

Patient's Name:John Q. PatientHealthcare Provider's Name:First HospitalDepartment:CardiologyPhone:617-555-1212

Date: Thursday, May 8, 2014

Notes: Nurses can write personalized notes to the patient here.

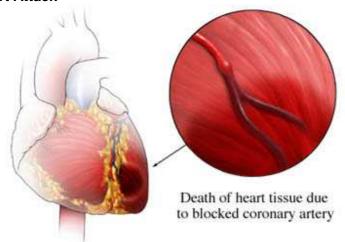
Heart Attack

(Acute Myocardial Infarction [AMI]; Myocardial Infarction [MI]; ST-Segment-Elevation MI [STEMI]; Transmural Myocardial infarction)

Definition

A heart attack occurs when blood flow to the heart muscle is interrupted. Oxygen cannot get to the heart muscle, causing tissue damage or tissue death.

Heart Attack



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Causes

A heart attack may be caused by:

- Thickening of the walls of the arteries feeding the heart muscle (coronary arteries)
- Accumulation of fatty plaques in the coronary arteries
- · Narrowing of the coronary arteries
- Spasm of the coronary arteries
- Development of a blood clot in the coronary arteries
- Embolism that affects the coronary arteries

Risk Factors

The risk of heart attack is greater in males and older adults.

Factors that may increase your chance of developing a heart attack include:

- Obesity
- Smoking
- High blood pressure
- Sedentary lifestyle
- High blood cholesterol (specifically, high LDL cholesterol, and low HDL cholesterol)
- High blood triglycerides
- Diabetes
- Stress
- Family members with heart disease
- Using testosterone therapy medication

Symptoms

Symptoms include:

- Squeezing, heavy chest pain behind breastbone, especially with:
 - Exercise or exertion
 - Emotional stress
 - o Cold weather
 - A large meal
 - Usually comes on quickly
- Pain in the left shoulder, left arm, or jaw
- · Shortness of breath
- Sweating, clammy skin
- Nausea
- Weakness
- Loss of consciousness
- Anxiety, especially feeling a sense of doom or panic without apparent reason

Unusual symptoms of heart attack (may occur more frequently in women):

- Stomach pain
- Back and shoulder pain
- Confusion
- Fainting

If you think you are having a heart attack, call for medical help right away.

Diagnosis

Tests may include:

- Blood tests—To look for certain enzymes found in the blood within hours or days after a heart attack.
- Urine tests—To look for certain substances found in the urine within hours or days after a heart attack.
- <u>Electrocardiogram (EKG)</u> —to look for evidence of blockage or damage.
- Echocardiogram —to examine the size, shape, function, and motion of the heart.
- <u>Stress test</u> —Records the heart's electrical activity under increased physical stress, usually done days
 or weeks after the heart attack.
- Nuclear scanning—show areas of the heart muscle where there is diminished blood flow.
- <u>Electron-beam computed tomography</u> (EBCT)—to make detailed pictures of the heart, coronary arteries, and surrounding structures.
- Coronary angiography —Uto look for narrowing or blockage in the coronary arteries.

Treatment

Treatment includes:

- Aspirin
- Oxygen
- Pain-relieving medicine
- Nitrate medicines
- Other antiplatelet agents
- Beta-blockers and/or angiotensin-converting enzyme (ACE) inhibitor medicines
- Anti-anxiety medicine
- <u>Cholesterol-lowering medicines</u> (such as statin drugs)

Within the first six hours after a heart attack, you may be given medicines to break up blood clots in the coronary arteries.

Surgery

If you have severe blockages you may need surgery immediately or after recovery, such as:

- Balloon angioplasty with or without stenting
- Atherectomy
- Coronary artery bypass grafting (CABG)

Physical or Rehabilitative Therapy

During recovery, you may need physical or rehabilitative therapy to help you regain your strength.

Treatment for Depression

You may feel <u>depressed</u> after having a heart attack. <u>Therapy</u> and medicine can help relieve depression.

If you have a heart attack, follow your doctor's instructions.

Prevention

Preventing or treating coronary artery disease may help prevent a heart attack.

- Maintain a healthy weight.
- Begin a safe exercise program. Follow your doctor's advice.
- If you smoke, quit.
- Eat a <u>healthy diet</u>. Your diet should be low in saturated fat and rich in <u>whole grains</u>, <u>fruits</u>, <u>and</u> vegetables.
- Properly treat long-term conditions, like high blood pressure, diabetes, and high cholesterol.
- Manage stress.
- Ask your doctor about taking a small, daily dose of aspirin.
 - o Although most people are able to tolerate such a low dose of aspirin, even this small amount can rarely lead to serious bleeding, particularly from the gastrointestinal (GI) tract.
 - o Aspirin may not work as well when combined with other pain medicines.

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