Name	Section	Date
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Lab All-I MEDFICTS: Evaluating Your Diet for Cholesterol Control

This assessment looks at eight different categories of foods; each food category is divided into two groups. Group 1 foods are high in fat, saturated fat, and/or cholesterol; Group 2 foods are lower in fat. Think about the foods you eat each week. Look at each food category—are the foods you eat listed under Group 1 or Group 2? Once you know the group, follow the line over to the circles under "Weekly Consumption." Check the circle that best describes the number of servings of those foods you usually eat in one week. Then check the circle for the portion size you usually eat. Do the same thing for each of the food groups.

WEEKLY

CONSUMPTION SIZE **SCORE** FOOD CATEGORY **MEATS** Recommended amount per day: ≤ 6 oz (equal in size to 2 decks of playing cards). Base your estimate on the foods you consume 4 or most often. 3 or more Large Rarely/ Average · Beef and lamb selections are trimmed to 1/8 inch fat. Small **GROUP 1:** 10 g or more total fat in 3 oz cooked portion Other Meat, Poultry, 7 pts 3 pts 3 pts 2 pts Processed Meats Seafood Beef Pork chops Ground beef 1/4 lb burger or large sandwich (center loin) Ribs Pork roast Steak (T-bone, Bacon Lunch meat (blade Boston sirloin) flank, porterhouse, Sausage/knock-Pork spareribs Ground pork tenderloin) wurst Lamb chops or ribs Chuck blade Hot dogs Ham (bone-end) Organ meatsc Brisket Chicken w/ skin Meatloaf (w/ Ground turkey Eel, mackerel, ground beef) pompano Corned beef GROUP 2: Less than 10 g total fat in 3 oz cooked portion Low-fat Other Meat, Poultry, 6 pts^a Lean Beef **Processed Meats** Seafood Round steak Low-fat lunch Chicken, turkey (w/o skin)b (eye of round, meat Most seafoodc top round) Canadian bacon Lamb (leg-shank) "Lean" fast-food Sirloind Pork tenderloin Tip & bottom sandwich roundd Pork sirloin, top loin Boneless ham Chuck arm pot Veal cutlets, sirloin, shoulder roastd Top loind Ground veal, venison Veal chops and ribsd Lamb (whole leg, loin, foreshank, sirloin)d

SERVING

^a Score 6 points if this circle is checked.

b All parts not listed in Group 1 have < 10 grams total fat.

^C Organ meats, shrimp, abalone, and squid are low in fat but high in cholesterol

d Only lean cuts with all visible fat trimmed. If not trimmed of all visible fat, score as if in Group 1.

SERVING WEEKLY **SCORE** SIZE CONSUMPTION FOOD CATEGORY **EGGS** Weekly consumption is the number of times you eat eggs each week. 4 or For serving size, check the number of eggs eaten each more Large 3 or Rarely/ Average Small time. (1)GROUP 1 3 pts 3 pls 2 pts Whole eggs, egg yolks 7 pts 1 pt GROUP 2 Egg whites, egg substitutes (1/2 cup = 2 eggs) MILK: Average serving: 1 cup GROUP 1 Whole milk, 2% milk, 2% buttermilk, yogurt (whole milk) 2 pts 3 pts 3 pts 7 pts 1 pt Skim milk, 1% milk, skim milk buttermilk, yogurt (nonfat or low-fat) CHEESE: Average serving: 1 oz. GROUP 1 Cream cheese, cheddar, Monterey jack, colby, Swiss, 3 pts 3 pts 7 pts 1 pt 2 pts American processed, blue cheese, regular cottage cheese (1/2 cup) and ricotta (1/4 cup) GROUP 2 Low-fat and fat-free cheeses, skim milk mozzarella, string cheese; low-fat, skim, and fat-free cottage cheese (1/2 cup) and ricotta (1/4 cup) FROZEN DESSERTS: Average serving: 1/2 cup GROUP 1 Regular ice cream, frozen yogurt, milkshakes 3 pts 3 pts 2 pts 1 pt Ice milk, sherbet, sorbet, low-fat and nonfat ice cream and frozen yogurt FRYING FOODS • Average serving: see below. This section refers to method of preparation for vegetables and meat. **GROUP 1** French fries, fried vegetables (1/2 cup) 3 pts 7 pts 2 pts 3 pts Fried chicken, fish, and meat (3 oz) **GROUP 2** Vegetables, not deep fried (1/2 cup) Meat, poultry, or fish prepared by baking, broiling, grilling, poaching, roasting, stewing (3 oz) **BAKED GOODS** · Average serving: 1 serving GROUP 1 Doughnuts, biscuits, butter rolls, muffins, croissants, sweet 3 pts rolls, Danish, cakes, pies, coffee cakes, cookies GROUP 2 Fruit bars, low-fat cookies/cakes/pastries, angel food cake,

