

FAQS Heart Health for Women

Overview

What is cardiovascular disease (CVD)?

Cardiovascular disease (CVD) is the leading cause of death in both men and women in the United States. CVD is a general term for diseases that affect the heart and blood vessels. Many are caused by the buildup of a waxy substance called plaque in the arteries. Plaque can narrow and harden the arteries, a condition called atherosclerosis. It can take several decades for atherosclerosis to develop.

What are the different types of CVD?

There are several types of CVD. The type of CVD depends on where atherosclerosis occurs in the body:

- Coronary artery disease affects the arteries that supply the heart with blood.
- Peripheral artery disease affects arteries that supply the other organs in your body.
- Cerebrovascular disease affects arteries that supply the brain.

How can atherosclerosis lead to a heart attack or stroke?

Atherosclerosis makes it hard for blood to move through the arteries. If blood flow is blocked in a coronary artery, it causes a heart attack. If this happens in an artery in the brain, it can cause an ischemic stroke. If an artery ruptures in the brain, it is called a hemorrhagic stroke.

Is CVD different for women and men?

Women have unique risk factors for CVD that men do not share. Women also get different types of CVD than men. CVD in men is more likely to cause heart disease. CVD in women is more likely to cause stroke. Stroke can cause lifelong disability in those who survive.

Heart attack symptoms in women can be different from those in men. Women may not even know when they are having a heart attack or stroke. All women need to learn these symptoms and call 911 if they experience them. See the list of symptoms below.

What are the symptoms of a stroke?

- Sudden numbness or weakness of the face, arm, or leg, especially on one side of the body
- Sudden confusion or trouble speaking or understanding
- Sudden trouble seeing in one or both eyes
- Sudden trouble walking, dizziness, or loss of balance or coordination
- · Sudden, severe headache with no known cause

Women and men have similar stroke symptoms, but women are more likely to delay seeking emergency care than men. Prompt treatment of ischemic stroke is essential.

Learn more about stroke symptoms from the American Stroke Association.

What are the symptoms of a heart attack?

- Uncomfortable pressure, squeezing, fullness, or pain in the center of your chest that lasts more than a few minutes or goes away and comes back
- Pain or discomfort in one or both arms, the back, neck, jaw, or stomach
- Shortness of breath with or without chest discomfort
- Breaking out in a cold sweat, nausea, or lightheadedness

As with men, women's most common heart attack symptom is chest pain or discomfort. But women may be more likely to have shortness of breath, pressure or pain in the lower chest or upper abdomen, dizziness, lightheadedness or fainting, upper back pressure, or fatigue.

Risk Factors

What are the risk factors for CVD?

Many people have risk factors for CVD. Some risk factors, such as increasing age and family history, cannot be changed. Others can be altered by making lifestyle changes or treating certain medical conditions. Some of the risk factors include

- older age
- high blood pressure
- abnormal triglyceride and cholesterol levels
- diabetes mellitus
- lifestyle factors, such as smoking, lack of exercise, and being overweight

How does the risk of CVD increase with age?

As people age, their risk of CVD increases. Men see an increase in their risk of CVD from ages 35 to 44. Women see an increase in risk from ages 55 to 64—at about the time most women have gone through menopause. Changes in hormone levels after menopause are thought to affect a woman's age-related risk of CVD. By about age 75, CVD risk for men and women is nearly the same.

What should I know about high blood pressure?

Blood pressure is the force the heart uses to move blood through the blood vessels to the organs and tissues. The inside walls of blood vessels are constantly subjected to these forces. Also, as we age, blood vessels become stiffer. When blood pressure is too high (a condition called hypertension), it can damage the vessel walls. Damaged areas inside blood vessels provide an ideal place for plaque to form.

High blood pressure is a key risk factor for CVD in women and is the most common risk factor for stroke. Before age 45, more men than women have high blood pressure. Starting at about age 55, the number of women with high blood pressure starts to

increase. After 65, more women than men have high blood pressure. High blood pressure also can occur in young women and during pregnancy.

Women should have their blood pressure checked regularly and get treatment if it is high. Lifestyle changes as well as medications are used to treat high blood pressure. If medications are prescribed, you should take them as directed, even if you feel fine.

What should I know about triglyceride and cholesterol levels?

Triglycerides are the most common form of fat in the body and provide energy to power the body's activities. Cholesterol is a building block for cells and hormones. Most of the cholesterol in your body is made by the liver. A small amount comes from food, such as meat and dairy products. There are two key kinds of cholesterol:

- High-density lipoprotein (HDL or "good cholesterol") helps prevent heart disease. It picks up cholesterol in the bloodstream and takes it to the liver where it is broken down.
- 2. Low-density lipoprotein (LDL or "bad cholesterol") can collect in the walls of blood vessels. Too much LDL in the walls of the arteries can trigger a response by the body's immune system called inflammation. Inflammation can lead to a buildup of plaque in the arteries and eventually to atherosclerosis.

