (LDL) builds up on the inner walls of the arteries, which can cause blood clots, block the blood flow to the heart and cause a heart attack or stroke. High density lipoprotein (HDL) carries harmful cholesterol away from the arteries and helps prevent heart disease. High HDL levels are desirable. Triglycerides are another type of fat and high levels are often found in those who have high cholesterol levels and heart problems.

The following table shows the classifications of low-density lipoproteins (LDL), total cholesterol, and high-density lipoproteins (HDL) according to the third report from the National Cholesterol Education Adult Treatment Program.\*

## Classification of LDL, Total, and HDL Cholesterol (mg/dl)\*

#### LDL Cholesterol

<100	Optimal
100-129	Near optimal/above optimal
130-159	Borderline high
160-189	High
<u>≥</u> 190	Very high

#### **Total Cholesterol**

< 200	Desirable
200-239	Borderline high
>240	High

#### **HDL Cholesterol**

<40	Low
<u>≥</u> 60	High (desirable)

**ADEQUACY:** This diet meets the Dietary Reference Intakes (DRIs) for most nutrients.

FOODS FOR THE DAY	EXAMPLES OF FOODS	EXAMPLES OF FOODS
	ALLOWED	TO AVOID
MILK & MILK PRODUCTS	Non-fat milk, 1% powdered,	Whole, 2% and low-fat milk.
	evaporated, buttermilk.	Dairy products made with
	Yogurt and cottage cheese	whole milk, 2% and low-fat
	made with skim milk.	milk.
	Skim farmer's cheese like	
	Parmesan, Feta cheese,	Ice cream, cream, half and
	Part-skim mozzarella,	half, nondairy cream, whipped
	Part-skim ricotta,	topping, sour cream.
	Diet cheeses.	
	Ice milk and fat free ice	
	cream.	
MEAT & SUBSTITUTE	Beef, pork, lamb: lean cuts	Any fried, fatty or heavily
Limited to 5-6 oz per day	well trimmed before cooking,	marbled meat, fish or poultry.
(cooked weight)	baked, broiled or boiled.	Fish packed in oil.
	Fish: fresh, frozen and canned	
Recommended preparation	in water.	Regular luncheon meats as
methods are broiling, roasting,	Poultry (without skin).	bologna, salami and sausage.
grilling, or boiling.	95% fat free luncheon meat.	
Weigh meat after cooking.	Egg whites and egg	
	substitutes.	
Limit to 4 egg yolks per week.		
BREADS, CEREALS,	Whole grain breads (non-fat).	Biscuits. Breads containing
PASTA, & RICE	Enriched breads, soda	egg, cheese or made with fat.
	crackers, cold cereals, cooked	Sweet rolls, french toast,
	cereals, whole grain cereal.	doughnuts, fritters, buttered
	Popcorn made with allowed	popcorn and muffins.
	oil.	
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	Rice, barley and multi grain	Granola type cereal, popovers,
	pasta.	snack crackers with added fat,
		snack chips.
		Fried rice or fried noodles.
VECETADIES	All fresh fregge as some 3	Stuffing.
<u>VEGETABLES</u>	All fresh, frozen or canned	Buttered, au gratin, creamed or
	vegetables prepared without	fried vegetables.
	fats, oil or fat containing	
	sauces.	

<u>FRUITS</u>	Fresh, frozen, canned, dried fruits, fruit juices.	Fried fruits.
FATS Limited to 6-8 tsp per day	Oils: olive, canola, safflower, corn, soybean. Margarine: soft or liquid form. Salad dressing: diet or made from oils allowed. Nuts: almonds, dry roasted	Coconut and palm oil.  Stick margarine, butter, lard, shortening and bacon fat.  Cream sauces. Gravies.
DISCRETIONARY CALORIES	Sugar, honey, jelly, jam, molasses, maple syrup. Fat free candy. Cocoa powder. Fruit ice, sherbets, gelatin, meringues and all fat free desserts.	Chocolate. Candy made with cream, cocoa fats, coconut. Most cakes, cookies, pies, doughnuts, cream puffs and turnovers.
SEASONINGS & CONDIMENTS	Salt, pepper, spices, herbs, relishes, ginger, mustard, catsup.	None

# CHOLESTEROL CONTROLLED DIET SAMPLE MENU

# APPROXIMATELY 300 MG. CHOLESTEROL

BREAKFAST	LUNCH	DINNER
4 oz. Orange Juice	3 oz. Lean Meatballs	3 oz. Baked Chicken-no skin
<sup>3</sup> / <sub>4</sub> c. Cold Cereal	6 oz. Spaghetti	4 oz. Steamed Potatoes
2 oz. Egg Substitute	4 oz. Tossed Salad with	1 oz. Fat Free Gravy
2 sl. Toast	1 oz. Fat Free Dressing	4 oz. Broccoli
2 tsp. Margarine	4 oz. Fruit Cup	4 oz. Cherries
2 tsp. Jelly	1 sl. Bread	1 sl. Bread
8 oz. Nonfat Milk	1 tsp. Margarine	1 tsp. Margarine
6 oz. Coffee	8 oz. Nonfat Milk	8 oz. Nonfat Milk

<sup>\*</sup>Reference:

National Cholesterol Education Adult Treatment Program (ATP III) - National Institute of Health Full Report Final Version 11-19-02.

### CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD) DIET

**PURPOSE:** This diet is indicated for individuals with COPD for the purpose of minimizing fatigue while eating, decreasing excess carbon dioxide production and improving overall client outcome.

**DIET PRINCIPLES:** The diet is tailored to each individual's caloric needs, eating habits, treatment goals, and presence of other medical conditions. The following should be considered for individuals with COPD: Adequate calories provided in less volume (e.g. smaller more frequent feedings) if the individual is easily fatigued while eating, sodium restriction for peripheral edema and adjustment of calories as needed to achieve desirable body weight (excess calories should be avoided). Diets with 40-55% of calories from carbohydrate are usually tolerated. Protein and fat may be the preferred calorie source for individuals with hypercapnea (provided COPD is not associated with heart disease), since less CO<sub>2</sub> is produced than with carbohydrate metabolism. Pulmonary formulas (high fat/low carbohydrate) are available for oral or tube feeding. Potential side effects of a high fat/low carbohydrate diet (e.g. decreased gastric emptying, increased gastrointestinal side effects and potential problems related to decreased carbohydrate intake) need to be considered. Fluid intake should be high, especially if the individual is febrile. Use 1ml/kcal as a general rule.

**ADEQUACY:** This diet meets the Dietary Reference Intakes (DRIs) for most nutrients.

**FOODS ALLOWED:** All.

**FOODS TO AVOID:** None.

### CONSISTENT CARBOHYDRATE DIET

<u>PURPOSE</u>: The consistent carbohydrate diet aids in the attainment and preservation of the best possible blood glucose and lipid levels.

<u>**DIET PRINCIPLES:**</u> The consistent carbohydrate diet is only one part of the total team management of the individual with diabetes mellitus. It is essential that a registered dietitian plans the diet and be involved in the care of a individual with diabetes mellitus.

The use of a consistent carbohydrate intake throughout the day, as represented by a meal plan, is fundamental to the care of the individual with diabetes mellitus. Whether an individual has Type 1 or Type 2 diabetes, a general food guide, such as the USDA MY Pyramid Food Guidance System or the Food Guide to Healthy Eating, is an appropriate meal pattern. There is no one method to planning meals for persons with diabetes mellitus. The meal plan must be adjusted to the individual's usual food intake, usual activity pattern, and based on the individual's nutrition assessment. Use of the terms "ADA diet," "no concentrated sweets" and "no sugar added" in conjunction with planning meals for individuals with diabetes is not appropriate.

Typical meal plans for the individual with diabetes using a consistent carbohydrate approach provide the same amount of carbohydrate for each meal and snack every day. An individual would receive the same amount of carbohydrate at each breakfast every day, rather than receiving the same amount of carbohydrate at every breakfast, lunch, and dinner. In other words, the individual's blood glucose response to the amount of carbohydrate provided is measured. In planning the consistent carbohydrate diet, attention is given to the amount of carbohydrate consumed, rather than the source of the carbohydrate. Nutritive sweeteners, such as sucrose, fructose, and honey may be used provided the carbohydrate present in the sweetener is calculated as a part of the total carbohydrate intake for the day. The total carbohydrate provided by the meal plan is balanced with the individual's intake, exercise, and desired blood glucose and lipid values.

The following are general guidelines for nutrients when planning a consistent carbohydrate diet.

## **Approximate Composition**

Carbohydrate: 45-60 % of total calories Protein: 10-20 % of total calories

Fat: Less than 30 % of total calories

Saturated Fat less than 10% of total

calories

Fiber: 20-35 grams

**ADEQUACY:** The consistent carbohydrate diet can be planned to meet the Dietary Reference Intakes (DRIs) for most nutrients. The need for vitamin and mineral supplementation should be assessed on an individual basis.

# SUGGESTED PATTERN FOR CONSISTENT CARBOHYDRATE

Foods may be provided as suggested in the following table. The table should be used only as a guide in planning the diet. Modifications within the prescribed dietary restrictions may be made in order to adapt the diet to the normal dietary pattern of the individual. A sample menu is provided after the exchange table.

## **CONSISTENT CARBOHYDRATE- 2000 CALORIES**

	Total Exchanges Per Day	Breakfast	Lunch	Dinner	HS Snack	CHO gm	Pro gm	Fat gm	Cal
Carbohydrate Group									
Starches	9	2	2	3	2	135	27	9	720
Fruits	4	2	1	1	0	60	0	0	240
Milk (Fat-free, Low- Fat)	3	1	1	-	1	36	24	0	270
Vegetables (Nonstarchy)	5	-	2	3	-	25	10	0	125
Meat & Meat Substitute Group									
Meat (lean)	6	1	2	2	1	0	42	18	330
Fat Group									
Fat	7	2	2	2	1	0	0	35	315
					Total	256	103	62	2000

### CONSISTENT CARBOHYDRATE DIET SAMPLE MENU

#### 2000 CALORIE

BREAKFAST	LUNCH	DINNER	2000
			<b>SUPPLEMENTS</b>
8 oz. Orange Juice	2 oz. Meatballs (lean)	2 oz. Baked Chicken	8 oz. Fat Free
1 oz. Scrambled Eggs	⅓ c. Spaghetti	Breast (no skin)	Milk
<sup>3</sup> / <sub>4</sub> c. Cold Cereal	4 oz. Tomato Sauce	8 oz. Steamed Potatoes	2 sl. Bread
1 sl. Toast	1 c. Tossed Salad	2 oz. Diet Gravy	1 oz. Turkey
2 tsp. Margarine	1 TB. Salad Dressing	12 oz. Steamed Broccoli	2 tsp. Mayonnaise
8 oz. Fat Free Milk	1 sl. Garlic Bread	1 sl. Bread	
Coffee	4 oz. Fruit Cup	2 tsp. Margarine	
Sugar sub., salt, pepper	8 oz. Fat Free Milk	4 oz. Cherries	
	Sugar sub., salt, pepper	Sugar sub., salt, pepper	

## **Approximate Nutrient Composition of Sample Menu:**

2000 Kcal.	256 gm. Carbohydrate	51 %
	103 gm. Protein	21%
	62 gm. Fat	28 %

#### References:

- 1. American Diabetes Association. *Translation of the Diabetes Nutrition Recommendations for Health Care Institutions: Position Statement*. J Am Diet Assoc. 1997;97:52–53.
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## FAT CONTROLLED DIET

**PURPOSE:** The fat controlled diet is used for to relieve symptoms of diarrhea, steatorrhea, and flatulence or to control nutrient losses caused by the ingestion of excess dietary fat. This diet may be used in the treatment of diseases of the hepatobiliary tract, pancreas, intestinal mucosa, and the lymphatic system as well as the malabsorption syndromes.

**<u>DIET PRINCIPLES</u>**: The fat intake is restricted as low as 25 grams per day depending on the severity of the condition and per physician's order.

<u>ADEQUACY</u>: The diet meets the Dietary Reference Intakes (DRIs) for most nutrients. Prolonged conditions of steatorrhea or diarrhea may cause nutrient deficiencies of calcium, magnesium, iron, fat-soluble vitamins, folic acid, Vitamin B-12 and B complex vitamins. Vitamin and mineral supplementation may be necessary.

