

ePublications

Lupus fact sheet

What is lupus?

Lupus (LOO-puhss) is a chronic, autoimmune (aw-toh-ih-MYOOON) disease. It can damage any part of the body (skin, joints, and/or organs inside the body). Chronic means that the signs and symptoms tend to last longer than six weeks and often for many years. In lupus, something goes wrong with your immune system, which is the part of the body that fights off viruses, bacteria, and other germs ("foreign invaders," like the flu). Normally your immune system produces proteins called antibodies that protect the body from these invaders. Autoimmune means your immune system cannot tell the difference between these invaders and your body's healthy tissues ("auto" means "self"). In lupus, your immune system creates autoantibodies (AW-toh-AN-teye-bah-deez), which sometimes attack and destroy healthy tissue. These autoantibodies contribute to inflammation, pain, and damage in various parts of the body.

When people talk about "lupus," they usually mean systemic lupus erythematosus (ur-uh-thee-muh-TOH-suhss), or SLE. This is the most common type of lupus. It is hard to guess how many people in the U.S. have lupus, because the symptoms are so different for every person. Sometimes it is not diagnosed. The Lupus Foundation of America thinks that about 16,000 new cases are reported across the country each year.

Although lupus can affect almost any organ system, the disease, for most people, affects only a few parts of the body. For example, one person with lupus may have swollen knees and fever. Another person may be tired all the time or have kidney trouble. Someone else may have rashes. Over time, more symptoms can develop.

Normally, lupus develops slowly, with symptoms that come and go. Women who get lupus most often have symptoms and are diagnosed between the ages of 15 and 45. But the disease also can happen in childhood or later in life.

For some people, lupus is a mild disease. But for others, it may cause severe problems. Even if your lupus symptoms are mild, it is a serious disease that needs constant monitoring and treatment. It can harm your organs and put your life at risk if untreated.

Although the term "lupus" commonly refers to SLE, there are several kinds of lupus:

- **Systemic lupus erythematosus, or SLE**, makes up about 70 percent of all cases of lupus. SLE can be mild or severe and can affect various parts of the body. Common symptoms include fatigue, hair loss, sensitivity to the sun (photosensitivity), painful

and swollen joints, unexplained fever, skin rashes, and kidney problems. In general the diagnosis of lupus is based off of a combination of physical symptoms and laboratory results.

- **Cutaneous** (kyoo-TAY-nee-uhss) **lupus erythematosus** can be limited to the skin or seen in those with SLE. "Cutaneous" means "skin." Symptoms may include rashes/lesions, hair loss, vasculitis (swelling of the blood vessels), ulcers, and photosensitivity. A doctor will remove a small piece of the rash or sore and look at it under a microscope to tell if someone has skin lupus and what form it is. There are two major kinds of cutaneous lupus:
 - **Discoid** (DISS-koid) **lupus erythematosus**, also called DLE, mainly affects the skin. The discoid rash usually begins as a red raised rash that becomes scaly or changes color to a dark brown. These rashes often appear on the skin on the face and scalp, but other areas may also be affected. Many people with DLE have scarring. Sometimes DLE causes sores in the mouth or nose. A doctor will remove a small piece of the rash or sore and look at it under a microscope to tell if someone has DLE. If you have DLE, there is a small chance that you will later get SLE. Currently there is no way to know if someone with DLE will get SLE.
 - **Subacute cutaneous lupus erythematosus** makes up 10 percent of lupus cases. About 50 percent of the time, people with subacute cutaneous lupus also have SLE. Subacute cutaneous lupus causes skin lesions that appear on parts of the body exposed to sun. These lesions do not cause scars.
- **Drug-induced lupus** is a form of lupus caused by certain medicines. The symptoms of drug-induced lupus are like those of systemic lupus, but only rarely affect major organs. Symptoms can include joint pain, muscle pain, and fever, and are mild for most people. Most of the time, the disease goes away when the medicine is stopped. However, not everyone who takes these drugs will get drug-induced lupus. The drugs most commonly connected with drug-induced lupus are used to treat other chronic conditions, such as seizures, high blood pressure, or rheumatoid arthritis. Examples include procainamide (Pronestyl®, Procanbid®); hydralazine (Apresoline®; also, hydralazine is an ingredient in Apresazide® and BiDil®); phenytoin (Dilantin®); etanercept (Enbrel®); and adalimumab (Humira®).
- **Neonatal lupus** is a rare condition in infants that is caused by certain antibodies from the mother. These antibodies can be found in mothers who have lupus. But it is also possible for an infant to have neonatal lupus even though the mother is healthy. However, in these cases the mother will often develop symptoms of lupus later in life. At birth, an infant with neonatal lupus may have a skin rash, liver problems, or low blood cell counts, but these symptoms disappear completely after several months and have no lasting effects. Infants with neonatal lupus can also have a rare but serious heart defect. With proper testing, physicians can now identify most at-risk mothers, and the infant can be treated at or before birth. Most infants of mothers with lupus are healthy.