Abnormal cholesterol and triglyceride levels are risk factors for CVD in both men and women. The female hormone estrogen is thought to protect women from heart disease by naturally increasing the levels of HDL. But as a woman ages, her levels of LDL may start to increase. And although reducing LDL levels can help prevent CVD, it does not appear to help women as much as it helps men.

What should I know about diabetes?

Diabetes causes high levels of glucose in the blood. Health problems, including CVD, can arise if blood glucose levels are not controlled.

Type 2 diabetes is caused by cells in the body becoming resistant to a hormone called insulin. Insulin moves glucose out of the bloodstream into cells, where it is used for energy.

Risk factors for type 2 diabetes include being overweight, lack of exercise, abnormal cholesterol levels, and a higher-than-normal level of glucose in the blood (a condition called prediabetes).

Type 2 diabetes is a major CVD risk factor for women. Starting at age 20, more women than men have diabetes. The longer a woman has diabetes, the more likely it is that she will develop complications from the disease. In fact, the heart attack risk in a woman with diabetes is almost three times greater than the heart attack risk in a man with diabetes.

What should I know about lifestyle factors?

Smoking, lack of exercise, and being overweight are risk factors for CVD. Where extra weight is carried also affects CVD risk. Extra fat in the abdomen (a waist size of 35 inches or more for women and about 40 inches or more in men) increases the risk of diabetes, high blood pressure, and CVD to a greater extent than extra fat in the hips and thighs.

What risk factors for CVD are unique to women?

- Gestational hypertension —Having high blood pressure during pregnancy increases
 the risk of having CVD and high blood pressure later in life. The risk of serious blood
 pressure-related complications with a future pregnancy also is increased.
- Preeclampsia —This disorder can occur during pregnancy or after childbirth. If it is
 not diagnosed and treated, it can lead to serious health problems. Women who have
 had preeclampsia are at greater risk of developing CVD.
- Gestational diabetes —Diabetes that first appears during pregnancy increases the
 risk of developing diabetes and CVD after pregnancy. Women who have had
 gestational diabetes should be tested for diabetes 6 to 12 weeks after childbirth and
 then every 3 years.
- Polycystic ovary syndrome (PCOS) —PCOS is a leading cause of infertility that can
 affect all areas of the body, not just the reproductive system. Having PCOS increases
 the risk of diabetes and may increase the risk of CVD.
- Certain autoimmune disorders —Diseases such as lupus or rheumatoid arthritis, which are more common in women, are associated with an increased risk of CVD.
 Screening for CVD is recommended for women with these disorders.

- Hormonal birth control methods—Combined hormonal birth control methods contain both estrogen and progestin. They include the birth control pill, patch, and vaginal ring. Women using these methods have a small increased risk of stroke compared with nonusers. This risk is higher for women who
 - smoke and are 35 and older
 - have additional risk factors for stroke, such as high blood pressure
 - have migraine headaches with aura.

These methods are not recommended for women with these risk factors.

Hormone therapy for menopause—Combined hormone therapy (estrogen and
progestin) is linked to a small increased risk of heart attack. For this reason,
combined hormone therapy should not be used solely to protect against heart
disease. Both combined hormone therapy and estrogen-only therapy are associated
with a small increased risk of stroke. More research is needed to study whether
different forms of therapy and the age at which they are taken affect these risks.

Lowering Your Risk

How can I lower my risk of CVD?

All women need to have regular screening tests for diabetes and cholesterol levels. You also should have your blood pressure and weight measured regularly. When and how often you should have these tests depend on your age and risk factors.

If you are at risk of CVD, lifestyle changes usually are recommended first. If lifestyle changes alone are not enough, or you are at high risk of CVD, your doctor or other health care professional may suggest medications to treat high blood pressure or lower your cholesterol levels.

What is a heart-healthy lifestyle?

Living a heart-healthy lifestyle includes eating a healthy diet, limiting alcohol, staying at a healthy weight, not smoking, and getting daily exercise.

What is a heart-healthy diet?

A heart-healthy diet includes

- vegetables and fruits
- beans
- low-fat dairy products
- fish and poultry

Limit red meat, sugary foods and drinks, and sodium. Cutting down on the amount of fast food or processed food, which is loaded with fat, salt, and sugar, is a great way to start eating more healthfully.

Fat is a key part of a healthy diet, but the type of fat that you eat is important. Most of the fat that you eat should be unsaturated fats. Unsaturated fats come mostly from plants like olives, beans, and seeds. Olive, canola, peanut, and sunflower oils are all unsaturated fats.

Unsaturated fat also is found in fish, especially fatty fish like salmon. You should eat fish at least twice a week. If you are pregnant, it is safe to eat fish, but do not eat those that have high mercury levels—shark, swordfish, tilefish, and king mackerel. Limit canned tuna to no more than 6 ounces per week.