FOODS FOR THE DAY	EXAMPLES OF FOODS ALLOWED	EXAMPLES OF FOODS TO AVOID
MILK & MILK PRODUCTS	Nonfat milk, 1% milk powdered evaporated, buttermilk. Yogurt and cheese made with skim milk. Skim farmer's cheese like	Whole, 2 % reduced fat milk. Dairy products made with whole milk, 2 % and low fat milk.
Limited to 2-3 servings per day.	parmesan (3 TB. or ½ oz.), Feta cheese (1 oz.), part-skim mozzarella(1 oz.), part-skim ricotta (1/4 c.), fat free cheeses, Ice milk and fat free ice cream.	Ice cream, cream, half and half, nondairy cream, whipped topping and sour cream.
MEAT & SUBSTITUTES  Limited to 4-6 oz per day (cooked weight)	Beef, pork, lamb; lean cuts well trimmed before cooking, baked, broiled or boiled. Fish: fresh, frozen and canned in water. Poultry (without skin). 95% fat free luncheon meat. 4 egg yolks only per week, egg whites and egg substitutes. Dry beans or peas cooked without fat.	Any fried, fatty or heavily marbled meat, fish or poultry. Fish packed in oil.  Processed meats such as bologna, salami, and sausage.  Peanut butter.
BREAD, CEREAL, RICE & PASTA	Whole grain breads, enriched bread, saltines, soda crackers, cold cereals, cooked cereals, and whole grain made without fat. Unbuttered	Biscuits, breads containing egg, cheese or made with fat, sweet rolls, french toast, doughnuts, fritters, buttered popcorns, muffin, granola

	popcorn, rice, pasta, and barley.	type cereal, popovers, snack crackers with added fat, snack chips, stuffing, fried noodles or fried rice.
VEGETABLES	All fresh, frozen or canned vegetables prepared without fats, oil or fat containing sauces.	Buttered, au gratin, creamed or fried vegetables.
FRUITS	Fresh, frozen, canned or dried fruits, fruit juices.	Fried fruits.
EATS  Limited to 1 tablespoon (total) per day.	Oils: olive, canola, safflower, corn or soybean. Margarine: soft or liquid form. Salad dressing: diet or regular made from oils allowed. Fat free mayonnaise.	Coconut and palm oil. Stick margarine, butter, lard, shortening and bacon fat.  Avocado, nuts, coconut and olives.
DISCRETIONARY CALORIES	White sauce made with nonfat milk, gravies made without fat, fat free candies, cocoa powder, fruit ice, sherbet, gelatin, meringues and all fat free desserts.	Cream sauces, gravies, chocolate and chocolate syrup, candies made with cream, cocoa fats, nuts, most cakes, cookies, pies, cream puffs and turnovers.
SEASONINGS AND CONDIMENTS	Salt, pepper, spices, herbs, relishes, ginger, mustard, catsup, sugar, honey, jelly, jam, molasses, and maple syrup.	None.

# FAT CONTROLLED DIET SAMPLE MENU

# **40 GRAMS FAT DIET**

BREAKFAST	LUNCH	DINNER
4 oz. Orange Juice	3 oz. Lean Meatballs	3 oz. Baked Chicken
<sup>3</sup> / <sub>4</sub> c. Cold Cereal	6 oz. Spaghetti	(no skin)
2 oz. Egg Substitute	4 oz. Tossed Salad	1 oz. Fat Free Gravy
2 sl. Wheat Toast	1 oz. Fat Free Dressing	4 oz. Steamed Potato
2 tsp. Jelly	1 sl. Wheat Bread	4 oz. Broccoli
1 tsp. Margarine	1 tsp. Jelly	1 sl. Wheat Bread
8 oz. Nonfat milk	1 tsp. Margarine	1 tsp. Jelly
6 oz. Coffee	4 oz. Fruit Cup	1 tsp. Margarine
Condiments	8 oz. Nonfat Milk	4 oz. Cherries
	Condiments	8 oz. Nonfat Milk
		Condiments

## Reference:

Mayo Clinic Diet Manual- A Handbook of Dietary Practices. Fifth Edition, 1981 W.B. Saunders Company.

## FIBER CONTROLLED DIET

**PURPOSE:** This diet may be used when a reduction in stool frequency and volume is desirable. Diet is generally for short-term use following diarrhea, colitis, partial bowel obstruction, diverticulitis, megacolon and before or after bowel surgery.

**<u>DIET PRINCIPLES</u>**: This diet reduces non-digestible food fibers and residue. This diet can also be used for a low residue diet by limiting milk to two cups or less per day and reducing fat.

**ADEQUACY:** This diet may not meet the Dietary Reference Intakes (DRIs) for calcium and Vitamin D if fluid milk is restricted.

FOODS FOR THE DAY	EXAMPLES OF FOODS ALLOWED	EXAMPLES OF FOODS TO AVOID
MILK & MILK PRODUCTS Limit to 2 cups or less if low residue	Milk (used as a beverage and/or in cooking), cottage cheese, cheese, creamed dishes, ice cream.	Milk as a beverage in excess of 2 cups (for low residue diets).
MEAT OR SUBSTITUTE	Eggs, tender or ground meat, fish, poultry, casseroles.	Fried foods, frankfurters, sausage, bologna, high- seasoned casseroles and meats, nuts, peanut butter (for low residue diets).
BREADS, CEREALS, RICE, & PASTA	Foods made with enriched refined flour and grains, white bread, soda crackers or saltines, farina, cream of rice, cornmeal, refined dry cereals.	All whole grain products or those made with bran, nuts, raisins, or coconut. Brown or wild rice.
VEGETABLES	All allowed vegetables must be cooked and chopped or pureed: squash, zucchini, green & wax beans, carrots, cauliflower, beets, spinach, tomato sauce, strained vegetable juice. Baked potato without skin, mashed potato, peeled yams, peeled sweet potatoes.	All raw vegetables, all salads, broccoli, onions, sprouts, cabbage, raw brussel sprouts, peas, dried beans (whole or pureed), corn, creamed corn, lima beans, potato skin.

FRUITS	Strained orange juice and fruit	Raw fruit except
	juices, except prune juice;	bananas; prunes,
	cooked, chopped, or pureed	raisins, pineapple,
	fruits without skins or seeds;	berries with seeds, and
	peaches, pears, applesauce,	all other fruits, prune
	apricots; fresh or pureed	juice.
	bananas.	
FATS	Butter, margarine, mayonnaise.	Olives.
BEVERAGES	Coffee, tea, punch, water,	None.
	carbonated beverages.	
DISCRETIONARY	Plain (contains no nuts, seeds,	All others.
CALORIES	or chunks of fresh fruit)	
	custard, gelatin, ice cream,	
	sherbet, cakes, cookies, jelly	
SEASONINGS &	Pepper, salt, flavorings, broth,	None.
CONDIMENTS	spices, herbs	

# FIBER CONTROLLED DIET SAMPLE MENU

BREAKFAST	LUNCH	DINNER
Strained Orange Juice	Spaghetti with Meatballs	Baked Chicken Breast
Refined Dry Cereal	Steamed Zucchini	Steamed Potatoes with Gravy
Scrambled Eggs	Garlic Bread	Green Beans
White Toast	Canned Fruit Cup	Peach Crisp
Margarine	Milk	White Bread
Milk	Condiments	Margarine
Coffee		Fruit Punch
Condiments		Condiments

## **HIGH FIBER DIET**

<u>**PURPOSE:**</u> This diet may be used in the treatment of constipation, hemorrhoids, diverticular disease, irritable bowel syndrome and obesity.

**<u>DIET PRINCIPLES</u>**: A high fiber diet is a house diet with the addition of high fiber foods. It is recommended to consume 20 to 35 grams of dietary fiber from a variety of sources. Adequate fluid intake is also recommended

**ADEQUACY:** This diet meets the Dietary Reference Intake (DRIs) for most nutrients.

# **DIETARY FIBER CONTENT OF FOODS**

FOOD ITEMS	SERVING SIZES	DIETARY FIBER IN GRAMS PER SERVING
FRUITS		
APPLE WITH SKIN, RAW	1 medium	3.7
APRICOTS, RAW	3 medium	2.5
AVOCADO	1 medium	8.5
BANANA	1 medium	2.7
BLACKBERRIES, RAW	½ cup	3.8
BLUEBERRIES, RAW	1 cup	3.9
CANTALOUPE in pieces	1 cup	1.3
CHERRIES, RAW	10 pieces	1.1
COCONUT, dried	1 ounce	4.6
DATES, dried	10 pieces	6.2
FIGS, dried	10 pieces	17.4
GRAPEFRUIT	½ medium	1.3
GUAVA	1 medium	4.9
KIWI	1 medium	2.6
MANGO, RAW	1 medium	3.7
NECTARINE	1 medium	2.2
ORANGE	1 medium	3.0
PAPAYA	1 medium	5.5
PASSION FRUIT	1 medium	1.9
PEACHES, canned PEACH, raw	1 cup 1 medium	3.2 1.7

PEARS, canned PEAR, raw	1 cup 1 medium	3.9 4.0
PINEAPPLE, canned PINEAPPLE, raw in pieces	1 cup 1 cup	2.0 1.9
PLUM, raw	1 medium	1.0
PRUNES, dried	10 pieces	6.0
RAISINS, seedless	<sup>2</sup> / <sub>3</sub> cup	4.0
RASPBERRIES, raw	1 cup	8.4
RHUBARB, Frozen, raw	½ cup	2.5
STRAWBERRIES, raw	1 cup	3.4
TANGERINE	1 medium	1.9
FRUIT NECTARS		
APRICOT NECTAR	8 ounce	1.5
PEACH NECTAR	8 ounce	1.5
PEAR NECTAR	8 ounce	1.5
NUTS AND SEEDS		
ALMONDS, dried	1 ounce	3.1
BRAZIL NUTS, dried	1 ounce	1.5
PEANUTS, dry roasted	1 ounce	2.3
PECANS, dried	1 ounce	2.2
PISTACHIOS, dried	1 ounce	3.1
SESAME SEED, toasted kernels	1 ounce	4.8
SUNFLOWER SEEDS, dried	1 ounce	2.8
WALNUTS, dried	1 ounce	1.4
BREADS, STARCH AND CEREALS		
ALL BRAN, Kellogg's	½ cup	10
BRAN FLAKES, Post	<sup>2</sup> / <sub>3</sub> cup	6.0
BROWN RICE, long grain, cooked	1 cup	3.5
GRANOLA CEREAL Low fat, Kellogg's	½ cup	2.9
GRAPE NUTS, Post	½ cup	5.0
OATMEAL, quick, regular, instant, cooked	<sup>3</sup> / <sub>4</sub> cup	4.0

POPCORN, air popped	3 ½ cups	4.2
RAISIN BRAN	<sup>3</sup> / <sub>4</sub> cup	3.0
SHREDDED WHEAT	1 ounce	2.8
WHOLE WHEAT BREAD	1 slice	1.9
VEGETABLES		
BEANS – KIDNEY, Red	1 cup	13.1
LIMA, Baby	1 cup	14.0
MUNG	1 cup	15.4
NAVY, canned	1 cup	13.4
PINTO, canned	1 cup	11.0
BROCCOLI, RAW, chopped	½ cup	1.3
BRUSSELS SPROUTS, frozen, boiled	½ cup	3.2
CABBAGE, boiled	½ cup	1.7
CARROT, raw	1 medium	2.2
CAULIFLOWER, frozen, boiled	½ cup	2.4
GREEN BEANS, frozen, cooked	½ cup	2.0
LENTILS, Cooked	1 cup	11.0
MUSHROOM, slices, canned	½ cup	1.9
ONIONS, raw	½ cup	1.4
PARSNIPS, cooked	½ cup	3.1
POTATO, baked with skin	1 medium	4.8
POTATOES, mashed from flakes	½ cup	2.4
SPINACH, canned	½ cup	2.6
SPLIT PEAS, Cooked	1 cup	16.3
SQUASH- ACORN, baked	½ cup	4.5
TOMATO, fresh	1 small	1.4
TOMATOES, canned, stewed	½ cup	1.3

# **HIGH FIBER DIET SAMPLE MENU**

# **30 GRAMS DIETARY FIBER**

BREAKFAST	<u>LUNCH</u>	<u>DINNER</u>
1 svg. Fresh Orange 1 svgs. All Bran Cereal 1 svg. Scrambled Eggs 2 svgs. Whole Wheat Toast 2 svgs. Margarine 1 svg. Milk Coffee Condiments	1 svg. Spaghetti with Meatballs Tossed Lettuce Salad w/ 1 svg. Dressing 2 svgs. Garlic Bread 1 svg. Fruit Cup 1 svg. Milk Condiments	Baked Chicken Breast w/ 1 svg. 1 svg. Baked Potato with Skin 1 svg. Broccoli Spears 1 svg. Cherry Crisp 2 svgs. Whole Wheat Bread 2 svgs. Margarine 1 svg. Milk Condiments

## Reference:

Pennington, Jean Ph.D., R.D. Bowes & Church's Food Values of Portions Commonly Used.17<sup>th</sup> Edition.

