What is lupus?
Systemic lupus erythematosus (SLE), commonly referred to as lupus, is a debilitating autoimmune disease that affects each person differently and can change over time. This complexity makes it one of the hardest diseases to diagnose and treat.

What goes wrong with the immune system?
In lupus, the immune system mistakenly attacks the body’s own tissues and vital organs.

What are the signs and symptoms?
The most common symptoms include extreme fatigue, severe joint and muscle pain, fevers and skin rashes. These symptoms can come and go.

How common is lupus?
According to the U.S. Centers for Disease Control and Prevention, a conservative estimate suggests 322,000 Americans have definite or probable SLE. 90% of people diagnosed with lupus are women, typically during childbearing years, ages 15-44. Lupus is two to three times more common and its symptoms tend to be more severe among African Americans, Hispanics, Latinos, Native Americans and Asians than Caucasians.

How is lupus diagnosed?
There is no single laboratory test that can definitively identify lupus. Yet, early detection and treatment can often lessen the progression and severity of the disease.

What are the complications of lupus?
Complications can be severe, leading to organ failure and even death. Among young black and Hispanic women ages 15-34, lupus is the 5th and 6th leading cause of death just behind cancer, heart disease and HIV. Lupus nephritis (kidney inflammation) is among the most common and serious complication.

How is lupus treated?
There is no cure for lupus; treatment focuses on managing symptoms, stop flare-ups, lower disease activity, prevent organ damage and improve quality of life.

• Anti-inflammatory drugs like ibuprofen and acetaminophen help reduce pain and lower a fever.
• Corticosteroids can also reduce pain and swelling due to inflammation. At a higher dose, corticosteroids can help calm down the immune system.
• Antimalarial drugs like hydroxychloroquine may help prevent lupus flares and can treat common symptoms like joint pain, skin rash, tiredness and inflammation in the lungs.
• Immunosuppressive drugs/chemotherapy are used in severe cases to stop the immune system from attacking major organs.

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B-lymphocyte stimulator (BlyS) protein inhibitor, a type of biologic medication, can help lower the number of abnormal B cells that create antibodies. Benlysta® (belimumab), the only medication approved specifically for lupus, is a BlyS-specific inhibitor. 

Other medications are used to treat symptoms that can develop because of lupus such as high blood pressure or infection.

**Why are new treatments needed?**

Just one new drug specifically for lupus has been approved by the U.S. Food and Drug Administration in nearly 60 years. Because lupus affects each person differently and the symptoms vary widely, no one medication can work for everyone. A variety of medications that target different mechanisms involved in causing the disease as well as options with fewer and less severe side effects are critically needed.

**Today's research progress**

Continued, accelerated research spanning the full continuum from fundamental lab work to clinical trials testing potential drugs is the only pathway to discover better ways to diagnose, prevent, control and ultimately cure this devastating disease.

The Lupus Research Alliance (LRA), the world’s largest and most influential private funder of innovative research, has committed more than $200 million for more than 500 research grants and lupus research programs. Projects funded by the LRA continue to investigate what causes lupus; why its prevalence is affected by race and gender; how to manage the damage lupus causes to major organs like the brain, kidneys and heart; why lupus or other autoimmune diseases may run in families. The goal is to develop ways to treat every person with the right medication that targets how lupus affects them. With hundreds of clinical trials in progress and many potential treatments in late-stages of testing, the outlook for lupus treatment has never been better. The LRA will not stop working until a cure is found and there is Life Without Lupus.

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