

What Is Osteoarthritis?

Osteoarthritis is a joint disease that mostly affects cartilage. Cartilage is the slippery tissue that covers the ends of bones in a joint. Healthy cartilage allows bones to glide over each other. It also helps absorb the shock of movement. In osteoarthritis, the top layer of cartilage breaks down and wears away. This allows bones under the cartilage to rub together. The rubbing causes pain, swelling, and loss of motion of the joint. Over time, the joint may lose its normal shape. Also, bone spurs may grow on the edges of the joint. Bits of bone or cartilage can break off and float inside the joint space, which causes more pain and damage. People with osteoarthritis often have joint pain and reduced motion. Unlike some other forms of arthritis, osteoarthritis affects only joints and not internal organs. Rheumatoid arthritis-----the second most common form of arthritis-----affects other parts of the body besides the joints. Osteoarthritis is the most common type of arthritis.

Who Gets Osteoarthritis?

Osteoarthritis occurs most often in older people. Younger people sometimes get osteoarthritis, primarily from joint injuries.

What Causes Osteoarthritis?

Osteoarthritis usually happens gradually over time. Some risk factors that might lead to it include:

- Being overweight
- Getting older
- Joint injury
- Joints that are not properly formed
- A genetic defect in joint cartilage
- Stresses on the joints from certain jobs and playing sports.

How Is Osteoarthritis Diagnosed?

Osteoarthritis can occur in any joint. It occurs most often in the hands, knees, hips, and spine.

Warning signs of osteoarthritis are:

- Stiffness in a joint after getting out of bed or sitting for a long time
- Swelling or tenderness in one or more joints
- A crunching feeling or the sound of bone rubbing on bone.

No single test can diagnose osteoarthritis. Most doctors use several methods to diagnose the disease and rule out other problems:

- Medical history
- Physical exam
- X rays
- Other tests such as blood tests or exams of the fluid in the joints.

How Is Osteoarthritis Treated?

Doctors often combine treatments to fit a patient's needs, lifestyle, and health. Osteoarthritis treatment has four main goals:

- Improve joint function

- Keep a healthy body weight
- Control pain
- Achieve a healthy lifestyle.

Osteoarthritis treatment plans can involve:

- Exercise
- Weight control
- Rest and joint care
- Nondrug pain relief techniques to control pain
- Medicines
- Complementary and alternative therapies
- Surgery.

How Can Self-Care and a "Good-Health Attitude" Help?

Three kinds of programs help people learn about osteoarthritis and self-care and improve their good-health attitude:

- Patient education programs
- Arthritis self-management programs
- Arthritis support groups.

What Research Is Being Done on Osteoarthritis?

Osteoarthritis is not simply a disease of "wear and tear" that happens in joints as people get older. There is more to the disease than aging alone.

Researchers are studying:

- Tools to detect osteoarthritis earlier
- Genes
- Tissue engineering-----special ways to grow cartilage to replace damaged cartilage
- A wide range of treatment strategies
- Medicines to prevent, slow down, or reverse joint damage
- Complementary and alternative therapies
- Vitamins and other supplements
- Education to help people manage their osteoarthritis better
- Exercise and weight loss as ways to improve mobility and decrease pain.

For Your Information

This fact sheet may contain information about medications used to treat the health condition discussed here. When this fact sheet was printed, we included the most up-to-date (accurate) information available. Occasionally, new information on medication is released. For updates and for any questions about any medications you are taking, please contact the U.S. Food and Drug Administration at 888---INFO--FDA (toll free: 888--463--6332) or visit its Web site at www.fda.gov.