#### **KETOGENIC DIET**

**PURPOSE:** The Ketogenic Diet is designed to establish and maintain ketosis. The diet is used for children and adults with myoclonic or atonic seizures who are resistant to anticonvulsant medications or who are experiencing drug-related side effects.

**<u>DIET PRINCIPLES</u>**: The diet is high in fat and low in carbohydrate to promote ketosis. Medium chain triglyceride (MCT) oil may be used in planning the diet. Fluids are generally limited to 1 cc per calorie.

<u>ADEQUACY</u>: A multivitamin, calcium, and iron supplement should be ordered since the diet does not meet the Dietary Reference Intake (DRIs) for some nutrients. The diet should be used only under strict supervision. Long-term use can compromise growth in children if not monitored.

**FOODS ALLOWED:** All foods, except those listed as "Foods to Avoid" are allowed in the amounts specified in the individualized meal plan.

**FOODS TO AVOID:** Cake, candy, catsup, chewing gum, cookies, honey, ice cream, jam, jelly, molasses, pastries, pies, pudding, sherbet, sugar, sweetened condense milk, syrup, sugar sweetened carbonated beverages and **ALL** bread, bread products and cereals, unless they are calculated into the meal plan.

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- 11. Vining E. *The Ketogenic Diet*. Adv Exp Med Biol. 2002;497:225.

## **REACTIVE HYPOGLYCEMIA DIET**

**<u>PURPOSE</u>**: This diet is designed to prevent symptoms of hypoglycemia (low blood sugar), which occur after food ingestion due to carbohydrate sensitivity.

**<u>DIET PRINCIPLES</u>**: Reactive Hypoglycemia (postprandial) is one of two primary categories of hypoglycemia. Dietary modification for the treatment of reactive hypoglycemia may depend on the specific cause or may vary depending on the individual. The main focus of the diet is to slow the quick absorption and utilization of carbohydrates. Current American Diabetes Association recommendations are as follows:

- Provide adequate calories based on individual needs.
- More frequent meals, usually five to six meals daily.
- Smaller meals, which may help alleviate hypoglycemia symptoms, in individuals who normally consume large meals.
- Appropriately timed meals and snacks to control all symptoms.
- Mixed meals including complex carbohydrates, protein, fat and fiber which can help in delaying absorption of carbohydrates.
- Limit caffeine, which may reduce blood flow and, therefore, glucose supply to the brain.
- Use of carbohydrate counting, which may be helpful in regulating total carbohydrate intake.
- Consuming consistent amount of carbohydrate at meals and snacks may also be helpful

**ADEQUACY:** Calorie levels above 1500 meet the Dietary Reference Intakes (DRIs) for most nutrients. To ensure adequate intake of nutrients in lower calorie intakes, a multivitamin with mineral supplement should be provided.

**FOODS ALLOWED:** All foods are allowed. However, complex carbohydrates and proteins, which are more slowly absorbed than simple sugars, may be preferable for preventing symptoms of hypoglycemia (sweating, dizziness, weakness, fatigue, confusion, agitation or blurred vision).

**FOODS TO AVOID:** None.

## REACTIVE HYPOGLYCEMIA DIET SAMPLE MENU

BREAKFAST	LUNCH	DINNER
4 oz. Orange Juice	6 oz. Spaghetti	3 oz. Baked Chicken Breast
1 oz. Scrambled Egg	3 oz. Meatballs	4 oz. Steamed Potatoes
2 sl. Toast	1 sl. Garlic Bread	1 oz. Gravy
2 tsp. Margarine	4 oz. Fruit Cup	4 oz. Broccoli Spears
8 oz. Milk	8 oz. Milk	4 oz. Cherries
Condiments	Condiments	8 oz. Milk
Coffee		Condiments
1000 SUPPLEMENTS	1400 SUPPLEMENTS	2000 SUPPLEMENTS
8 oz. Milk	8 oz. Low Fat Fruit Flavored Yogurt	4 oz. Cottage Cheese

Reference: *Manual of Clinical Dietetics*. 6<sup>th</sup> Ed., Chicago, Ill: American Dietetics Association; 2000.

# SODIUM CONTROLLED DIET

(2000 - 2500 mg)

**PURPOSE:** The diet is indicated to reduce hypertension and promote the loss of excess fluids in edema and ascites. This diet is used in the management of essential hypertension, impaired liver function, cardiovascular disease, severe cardiac failure, renal disease and chronic renal failure.

**<u>DIET PRINCIPLES</u>**: This is a 2000 - 2500 mg sodium (87 - 108 mEq) diet. This diet contains up to one-half teaspoon of table salt daily or the equivalent amount of sodium is allowed in prepared foods. Reading labels of manufactured foods will provide information on sodium content of these foods.

**ADEQUACY:** This diet meets the Dietary Reference Intakes (DRIs) for most nutrients.

FOODS FOR THE DAY	EXAMPLES OF FOODS ALLOWED	EXAMPLES OF FOODS TO AVOID
MILK & MILK PRODUCTS Limited to 2 cups per day	Regular whole, low fat, non-fat, evaporated/dried milk, chocolate, cocoa, yogurt, unsalted buttermilk, eggnog.	Buttermilk, malted milk, and milkshake.
MEAT & SUBSTITUTES  Limited to 6 oz. per day (cooked weight)  Limited to 1 Egg per day	Beef, veal, pork, lamb, chicken, turkey, liver, fresh, frozen, or canned unsalted fish. Peanut butter, cottage cheese. Dried beans and peas cooked without salt.	Sardine, anchovies, marinated meats, brains or kidney; salted, smoked, cured, or canned meat, fish and poultry such as bacon, sausage, ham, Canadian bacon, bologna, luncheon meats, frankfurters, corned beef, dried beef, shellfish, kosher meat, frozen fish fillets; frozen pre-cooked meals, all regular cheeses; commercial vegetarian meat substitute, cheese spreads. Pickled eggs.
BREAD, CEREAL, RICE, & PASTA  Limited to 4 servings regular bread per day.	Breads such as white, wheat, sourdough, and French, yeast rolls; low sodium crackers, corn tortillas. All cooked or dry cereals, barley, cornmeal, and cornstarch. Rice, spaghetti, macaroni and noodles cooked in	Crackers, cornbread, biscuits, and all regular baked goods. Instant seasoned rice, noodles, stuffing mixes, salted popcorn, pretzels, and chips; self-rising cornmeal or flour.

	unsalted water, unsalted	
	popcorn, pretzels, chips,	
	and tapioca.	
<u>VEGETABLES</u>	Fresh, frozen, low sodium	Sauerkraut, frozen
	canned vegetables and	vegetables with sauce,
	vegetable juice.	pickled vegetables, regular
		canned vegetables and
EDITIE	F1 f 1	vegetable juice, celery.  Fruits dried with sodium
FRUITS	Fresh, frozen, or canned	
	fruit or fruit juice, raisins,	sulfite, crystallized or
	prunes.	glazed fruit, maraschino
EATC	Dutten on mouse size size	cherries.
FATS	Butter or margarine in limited amounts.	Bacon, cheese dips, salad
	Unsalted butter or	dressing, buttermilk.
	margarine; cooking fats,	
	oil; unsalted dressing,	
	mayonnaise; light, heavy	
	and sour cream.	
BEVERAGES	Most allowed.	Commercially softened
<u>BE VEIGIGES</u>	West allowed.	water and beverages or
		foods made with
		commercially softened
		water.
DISCRETIONARY	Unsalted broth, vegetable	Regular canned soups,
CALORIES	or cream soups. Unsalted	broth, dehydrated
	gravy.	commercial soups,
		consommé. Canned or
		salted gravy.
SEASONINGS &		
SEASONINGS &	Basil, bay leaves, chives,	Garlic salt, celery salt,
CONDIMENTS	Basil, bay leaves, chives, cider vinegar, cinnamon,	Garlic salt, celery salt, seasoned salt, onion salt;
- <del>-</del>	cider vinegar, cinnamon,	seasoned salt, onion salt; teriyaki sauce, Worcestershire sauce,
- <del>-</del>	cider vinegar, cinnamon, curry powder, dill, garlic, ginger, lemon juice, mustard, nutmeg, onion,	seasoned salt, onion salt; teriyaki sauce, Worcestershire sauce, MSG, meat tenderizer,
	cider vinegar, cinnamon, curry powder, dill, garlic, ginger, lemon juice, mustard, nutmeg, onion, paprika, parsley, pimento,	seasoned salt, onion salt; teriyaki sauce, Worcestershire sauce, MSG, meat tenderizer, olives, pickles, lemon
- <del>-</del>	cider vinegar, cinnamon, curry powder, dill, garlic, ginger, lemon juice, mustard, nutmeg, onion, paprika, parsley, pimento, rosemary, sage, thyme.	seasoned salt, onion salt; teriyaki sauce, Worcestershire sauce, MSG, meat tenderizer, olives, pickles, lemon pepper, regular soy sauce,
	cider vinegar, cinnamon, curry powder, dill, garlic, ginger, lemon juice, mustard, nutmeg, onion, paprika, parsley, pimento, rosemary, sage, thyme. Prepared mustard (1 TB.),	seasoned salt, onion salt; teriyaki sauce, Worcestershire sauce, MSG, meat tenderizer, olives, pickles, lemon
- <del>-</del>	cider vinegar, cinnamon, curry powder, dill, garlic, ginger, lemon juice, mustard, nutmeg, onion, paprika, parsley, pimento, rosemary, sage, thyme.	seasoned salt, onion salt; teriyaki sauce, Worcestershire sauce, MSG, meat tenderizer, olives, pickles, lemon pepper, regular soy sauce,

# SODIUM CONTROLLED DIET SAMPLE MENU

The following sample menu is for an individual on mild sodium restriction, 2000-2500 milligrams (mg) of sodium per day.

BREAKFAST	<u>LUNCH</u>	DINNER
4 oz. Orange Juice	3 oz. Meat Balls	3 oz. Baked Chicken Breast
<sup>3</sup> / <sub>4</sub> c. Cold Cereal	6 oz. Spaghetti	4 oz. Steamed Potato /Salt-
2 oz. Scrambled Eggs	4 oz. Tossed Salad	Free Gravy
(Salt-Free)	w/Salt- Free Dressing	4 oz. Broccoli Spears
2 sl. Toast	1 sl. Bread	1 sl. Bread
2 tsp. Jelly	1 tsp. Margarine	1 tsp. Margarine
2 tsp. Margarine	4 oz. Fruit Cup	4 oz. Cherry Crisp
8 oz. Milk	8 oz. Fruit Punch	8 oz. Milk
6 oz. Coffee		

## Reference:

Hart, B.E. R.D., and Hamada, A.C.R.D., *Clinical Diet Manual: A Handbook for Medical Nutrition Therapy*. 11<sup>th</sup> Edition, 1998.

#### **RENAL DIET**

**PURPOSE:** The diet is to be used in the treatment of impaired renal function or renal failure. The purpose of the diet is to reduce the production of wastes that must be excreted by the kidney, to avoid fluid and electrolytes imbalance, slow the progression of renal disease, and to delay the need for dialysis, if not already on dialysis.

**DIET PRINCIPLES:** The nutritional management of individuals with renal disease focuses on the intake of protein, sodium, potassium, phosphorus and fluids. The level of restriction of these nutrients depends upon the clinical and biochemical status of the individual. The calculation of each nutrient must be carefully calculated to meet needs of each individual. A Registered Dietitian must be consulted for the careful planning of the diet as it is individualized and comprehensive.

<u>ADEQUACY</u>: Nutritional needs vary from person to person. If the protein allowance of the diet is above 0.8 gram per kilogram of body weight, the diet will meet the Dietary Reference Intakes (DRIs) for most nutrients. When the protein allowance is below 40 grams, it is difficult to meet the DRIs. Specific vitamin/mineral supplementation must be determined on an individual basis. Water-soluble vitamins are advised for hemodialysis and peritoneal dialysis patients. The assistance of a Registered Dietitian is necessary in planning a renal diet.

**FOODS ALLOWED:** This will vary based on each individual's diet. Usually, the diet is low or restricted in protein, sodium, potassium, phosphorus and fluids.