Who gets lupus?

Anyone can get lupus. About 9 out of 10 adults with lupus are women ages 15 to 45. African-American women are three times more likely to get lupus than white women. Lupus is also more common in Latina, Asian, and Native American women. Men are at a higher risk before puberty and after age 50. Despite an increase in lupus in men in these age groups, two-thirds of the people who have lupus before puberty and after age 50 are women.

African-Americans and Latinos tend to get lupus at a younger age and have more severe symptoms, including kidney problems. African-Americans with lupus have more problems with seizures, strokes, and dangerous swelling of the heart muscle. Latina patients have more heart problems as well. Scientists believe that genes play a role in how lupus affects these ethnic groups.

Apart from genetic factors, lupus can be more severe for people who aren't getting the care they need. Studies have shown that people with lupus who have a lower household income, lower level of education, or less of a support system tend to do worse with the disease. For some people with lupus, severe symptoms of the disease leave them unable to work, which may result in low income and lack of health insurance. These factors make it hard for a person with lupus to get the right treatment — or sometimes even diagnosis — that they need.

Why is lupus a concern for women?

Lupus is most common in women, especially women in their childbearing years. Having lupus increases your risk of other health problems that are common in women. It can also cause these diseases to occur earlier in life:

- **Heart disease.** When you have lupus you are at bigger risk of the main type of heart disease, called coronary artery disease (CAD). This is partly because people with lupus have more CAD risk factors, which may include high blood pressure, high cholesterol, and type 2 diabetes. The inflammation that accompanies lupus also increases the risk of developing CAD. Women with lupus are often less active because of fatigue, joint problems, and/or muscle pain, and this also puts them at risk. Heart disease is the number one killer of all women. But, women with lupus are 50 times more likely to have chest pain or a heart attack than other women of the same age.
- **Osteoporosis (OSS-tee-oh-puh-ROH-suhss).** Women with lupus have more bone loss and broken bones than other women. This might be because some medicines used to treat lupus cause bone loss. The disease itself can also cause bone loss. Also, pain and fatigue can keep women with lupus from exercising. Staying active is important for keeping bones healthy and strong.
- **Kidney disease.** Many symptoms of lupus come from the swelling of organs in the body. Almost half of all people with lupus develop kidney problems, called lupus

nephritis. Kidney problems often begin within the first five years after lupus symptoms start to appear. This is one of the more serious complications of lupus, but there are treatments if problems are caught early. However, it is important to know that kidney inflammation is not painful and you can't feel it. That is why it's important for people with lupus to keep up-to-date with the screenings their doctors recommend. These will include urine and blood tests.

What causes lupus?

The cause of lupus is not known. It's not a disease you can catch from another person. Researchers are looking at these factors:

- Environment (sunlight, stress, smoking, certain medications, and viruses might trigger symptoms in people who are prone to getting lupus)
- Hormones such as estrogen (lupus is more common in women during childbearing years)
- Problems with the immune system
- Genes play an important role, but are not the only reason a person will get lupus. Even someone who has one or more of the genes associated with lupus has a small chance of actually getting the disease. And only 10 percent of people with lupus have a parent or sibling who also has it.

What are the symptoms of lupus?

The signs of lupus differ from person to person. Some people have just a few symptoms; others have more. Lupus symptoms also tend to come and go. Lupus is a disease of flares (the symptoms worsen and you feel ill) and remissions (the symptoms improve and you feel better).

