

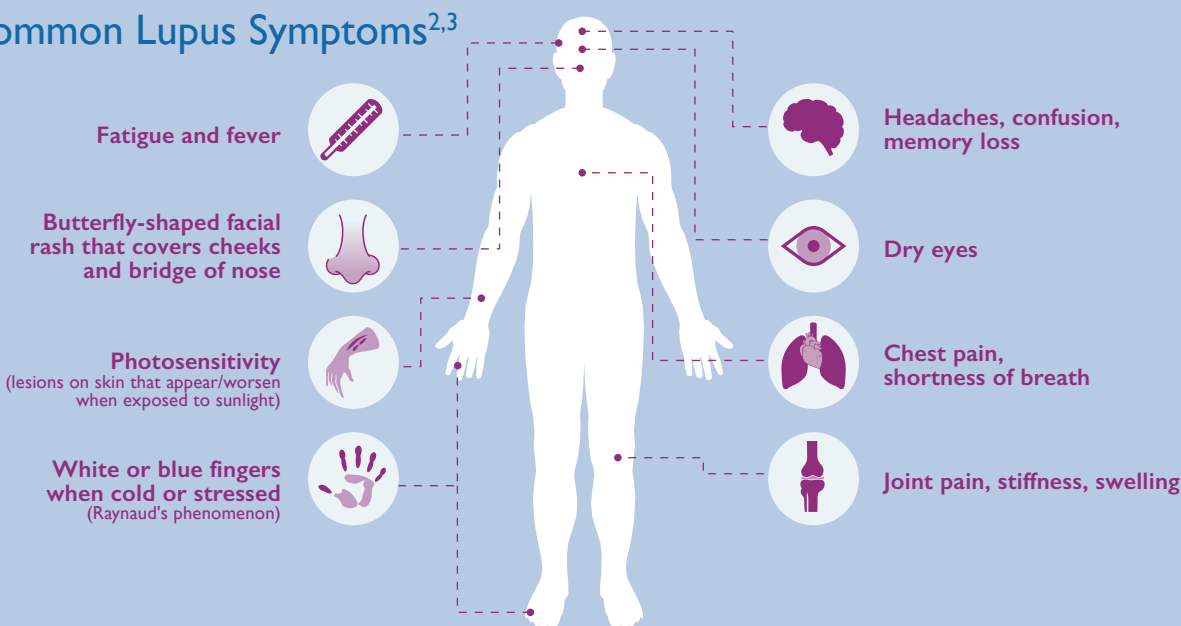
Systemic Lupus Erythematosus (SLE)



What is Systemic Lupus Erythematosus (SLE)?

SLE is a chronic autoimmune disease that can affect almost any organ system.¹

Common Lupus Symptoms^{2,3}



Prevalence

OVER 90%
of SLE patients are
young women around
childbearing age.¹

There are more than
2.1 MILLION
patients worldwide with
moderate-to-severe lupus.⁴

20% of people with
lupus have a parent or
sibling who already has
lupus or may develop
lupus.⁵

SLE is **2 TO 4**
times more frequent,
and more severe, among
nonwhite populations
around the world.⁶



Impact and Progression

SLE has a significant impact on patients' lives:

- Disease flares can be unpredictable and many patients experience waxing and waning of symptoms.
- Around 25 percent of SLE patients develop lupus nephritis, inflammation of the kidney.⁷ This represents a significant risk to morbidity and mortality as it can lead to kidney failure.



Diagnosis

Signs and symptoms vary considerably from person to person and overlap with other diseases.⁸

There is a lack of reliable diagnosis markers,⁹ and no one test can diagnose lupus.⁷

Tests include:

- Complete blood count and erythrocyte sedimentation rate
- Liver and kidney assessments
- Urine analysis
- Antinuclear antibody test
- X-rays and echocardiograms
- Skin biopsy



Treatment

Limited treatment options exist for SLE.

BMS is committed to identifying and developing potential new treatment options for patients with systemic lupus erythematosus and lupus nephritis.

1. Bartels, C.M. and Muller, D. "Systemic Lupus Erythematosus (SLE)." Medscape. Available from: <http://emedicine.medscape.com/article/332244-overview> Accessed December 2016 2. "What is Lupus." Piedmont Healthcare. Available from: <http://www.piedmont.org/living-better/what-is-lupus> Accessed December 2016 3. "Symptoms." Mayo Clinic. Available from: <http://www.mayoclinic.org/diseases-conditions/lupus/basics/symptoms/con-20019676> Accessed January 2017. 4. BMS Epidemiology Data on File 5. "Statistics on Lupus." Lupus Foundation of America. Available from: <http://www.lupus.org/about/statistics-on-lupus> Accessed December 2016. 6. Pons-Estel, et al. Understanding the Epidemiology and Progression of Systemic Lupus Erythematosus. Semin Arthritis Rheum. 2010 Feb; 39(4): 257. 7. Whittier, W.L., and Lewis, E.J. Lupus Nephritis. Nephrology Secrets. 2003; 244. 8. "Lupus." Mayo Clinic. Available from: <http://www.mayoclinic.org/diseases-conditions/lupus/basics/tests-diagnosis/con-20019676> Accessed December 2016. 9. Liu, C. et al. Biomarkers in systemic lupus erythematosus: challenges and prospects for the future. Ther Adv Musculoskelet Dis. 2013 Aug; 5(4): 210-233.



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