**FOODS TO AVOID:** This will vary based on each individual's diet.

#### DIET PRESCRIPTION IN RENAL DISEASE

<u>Nutrient</u>	Pre-End Stage	Hemodialysis	<b>Peritoneal</b>
	Renal Disease		<u>Dialysis</u>
Protein (gm/kg IBW)	0.6-0.8	1.1- 1.4	1.2-1.5
Calories (kcal/kg/IBW)	35-40	30-35	25-35
Sodium (mg/day)	1000-3000	2000-3000	2000-4000
Potassium (mg/kg IBW)	Typically unrestricted	Approximately 40 mg/kg IBW	Typically unrestricted
Phosphorous (mg/kg IBW)*	8-12	<u>&lt; 17</u>	<u>&lt; 17</u>
Fluid (ml/day)	Typically unrestricted	Urine output + 500- 750 ml or 1000 ml if anuric	2000 + ml per day
Calcium (mg/day)	1200-1600	Depends on serum level	Depends on serum level
% Carbohydrate	55-65	50-60	45-50 (minus CHO in dialysate absorbed)

<sup>\*</sup>Phosphorus

- **Pre-End Stage Renal Disease:** 5-10 mg/kg IBW is frequently cited, 5 mg/kg IBW is practical only when used in conjunction with a very low protein diet supplemented with amino acids.
- **Hemodialysis and Peritoneal Dialysis:** A diet that is higher in protein may make it impossible to meet the optimum phosphorus prescription.

**FOOD CHOICE LIST:** The renal diet is planned using a food choice list. Foods with similar amounts of protein, sodium, and potassium are grouped together to aid in planning diet patterns. The chart below lists how foods are grouped in the food choice list. The actual list can be obtained from the American Dietetic Association's National Renal Diet.

## Average Protein, Sodium, Potassium and Phosphorus Values

Food Group	Amount In One Serving	Protein (gm)	Sodiun	n (Na+)	Potassi	um(K+)	Phosphorus (mg)	Calories
			mg	mEq	mg	mEq		
Milk	1/2 cup	4	80	3.47	185	4.74	110	120
Meat	1 oz	7	25	1.1	100	2.56	65	65
Starches	varies	2	80	3.5	35	.89	35	90
Vegetables	varies							
Low K		1.0	15	.65	70	1.8	20	25
Medium K		1.0	15	.65	150	3.8	20	25
High K		1.0	15	.65	270	6.9	20	25
Fruits	varies							
Low K		.5	Tr.	Tr.	70	1.8	15	70
Medium K		.5	Tr.	Tr.	150	3.8	15	70
High K		.5	Tr.	Tr.	270	6.9	15	70
Fats	varies	Tr.	55	2.4	10	.25	5	45
Non-Dairy								
Milk	varies	.5	40	1.7	80	2	30	140
Substitutes								
Salt Choices	varies	-	250	11	-	-	-	
Beverage	varies	varies	varies	varies	varies	varies	varies	varies
High-calorie Choices*	varies	tr.	15	.65	20	.51	5	100

<u>Note</u>: The values used in the food lists are approximate averages as nutrients in food vary widely. If the diet is severely restricted in protein and/or potassium, current food nutrient composition tables need to be used in calculating it.

## **Approximate Composition:**

Calories: 2000
Protein: 60 gm.
Sodium: 2000 mg.
Potassium: 2000 mg.

# **BASIC MENU FRAMEWORK**

Food Groups	Serving/day	<u>Protein</u>	<b>Sodium</b>	<b>Potassium</b>	<u>Calories</u>
		(gm.)	(mg.)	(mg.)	
Milk	1	4	80	185	120
Meat	5	35	125	500	325
Bread/Starch	8	16	640	280	720
Vegetables	3	3	45	450	75
(Med K)					
Fruit/Juice	3	1.5	Trace	450	210
(Med K)					
Fats	10	0	550	100	450
Beverages	3	0	0	180	0
Miscellaneous	5	0	0	0	350
<u>Total</u>		59.5	1440*	2145	2250

<sup>\*</sup> Use salted fats and salted starches to increase sodium intake.

## **RENAL DIET SAMPLE MENU**

BREAKFAST	<u>LUNCH</u>	<u>DINNER</u>
4 oz. Grape Juice	2 oz. Meat Balls	2 oz Baked Chicken
1 Egg –Scrambled in	1 c. Spaghetti	Breast
1 tsp. Margarine.	2 oz. Pesto Sauce	4 oz. Steamed Rice
1 c. Cold Cereal	4 oz. Lettuce Salad	1 tsp. Margarine
1 sl. Toast	2 TB. Ranch Dressing	8 oz. Peas
1 tsp. Margarine	1 sl. Garlic Bread	1 sl. Bread
1 TB. Jelly	4 oz. Fruit Cocktail	1 tsp. Margarine
4 oz Milk	Beverage	4 oz. Cherry Crisp
8 oz. Coffee		Beverage
2 tsp. Sugar		

#### References:

- 1. Clinical Diet Manual- A Handbook for Medical Nutrition Therapy For Porterville Developmental Center; 12<sup>th</sup> ed., 2001. Food and Nutrition Management Services, Inc.
- 2. *National Renal Diet: Professional Guide*. 2<sup>nd</sup> ed.,2002. The American Dietetic Association.

# ADVERSE REACTIONS TO FOODS DIETS

## **EGG-FREE DIET**

**PURPOSE:** The egg-free diet is designed for individuals with an egg allergy.

<u>**DIET PRINCIPLES:**</u> An egg-free diet is a house diet with the omission of eggs and foods containing eggs. Check labels and avoid ingredients such as egg, egg white, dried egg or albumin.\*

**ADEQUACY:** The egg –free diet meets the Dietary Reference Intakes (DRIs) for most nutrients.

FOODS FOR THE DAY	EXAMPLES OF FOODS ALLOWED	EXAMPLES OF FOODS TO AVOID
MILK & MILK PRODUCTS	Low fat or nonfat milk, powdered milk, evaporated milk. Cheese, yogurt and cottage cheese.	Eggnog.
MEAT & SUBSTITUTES	Any fresh, frozen or canned meats, poultry, or fish in at least one serving per day. Other servings may include dry beans, nuts and peanut butter.	Eggs, meat dishes where eggs are used as binders.
BREAD, CEREAL, PASTA, AND RICE	Any breads or rolls made without eggs, all cereal products. Rice, egg-free pasta.	Hot breads, and small rolls made with eggs, commercial baked goods and egg-containing foods such as pancakes, waffles and French toast.
VEGETABLES	All.	Vegetables prepared with eggs.
FRUITS	All.	Fruits prepared with eggs.
FATS	Butter, margarine, cream, cooking fats, oils.	Salad dressings made with eggs such as mayonnaise and Hollandaise sauce.
BEVERAGES	Coffee, tea, carbonated beverages and fruit punch.	Egg containing beverages.
DISCRETIONARY CALORIES	Gelatin, sherbet, milk pudding without eggs, fruit pies, fruit ices. Sugar, jelly, molasses, honey, syrup, candy.	Ice cream, cakes, cookies, puddings, custards or pies made with eggs. Marshmallows and meringue toppings.
<u>SEASONINGS</u>	Salt, pepper, spices, vinegar, flavorings, olives, and pickles.	None.

## EGG-FREE DIET SAMPLE MENU

BREAKFAST	<u>LUNCH</u>	<u>DINNER</u>
Orange Juice	Spaghetti with Meatsauce	Baked Chicken Breast
Cold Cereal	Tossed Salad	Steamed Potatoes
Diced Ham	Dressing	Gravy
Toast	Garlic Bread	Broccoli
Margarine	Fruit Cup	Bread
Milk	Milk	Margarine
Coffee	Condiments	Cherry Crisp
Condiments		Milk

<sup>\*</sup>How to read a label for an egg-free diet:

Be sure to avoid foods that contain any of the following ingredients:

- Albumin
- Egg white
- Egg yolk
- Dried egg
- Egg powder
- Egg solids
- Egg substitutes
- Eggnog
- Globin
- Livetin
- Lysozyme (used in Europe)
- Mayonnaise
- Meringue
- Ovalbumin
- Ovomucin
- Ovomucoid
- Ovovitellin
- Simplesse<sup>TM</sup> (used as a fat substitute and is made from either egg or milk protein)

## **GLUTEN-FREE DIET**

<u>PURPOSE</u>: This diet is used in the treatment of gluten induced enteropathy (non-tropical sprue, celiac disease). Celiac sprue is a permanent digestive disease requiring adherence to the diet for the individual's entire life.

<u>DIET PRINCIPLES</u>: A gluten-free diet is a house diet that eliminates those foods that contain gluten, such as wheat, rye, oats, barley, or their derivatives, such as malt from barley. Foods that contain these grains as a base, stabilizer, emulsifier, or thickening agent are also eliminated. Small amounts of gluten can damage the intestines without causing symptoms. Gluten is sometime used as an additive in medications. Many individuals with gluten sensitivity may have secondary lactose intolerance related to mucosal damage.

**ADEQUACY:** This diet meets the Dietary Reference Intakes (DRIs) for most nutrients.

FOODS FOR THE DAY	EXAMPLES OF FOODS	EXAMPLES OF FOODS
_	ALLOWED	TO AVOID
MILK & MILK PRODUCTS	Milk	Commercial chocolate milk
		with cereal additive. Malted
		milk.
MEAT AND SUBSTITUTES	Meat, fish or fowl, cheese,	Breaded products;
	eggs, any gluten-free	commercially prepared meats
	processed meats. Dry beans.	with cereal fillers, such as
		bologna, luncheon meats and
		spreads, hot dogs,
		hamburgers; frozen dinners
		with gluten stabilizers,
		creamed or stuffed items,
		sausage with cereal fillers,
		commercial chili or tacos,
		cheese spreads with wheat,
		cheese mixtures that contain
		gluten, meat substitutes that
DDEAD CEDEAL DICE 0	Durad and analysis and analysis	contain gluten.
BREAD, CEREAL, RICE, &	Bread and crackers made with	Breads, baked products or
PASTA	arrowroot, buckwheat, corn,	cereals made with wheat, rye,
	potato, rice, tapioca, cornmeal,	triticale, barley, oats, wheat
	buckwheat, millet, flax,	germ, bran, graham, gluten or
	sorghum, amaranth, quinoa,	durum. All-purpose flour,
	soybean flour, rice wafers; cornbread and muffins with no	wheat starch, oat bran, farina,
	wheat flour; pure cornmeal	wheat based semolina, spelt, kamut. Baking powder
	tortillas; buckwheat pancakes	biscuits, bran, barley flour,
	or waffles if made without	cake, cookie mixes, cracker
	wheat flour. Rice hominy,	meal, macaroni, noodles,
	gluten-free pasta, corn-based	spaghetti, vermicelli, matzo,
	or pea-based pasta, bean	rye krisp, pancakes, waffles,
	noodles.	zwieback, pretzels.
	nourcs.	Zwiedack, pictzeis.

VEGETABLES	Any vegetable or juice. Potatoes.	Creamed or breaded vegetables, canned baked beans. Creamed or breaded potato. Some French fries.
FRUIT	Any fruit or juice.	Some pie fillings, dried fruit.
<u>FATS</u>	Bacon fat, butter, cream cooking fats, fortified margarine, mayonnaise, oils. Gluten-free salad dressing.	Salad dressings containing gluten commercial salad dressing stabilizers.
BEVERAGES	Carbonated beverages, cocoa (if no wheat flour has been added), coffee, milk, tea, fruit juices, drinks, and vegetable juices.	Ale, beer, whiskey, gin, vodka, postum and other cereal beverages, ovaltine, commercial chocolate milk with cereal additive, malted beverages, root beer, and instant coffee/hot cocoa mixes containing wheat and non-dairy cream substitutes.
DISCRETIONARY CALORIES	Vinegar, nuts, olives, pickles, plain popcorn, peanut butter, potato chips (gluten-free). Cakes, cookies, pastries, etc. prepared with allowed flours; custards, gelatin desserts, homemade puddings (cornstarch, rice, tapioca); rennet desserts, sherbets, except that listed under "Foods To Avoid." Water ice, meringues. Homemade candy from "Foods Allowed." Honey, jam or marmalade, jelly, molasses, syrup, sugar, pure cocoa, pure baking chocolate, coconut, marshmallows.	Gravy, malt extract or flavoring white sauce, cocoa or cocoa syrup containing wheat flour, brewer's yeast (may contain wheat), any foods which list the following ingredients: hydrolyzed vegetable protein, starch (unless specified as corn, tapioca, or potato), emulsifiers, stabilizers, vegetable gum, flavorings, distilled white vinegar and hydrolyzed plant protein. Omit all foods of unknown composition. Any dessert made from wheat, rye, oats or barley such as cakes, cookies, pastries, pies, and pudding. Ice cream and sherbet made with gluten stabilizer. Candy, jam and marmalade made from "Foods To Avoid."

