

Texas Tech University Health Sciences Center

This PowerPoint file is a supplement to the video presentation. Some of the educational content of this program is not available solely through the PowerPoint file. Participants should use all materials to enhance the value of this continuing education program.

Nutrition for Healthy Hearts

Allison B. Kerin, MS, RD, LD Director of Employee Wellness and Recognition Texas Tech University Health Sciences Center Lubbock, Texas

Nurse Aide/Nurse Assistant/General Staff Education I 45617/46617

Disclaimer

- Each individual has a very different medical history and may not be able to apply everything in this presentation to their lives
- If you have a more complicated medical history, please clear any potential changes to your lifestyle with your physician
- ► Each individual has a unique genetic design

Overview

- ► Heart disease
- ► Progression
- ► Who is at risk?

The road to a healthy heart:

- Healthy diet/weight
 - TLC (total lifestyle change) diet
 - DASH (dietary approaches to stop hypertension) diet
- Physical activity
- Stop smoking/limit alcohol
- Limit stress

Heart Disease

- Leading cause of death in both men and women
- ► "Silent Killer" with little or no symptoms
- ► Coronary artery disease, heart attack, stroke

Heart Disease: Progression





CDC

Who is at risk?

- High blood pressure Overweight/obesity
- High cholesterol
- ► Smoking
- ► Diabetes

- ► Physical inactivity
- ► Excessive alcohol use

Blood Pressure Levels

	Range (mmHg)	
Normal	Systolic: under 120	1
	Diastolic: under 80	1
At risk (pre-	Systolic: 120-139	
hypertension)	Diastolic: 80-89	
High	Systolic: above 140	
	Diastolic: above 90	

Cholesterol Levels

LDL "Bad" Cholesterol (mg/dL)		HDL "Good" Cholesterol (mg/dL)	
Less than 100	Optimal	Less	A major risk factor for
130-159	Borderline high	than 40	heart disease
160-189	High	Above	Considered protective
Above 190	Very High	60	against heart disease

Total cholesterol levels: under 200 is optimal

LDL: low-density lipoprotein

HDL: high-density lipoprotein

Prevention: Lifestyle Changes

Healthy Diet		
Healthy Weight		
Physical Activity		
Stop Smoking/Limit Alcohol Use		
Stress Management		

TLC Diet Total Lifestyle Change

- Lowers saturated fat in the diet, in turn, lowering cholesterol levels
- Not designed for losing weight!

TLC Diet Total Lifestyle Change

► What do you have to do?

- keep saturated fat intake below 7% of total calorie intake
- keep daily cholesterol intake under 200 mg
- lower sodium intake to 2400 mg/day
- 25-35% of calories from fat
- 20-30 g/day fiber
- maintain physical activity



Saturated Fat

- Eating foods that contain saturated fat raises the level of cholesterol in your blood
- Aim for a dietary pattern that achieves 5-6% of calories from saturated fat (American Heart Association)

Food Sources

Mainly from animal sources: meat and dairy products EX: fatty beef, lamb, pork, butter, cheese, milk

Cholesterol

- Waxy substance from fat that your body needs, but when in excess, it builds up on your artery walls
- Limit cholesterol intake to 300 mg/day
- If you already suffer from high cholesterol or heart disease, limit to 200 mg/day

Food Sources

Eggs Chicken & Beef Burgers Regular Cheese Sausage, Franks, Bacon Pasta Pizza

How much cholesterol?



Healthy Diet & Weight

- Focus on variety, density, and amount of food
- Limit calories from added sugars and saturated fats
- Reduce sodium
- Make healthier beverage choices



DASH Diet

- Ranked #1 in best diet overall for the 7th year in a row (2017 US News & World Report)
- Used for prevention and lowering of high blood pressure – nutrients like potassium, calcium, protein, and fiber are crucial for fighting high blood pressure

DASH Diet

► What do you have to do?

- emphasize foods: fruits, vegetables, whole grains, lean protein, low-fat dairy
- avoid high-calorie and high-fat sweets and red meats
- cut back on salt

Sodium Intake

Alternate ways to add flavor to food: salt-free seasonings, herbs, garlic, onions, peppers, lemon or lime juice

Sodium Intake

- The daily value for sodium intake is less than 2400 mg/day
- Check the nutrition facts label to see how much sodium is in a product
- ► As a general rule:
 - 5% DV or less of sodium \rightarrow LOW
 - 20% DV or more of sodium \rightarrow HIGH



What do food labels really mean?

What the Package Says	What it Actually Means
Salt/Sodium Free	Less than 5 mg of sodium per serving
Very Low Sodium	35 mg or less of sodium per serving
Low Sodium	140 mg or less of sodium per serving
Reduced Sodium	At least 25% less sodium than the regular product
Light in Sodium/Lightly Salted	At least 50% less sodium than the regular product
No Salt Added/ Unsalted	No salt added during processing (doesn't necessarily mean salt/sodium free unless stated)

Beverage Choices

Things to remember: sodas AND sports drinks are high in carbohydrates (added sugars)

Best choice?