Common signs of lupus are:

- Joint pain and stiffness, with or without swelling
- Muscle aches, pains, or weakness
- Fever with no known cause
- Feeling very tired
- Butterfly-shaped rash across the nose and cheeks
- Other skin rashes
- Unusual weight loss or weight gain
- Anemia (uh-NEE-me-uh) (too few red blood cells)

- Trouble thinking, memory problems, confusion
- Kidney problems with no known cause
- Chest pain when taking a deep breath
- Sun or light sensitivity
- Hair loss
- Purple or pale fingers or toes from cold or stress

Less common symptoms include:

- Blood clots
- Seizures
- Sores in the mouth or nose (usually painless)
- Severe headache
- Dizzy spells
- "Seeing things", not able to judge reality
- Feeling sad
- Strokes
- Dry or irritated eyes

What are flares?

The times when your symptoms worsen and you feel ill are called flares, and they come and go. You may have swelling and rashes one week and no symptoms the next. Sometimes flares occur without clear symptoms and are only seen with laboratory tests. Even if you take medicine for lupus, you may find that some things trigger a flare. For instance, your symptoms may flare after you've been out in the sun or after a hard day at work. Common triggers include:

- Overwork and not enough rest
- Stress
- Being out in the sun or close exposure to fluorescent or halogen light
- Infection
- Injury

- Stopping your lupus medicines
- Certain medications

See What can I do to control my lupus symptoms and prevent flares?

Is lupus fatal?

Many men and women live long, productive lives with lupus. However, it can be fatal for some people. It depends on the severity of illness, how the body responds to treatments, and other factors. Infections are the leading cause of death in people with lupus. Studies show that people with lupus are living longer lives compared to decades past.

How can my doctor tell if I have lupus?

Lupus can be hard to diagnose. It's often mistaken for other diseases. Many people have lupus for a while before they find out they have it. If you have symptoms, tell your doctor right away. No single test can tell if a person has lupus. But your doctor can find out if you have lupus in other ways, including:

1. **Medical history.** Telling your doctor about your symptoms and other problems can help her understand your situation. Keep track of your symptoms by writing them down. See the symptom checklist.
2. **Family history of lupus or other autoimmune diseases.** Tell your doctor if lupus or other autoimmune diseases run in your family.
3. **Complete physical exam.** Your doctor will look for rashes and other signs that something is wrong.
4. **Blood and urine tests.** The antinuclear antibody (ANA) test can show if your immune system is more likely to make the autoantibodies of lupus. Most people with lupus test positive for ANA. But, a positive ANA does not mean you have lupus. About five to ten percent of healthy women test positive for ANA.
5. **Skin or kidney biopsy (BEYE-op-see).** With a biopsy, doctors perform a minor surgery to remove a sample of tissue. The tissue is then viewed under a microscope. Skin and kidney tissue looked at in this way can show signs of an autoimmune disease.

Together, this information can provide clues to your disease. It also can help your doctor rule out other diseases that can be confused with lupus.

Print out this table (PDF, 104 KB) and use it to make notes to take to your doctor. Put a check mark beside the symptoms you have. Note when you have them.

Symptom checklist

Symptom	Where?	When did you	How often?	Recent
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		first notice?		dates?
Example: <i>rash</i>	<i>face and chest</i>	<i>2 years ago</i>	<i>Once or twice a month</i>	<i>9/17, 10/8, 10/23, 11/15</i>
Red rash or color change				
Painful or swollen joints				
Fever with no known cause				
Feeling very tired				
Trouble thinking, memory problems, confusion				
Chest pain with deep breathing				
Sensitivity to the sun				
Unusual hair loss				
Pale or purple fingers or toes				
Sores in mouth or nose				
Other				

Adapted from National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS).

How is lupus treated?

There is no known cure for lupus, but there are treatments. Your treatment will depend on your symptoms and needs. The goals of treatment are to:

- Prevent flares
- Treat symptoms when they occur
- Reduce organ damage and other problems

Your treatment might include using medicines to:

- Reduce swelling and pain
- Prevent or reduce flares
- Calm the immune system
- Reduce or prevent damage to the joints
- Reduce or prevent organ damage

Drugs play an important role in treating lupus. Most likely, the drugs prescribed to you will change often during your treatment. Types of drugs commonly used to treat lupus include:

