Cardiovascular Disease Coronary Heart Disease

Mentoring in Medicine, Inc.

Coronary Heart Disease Why is it so Important?

- Leading cause of death of men and women in the US
- One in every three deaths is from heart disease and stroke, equal to 2,200 deaths per day

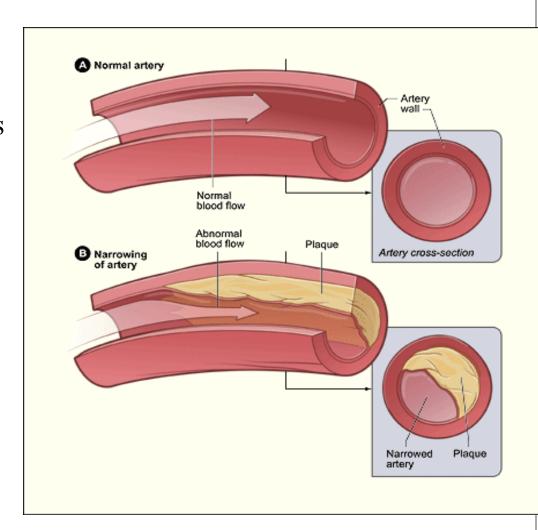
Coronary Heart Disease

- What is happening in the heart at the level of the coronary arteries
 - Atherosclerosis
 - hardening of the coronary arteries
 - Thrombosis
 - blood clot occluding vessel
- What the patient may feel
 - Angina
 - chest discomfort due to poor blood flow through the coronary arteries to the heart muscle (myocardium)
 - Heart Attack or Myocardial Infarction-
 - blood flow to a part of the heart is blocked causing damage or death of the heart muscle

• What Causes a Heart Attack?

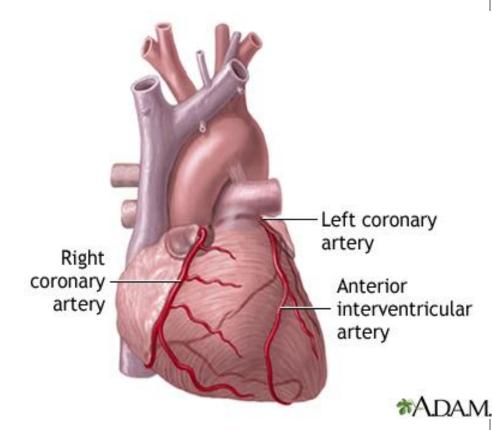
Coronary Heart Disease

- Caused by the build up of plaque in the arteries
- Also called coronary artery disease
- Can lead to a heart attack

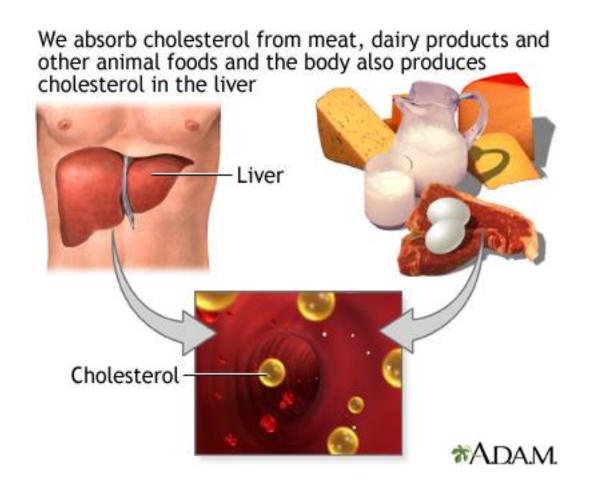


Coronary Blood Flow Two Main Blood Vessels

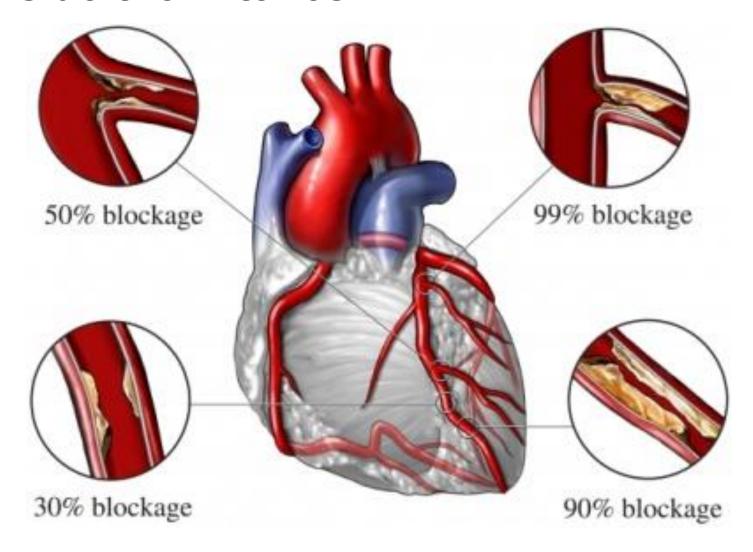
- Right Coronary Artery
 - Branches supply the right ventricle, 25%-25% of the left ventricle, 60% of the SA node
- Left Main Coronary Artery
 - Branches supply right and left ventricles, left atrium