Increasing your intake of fiber also can help lower your risk of heart disease and diabetes. Foods that are good sources of fiber include

- fruits, such as dried fruits, berries, oranges, and apples and peaches with the skin
- · vegetables, especially dried beans, peas, and leafy vegetables like spinach and kale
- whole-grain foods, such as whole wheat bread or brown rice

Moderate alcohol use—no more than 1 drink a day for women—may help decrease the risk of heart disease in those who are middle aged or older. But drinking at more than a moderate level can increase the risk of CVD as well as other serious health problems, such as cancer.

Why is it important to manage my weight?

Obesity and being overweight increase the risk of many health problems, including heart disease, high blood pressure, and diabetes. Weight loss is recommended if you are overweight or obese.

Talk with your doctor or other health care professional about a diet and exercise plan that can help you lose weight safely and effectively. Medications to help with weight loss or bariatric surgery (weight-loss surgery) may be options for some people who are obese.

Why is it important to quit smoking?

Smoking is a major cause of heart disease. Your risk of heart disease increases the more you smoke and the longer you smoke. Female smokers have a higher risk of heart disease than male smokers.

If you smoke, quit. You can get help from your doctor or other health care professional and from "quit lines" that have been set up in every state. Call 1-800-QUIT-NOW (784-8669) to find out how to access the quit line in your area.

Why is it important to stay active?

Lack of physical activity can increase your risk of CVD. Regular exercise can strengthen your heart and promote the health of your blood vessels. Exercise helps boost your "good cholesterol" levels and lower blood pressure levels, which can reduce your risk of heart disease and stroke.

The Centers for Disease Control and Prevention (CDC) recommend getting at least 150 minutes of exercise every week. You can divide the 150 minutes into 30-minute workouts on 5 days per week or into smaller 10-minute periods throughout each day.

Glossary

Arteries: Blood vessels that carry oxygen-rich blood from the heart to the rest of the body.

Atherosclerosis: Narrowing and clogging of the arteries by a buildup of plaque. Also called hardening of the arteries.

Aura: A sensation or feeling experienced just before the onset of certain disorders like migraine attacks or epileptic seizures. These sensations may be flashing lights, a particular smell, dizziness, or seeing spots.

Autoimmune Disorders: Conditions in which the body attacks its own tissues.

Cardiovascular Disease (CVD): Diseases of the heart and blood vessels.

Cerebrovascular Disease: Diseases that affect the blood vessels in the brain.

Cholesterol: A natural substance that is a building block for cells and hormones. This substance helps carry fat through the blood vessels for use or storage in other parts of the body.

Coronary Artery Disease: A buildup of cholesterol in the walls of the arteries. This buildup can narrow arteries and lead to a heart attack.

Diabetes Mellitus: A condition in which the levels of sugar in the blood are too high.

Estrogen: A female hormone produced in the ovaries.

Gestational Diabetes: Diabetes that starts during pregnancy.

Gestational Hypertension: High blood pressure that is diagnosed after 20 weeks of pregnancy.

Glucose: A sugar in the blood that is the body's main source of fuel.

Heart Attack: Damage to part of the heart muscle that occurs when its blood supply is interrupted. A heart attack almost always is caused by narrowing or blockage of the blood vessels in the heart.

Hemorrhagic Stroke: A type of stroke in which a blood vessel in the brain ruptures (bursts).

Hormones: Substances made in the body that control the function of cells or organs.

Hypertension: High blood pressure.

Inflammation: Pain, swelling, redness, and irritation of tissues in the body.

Insulin: A hormone that lowers the levels of glucose (sugar) in the blood.

Ischemic Stroke: A type of stroke in which a blood vessel in the brain becomes blocked and cuts off blood flow to an area of brain tissue.

Menopause: The time when a woman's menstrual periods stop permanently. Menopause is confirmed after 1 year of no periods.

Peripheral Artery Disease: A disease in which the arteries that supply blood to the body are narrowed.

Plaque: A waxy substance made up of cholesterol and different types of cells. Plaque can form within the walls of arteries and causes atherosclerosis.

Polycystic Ovary Syndrome (PCOS): A condition that leads to a hormone imbalance that affects a woman's monthly menstrual periods, ovulation, ability to get pregnant, and metabolism.

Preeclampsia: A disorder that can occur during pregnancy or after childbirth in which there is high blood pressure and other signs of organ injury. These signs include an abnormal amount of protein in the urine, a low number of platelets, abnormal kidney or liver function, pain over the upper abdomen, fluid in the lungs, or a severe headache or changes in vision.

Progestin: A synthetic form of progesterone that is similar to the hormone made naturally by the body.

Triglyceride: A form of body fat found in the blood and tissues. High levels can cause heart disease.

If you have further questions, contact your ob-gyn.

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