SEASONINGS &	Salt, spices, pepper, herbs,	Any seasoning which lists the
CONDIMENTS	gluten- free mustard and	following ingredients:
	catsup.	hydrolyzed vegetable protein,
		starch (unless specified as
		corn, tapioca, or potato),
		emulsifiers, stabilizers,
		vegetable gum, flavorings,
		distilled white vinegar, and
		hydrolyzed plant protein.

## **GLUTEN-FREE DIET SAMPLE MENU**

BREAKFAST	<u>LUNCH</u>	<u>DINNER</u>
Orange Juice Cold Rice Cereal Scrambled Egg Gluten-Free Bread Toasted Margarine Milk Coffee Condiments	Gluten-Free Pasta and Meatballs Gluten-Free Garlic Bread Margarine Tossed Salad w/Gluten-Free Dressing* Fruit Cup Milk Condiments	Baked Chicken Breast Steamed Potato w/Gluten-Free Gravy Broccoli Cherries Gluten-Free Bread Margarine Milk Condiments

<sup>\*</sup> **Read labels.** Commercial salad dressings may contain wheat flour as a thickening agent.

Sugar, salt, pepper and allowed beverage of choice are routinely served with all meals.

## **COOKING TIPS:**

## Substitutions for 1 cup of Wheat Flour:

- < Corn Flour 1 cup
- < Fine Cornmeal 1 scant cup
- < Coarse Cornmeal 3/4 cup
- < Potato Flour 3/4 cup
- < Rice Flour 3/4 cup
- < Soy Flour 1 cup plus Potato Flour ¼ cup

## For thickening substitute for 1 TB. of wheat flour:

- < Cornstarch, Potato Flour, Rice Starch, Arrowroot ½ TB. (1 ½ tsp.)
- < Quick Cooking Tapioca 2 TB.

#### References:

- 1. Celiac Disease Foundation, 13251 Ventura Blvd. #10, CA 91604, (818) 900-2354 <a href="https://www.celiac.org">www.celiac.org</a>.
- 2. Celiac-Sprue Association/USA, P.O. Box 31700, Omaha, NE 68131-0700, (402) 558-0600 www.csaceliacs.org.

#### **MILK-FREE DIET**

**<u>PURPOSE</u>**: The milk-free diet is designed to prevent or reduce symptoms associated with ingesting cow's milk and cow's milk containing products.

**<u>DIET PRINCIPLES</u>**: A milk-free diet is a house diet that eliminates all cow-milk-containing products. Foods avoided include milk and milk products. Other food ingredients avoided include cream, butter, dry skim milk, buttermilk and cheese and products containing whey, milk solids, curds, casein or lactose. Lactose is sometimes used as filler in medications.

**ADEQUACY:** This diet meets the Dietary Reference Intake (DRIs) for most nutrients, except calcium, vitamin D and possibly protein. Depending on the type of milk substitute used, supplementation of calcium, vitamin D and possibly protein may be recommended by the Registered Dietitian.

FOOD FOR THE DAY	EXAMPLES OF FOODS ALLOWED	EXAMPLES OF FOODS TO AVOID
MILK & MILK PRODUCTS	Milk substitutes made from	Milk, milk drinks, evaporated
	soybean or rice.	milk, powdered milk, half
		and half, condensed milk,
		buttermilk, yogurt, cocoa.
		"Non-dairy products"
		containing casein,
		lactalbumin or lactoglobulin.
MEAT & SUBSTITUTES	Any fresh, frozen or canned	Cheese, cottage cheese, cold
	meat, poultry, fish or egg	cuts or frankfurters
	dishes prepared without milk	containing lactose fillers,
	or milk products, dried	creamed meat, fish or
	beans, nuts, peanut butter and	poultry. Peanut Butter
	tofu.	w/milk solid fillers.
BREADS, CEREALS, RICE,	Whole grain or enriched	Any breads and cereals made
<u>&amp; PASTA</u>	breads & cereals made	with buttermilk, milk, butter,
	without milk.	or dry milk powder. Prepared
	Most sourdough, French and	mixes, such as muffins,
	Italian breads. English	biscuits, waffles, and
	muffin, soda crackers and	pancakes. Any packaged
	matzo.	creamed, scalloped or au
		gratin products.

VEGETABLES	All.	Any prepared with milk or
EDIUM	A 11	milk products.
<u>FRUITS</u>	All.	Any prepared with milk or
		milk products.
<u>FATS</u>	Margarine and salad	Butter, margarine containing
Use sparingly	dressings, which do not	milk solids, whipped cream,
	contain milk or milk solids,	sour cream, cream cheese,
	oils, shortening and bacon.	half- and half, nondairy
		creamers and salad dressings
		containing milk products or
		lactose.
BEVERAGES	Coffee, tea, fruit punch and	Milk containing beverages.
	carbonated beverages, milk	Chocolate drinks.
	free soy, rice beverages.	
DISCRETIONARY	Water and fruit ices, gelatin,	Commercial cakes and
<u>CALORIES</u>	angel food & sponge cake;	cookies; custard, pudding,
	cakes, and cookies made	sherbets, ice cream made
	from allowed ingredients.	with milk; any containing
	Sugars, jam, jellies, plain	chocolate. Milk chocolate.
	sugar candy, marshmallow	Candies containing milk.
	sauce.	
SEASONINGS &	Salts, pepper, spices, vinegar,	Seasoning mixes containing
<u>CONDIMENTS</u>	flavorings, olives and	milk-protein derivatives such
	pickles.	as whey or casein.

# MILK-FREE DIET SAMPLE MENU

BREAKFAST	LUNCH	DINNER
Orange Juice	Spaghetti w/Meatballs	Baked Chicken Breast
Cold Cereal	Tossed Salad	Steamed Potatoes
Diced Ham	Oil/Vinegar Dressing	Gravy
Toast	Garlic Bread	Broccoli
Margarine-100% vegetable	Fruit Cup	Cherry Crisp
Soy Beverage	Soy Beverage	Bread
Coffee	Condiments	Margarine-100% vegetable
Condiments		Soy Beverage
		Condiments

#### **LACTOSE CONTROLLED DIET**

**PURPOSE:** The lactose controlled diet is designed to prevent or reduce symptoms associated with ingesting lactose-containing products such as milk and other dairy products (for instance, cheese, ice cream, yogurt). It is designed for individuals who have symptoms of lactose intolerance, or are diagnosed with lactase deficiency and possibly gluten intolerance.

Lactose is sometimes used as filler in medications. Lactate, lactalbumin, lactylate, and calcium compounds are salts of lactic acid and do not contain lactose.

**<u>DIET PRINCIPLES</u>**: The lactose controlled diet is a house diet with the elimination of lactose-containing foods and beverages.

<u>ADEQUACY</u>: This diet meets the Dietary Reference Intakes (DRIs) for most nutrients, except calcium, vitamin D and protein depending on types of milk substitutes chosen. Calcium, vitamin D and protein supplementation may be recommended by the Registered Dietitian.

#### LACTOSE CONTROLLED DIET

FOOD FOR THE DAY	EXAMPLES OF FOODS ALLOWED	EXAMPLES OF FOODS TO AVOID
MILK & MILK PRODUCTS	Milk substitutes such as soy	Milk, milk drinks, evaporated
	or rice and non-dairy	milk, powdered milk, cheese
	products. Milk treated with	condensed milk, ice cream,
	lactose-reducing enzymes.	yogurt, cocoa.
MEAT & SUBSTITUTES	Any fresh, frozen or canned	Cheese, cottage cheese, cold
	meat, poultry, fish or egg	cuts or frankfurters
	dishes prepared without milk	containing lactose fillers,
	or milk products, dried	creamed meat, fish or
	beans, nuts, peanut butter and	poultry. Peanut Butter
	tofu.	w/milk solid fillers.
BREADS, CEREAL, RICE, &	Whole grain or enriched	Any breads and cereals made
<u>PASTA</u>	breads & cereals.	with buttermilk, milk, or dry
	Most sourdough, French and	milk powder. Prepared
	Italian breads. English	mixes, such as muffins,
	muffin, soda crackers and	biscuits, waffles, and
	matzoh.	pancakes. Any packaged
	Broth type soups.	creamed, scalloped or au
		gratin products. Cream
		soups.

VEGETABLES	All.	Any prepared with milk or cream/dairy products.
FRUITS	All.	Any prepared with milk or cream/dairy products.
<u>FATS</u>	Margarine and salad	Margarine containing milk
Use sparingly	dressings, which do not	solids, whipped cream, sour
	contain milk or milk solids,	cream, cream cheese, half-
	oils, shortening and bacon.	&-half, and salad dressings
		containing milk products or
		lactose.
<u>BEVERAGES</u>	Coffee, tea, fruit punch and	Milk containing beverages.
	carbonated beverages, milk	Chocolate drinks.
	free soy, rice beverages and	
	lactase-hydrolyzed milk.	
DISCRETIOANRY	Water and fruit ices, gelatin,	Commercial cakes and
CALORIES	angel food & sponge cake;	cookies; custard, pudding,
	cakes, and cookies made	sherbets, ice cream made
	from allowed ingredients.	with milk; any containing
	Sugars, jam, jellies, plain	chocolate. Milk chocolate.
	sugar candy, marshmallow	Candies containing lactose.
	sauce.	
SEASONINGS &	Salts, pepper, spices, vinegar,	Sour cream, milk gravies,
<u>CONDIMENTS</u>	flavorings, olives and	cream sauces, whipped
	pickles.	cream, cream cheese.

#### LACTOSE CONTROLLED DIET SAMPLE MENU

BREAKFAST	LUNCH	DINNER
Orange Juice	Spaghetti w/Meatballs	Baked Chicken Breast
Cold Cereal	Tossed Salad	Steamed Potatoes
Diced Ham	Oil/Vinegar Dressing	Gravy
Toast	Garlic Bread	Broccoli
Margarine	Fruit Cup	Cherry Crisp
Soy Beverage or	Soy Beverage or	Bread
Lactase-treated Milk	Lactase-treated Milk	Margarine
Coffee	Condiments	Soy Beverage or
Condiments		Lactase-treated Milk
		Condiments

#### **TYRAMINE RESTRICTED DIET**

**PURPOSE:** The diet is designed to prevent a serious hypertensive drug-nutrient interaction between monoamine oxidase inhibitor drugs and pressor amines, tyramine and dopamine, in foods. These amines are normally oxidized to harmless metabolites by monoamine oxidase, but this enzyme is inhibited by certain drugs. It is recommended that dietary compliance continue for 2 weeks beyond drug treatment.

**<u>DIET PRINCIPLES</u>**: As a general rule, all protein-rich foods that have been aged, dried, fermented, pickled or bacterially contaminated should be eliminated from the diet. The tyramine content of foods can vary greatly due to differences in processing, fermentation or ripening. Prolonged food storage, room temperature and spoilage will also increase the tyramine content of foods; therefore, all foods, especially those containing meat, fish or poultry, should be fresh, fresh frozen or canned. Meats purchased fresh should be prepared and eaten on the day of purchase or stored in the freezer immediately, because fresh foods stored under refrigeration can ferment. Perishable refrigerated items should be consumed within 48 hours of purchase. If storage condition of food is unknown, it should be avoided.

(\*Note: Special adaptation will be needed if a "cook chill" food service is utilized).

**ADEQUACY:** This diet meets the Dietary Reference Intakes (DRIs) for most nutrients.

FOODS FOR THE DAY	EXAMPLES OF FOODS ALLOWED	EXAMPLES OF FOODS TO AVOID
MILK & MILK PRODUCTS	Fresh milk, buttermilk, yogurt, cream, sour cream, cream cheese, cottage cheese, ricotta cheese, processed cheese, ice cream	All aged and mature cheeses like cheddar, swiss, cheese spreads, cheese casseroles or any product made with aged cheese such as salad dressing; any outdated or non-pasteurized dairy product.
MEAT & SUBSTITUTES	Fresh meat, poultry and fish cooked and eaten on the day of purchased or stored in freezer; canned meat, poultry and fish eaten immediately after opening; luncheon meats except those in "Foods to Avoid", hot dogs, bologna and liverwurst eaten immediately after opening. Fresh or canned tuna, mackerel, anchovies or pilchards may be used with caution.	Pepperoni, salami, pastrami, mortedella and air dried sausage; smoked or pickled fish; non-fresh meat or poultry; any leftover foods containing meat, fish or poultry; protein supplements; tofu and soy products.