Coronary Heart Disease Effect of Cholesterol on the Arteries



Coronary Heart DiseaseInside the Arteries

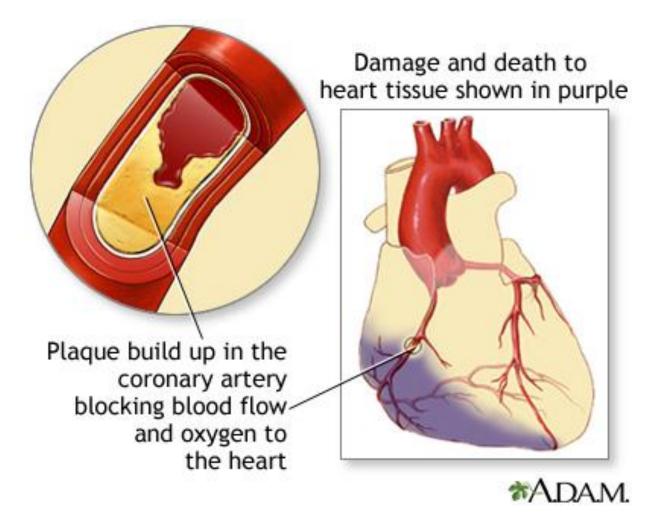


Coronary Heart Disease Symptoms

- May have disease and no symptoms
- Women, people with diabetes and the elderly have symptoms other than chest pain.

- Symptoms
 - Chest pain or discomfort
 - Discomfort in the jaw, neck, left arm
 - Shortness of breath
 - Nausea
 - Fatigue
 - Weakness

Coronary Artery Disease How a Myocardial Infarction Occurs



Myocardial Infarction

Myocardial Infarction Symptoms

Chest discomfort



Arm or back discomfort

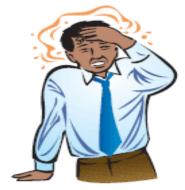


Neck or jaw discomfort





Trouble breathing, with or without chest discomfort



Feeling lightheaded or breaking into a cold sweat



Feeling sick or discomfort in your stomach

• Women's Heart Attacks Misunderstood

Coronary Artery Disease Know Your Risk Factors

- CANNOT Change
 - Age
 - Gender
 - Genes
 - Race

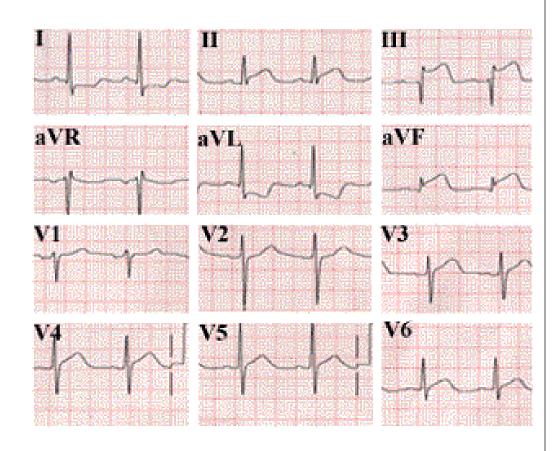
- CAN Change
 - Diet
 - Sedentary Lifestyle
 - Smoking
 - Drug Use
 - Control Other Diseases
 - Diabetes
 - Hypertension
 - Stress

Coronary Heart Disease Prevention Healthy Eating Tips

- Choose a diet rich in fruits, vegetables, and whole grains.
- Choose lean proteins, such as chicken, fish, beans, and legumes.
- Eat low-fat dairy products, such as 1% milk and low-fat yogurt.
- Avoid sodium (salt) and fats found in fried foods, processed foods, and baked goods.
- Read labels, and stay away from "saturated fat".

