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National Institute of Mental Health
Depression and Heart Disease
Depression not only affects your brain and behavior—it affects your entire body. Depression has been linked with other health problems, including heart disease. Dealing with more than one health problem at a time can be difficult, so proper treatment is important.

What is heart disease?
Heart disease refers to a number of illnesses that affect your heart and nearby blood vessels. Your heart is a muscle that pumps blood through your body. Like any muscle, your heart needs a constant supply of oxygen and nutrients, which it gets from blood pumped from the lungs and other parts of the body. Blood vessels carry this oxygen- and nutrient-rich blood to the heart. If not enough blood reaches your heart, you may feel a pain in your chest called angina. You may also feel angina pain in the left arm and shoulder, neck, or jaw. You may not always feel angina when your heart is not getting enough blood.

A heart attack occurs when the blood supply to your heart is cut off completely. If blood flow isn’t quickly restored, the part of your heart that does not receive oxygen begins to die. While some heart muscle may be permanently damaged, quick treatment can limit the harm and save your life.

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How are depression and heart disease linked?
People with heart disease are more likely to suffer from depression than otherwise healthy people. Angina and heart attacks are closely linked with depression. Researchers are unsure exactly why this occurs. They do know that some symptoms of depression may reduce your overall physical and mental health, increasing your risk for heart disease or making symptoms of heart disease worse. Fatigue or feelings of worthlessness may cause you to ignore your medication plan and avoid treatment for heart disease. Having depression increases your risk of death after a heart attack.

How is depression treated in people who have heart disease?
Depression is diagnosed and treated by a health care provider. Treating depression can help you manage heart disease and improve your overall health. Recovery from depression takes time but treatments are effective. At present, the most common treatments for depression include:

- Cognitive behavioral therapy (CBT), a type of psycho-therapy, or talk therapy, that helps people change negative thinking styles and behaviors that may contribute to their depression
- Selective serotonin reuptake inhibitor (SSRI), a type of antidepressant medication that includes citalopram (Celexa), sertraline (Zoloft), and fluoxetine (Prozac)
- Serotonin and norepinephrine reuptake inhibitor (SNRI), a type of antidepressant medication similar to SSRIs that includes venlafaxine (Effexor) and duloxetine (Cymbalta).

While currently available depression treatments are generally well tolerated and safe, talk with your health care provider about side effects, possible drug interactions, and other treatment options. For the latest information on medications, visit the U.S. Food and Drug Administration website at http://www.fda.gov. Not everyone responds to treatment the same way. Medications can take several weeks to work, may need to be combined with ongoing talk therapy, or may need to be changed or adjusted to minimize side effects and achieve the best results.

Treating your depression may make it easier for you to follow a long-term heart disease treatment plan and make the lifestyle changes required to manage your heart disease, including:

- Eating healthy foods
- Exercising regularly
- Drinking less alcohol, or none at all
- Quitting smoking

Some people may also need to take heart medications or have surgery to treat heart disease.

Regular exercise not only protects you against heart disease, it may also help reduce depression. One study found that an exercise training program was as effective as an SSRI in improving the symptoms of depression among older adults diagnosed with the disease. Your health care provider can recommend safe exercises and activities suitable for you.

More information about depression treatments can be found on the NIMH website at http://www.nimh.nih.gov/health/publications/depression/how-is-depression-detected-and-treated.shtml. If you think you are depressed or know someone who is, don’t lose hope. Seek help for depression.