- **Nonsteroidal anti-inflammatory drugs (NSAIDs).** NSAIDs are used to reduce pain and swelling in joints and muscles. They can help with mild lupus when pain isn't too bad and vital organs are not affected. Aspirin, ibuprofen, and naproxen are some over-the-counter NSAIDs. You need a prescription for stronger ones. NSAIDs can cause stomach upset, heartburn, drowsiness, headache, fluid retention, and other side effects. If overused, NSAIDs also can cause problems in your gastrointestinal tract (which includes the stomach), blood, liver, and kidneys. In pregnant women, NSAIDs should be avoided after the first trimester. They should be used with caution in women who breastfeed.
- **Corticosteroids.** Corticosteroids (KOR-tih-koh-STEER-oyds) are hormones found in our bodies. Manmade versions, often called "steroids," are used to reduce swelling, tenderness, and pain in many parts of the body. In high doses, they can calm the immune system. These drugs are different than steroids used by some people who play sports or lift weights. Corticosteroids come as pills or liquids, creams to apply to the skin, and as shots. Prednisone is one that is commonly used to treat lupus. Lupus symptoms tend to respond very quickly to these powerful drugs. Once this has happened, your doctor will want to lower your dose slowly until you no longer need it. The longer a person uses these drugs, the harder it becomes to lower the dose. But stopping this medicine right away can harm your body. Make sure to use your medicine exactly as your doctor tells you to.

Corticosteroids can have many side effects, so your doctor will give you the lowest dose possible. Short-term side effects can include: a round or puffy face, acne, heartburn, increased appetite, weight gain, and mood swings. These side effects typically stop when the drug is stopped. However, the weight gain will not reverse on its own, so be careful not to overeat while on steroids. Long-term side effects can include: easy bruising, thinning skin and hair, weakened or damaged bones, high blood pressure, damage to the arteries, high blood sugar, infections, muscle weakness, and cataracts. Some people may have ulcers, depression, or even congestive heart failure. Your doctor can prescribe medicines to take with corticosteroids to prevent some side effects. Corticosteroids can be used during pregnancy with your doctor's supervision

- **Antimalarial drugs.** Medicines used to prevent or treat malaria are used to treat joint pain, skin rashes, fatigue, and inflammation of the lungs. Two common antimalarials are hydroxychloroquine sulfate (Plaquenil®) and chloroquine phosphate (Aralen® phosphate). Side effects of antimalarials can include stomach upset, nausea, vomiting, diarrhea, headache, dizziness, blurred vision, trouble sleeping, and itching. People treated with antimalarials should see an eye doctor every year, because of the low risk of eye problems. Studies have found that taking antimalarials can stop flares and some help people with lupus live longer.
- **BLyS-specific inhibitors.** The first medication approved by the Food and Drug Administration under this new class of drugs is called belimumab (Benlysta®). It limits the amount of autoantibodies found in people with lupus. The drug blocks the action of a specific protein in the body that is important in immune response. Two clinical studies in more than 1,600 people with lupus showed Benlysta to be safe and effective. However, the research did not have enough data showing Benlysta to be effective in African-Americans, so another study is being done. In clinical studies, people taking Benlysta reported more deaths and serious infections than those not taking the drug. Benlysta should not be given with live vaccines. The most common side effects included nausea, diarrhea, and fever.
- **Immunosuppressive agents/chemotherapy.** These agents are used in severe cases of lupus, when major organs are affected by lupus and other treatments do not work. These drugs suppress the immune system to limit the damage to the organ. Examples are azathioprine (Imuran®), and cyclophosphamide (Cytoxan®), mycophenolate mofetil (Cellcept), and methotrexate (Rheumatrex® and Trexall®). These drugs can cause serious side effects including nausea, vomiting, hair loss, bladder problems, decreased fertility, and a risk of cancer and infection. These drugs can also cause birth defects. If you take these medicines, your doctor may tell you to avoid pregnancy.

You and your doctor should review your treatment plan often to be sure it is working. Also, you may need other drugs to treat conditions that are linked to your lupus — such as high blood pressure, osteoporosis, or blood clots. Many people with lupus are prescribed anticoagulants ("blood thinners"), such as warfarin (Coumadin®) or heparin, because of the risk of blood clots. An untreated blood clot can cause a stroke or heart attack. Pregnant women should not take warfarin.