WATER

Cooking Tips for a Healthy Heart

- Prepare foods at home to regulate what is included in the recipe
 - select leaner cuts of beef and pork (look for the words "loin" and "round")
 - drain the fat off of cooked ground meats
 - replace high-fat cheeses with low-fat (parmesan, feta, goat, mozzarella)

Cooking Tips for a Healthy Heart

- Prepare foods at home to regulate what is included in the recipe
 - use low-fat milk and yogurt (gradually work your way down to accommodate your taste buds)
 - bake, broil, roast, stew, stir fry items Not fried!
 - eat fish regularly

Cooking Tips for a Healthy Heart

- Prepare foods at home to regulate what is included in the recipe
 - use small amounts of oils for sautéing (olive or canola)
 - extra plant sources for protein (EX: soybean, pinto beans, lentils, nuts)
 - don't add salt to food at the table

Physical Activity

- 150 minutes per week of moderate intensity exercise with at least two days of musclestrengthening activities
 - brisk walking
 - biking around the neighborhood
 - workout classes
 - -workout videos at home
 - family sport nights

Physical Activity: Tips in the Workplace

- Park far away in parking lots
- Use the restroom on another floor of your building
 Take the stairs to get there!
- Rather than sending an email, walk to your coworker
- ► Drink plenty of water (8x8)
- ► If possible, use a pedometer to track your steps!

Stop Smoking/Limit Alcohol Use

- Smoking greatly increases your risk for any heart disease
 - "MOST IMPORTANT preventable cause"
 - Stop Now. Your heart will thank you!

Alcohol

- no more than 2 drinks/day for men
- no more than 1 drink/day for women
 - (standard drink: 12 oz beer, 5 oz wine, 1.5 oz liquor)

Managing Stress

- How does stress contribute to heart disease?
 - stress may affect behaviors and factors that increase heart disease risk
 - higher blood pressure levels
 - higher cholesterol levels
 - smoking/drinking
 - physical inactivity
 - overeating

Managing Stress

► When you are under stress do you...

- Smoke more?
- Drink alcohol?
- Eat to calm down?
- Speak and eat faster?
- Have altered sleep patterns?

Recognizing how you act when you are under stress is the first step in working toward managing it

Managing Stress: Tips

- Exercise (stretching/yoga)
- Maintain a positive attitude (It's amazing what a smile can do!)
- Don't drink too much coffee
- Establish social support
- ► Take breaks!

Take Away Points

► The road to living a life with a healthier heart

- lower cholesterol, saturated fat, sodium, and added sugars
- more fruits/vegetables
- stop smoking/limit alcohol use
- increase physical activity
- manage stress

References

- ► American Heart Association. (2014, February 17). Smoking & Cardiovascular Disease (Heart Disease). Retrieved from American Heart Association: http://www.heart.org/HEARTORG/HealthyLiving/QuitSmoking/QuittingResources/Smoking-Cardiovascular-Disease_UCM_305187_Article.jsp#.WJIdm1MrKpo
- American Heart Association. (2014, June 13). Stress and Heart Health. Retrieved from American Heart Association: http://www.heart.org/HEARTORG/HealthyLiving/StressManagement/HowDoesStressAffectYou/Stressand-Heart-Health UCM 437370 Article.jsp#.WJITIVMrKpo
- American Heart Association. (2016, October 12). Saturated Fats. Retrieved from American Heart Association: www.heart.org/HEARTORG/HealthyLiving/HealthyEating/Nutrition/Saturated-Fats_UCM_301110_Article.jsp#.WJJIbIMrKpo
- Centers for Disease Control and Prevention. (2014, November 13). High Blood Pressure. Retrieved from Centers for Disease Control and Prevention: http://www.cdc.gov/bloodpressure/measure.htm
- Centers for Disease Control and Prevention. (2015, December 11). Cholesterol. Retrieved from Centers for Disease Control and Prevention: https://www.cdc.gov/cholesterol/healthy_living.htm
- Centers for Disease Control and Prevention. (2015, August 10). Heart Disease. Retrieved from Centers for Disease Control and Prevention: http://www.cdc.gov/heartdisease/facts.htm

References

- Larson MS RD, H. (2015, July 27). Risk of Inactivity: Why You Need to Exercise to Be Healthy. Retrieved from EatRight.org: http://www.eatright.org/resource/fitness/exercise/benefits-of-physical-activity/risksof-inactivity-why-you-need-to-exercise-to-be-healthy
- NHANES. (2005-2006). Top Food Sources of Cholesterol Among US Population. Retrieved from National Cancer Institute: Epidemiology and Genomics Research Program: https://epi.grants.cancer.gov/diet/foodsources/cholesterol/table1.html
- ▶ NIH MedlinePlus. (2012). Cholesterol Levels: What You Need to Know. NIH MedlinePlus, 7, pp. 6-7. Retrieved from https://medlineplus.gov/magazine/issues/summer12/articles/summer12pg6-7.html
- ► U.S. Department of Health and Human Services. (2016, June 2). Sodium in Your Diet: Use the Nutrition Facts Label and Reduce Your Intake. Retrieved from U.S. Food & Drug Administration: http://www.fda.gov/Food/IngredientsPackagingLabeling/LabelingNutrition/ucm315393.htm
- Wolfram MS RDN LDN, T. (2016, February 1). 25 Heart-Healthy Cooking Tips. Retrieved from EatRight.org: http://www.eatright.org/resource/food/planning-and-prep/cooking-tips-and-trends/hearthealthy-cooking-tips

Nutrition for Healthy Hearts

If you have any questions about the program you have just watched, you may call us at: (800) 424-4888 or fax (806) 743-2233. Direct your inquiries to Customer Service. Be sure to include the program number, title, and speaker.



This information is intended for the private use of Health.edu subscribers. Any redistribution of this information without the express written permission of Health.edu is prohibited. 800-424-4888|www.ttuhsc.edu/health.edu Copyright 2017