BREAD, CEREALS, RICE & PASTA	All except in "Foods to Avoid."	Any containing cheese.
VEGETABLES	All except in "Foods to Avoid."	Any overripe, spoiled, moldy or fermented vegetable; Italian green beans, snow peas, broad bean pods; sauerkraut, kimchee, overripe avocado.
<u>FRUITS</u>	All except in "Foods to Avoid."	Any overripe, spoiled, moldy or fermented fruit or banana with peel.
DISCRETIONARY CALORIES	All except in "Foods to Avoid."	Yeast extracts, meat extracts, meat tenderizers, bouillon cubes; instant or canned soups; soy sauce; gravies and sauces containing meat extracts or non-fresh meats.

#### TYRAMINE RESTRICTED DIET SAMPLE MENU

BREAKFAST	<u>LUNCH</u>	DINNER
Orange Juice	Spaghetti w/Meatballs	Baked Chicken Breast
Scrambled Eggs	Tossed Salad	Steamed Potatoes
Toast	Oil/Vinegar Dressing	Gravy
Margarine	Garlic Bread	Broccoli
Milk	Fruit Cup	Cherry Crisp
Condiments	Milk	Bread
	Condiments	Margarine
		Milk
		Condiments

- References:
  1. Pronsky, Z. *Food Medication Interaction*, 11<sup>th</sup> ed., Birchrunville, PA: Food-Medication Interactions; 2000.
  - 2. *Manual of Clinical Dietetics*. 6<sup>th</sup> ed. Chicago, Ill: American Dietetics Association; 2000.

### EATING DISORDER DIET

#### PRADER-WILLI SYNDROME (PWS)

**PURPOSE:** Prader-Willi Syndrome is a genetic disorder resulting in mild to moderate levels of mental retardation. Individuals with PWS have an insatiable appetite, a marked obsession with food and excessive weight gain (this usually occurs after ~ 2 years of age). PWS individuals have a dysfunctional hypothalamus that doesn't allow appetite control or feeling of satiety. Most health complications are related to that of obesity (i.e.: heart disease, hypertension, diabetes). The hyperphagia coupled with the reduced metabolic rate (secondary to reduced muscle mass )indicates the need for a very reduced caloric diet, behavior modification and consistent physical activity.

**<u>DIET PRINCIPLES</u>**: Use the Body Mass Index (BMI) to set a weight goal or an appropriate weight range. The BMI values can identify if one is of normal weight, severely overweight or morbidly obese (see Table 1). Caloric needs for those with PWS are based upon the individual's height:

10-14 kcal /cm of height = for weight maintenance 7-8 kcal /cm of height = for weight loss

<u>ADEQUACY</u>: It may be difficult to meet the Dietary Reference Intakes (DRIs) when daily caloric requirement is less than 1500 calories. Multivitamin and mineral supplementation should be evaluated on an individual basis.

**FOODS ALLOWED:** All foods allowed but need to follow meal plan and make adjustments when special treats are consumed. Individuals should choose foods that are higher in fiber, as they add bulk and may help an individual feel satisfied. Meal patterns should include a large salad at the lunch and dinner meal. Individuals can use lemon juice or seasoned rice vinegar to top the salad (no calories/fat). Vegetables should be kept handy for snacks.

**FOODS TO AVOID:** Soda, punch and other sweet drinks will provide a lot of unwanted calories and no nutritional value. Individuals should encourage more water intake and/or other calorie free drinks such as coffee, tea, and sugar-free drink. Beware of juices as they can provide a lot of extra calories in small volume.

**SPECIAL CONSIDERATIONS WHEN EATING OUT:** When eating at a restaurant, individuals can follow these simple suggestions: plan what you will order before getting to the restaurant; avoid selections with words like super size, supreme, colossal or large – these meals have larger portions than what is needed; select items that are baked, broiled, or steamed; ask for sauces, dressings or butter to be omitted or put on the side for better portion control; ask for low calorie substitutes; avoid ordering dessert. If others are eating dessert than try some fresh seasonal fruit or have everyone share one dessert.

Table 1 – BMI Guidelines for Adults with PWS

	Underweight	Acceptable	Overweight	Severely	Morbidly
				Overweight	Obese
Men	< 20.7	20.7 - 27.8	> 27.8	> 31.1	> 45.4
Women	<19.1	19.1 - 27.3	> 27.3	> 32.3	> 44.8
Health	Unlikely	Attainable	Attainable	Increased	Weight
Hazard	weight for	for some	for most	disease risk.	reduction
	an individual	individuals	individuals		may be
	w/PWS.	w/PWS.	with PWS.		lifesaving.
	May be	Lowest	Has some		
	associated	health	health		
	with health	hazard.	hazards.		
	problems.				

#### References:

- 1. Carolyn J. Hoffman, MS, RD; Deborah Aultman, RD; Peggy Pipes, MPH, RD: *A Nutrition Survey of Recommendations for Individuals with Prader-Willi\_Syndrome Who Live in Group Homes*. Journal of American Dietetic Association, 1992; 92:828.
- 2. Karen H. Borgie, MA, RD. *Nutrition for Adolescents and Adults with Prader-Willi Syndrome*. Prader-Willi California Foundation, 1995.
- 3. Prader-Willi Association (USA) at www.pwsausa.org.
- 4. Prader-Willi Food Pyramid at <a href="https://www.pwsausa.org/syndrome/foodpyramid.htm">www.pwsausa.org/syndrome/foodpyramid.htm</a>.

## RELIGIOUS DIETS

#### **ISLAMIC DIET**

**PURPOSE:** This diet is designed to honor and respect Islamic religious obligations.

<u>DIET PRINCIPLES</u>: In general Islam allows Muslims to eat everything, which is good for health. It restricts items such as pork and its by-products as well as any kind of intoxicating drinks and narcotics. There are few among the Islamic faith who believe that adopting a vegan diet (free of meats, dairy products and eggs) is the easiest way for Muslims to live in accordance with the ethical, environmental and health precepts of Islam.

<u>ADEQUACY</u>: The diet excluding only pork and pork by-products meets the Dietary Reference Intakes (DRIs) for most nutrients.

**FOODS ALLOWED:** All except those listed in "Foods to Avoid".

**FOODS TO AVOID:** Pork and pork by-products.

#### **ISLAMIC DIET SAMPLE MENU**

BREAKFAST	LUNCH	<u>DINNER</u>
Orange Juice	Spaghetti	Baked Chicken Breast
Scrambled Eggs	Meatballs	Steamed Potatoes
Cold Cereal	Marinara Sauce	Gravy
Toast	Tossed Salad	Steamed Broccoli
Margarine	Salad Dressing	Bread
Milk	Garlic Bread	Margarine
Coffee	Fruit cup	Cherries
Condiments	Milk	Milk
	Coffee	Coffee
	Condiments	Condiments

#### **KOSHER DIET**

<u>PURPOSE</u>: This diet is for persons who wish to observe Jewish dietary laws and the practice known as Kashrut. The kosher diet may also be acceptable to people of the Muslim faith.

**<u>DIET PRINCIPLES</u>**: The word kosher means correct and acceptable to eat. It refers to the application of Jewish dietary laws to food preparation and consumption. Jewish dietary law divides foods into 2 categories: foods, which are never acceptable and foods which may be consumed when certain preparation practices are followed. The following are generalized descriptions of Jewish dietary laws and the terms associated with the laws. It is best to ask an individual or his/her family about the level of dietary observance, as this can vary from individual to individual. A local rabbinical council can also provide advice on the use of foods and dietary practices.

Most foods are classified as *Pareve* (neutral). This includes eggs, kosher fish, ices, beverages, fruits, vegetables and grain products. *Pareve* foods may be used as a part of a meal with either meat or dairy foods. When they are cooked together with meat or dairy foods they are classified as either meat or dairy.

Products which are considered unclean or non-approved are *treif*. Pork, pork products, shellfish, eel, shark, catfish, whale, porpoise, game birds, and rabbits are *treif*. An egg with a blood spot is considered *treif*. *Treif* are not eaten.

Dairy foods (*milchig*) and meats (*fleishig*) are never eaten, served or cooked together. Separate sets of dishes, utensils and cookware are used for preparing dairy and meat dishes. The intervals between eating dairy and meat foods vary depending on the individual. Usually, dairy products may be eaten at least one-half hour before a meat meal. After a meat meal, the interval for consuming dairy foods is between 1 to 6 hours, depending on custom.

Beef, lamb, veal, chicken, turkey, and other poultry products are considered kosher meats. These foods must come from animals which both chew their cud and have split hooves. Kosher meats are also slaughtered in a ritual manner which is considered humane. This is followed by a process which removes the blood by salting and soaking.

Prepared, pre-packaged and processed foods must display a symbol which designates them as kosher. Not all symbols and certifications are acceptable to all individuals. The following are symbols used to indicate kosher products:

- U- Copyrighted by the Union of Orthodox Jewish Congregations of America.
- K- Copyrighted by Kashrus Laboratories. Does not guarantee a product is kosher, only certifies rabbinical supervision.
- VH- Copyrighted by Vaad Harobonim.
- cRc- Copyrighted by Chicago Rabbinical Council.
- MK- Copyrighted by Montreal Vaad Hair.

When providing a kosher diet in a non-kosher kitchen, it is best to consult with the individual or his/her family regarding personal customs.

Since most food service or kitchen facilities are non-kosher, it may be easiest to serve frozen meals which are certified kosher. When serving these meals, they should be sealed when served to the individual. The individual should then open and eat the foods. It would also be appropriate to use new disposable, single-use utensils, pans and flatware.

#### Special Planning for Individuals Receiving the Kosher Diet:

- The sodium content of frozen kosher meals may not allow their use on restricted sodium diets.
- During essential medical treatment, necessary non-kosher foods may be used. Individuals
  may consult a rabbi if this is under consideration.
- Some individuals observing kosher diet practices may prefer a cold evening meal on Saturday (Sabbath), due to the traditional restriction against cooking on the Sabbath.
- The observance of Jewish holidays (Passover and Yom Kippur) should be carefully
  planned. Special foods marked "kosher for Passover" are preferred by many. The
  observance of Yom Kippur includes a complete fast, which may be medically
  contraindicated for some. Consultation with a rabbi is recommended.

**ADEQUACY:** This diet meets the Dietary Reference Intakes (DRIs) for most nutrients.

FOODS FOR THE DAY	EXAMPLES OF FOODS	EXAMPLES OF FOODS
_	ALLOWED	TO AVOID
MILK & MILK PRODUCTS	Milk, cheese, cream, yogurt, sour cream, and cottage cheese with proper certification.  All when combined with in a meal or when mean served.	
MEAT & SUBSTITUTES	Meat: All animals which chew cud (ruminants) and have split hooves and turkey, chicken, duck, goose, and Cornish game hens, slaughtered in the prescribed manner. Meat and poultry packed and labeled kosher or from a kosher foodservice facility or caterer.	Pork, pork products, non-kosher meats, game birds, meat served with dairy products, kosher meat prepared in non-kosher establishments, animals that eat meat.
	Kosher fish with fins and scales. Canned fish with fins and scales. (Halibut, haddock, whitefish, salmon, tuna, sardines, gelfite fish).	Shellfish (clams, crab, lobster). Non-kosher fish (turbot, sturgeon, catfish, shark, whale, porpoise, eel).
	Eggs prepared in their shell (soft or hard cooked). Eggs cooked in the microwave.  Beans, prepared any way.	Raw eggs, eggnog, pan- prepared eggs, eggs with blood spots, eggs from wild birds. Beans prepared with milk or
		milk products if served with meat.
BREAD, CEREALS, RICE & PASTA	Bread and ready baked products with certification. Matzo.	Bread made with non kosher products (lard), bread made on non-kosher premises, bread made with milk or butter served with meat.
	Cereals with certification. Pastas and rice, which are certified, cooked in disposable dishes in microwave.	Cereals without certification or those cooked on non-kosher premises. Any cereals containing glycerine, stearates, mono-and diglycerides, vegetable shortening or gelatin. Pastas and rice made on non-kosher premises or combined with milk and meat in a casserole.

