About lupus

What is lupus?

Lupus is an which is:1,2,3,4



The most serious and common form of lupus is called

Systemic Lupus Erythematosus (SLE)5



It principally affects women (9 in 10 patients are female), with highest risk for onset of SLE during childbearing age.^{2,3,6}

SLE is driven by immuno-inflammation.⁷ Instead of producing normal antibodies to protect the body from infection, in patients with SLE, 'auto-antibodies' are produced and attack healthy cells.8

This causes irreversible tissue and organ damage and can lead to premature death. 9,10







Prevalence

SLE is uncommon, affecting approx.

people in every 100,00

SLE is the most **common** and serious type of lupus, affecting approximately 70%

The incidence and prevalence of SLE are higher in African-Americans, along with other ethnic minorities, compared to caucasians.3,11

Signs and symptoms



SLE can affect any of the major organs in the body and symptoms can vary greatly in severity and intensity.

Some of the most common symptoms include:13,14,15

Debilitating fatigue

Joint pain

Diagnosis

The early diagnosis of SLE is difficult due to the non-specific symptoms, such as malaise, joint pain or fatigue. 16 External signs of the disease may be few.



Classification is based on evidence of 4 of 11 objective criteria devised by the American College of Rheumatology. 1,17



Many patients experience significant delays in diagnosis. 18,19

Recognising and reporting symptoms



Findings from a global survey showed that SLE patients often do not report all of their **symptoms** to their doctors, as they do not associate them with the disease.20



Almost three quarters of SLE patients agreed that they only report the symptoms that annoy them the most and often minimise their symptoms when talking with their doctor.20



Fatigue, sensitivity to light and muscle and joint pain are most likely to be reported by SLE patients as severe symptoms.20

The burden of SLE on daily life

Global survey findings have demonstrated:

- 7 in 10 patients agree SLE affects their self-esteem and over half feel alone and powerless.²⁰
- **61%** have had to make adjustments around the house to cope with lupus.20
- 40% of SLE patients quit working or retired earlier than planned.20



SLE survival

95% chance of surviving 5 years.21

85% chance of surviving 15 years.21

In those under 40, mortality is

than the general population. 22,23,24

Treatment

Current treatment for SLE **varies widely**. Treatment goals include: ^{25,26,27}

- reducing disease activity treating symptoms and flares
 - reducing organ damage

Physicians face a difficult balancing act of treating symptoms while attempting to minimise adverse events.25,28



References

1. American College of Rheumatology Ad Hoc Committee on Systemic Lupus Erythematosus Guidelines. Guidelines for referral and management of systemic lupus erythematosus in adults. Arthritis Rheum 1999;42:1785–96. 2. McElhone K, Abbott J, Gray J, et al. Patient perspective of systemic lupus erythematosus in relation to health-related quality of life concepts: a qualitative study. Lupus 2010;19:1640-8. 3. Danchenko N, Satia JA, Anthony MS. Epidemiology of systemic lupus erythematosus: a comparison of worldwide disease burden. Lupus 2006;15:308-18. 4. Lerang K, Gilboe I, Garen T, et al. High incidence and prevalence of systemic lupus erythematosus in Norway. Lupus 2012;21:1362-9. 5. Lupus Foundation of America. Statistics on lupus. Available at: http://www.lupus.org/about/statistics-on-lupus Last accessed April 2015. 6. Yelin E, Trupin L, Katz P, et al. Work dynamics among persons with systemic lupus erythematosus. Arthritis Rheum 2007;57:56-63. 7. Tsokos GC. Systemic lupus erythematosus. N Engl J Med 2011;365:2110-21. 8. NHS Choices. Lupus: introduction. Available at: http://www.nhs.uk/conditions/lupus/pages/introduction.aspx Last accessed April 2015. 9. Mok CC, Lau CS. Pathogenesis of systemic lupus

erythematosus. *J Clin Pathol* 2003;56:481–90. **10.** Nossent J, Kiss E, Rozman B, *et al.* Disease activity and damage accrual during the early disease course in a multinational inception cohort of patients with systemic lupus erythematosus. *Lupus* 2010;19:949–56. **11.** Manzi S. Epidemiology of systemic lupus erythematosus. *Am J Manag Care* 2001;7:S474–9. **12.** Rahman A, Isenberg DA. Systemic lupus erythematosus. *N Engl J Med* 2008;358:929–39. **13.** Uribe AG, McGwin G Jr, Reveille JD, et al. What have we learned from a 10-year experience with the LUMINA (Lupus in Minorities; Nature vs. nurture) cohort? Where are we heading? Autoimmun Rev 2004;3:321-9. 14. Gallop K, Nixon A, Swinburn P, et al. Development of a conceptual model of health-related quality of life for systemic lupus erythematosus from the patient's perspective. Lupus 2012;21:934-43. 15. Cervera R, Khamashta MA, Font J, et al. Morbidity and mortality in systemic lupus erythematosus during a 10-year period: a comparison of early and late manifestations in a cohort of 1,000 patients. Medicine (Baltimore) 2003; 82:299-308. 16. Bertsias G, Cervera R & Boumpas DT.Systemic lupus erythematosus: pathogenesis and clinical features. EULAR textbook on Rheumatic diseases. 2012. 17. Petri M, Orbai AM, Alarcón GS, et al. Derivation and validation of the Systemic Lupus International Collaborating Clinics classification criteria for systemic lupus erythematosus. Arthritis Rheum 2012;64:2677-86. 18. Lateef A, Petri M. Unmet medical needs in systemic lupus erythematosus. Arthritis Res Ther 2012;14 Suppl 4:S4. 19. Arbuckle MR, McClain MT, Rubertone MV, et al. Development of autoantibodies before the clinical onset of systemic lupus erythematosus. N Engl J Med 2003;349:1526-33. **20.** 2014 Global Systemic Lupus Erythematosus (SLE) Survey. GSK data on file. **21.** Kasitanon N, Magder LS, Petri M. Predictors of survival in systemic lupus erythematosus. Medicine (Baltimore) 2006;85:147–56. **22.** Lopez R, Davidson JE, Beeby MD, *et al.* Lupus disease activity and the risk of subsequent organ damage and mortality in a large lupus cohort. *Rheumatology (Oxford)* 2012;51:491–98. **23.** Bernatsky S, Boivin JF, Joseph L, *et al.* Mortality in systemic lupus erythematosus. *Arthritis Rheum* 2006;54:2550–7. 24. Urowitz MB, Gladman DD, Tom BD, et al. Changing patterns in mortality and disease outcomes for patients with systemic lupus erythematosus. J Rheumatol 2008;35:2152-8. **25.** Doria A, Gatto M, Zen M, et al. Optimizing outcome in SLE: treating-to-target and definition of treatment goals. Autoimmun Rev 2014;13:770-7. 26. Kalunian K, Joan TM. New directions in the treatment of systemic lupus erythematosus. Curr Med Res Opin 2009;25:1501-14. 27. Merrill JT. Treatment of

systemic lupus erythematosus: a 2012 update. Bull NYU Hosp Jt Dis 2012;70:172-6. 28. van Vollenhoven R, Mosca M, Bertsias G, et al. Treat-To-Target in Systemic

Lupus Erythematosus: report from the T2T/SLE Working Party. Arthritis Rheum 2013;65:S663.