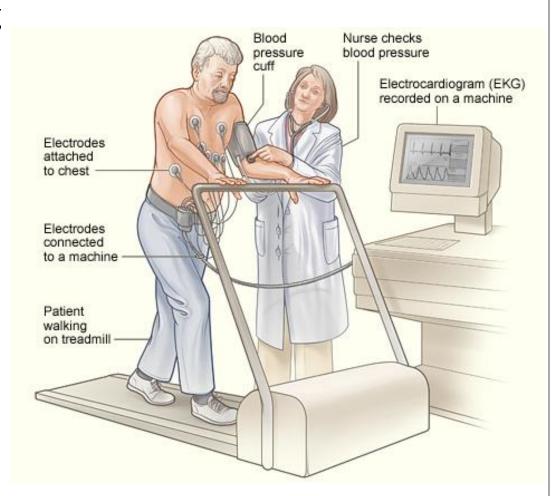
Coronary Heart Disease Diagnosis

- Electrocardiogram
- Blood Tests



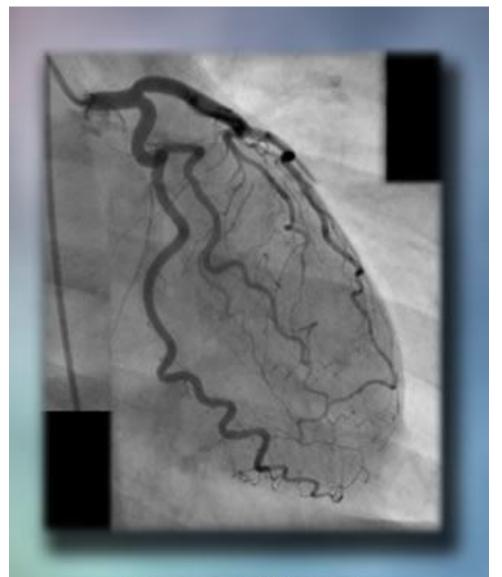
Coronary Heart Disease Diagnosis

Nuclear Stress Testing



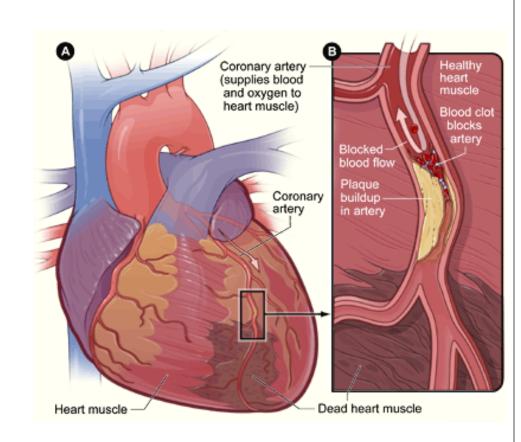
Coronary Heart Disease Diagnosis

- Cardiac Catherization
- Coronary Angiogram



Coronary Artery Disease Three Different Treatments

- Treatment-
 - Medication
 - Keep vessel open
 - Create a new path for blood to flow



Coronary Heart Disease Treatment

- Treatment-
 - Medication
 - Clot busters also called thrombolytic medication



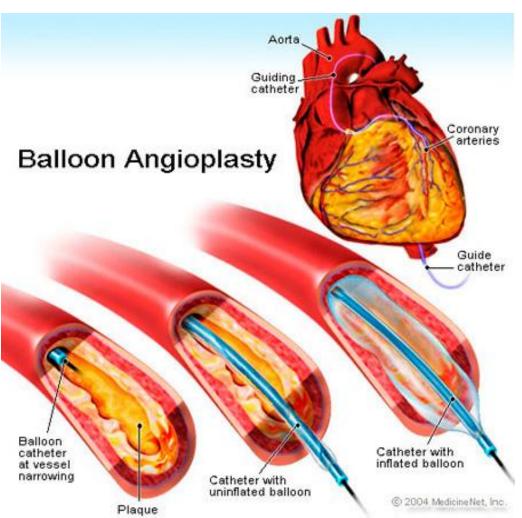
Coronary Heart DiseaseTreatment

• Treatment-

Keep vessel open

Balloon angioplasty

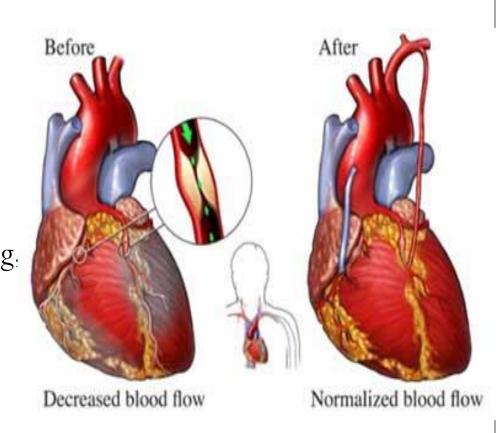
Stent insertion



• Percutaneous Coronary Intervention Stenting

Coronary Heart Disease Treatment

- Treatment-
 - Create a new path for blood to flow
 - Coronary Artery Bypass Surgery (CABG)
 - Blood vessel from leg, chest or arm is used to bypass the obstruction



• Heart Bypass Surgery Explained

• NCH Make the Call Dance