homemade baked goods with vegetable oils, breads, bagels

SERVING WEEKLY SIZE **SCORE** CONSUMPTION FOOD CATEGORY 3 or Large Rarely/ Average less never Small **CONVENIENCE FOODS** Average serving: see below GROUP 1 Canned, packaged, or frozen dinners; e.g., pizza (1 slice), 3 pts 7 pts 3 pts 1 pt macaroni and cheese (about 1 cup), pot pie (1), cream soups (1 cup); potato, rice, and pasta dishes with cream/cheese sauces (1/2 cup) **GROUP 2** Diet/reduced-calorie or reduced-fat dinners (1 dinner); potato, rice, and pasta dishes without cream/cheese sauces (1/2 cup) TABLE FATS • Average serving: 1 tablespoon GROUP 1 Butter or stick margarine; regular salad dressing, 3 pts 7 pts 1 pt 2 pts 3 pts mayonnaise, sour cream (2 tbsp) **GROUP 2** Diet and tub margarine; low-fat and fat-free salad dressings; low-fat and fat-free mayonnaise **SNACKS** GROUP 1 Chips (potato, corn, taco), cheese puffs, snack mix, nuts 7 pts 3 pts 3 pts 2 pts (1 oz)Regular crackers (1-1/2 oz) Candy (milk chocolate, caramel, coconut) (about 1-1/2 oz) Regular popcorn (3 cups) **GROUP 2** Pretzels, fat-free chips (1 oz) Low-fat crackers (1/2 oz) Fruit, fruit rolls, licorice, hard candy (1 medium piece) Bread sticks (1-2), air-popped or low-fat popcorn (3 cups)

Total Score

Scoring

For each group, multiply your weekly consumption points (3 or 7) by your serving-size points (1, 2, or 3). For example, if you eat an average serving size of fried foods 4 or more times per week, your score for fried foods would be 7×2 , or 14. Note that not all responses carry a point value; with the exception for a large serving for Group 2 meats, no points are scored for Group 2 foods. Your final score is the total of all points for all food categories.

Score	Recommendation
70 or above	Need to make some dietary changes
40-69	Step I diet
Below 40	Step II diet

LABAII-I (continued)

Heart-Healthy Eating: The Step I and Step II Diets

All Americans should follow the general rules to lower blood cholesterol:

- · Choose foods low in total fat, saturated fat, trans fat, and cholesterol.
- Choose foods high in starch and fiber.
- · Be more physically active.
- · Lose weight, if you are overweight.

In fact, this is a way that the whole family can eat (except infants under 2 years, who need more calories from fat), because these guidelines are similar to those recommended for the general population. And if the whole family eats in this way, it will help you make your blood cholesterol-lowering diet your everyday way of eating. If you have high blood cholesterol, you will have to pay attention to what you eat by following either the Step I diet or the Step II diet, as advised by your physician.

On the Step I diet, you should eat

- 8-10% of the day's total calories from saturated fat.
- 30% or less of the day's total calories from fat.
- less than 300 milligrams of dietary cholesterol a day.
- just enough calories to achieve and maintain a healthy weight. (You may want to ask your physician or registered dietitian what is a reasonable calorie level for you.)

If you do not lower your blood cholesterol enough on the Step I diet or if you are at high risk for heart disease, your physician may ask you to follow the Step II diet. If you already have heart disease, you should start on the Step II diet right away. The Step II diet helps you cut down on saturated fat and cholesterol even more than the Step I diet. This helps lower your blood cholesterol even more.