VEGETABLES	All vegetable juices which are certified. Fresh and raw vegetables and salads. Frozen and canned vegetables. Pre-prepared vegetables certified as kosher. All cooked in the microwave in disposable dishes or prepared with single-use utensils. White or sweet potatoes cooked in disposable dishes in microwave or baked.	Non-kosher certified tomato products. Beans, pre-prepared vegetables, and vegetables processed in a non-kosher facility. White or sweet potatoes made on non-kosher premises and combined with milk and meat in a casserole.
FRUITS	All fruit juices. Fresh and raw fruits and fruit salads. Dried, canned and frozen fruits. Fruit desserts and prepared fruits certified as kosher. All prepared with single-use utensils.	Uncertified grape juice. Fruits and fruit desserts prepared on non-kosher premises.
DISCRETIONARY CALORIES	Kosher bouillon cubes. Kosher soup mixes.	All others.
	Butter with a dairy meal, margarine and mayonnaise, non-dairy creamer. Pure vegetable oil and shortening with kosher certification. Salad dressing certified as kosher. Peanut butter.	Butter with a meat meal.  Lard and shortening with animal fat.
	Certified cake, pie, cookies, pastries, custard, puddings, ice cream and sherbet with dairy meal only. Gelatin made with agar or carrageinan base, sorbet.	Cake, pies, cookies, pastry, custard, pudding, ice cream, and sherbet made in a non-kosher facility.
	Coffee, tea, decaf coffee, carbonated beverages, and punches.	Marshmallows, gelatin and gelatin-containing products.
	Salt, pepper. Honey, sugar, certified jams and jellies, sugar substitutes. Certified chocolate and candies. Certified commercial enteral products and infant formulas.	Uncertified grape jam or jelly.

#### **KOSHER DIET SAMPLE MENU**

BREAKFAST	<u>LUNCH</u>	<u>1400</u>	DINNER	<u>2000</u>
Orange Juice	Frozen Kosher Meal:	Milk	Frozen Kosher Meal:	Milk
Scrambled Egg	Roast Beef		Chicken	
Toast	Gravy		Potatoes	
Margarine	Noodles		Spinach	
Cold Cereal	Garden Vegetables		Fruit Cocktail	
Milk	Diced Pears		Bread	
Condiments	Bread		Margarine	
	Margarine		Condiments	
	Condiments			

#### References:

- 1. American Dietetic Association: *Manual of Clinical Dietetics*. 6<sup>th</sup> Ed. Chicago, IL: Chicago Dietetic Association, South Suburban Dietetic Association, Dietitians of Canada. 2000.
- 2. DeYoung, L. Ed. *Mayo Clinic Diet Manual: A Handbook of Dietary Practices*. 7<sup>th</sup> Ed. St. Louis, MO: Mosby, 1994.
- 3. *How Do I Know It's Kosher*?-- An OU Kosher Primer. Available at: http://www.ou.org/kosher/primer.html. Accessed September 19, 2001.
- 4. Judaism 101: Kashrut: *Jewish Dietary Laws*. Available at: http://www.jewfaq.org/koshrut,htm. Accessed September 19, 2001.

#### **VEGETARIAN DIETS**

<u>PURPOSE</u>: These diets are designed to serve the needs of individuals who choose to omit all or some animal products for religious reasons, health concerns, environmental considerations, humanitarian issues, ethical concerns and economic or political reasons.

**<u>DIET PRINCIPLES</u>**: Vegetarian diets are designed to omit all or specified animal products.

<u>ADEQUACY</u>: Appropriately planned vegetarian diets are healthful and nutritionally adequate. Careful planning is necessary in order to meet the Dietary Reference Intakes (DRIs) for vitamins and minerals. A consultation with a Registered Dietitian is recommended. A daily multivitamin-mineral supplement is recommended with a vegan diet.

#### **TYPES OF VEGETARIAN DIETS**

Type	Foods Included	Foods Excluded
Lacto-ovo-vegetarian	Fruits, grains, legumes, nuts, seeds, vegetables, milk and milk products, eggs.	Meat, poultry, fish.
Lacto-vegetarian	Fruits, grains, legumes, nuts, seeds, vegetables, milk and milk products.	Meat, poultry, fish, eggs.
Ovo-vegetarian	Fruits, grains, legumes, nuts, seeds, vegetables, eggs.	Meat, poultry, fish, milk and milk products.
Semi-Vegetarian	Fruit, grains, legumes, nuts, seeds, vegetables, milk and milk products, eggs, and occasionally fish, meat and eggs.	None
Vegan		
	Fruits, grains, legumes, nuts, seeds, vegetables.	Meat, poultry, fish, eggs, milk and milk products.

#### LACTO-OVO-VEGETARIAN DIET SAMPLE MENU

BREAKFAST	LUNCH	DINNER
Orange Juice	Spaghetti	Veggie Burger
Scrambled Eggs	Marinara Sauce	Steamed Potatoes
Cold Cereal	Tossed Salad with Dressing	Vegetarian Gravy
Toast	Garlic Bread	Broccoli
Margarine	Fruit Cup	Cherries
Milk	Milk	Bread
Coffee	Condiments	Margarine
Condiments		Milk
		Condiments

#### **VEGAN DIET SAMPLE MENU**

<b>BREAKFAST</b>	<u>LUNCH</u>	<u>DINNER</u>
Orange Juice	Spaghetti	Veggie Burger
Oatmeal	Marinara sauce	Steamed Potatoes
Toast	Tossed Salad with Dressing	Vegetarian Gravy
Peanut Butter	Mixed Nuts	Broccoli
Jelly	Garlic Bread	Cherries
Coffee/Tea	Fruit Cup	Margarine
Condiments	Beverage	Bread
	Condiments	Beverage
		Condiments

# METABOLIC DISORDER DIETS

#### MAPLE SYRUP URINE DISEASE DIET (MSUD)

**PURPOSE:** This diet is indicated for individuals who have maple syrup urine disease which results from a deficient enzyme (branched chain alpha keto acid dehydrogenase, BCKD) necessary for the breakdown of the Branched Chain Amino Acids (BCAA), leucine, isoleucine, and valine. The diet needs to be continued permanently.

**<u>DIET PRINCIPLES</u>**: The diet limits isoleucine, leucine, and valine intakes to amounts needed for protein synthesis. Nitrogen is provided as L-amino acids.

<u>ADEQUACY</u>: The individual's daily requirements for kilocalories, protein, leucine, isoleucine, and valine should be assessed by the Registered Dietitian.

**FOODS ALLOWED:** The diet for MSUD necessitates the use of a semisynthetic formula. Small amounts of low-protein foods are used to provide the BCAA needs of the person. The amount of milk, if any, to be added to meet the person's needs for the BCAA is also estimated.

**FOODS TO AVOID:** High-protein foods for which the BCAA-containing ingredients cannot be determined are omitted from the diet.

#### PHENYLKETONURIA DIET (PKU)

<u>PURPOSE</u>: The purpose of the diet is to treat phenylketonuria (PKU). This is a disorder that results from a defective or lacking enzyme phenylalanine hydroxylase which converts the essential amino acid phenylalanine to tyrosine. This diet is usually considered a "diet for life". The diet helps prevent neurological deterioration, and potentially improves behaviors of late treated or untreated individuals.

**<u>DIET PRINCIPLES</u>**: A semi-synthetic, phenylalanine-free, tyrosine supplemented formula/medical food provides protein and essential nutrients. Small amounts of natural foods are provided to provide phenylalanine at the individual's needs and tolerance level. Each diet plan is specially designed by a Registered Dietitian to meet individual needs and goals.

<u>ADEQUACY</u>: The diet is adequate with inclusion of the phenylalanine-free, tyrosine-supplemented formula/medical food and limited amounts of phenylalanine foods. Essential vitamins/minerals are provided by the medical food or additional supplementation.

**FOODS ALLOWED:** Low-protein cereals, low-protein pasta, fruits, vegetables, bread and phenylalanine-free foods.

**FOODS TO AVOID OR RESTRICTED:** All high-protein foods such as dairy products, eggs, fish, legumes, meat, nuts, poultry and foods containing aspartame (Equal® or Nutrasweet®).

#### Additional References:

- 1. Dolan, Barbara E. RN, MSN, Koch, Richard MD, Bekins, Christina, MS, RD, Schuett, Virginia E. MS, RD. *Diet Intervention for Adults with Untreated PKU*. National PKU News; 1999.
- 2. Mead Johnson Nutritionals. Dietary Management of Metabolic Disorders; 1994.
- 3. Ross Laboratories. The Ross Metabolic Formula System Nutritional Support Protocols; 1993.
- 4. Scientific Hospital Supplies. Metabolic Checklist- Nutritional Products for Inherited Metabolic Disorders; 1993.
- 5. Seisa, Ann C. RN, BSN, Corder, Carolyn, MS, RD, Koch, Richard, MD. *The Successful Adaptation of an Untreated PKU Adult from a State Developmental Center to Community Residential Living*. The Lanterman Provider; 1998.

## ENTERAL ALIMENTATION

#### **ENTERAL ALIMENTATION**

#### (Tube Feeding)

<u>PURPOSE</u>: Tube feedings are indicated as means of nourishment when normal swallowing has been inhibited or interfered with as in:

- 1. Difficulty with sucking and/or swallowing with demonstrated risk of aspiration.
- 2. Anomalies: Cleft palate, Esophageal atresia, Tracheoesophageal fistula, other GI tract anomalies.
- 3. Neurologic disorders.
- 4. Head and neck surgery.
- 5. Mandibular fractures.
- 6. Severe comatose or unconscious states.
- 7. Trauma or paralysis of oral pharyngeal cavity.
- 8. When nutrient needs cannot be met orally: Anorexia, weight loss, growth failure, inadequate nutrient intake, hypermetabolic states, chronic non-specific diarrhea, short gut syndrome.
- 9. Other GI problems.

<u>ADEQUACY</u>: The adequacy of a tube feeding is dependent on the product used and the quantity provided. Refer to product information chart and consult with a Registered Dietitian for specific information. Standard and modified (e.g. concentrated, diluted, fortified, etc.) formulas must be analyzed by a Registered Dietitian to assure the adequacy of caloric, carbohydrate, protein, vitamin, mineral and fluid content.

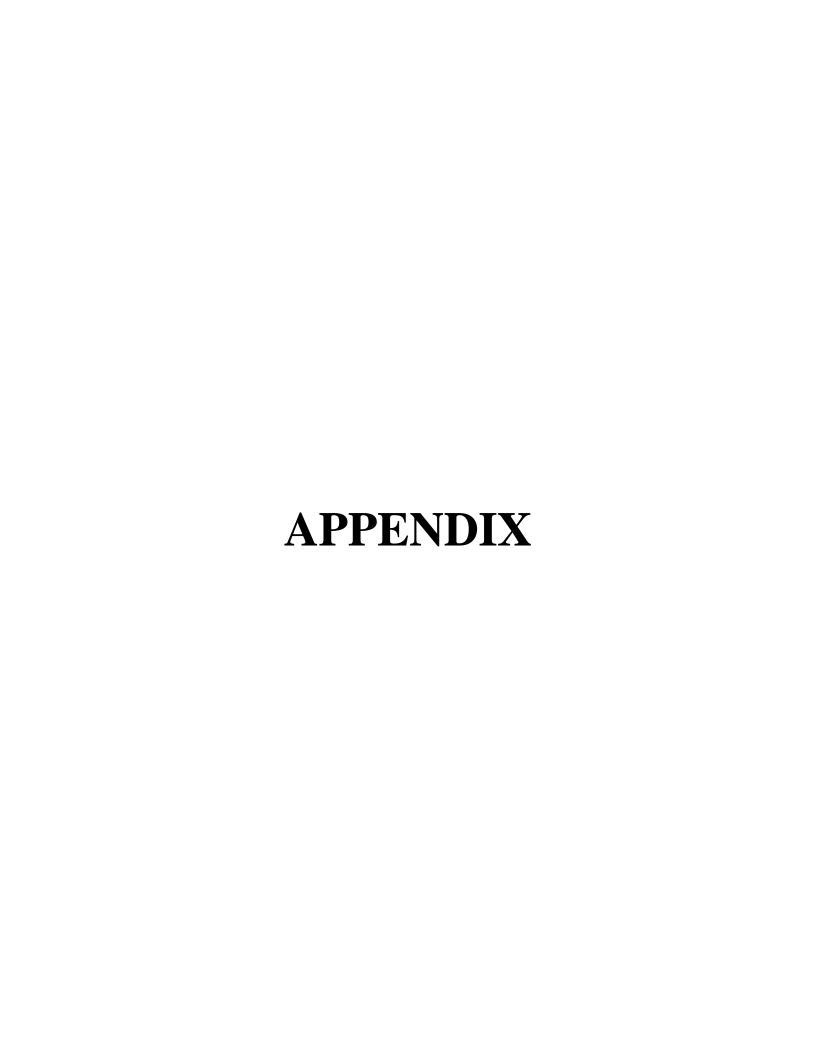
#### **DIET ORDERING:**

All orders for tube feeding must include the following information:

- Formula (s).
- Formula volume per feeding (ml only) and total formula volume/24 hours (ml only).
- Frequency of feedings (Sig): include administration times.
- Total calories per 24 hours.
- Additives (Carbohydrate or Protein powders, etc.: Amount added to each feeding in tablespoons, teaspoons, milliliters, or ounces and total amount per 24 hours).
- Tube Type (G.T., N.G. or J.J.).
- Feeding Method: Pump (including administration rate), Bolus or Gravity (number of minutes for feeding).
- Flushes (feeding and medication) before, after or both.
- Type of system: closed or open.