Tell your doctor about any side effects or if your medicines no longer help your symptoms. Tell your doctor if you have new symptoms. Never stop or change treatments without talking to your doctor first.

Are there options for treating my lupus with complementary or alternative medicine?

Some people with lupus try creams, ointments, fish oil, supplements, special diets, or homeopathy, or see a chiropractor, to care for their lupus. Some people with lupus have said these help. However, research has not proven that any of these alternatives successfully

treats lupus or reduces the risk of other problems. More importantly, research has not been done to show whether these therapies could be harmful. That is why you must talk to your doctor before trying any alternative remedy. Don't stop or change your prescribed treatment without first talking to your doctor.

Should I get vaccines if I have lupus?

Vaccines that protect against pneumonia and the flu are safe for people with lupus if they are killed virus vaccines. (These vaccines have no active virus and can't make you sick, but they can still help you make antibodies.) Your doctor may suggest that you get these vaccines to lower your risk of infection. However, they may not work as well for you as for other people who don't have lupus, especially if you are taking steroids or other immunosuppressive drugs.

It is possible that vaccines that contain live virus — like the vaccines for measles, mumps, and rubella, and sometimes flu — may be dangerous for some people with lupus. However, people with lupus have reported receiving these shots with no problems. Ask your doctor what is best for you.

Will I need to see a special doctor for my lupus?

Depending on your symptoms and/or if your organs have been hurt by your lupus, you may need to see special kinds of doctors. Start by seeing your family doctor and a rheumatologist (ROOM-uh-TOL-uh-jist), a doctor who specializes in the diseases of joints and muscles such as lupus.

Your rheumatologist may ask that you also see:

- A clinical immunologist (im-yoo-NOL-oh-jist), a doctor who treats immune system disorders
- A nephrologist (ne-FROL-oh-jist), a doctor who treats kidney diseases
- A hematologist (hee-muh-TOL-oh-jist), a doctor who treats blood disorders
- A dermatologist (dur-muh-TOL-oh-jist), a doctor who treats skin problems and diseases
- A neurologist (noo-ROL-oh-jist), a doctor who treats problems with the nervous system
- A cardiologist (kar-dee-OL-oh-jist), a doctor who specializes in the heart and blood vessels
- An endocrinologist (EN-doh-kri-NOL-oh-jist), a doctor who specializes in problems with the glands and hormones
- A psychologist (seye-KOL-uh-jist) or psychiatrist (seye-KEYE-uh-trist), doctors who treat anxiety and depression

- An occupational (ok-yuh-PAY-shuh-nul) therapist
- A social worker

What can I do to control my lupus symptoms and prevent flares?

The best way to keep your lupus under control is by following your treatment plan and taking care of yourself. Take these steps:

- Learn how to tell that a flare is coming
- See your doctors regularly
- Maintain life balance by setting realistic goals and priorities
- Limit the time you spend in the sun and in fluorescent and halogen light
- Eat a healthy diet
- Develop coping skills to help limit stress
- Get enough sleep and rest
- Exercise moderately with your doctor's okay and when you're feeling up to it
- Build a support system made up of people you trust and can go to for help

Despite your best efforts to follow your treatment plan and take good care of yourself, there will be times when your lupus symptoms are worse. Being able to spot the warning signs of a flare can help you prevent the flare or make it less severe. Before a flare your symptoms might get worse, or you might get new symptoms, such as:

- Feeling more tired
- Pain
- Rash
- Fever
- Stomach ache
- Severe headache
- Dizziness

Contact your doctor right away if you suspect a flare is coming.

Should I change my diet because I have lupus?

People with lupus may have to make changes to their diet based on their symptoms, on treatment, and other factors. Ask your doctor if you should eat a special diet because of your lupus.

For instance, people with lupus are more likely to get hyperlipidemia (HEYE-pur-lip-ih-DEE-mee-uh) (high level of fats in the blood). With this condition, you will need to follow a low-fat diet. If your lupus is causing many high fevers, you may need to eat more calories. Or, steroids and other drugs might cause you to gain weight, and you will need to switch to a low-calorie diet.

Because people with lupus need to avoid the sun, they may lack vitamin D. Your doctor may tell you to take a vitamin for this reason. Herbal supplements have no proven benefit and can cause harm. Talk to your doctor before trying any vitamins or herbal supplements.

Living with lupus can be hard. How can I cope?