On the Step II diet, you should eat

- less than 7% of the day's total calories from saturated fat.
- 30% or less of the day's total calories from fat.
- less than 200 milligrams of dietary cholesterol a day.
- just enough calories to achieve and maintain a healthy weight. (You may want to ask your physician or registered dietitian what is a reasonable calorie level for you.)

To get the full benefits of the Step II diet, you should have help from a registered dietitian or other qualified nutritionist.

TABLE 15.13			
Rapid Eating Assessmen	t for Patients (REAP)		
Client is asked to respond to eac	of the following questions with "usually/often," "sometimes," "rarely/never," or "does not apply to me."		
Торіс	In an average week, how often do you:		
Meałs	1. Skip breakfast?		
	2. Eat <u>4 or more</u> meals from sit-down or take out restaurants?		
Grains	3. Eat <u>less than 3 servings</u> of whole-grain products a day? Note: Serving = 1 slice of 100% whole-grain bread; 1 cup whole-grain cereal like Shredded Wheat, Wheaties, Grape Nuts, high-fiber cereals, oatmeal, 3-4 whole-grain crackers, ½ cup brown rice or whole-wheat pasta		
Fruits and Vegetables	4. Eat <u>less than 2—3 servings</u> of fruit a day? Note: Serving = ½ cup or 1 med. fruit or 4 oz. 100% fruit juice		
	5. Eat <u>less than 3—4 servings</u> of vegetables/potatoes a day? **Note: Serving = 1/2 cup vegetables/potatoes, or 1 cup leafy raw vegetables		
Dairy	6. Eat or drink <u>less than 2—3 servings</u> of milk, yogurt, or cheese a day? Note: Serving = 1 cup milk or yogurt; 1 1/2-2 ounces cheese		
	7. Use 2% (reduced fat) or whole milk instead of skim (non-fat) or 1% (low-fat) milk?		
	8. Use <u>regular cheese</u> (like American, cheddar, Swiss, Monterey jack) instead of low-fat or part-skim cheeses as a snack, on sandwiche pizza, etc.?		
Meats/Chicken/Turkey	9. Eat beef, pork, or dark meat chicken more than 2 times a week?		
	10. Eat <u>more than 6 ounces</u> (see sizes below) of meat, chicken, turkey, or fish <u>per day?</u> Note: 3 ounces of meat or chicken is the size of a deck of cards or ONE of the following: 1 regular hamburger, 1 chicken breast or leg (thic & drumstlck), or 1 pork chop.		
	11. Choose <u>higher fat red meats</u> like prime rib, T-bone steak, hamburger, ribs, etc. instead of lean red meats?		
	12. Eat the <u>skin</u> on chicken and turkey or the <u>fat</u> on meat?		
•	13. Use <u>regular processed meats</u> (like bologna, salami, corned beef, hot dogs, sausage, or bacon) instead of low-fat processed meats (like roa beef, turkey, lean ham; low-fat cold cuts/hot dogs)?		
Fried Foods	14. Eat <u>fried foods</u> such as fried chicken, fried fish, or french fries?		
Snacks	15. Eat <u>regular potato chips, nacho chips, corn chips, crackers, regular popcorn, nuts</u> instead of pretzels, low-fat chips or low-fat cracker air-popped popcorn?		
Fats and Oils	16. Use <u>regular salad dressing and mayonnaise</u> instead of low-fat or fat-free salad dressing and mayonnaise?		
	17. Add butter, margarine, or oil to bread, potatoes, rice or vegetables at the table?		
	18. <u>Cook with oil, butter, or margarine</u> instead of using non-stick sprays like Parn or cooking without fat?		
Sweets	19. Eat regular sweets like cake, cookies, pastries, donuts, muffins, and chocolate instead of low-fat or fat-free sweets?		
	20. Eat regular ice cream instead of sherbet, sorbet, low-fat or fat-free ice cream, frozen yogurt, etc.?		
	21. Eat <u>sweets</u> like cake, cookies, pastries, donuts, muffins, chocolate, and candies more than 2 times per day?		
Soft Drinks	22. <u>Drink 16 ounces or more</u> of non-diet soda, fruit drink/punch or Kool-Aid a day? <i>Note</i> : 1 can of soda = 12 ounces		
Sodium	23. Eat high-sodium <u>processed foods</u> like canned soup or pasta, frozen/packaged meals (TV dinners, etc.), chips?		

