Cardiovascular Disease

Notehouse School of Medicine

WHAT IS CARDIOVASCULAR DISEASE?

• Cardiovascular disease, commonly referred to as Heart Disease

• Describes a range of conditions that affect the heart, mostly related to a process called **artherosclerosis**

• Artherosclerosis is a condition that develops when plaque builds up in the walls of the arteries

- > The buildup narrows the arteries and makes it hard for blood to flow which can cause blood clots stopping blood flow all together
- > This condition can cause a heart attack or stroke

HEART ATTACK

- Occurs when a blood clot blocks blood from flowing to a part of the heart
- If blood flow is cut completely, that part of the heart muscle begins to die
- Most people do survive their first heart attack but will need to make significant changes to daily lifestyle

STROKE

- Ischemic stroke (most common) happens when a blood vessel that leads to the brain is blocked
 - Brain cells die when the blood supply to part of the brain is cut
 - Results in the inability to carry out daily activities such as walking or talking
- Hemorrhagic stroke happens when a blood vessel bursts within
 the brain
 - Uncontrolled hypertension is the most common cause of a hemorrhagic stroke









The best way to verify Cardiovascular Disease is to talk to your physician about your medical history, and a physical exam.

OTHER TYPES OF CARDIOVASCULAR DISEASES

- Heart failure (commonly referred to congestive heart failure) where the heart is not pumping blood as well as it should
- Arrhythmia occurs when there is an abnormal rhythm to the heart The heart can either beat too slow, too fast, or irregularly
- Heart valve problems
 - **Stenosis** occurs when the heart valves do not open enough to allow adequate blood flow
 - **Regurgitation** occurs when heart valves allow blood to leak because they do not close properly
 - Mitral valve prolapse occurs when the valve bulges or prolapses back into the upper chamber of the heart

PREVENTION

• Fact

There are 5 major risk factors to cardiovascular disease:

- High blood pressure, abnormal values for blood lipids, smoking, obesity, and lack of regular physical activity
- Physical Activity

Regular exercise has a favorable effect on many of the risk factors to cardiovascular disease

- Benefits
 - Exercise promotes a reduction in weight
 - Helps reduce blood pressure levels
 - Reduces bad cholesterol levels and increases good cholesterol levels
 - Brings an increase in insulin sensitivity

Continued, moderate exercise is key to decreasing the risk of cardiovascular disease

Reference:

Mayo Clinic. (2016). Diseases and conditions. Heart Disease. Retrieved from: http://www.mayoclinic.org/diseases-conditions/heart-disease/basics/definition/con 20034056

Myers, J. (2003). Exercise and cardiovascular health. Circulation. DOI: 10.1161/01.-CIR.0000048890.59383.8D

American Heart Association. (2014). What is cardiovascular disease. Retrieved from: http://www.heart.org/HEARTORG/Caregiver/Resources/WhatisCardiovascularDisease What-is-Cardiovascular-Disease_UCM_301852_Article.jsp#.Vwv4HPkrLIU



Morehouse School of Medicine Prevention Research Center, 720 Westview Drive, SW Atlanta, GA 30310 | Phone: 404-752-1022 Fax: 404-765-9771 | prcinfo@msm.edu | www.msm.edu/prc. The Morehouse School of Medicine Prevention Research Center is a member of the Prevention Research Centers Program, supported by the Centers for Disease Control and Prevention, under cooperative agreement # # 5U48DP005042-02. This product is supported by the CDC REACH HI grant # SNU58DP005945-02. The contents and information provided are solely the responsibility of the participants and do not necessarily represent the official views of CDC or the U.S. Department of Health and Human Services. Treatment

The most common form of treatment for cardiovascular disease is medication. In some cases, patients may need to undergo surgery or live with a pacemaker.