Dealing with a long-lasting disease like lupus can be hard on your feelings. Concerns about your health and the effects of your lupus on your work and family life can be stressful. Changes in the way you look and other physical effects of lupus (and the medicines used to treat lupus) can effect your self-esteem. Your friends, family, and coworkers might not seem to understand how you feel. At times, you might feel sad or angry. Or, you may feel that you have no control over your life with lupus. But there are things you can do that will help you to cope and to keep a good outlook. Try to:

- **Pace yourself.** People with lupus have less energy and must manage it wisely. Most women with lupus feel much better when they get enough rest and avoid taking on too much at home and at work. To do this, pay attention to your body. Slow down or stop before you're too tired. Learn to pace yourself. Spread out your work and other activities.
- **Reduce stress.** Exercising with your doctor's okay, finding ways to relax, and staying involved in social activities you enjoy will reduce stress and help you to cope.
- **Get support.** Be open about your feelings and needs with family members and friends. Consider support groups or counseling. They can help you to see that you are not alone. Group members teach one another how to enjoy life with lupus.
- **Talk to your doctor.** The symptoms of lupus and some medications can bring on feelings of depression. People with lupus are more likely than others to be depressed and anxious. It is important to tell your doctor about your feelings, so that if it's needed, he or she can treat you for mental health disorders that are more common in people with lupus.
- **Learn about lupus.** People who are well-informed and involved in their own care have less pain, are more active, make fewer visits to the doctor, and feel better about themselves.

I have lupus. Is it safe for me to become pregnant?

Women with lupus can safely become pregnant. If your disease is under control, pregnancy is unlikely to cause flares. But there are some important things you should know before you become pregnant:

- Your disease should be under control or in remission for six months before you get pregnant. Getting pregnant when your lupus is active could result in miscarriage, stillbirth, or other serious problems. Planning ahead is critical if you have lupus.
- Some women do get flares during pregnancy. The flares happen most often in the first or second trimester or in the first few months after you have the baby. Most flares are mild and easily treated.
- Preeclampsia (pree-ee-KLAMP-see-uh), or "toxemia," is a serious condition that must be treated right away. Preeclampsia is a condition starting after 20 weeks of pregnancy that causes high blood pressure and problems with the kidneys and other organs. About 2 in 10 pregnant women with lupus get preeclampsia, though some studies say that rate is higher. The risk of preeclampsia is also higher in women with lupus who have a history of kidney disease. If you get preeclampsia, you might notice sudden weight gain, swelling of the hands and face, blurred vision, dizziness, or stomach pain. You might have to deliver your infant early.
- Pregnant women with lupus, especially those taking corticosteroids, are more likely to have high blood pressure and diabetes, and to have kidney problems. Regular doctor visits and good nutrition during pregnancy are important to prevent these problems.
- There are certain groups of women with lupus for whom pregnancy is very risky for the mother and the fetus. This may include women who have a very high pulmonary hypertension, lung disease, heart failure, chronic kidney failure, kidney disease, or a history of preeclampsia. It also may include women who have had a stroke or a lupus flare occur within the past 6 months.
- Although many women with lupus have normal pregnancies, all lupus pregnancies should be considered "high risk." This means there are certain factors that make problems during pregnancy more likely for women with lupus. It doesn't mean there will be problems.

Planning ahead and proper medical care are very important. Remember to:

- Find an obstetrician (OB) who manages high-risk pregnancies and who can work closely with your regular doctor.
- Plan to have your baby at a hospital that can manage high-risk patients and provide the special care you and your baby may need.
- See your doctor often while you are pregnant.

- Talk to your doctor about which medicines are safe to use while pregnant.
- Make a plan for help at home during your pregnancy and after your baby is born. Motherhood can be very tiring, and even more so for women with lupus.
- Develop a birth control plan for after you have your baby. A pregnancy that occurs soon after giving birth has more risks even in women who don't have lupus. It is possible to get pregnant before your period begins again or while you are breastfeeding. For more information, visit our section on getting pregnant again.

I am pregnant. How can I tell whether changes in my body are normal or signs of a flare?