24. Add salt to foods during cooking or at the table?

TABI	E 1	5.1	3 (contir	iued)

TABLE 15.13 (continued)		
Alcohol	25. !	Drink <u>more than</u> 1—2 alcoholic drinks a day? Note: One drink = 12 oz. beer, 5 oz. wine, one shot of hard liquor or mixed drink with 1 shot.
Activity		Do <u>less than</u> 30 total minutes of physical activity 3 days a week or more? Examples: Walking briskly, gardening, golf, jogging, swimming, biking, dancing, etc.
	27.	Watch <u>more than</u> 2 hours of television or videos a day?

Client is asked to respond to each of the following questions with "yes" or "no." Do you...

- 28. Usually shop and prepare your own food?
- 29. Ever have trouble being able to shop or cook?
- 30. Follow a special diet, eat or limit certain foods for health or other reasons?

Client is asked to circle the number that best describes how he/she feels on a scale of 5 to 1, with 5 = "Very willing" and 1 = "Not at all willing."

- 31. How willing are you to make changes in what, how or how much you eat in order to eat healthier?
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weight maintenance energy requirements and/or energy requirements to facilitate weight loss. Optimally, the modifications that are priorities for the TLC (reducing fat, increasing physical activity, and increasing fruits, vegetables, and fiber) result in subsequent kcal reduction and weight loss.

Next, using the assessment of the patient's dietary history, nutrition problems are prioritized in order to determine nutrition diagnoses. For example, suppose the dietary assessment indicates that the patient's overall fat intake is >45% of total keal and that most of the dietary fat comes from large servings of animal protein several times a day as well as hightat dairy products. The first nutrition problem could be the intake of excessive fat and perhaps kcal, which would e labeled as nutrition diagnosis NI-51.1: Excessive fat intake or NI 1.5: Excessive energy intake. Identifying ways to 235ist the patient to reduce serving sizes and choose substitutions for each of the high-fat foods is the first step toward accomplishing several of the target TLC goals (see Box 15.7) and is incorporated into the third step of the nutrition care process—nutrition intervention. For many individuals, it is werwhelming to make these dietary changes all at one time. Dietary intake and physical activity plans should be used for 1 minimum of six weeks, and if results are not achieved, it is ecommended that pharmaceutical intervention be considested by the primary physician as a means to assist with ceducing LDL and total cholesterol levels (U. S. Department of Health and Human Services 2001).

The American Dietetic Association has made the followrecommendations: "Referral to a registered dietitian for Medical Nutrition Therapy (MNT) is recommended whenever an individual has an abnormal lipid profile, based on MTP III Risk category and LDL-C goals, or has CHD. A manned initial visit lasting from 45-90 minutes and at least to six planned follow-up visits (30-60 minutes each,

with an RD) can lead to improved dietary pattern; improved lipid profile; reduced plasma total cholesterol, LDL-C, and triglycerides; and improved weight status. The number and duration of visits in the course of Medical Nutrition Therapy will need to be greater if the client is in a higher risk category, if there is a large number of Therapeutic Lifestyle Changes (TLC) that need to be made, and if the individual is not motivated to make TLC changes. Increasing the number of visits and length of time spent with a dietitian can improve serum lipid levels and CVD risk" (American Dietetic Association, Disorders of Lipid Metabolism, Evidence Analysis Library 2006).

Ischemic Heart Disease

Definition

A sedentary individual may develop an atherosclerotic plaque that occludes up to 50% of the lumen of a coronary artery, and remain completely asymptomatic. However, if the individual becomes active they may experience a symptom, called angina, which is directly associated with reduced blood flow to parts of the heart. When the coronary arteries are occluded to the point that the blood flow to portions distal to the blockage is compromised, the individual is said to have myocardial ischemia. The term ischemic heart disease (IHD) is often used interchangeably with the term CAD.

angina—chest pain caused by oxygen deficit to the heart ischemic heart disease (IHD)—heart disease characterized by inadequate blood supply to the heart