#### References:

- 1. Brummit P and Norner B. *Practical Considerations in Enteral Nutrition*. Evansville, IN: Mead Johnson & Company; 2001.
- 2. Department of Pharmaceutical Services. *Parenteral and Enteral Handbook*. Los Angeles, CA: UCLA Medical Center, 1997
- 3. Gottschlich MM, ed. *The Science and Practice of Nutrition Support*. Dubuque, IA: Kendall/Hunt Publishing; 2001.
- 4. Hall JC. *Best Practice Guidelines for Tube Feeding: A Nurses Pocket Manual.* Columbus, OH: Ross Products Division, Abbott Laboratories, 1997.
- 5. Matarese L and Hamilton C. *Nutrition Support: Indications and Efficacy*. In: Skipper, A ed. Dietitian's Handbook of Enteral and Parenteral Nutrition. Gaithersburg, MD: Aspen Publishers, Inc.; 1998.



#### **BODY MASS INDEX (BMI)**

BMI, the ratio between body weight and height, is used by more doctors to evaluate health risk. BMI is an excellent indicator of nutritional health and provides good information about general health.

BMI is only a guideline. It may not be appropriate for everyone, including children, pregnant women, the frail elderly and trained athletes.

 $BMI = \underbrace{weight \ in \ kilograms}_{height \ in \ meters^2} \qquad \underbrace{wt(kg)}_{ht(m)^2}$ 

BMI =  $\frac{\text{weight in pounds}}{\text{height in inches}^2}$   $\frac{\text{wt(lb)}}{\text{ht(in)}^2}$  x 705

BMI values are probably most valuable for evaluating degrees of obesity and are less useful for evaluating non-obese people's body fatness.

#### BMI Categories\*

- Underweight=<18.5
- Normal weight=18.5-24.9
- Overweight=25-29.9
- Obesity= 30-39.9
- Extreme obesity=40+

<sup>\*</sup>Refer to table on following page

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			Normal	mal			Overweight	ight		Opese						Extrem	Extreme Obesity					
BMI	19	20	72	22 23	3 24	25	26 27	28 29	30	31 32 33 34	35	36 37	7 38 39	40	41 42	43 44	1 45 46	47 48	49	50 51	52 53	3 54
Height (inches)	(t (s)									Be	Body Weight (pounds)	ht (pour	(spu									
28	91	96	100	105 11	110 115	119	124 129	134 138	143	148 153 158 16	162 167	172 177	7 181 186	191	196 201	205 210	0 215 220	224 229	234	239 244	248 253	3 258
29	94	66	401	109 114	4 119	124	128 133	138 143	148	153 158 163 16	168 173	178 183	3 188 193	198	203 208 3	212 217	7 222 227	. 232 237	242	247 252	257 262	2 267
09	26	102	. 401	112 118	8 123	128	133 138	143 148	153	158 163 168 17	174 179 1	184 189	9 194 199	204	209 215 ;	220 225	5 230 235	240 242	250	255 261	266 271	1 276
61	100	106	11	116 122	2 127	132	137 143	148 153	158	164 169 174 18	180 185 7	190 195	5 201 206	211	217 222 ;	227 232	2 238 243	248 254	259	264 269	275 280	0 285
62	104	109	115	120 126	131	136	142 147	153 158	164	169 175 180 18	186 191	196 202	2 207 213	218	224 229 ;	235 240	0 246 251	256 262	267	273 278	284 289	9 295
63	107	113	118	124 130	135	141	146 152	158 163	169	175 180 186 19	191 197 2	203 208	8 214 220	225	231 237 ;	242 248	8 254 259	265 270	278	282 287	293 299	9 304
64	110	116	122	128 134	140	145	151 157	163 169	174	180 186 192 19	197 204 2	209 215	5 221 227	232	238 244 ;	250 256	6 262 267	273 279	285	291 296	302 308	8 314
65	114	120	126	132 138	144	150	156 162	168 174	180	186 192 198 20	204 210 2	216 222	2 228 234	240	246 252 ;	258 264	4 270 276	282 288	294	300 306	312 318	8 324
99	118	124	130	136 142	2 148	155	161 167	173 179	186	192 198 204 21	210 216 2	223 229	9 235 241	247	253 260 3	266 272	2 278 284	291 297	303	309 315	322 328	8 334
29	121	127	134	140 146	6 153	159	166 172	178 185	191	198 204 211 21	217 223 2	230 236	6 242 249	255	261 268 ;	274 280	0 287 293	299 306	312	319 325	331 338	8 344
89	125	131	138	144 151	1 158	164	171 177	184 190	197	203 210 216 22	223 230 2	236 243	3 249 256	262	269 276	282 289	9 295 302	308 315	322	328 335	341 348	8 354
69	128	135	142	149 155	5 162	169	176 182	189 196	203	209 216 223 23	230 236 2	243 250	0 257 263	270	277 284 ;	291 297	7 304 311	318 324	331	338 345	351 358	8 365
02	132	139	146	153 160	167	174	181 188	195 202	209	216 222 229 23	236 243 2	250 257	7 264 271	278	285 292 ;	299 306	6 313 320	327 334	341	348 355	362 369	9 376
71	136	143	150	157 165	172	179	186 193	200 208	215	222 229 236 24	243 250 2	257 265	5 272 279	286	293 301 (	308 315	5 322 329	338 343	351	358 365	372 379	9 386
72	140	147	154	162 169	177	184	191 199 3	206 213	221	228 235 242 25	250 258 2	265 272	2 279 287	294	302 309 3	316 324	4 331 338	346 353	361	368 375	383 390	0 397
73	4	151	159	166 174	4 182	189	197 204 ;	212 219	227	235 242 250 257	265	272 280	0 288 295	302	310 318 3	325 333	3 340 348	355 363	371	378 386	393 401	1 408
74	148	155	163	171 179	9 186	194	202 210 ;	218 225	233	241 249 256 26	264 272 2	280 287	7 295 303	311	319 326 3	334 342	2 350 358	365 373	381	389 396	404 412	2 420
75	152	160	168	176 184	192	200	208 216 3	224 232	240	248 256 264 27	272 279 2	287 295	5 303 311	319	327 335 3	343 351	1 359 367	375 383	391	399 407	415 423	3 431
9/	156	164	172	180 189	197	205	213 221	230 238	246	254 263 271 27	279 287 2	295 304	4 312 320	328	336 344 3	353 361	1 369 377	385 394	402	410 418	426 435	5 443
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Source: Adapted from Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults: The Evidence Report.

### ESTIMATED CALORIE REQUIREMENTS FOR SPECIFIC DEVELOPMENTAL DISABILITIES

(according to individual heights)<sup>1</sup>

Developmental Disability	Guide for Calorie Intake
Cerebral Palsy A disorder of muscle control or coordination resulting from injury to the brain during its early (fetal, perinatal and early childhood) stages of development. There may be associated problems with intellectual, visual or other functions.	13.9 kcal/cm (35.3 kcal/in) 5-11 years. Mild to moderate activity level. 11.1 kcal/cm (28.2 kcal/in) 5-11 years. Severe restrictions in activity.  Adults with athetosis- extra 500 kcal/day²
Cystic Fibrosis A chronic disease of childhood. Associated with it are chronic pulmonary dysfunction, malabsorption, steatorrhea, and malnutrition. Growth failure is common.	14 kcal/cm (35 kcal/in) 1-3 years. 15 kcal/cm (38 kcal/in) 4-6 years. 18 kcal/cm (45 kcal/in) 7-10 years.
Down Syndrome Results from an extra #21 chromosome causing development problems such as congenital heart disease, mental retardation, small stature, and decreased muscle tone.	16.1 kcal/cm (40.9 kcal/in) boys. 14.3 kcal/cm (36.3 kcal/in) girls.
Prader-Willi Syndrome A disorder characterized by uncontrollable eating habits, inability to distinguish hunger from appetite, severe obesity, poorly developed genitalia and moderate to severe mental retardation	Adult recommendations: <sup>3</sup> 10-14 kcal/cm -maintenance 7-8 kcal/cm - weight loss 1,000 kcal /day or more, encourage daily aerobic exercise and control access to food
Spina Bifida (Myelomeningocele) Results from a midline defect of the skin, spinal column, and spinal cord, characterized by hydrocephalus, mental retardation, and lack of muscular control.	7 kcal/cm (17.78 kcal/in) for weight loss and as low as 500 kcal/day for severely immobilized. As a general recommendation, use 50% of the kcal level of a normal child.

<sup>1</sup>Heinrich, E & Rokusek, C. 1992. <u>Nutrition and Feeding for Persons with Special Needs</u>. South Dakota University Affiliated Program (SDUAP) University of South Dakota, School of Medicine and the South Dakota Department of Education & Cultural Affairs - Child and Adult Nutrition Services, Pierre, SD.

<sup>3</sup>Hoffman, CJ, Altman, D. & Pipes, P. "A nutrition survey of and recommendations for individuals with Prader-Willi Syndrome who live in group homes." *J. Am Diet Assoc.* 92:823-835.

Note: This chart was developed for children but can be used as a starting point for adults because some adults are the size of children. Monitor weight and adjust calorie intake as needed.

<sup>&</sup>lt;sup>2</sup> Johnson RK, Goran, MI, Ferrara, MS, Poehlman, ET. "Athetosis increases resting metabolic rate in adults with cerebral palsy." *J. Am Diet Assoc.* 95:145-148, 1995

#### **HIGH RISK CONDITIONS**

Listed below are high risk conditions that require Medical Nutritional Therapy by a Registered Dietitian:

- High risk cardiovascular indicators.
- Protein depletion serum albumin 3.0 or below.
- New long bone fracture.
- Unstable GI conditions.
- Renal failure.
- Cancer.
- Consistent meal refusal or inadequate intake of meals (50% or less).
- Decubitus ulcer.
- Chronic underweight (10% or below).
- Chronically poor oral intake of food and/or liquid resulting in nutrition deficiencies or dehydration.
- Unplanned weight loss:
  - ➤ 1 week 2% or greater
  - ➤ 1 month 5% or greater
  - > 3 months 7.5% or greater
  - ► 6-12 month 10% or greater,
  - > or a steady gain or loss that doesn't fall into the above %'s.
- Obesity (20% or more above acceptable weight range) with one or more existing medical conditions impacting nutritional status.
- Dysphagia with documented aspiration, which impacts nutritional status.
- Type I diabetes or poorly controlled Type II diabetes.
- Increased metabolic needs i.e. burn, trauma, surgery, fever, infection.
- Uncontrolled hypoglycemia.
- Food/medication interactions having an active impact on nutritional status.
- Dehydration.

#### **SUGGESTED REFERENCES FOR ADDITIONAL INFORMATION**

- 1. "Nutrition in comprehensive program planning for persons with developmental disabilities." *Journal of American Dietetic Association*.1997;97:189-193.
- 2. "Translation of diabetes nutrition recommendations for healthcare institutions." *Journal of American Dietetic Association*. 1997;97:52-53.
- 3. "Dietary reference intakes for energy, carbohydrates, fiber, fat, fatty acids, cholesterol, protein, and amino acids." *Journal of American Dietetic Association*. 2002;102:1621-1630.
- 4. "Liberalized diets for older adults in long-term care." *Journal of American Dietetic Association*. 2002;102:1316-1322.
- 5. www.mypyramid.gov
- 6. www.dashdiet.org
- 7. www.eatright.org
- 8. www.dietitian.org