It may be hard to tell the difference. You may have symptoms from being pregnant that you mistake for a flare. Here are some examples:

- **Skin.** While pregnant, you may have red palms and a rash. Lupus can also cause a rash.
- **Joints.** Pregnancy can cause aching in your joints. Lupus can also cause pain and swelling in your joints.
- **Lungs.** Pregnancy also can cause shortness of breath. Lupus can also make it hard to take deep breaths.
- **Leg swelling.** Pregnancy can cause your legs to swell. Swollen legs are also a sign of kidney problems in people with lupus.

Fortunately, recent studies show that flares are uncommon and tend to be mild during pregnancy. Some women with lupus find their symptoms improve during pregnancy. Still, it's important to report new symptoms to your doctor. This way, flares that do occur can be prevented or controlled.

I am pregnant and have lupus. Will my baby be born healthy?

Babies born to women with lupus have no greater chance of birth defects or mental retardation than babies born to women without lupus. About one to two percent of babies born to mothers who have the antibodies for lupus will have neonatal lupus that includes congenital heart block, a serious heart defect. In most cases, neonatal lupus goes away after 3 to 6 months and does not come back. A mother who does not have lupus can still give birth to a baby with neonatal lupus. It is common for these mothers to have symptoms of lupus or Sjogren's syndrome (another autoimmune disease) later in life.

Can I breastfeed if I have lupus?

Breastfeeding is possible for mothers with lupus. Some medicines can pass through your breast milk to your infant. Talk to your doctor about whether breastfeeding is safe with the

medicines you use to control your lupus. Breastfeeding also can be very tiring because breastfed babies eat more often than formula-fed babies and your body needs energy to make milk. If the demands of breastfeeding become too much for you, think about breastfeeding only some of the time. Pumping breast milk to be used later also might help. You can also look into human milk banks. Never use milk you get directly from another woman or the Internet. You can find a human milk bank through the Human Milk Banking Association of North America. Talk to your doctor — you will need a prescription to get milk from a milk bank.

My child has lupus — is it different for him or her?

Lupus is the same disease in children that it is in adults. However, kids with lupus often have the disease for a longer period of time before it is diagnosed. Therefore, kids may have more problems at a younger age. They may need more aggressive treatment.

Parenting a child with lupus has many challenges. You need to make sure your child takes medications as directed by his or her doctor. You will need to teach your child how to prevent flares. And you will need to make tough choices about balancing your child's health against his or her desire to do the things other kids are doing.

What research is being done on lupus?

Lupus is the focus of intense research. Studies are looking at:

- The genes that play a role in lupus and in the immune system
- Ways to change the immune system in people with lupus
- Lupus in different ethnic groups
- Things in the environment that may cause lupus
- The role of hormones in lupus
- Birth control pills and hormone therapy in women with lupus
- Heart disease in people with lupus
- The causes of nervous system damage in people with lupus
- Treatments for lupus
- Treatments for organ damage caused by lupus, including stem cell transplantation
- Getting a better idea of how many Americans have lupus

Clinical trials are medical research studies to see whether new treatments are safe and effective. These studies help doctors learn how people respond to medicines and other new or

improved treatments. Patients and families can get information about these lupus trials at <http://www.clinicaltrials.gov>.

More information on lupus

For more information about lupus, call womenshealth.gov at 800-994-9662 (TDD: 888-220-5446) or contact the following organizations:

- **Alliance for Lupus Research**
Phone: 800-867-1743
- **American Autoimmune Related Diseases Association**
Phone: 586-776-3900, 800-598-4668 (literature requests)
- **American College of Rheumatology**
Phone: 404-633-3777
- **Arthritis Foundation**
Phone: 800-283-7800
- **Lupus Foundation of America**
Phone: 800-558-0121
- **National Heart, Lung, and Blood Institute**
Phone: 301-592-8573 (TDD: 240-629-3255)
- **National Institute of Allergy and Infectious Diseases**
Phone: 866-284-4107 (TDD: 800-877-8339)
- **National Institute of Arthritis and Musculoskeletal and Skin Diseases**
Phone: 877-226-4267 (TDD: 301-565-2966)
- **National Institute of Neurological Disorders and Stroke**
Phone: 800-352-9424 (TDD: 301-468-5981)
- **National Kidney and Urologic Diseases Information Clearinghouse**
Phone: 800-891-5390 (TDD: 866-569-1162)
- **S.L.E. Lupus Foundation**
Phone: 800-745-8787

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