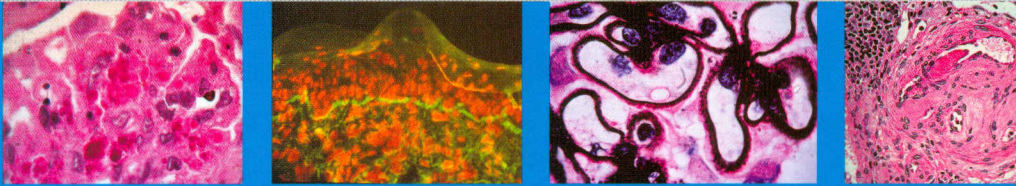


52122

A COMPANION TO RHEUMATOLOGY

SYSTEMIC LUPUS ERYTHEMATOSUS



FIRST EDITION

George C. Tsokos
Caroline Gordon
Josef S. Smoler

MOSBY
ELSEVIER

I. Epidemiology and Diagnosis

1. Epidemiology of Systemic Lupus Erythematosus, 1
Ana M. Bertoli, MD and Graciela S. Alarcón, MD, MPH
2. Assessment of Disease Activity in Systemic Lupus Erythematosus, 19
Marta Mosca, MD, Joan T. Merrill, MD, and Stefano Bombardieri, MD
3. Disease Development and Outcome, 24
Rosalind Ramsey-Goldman, MD, DrPH and Dafna Gladman, MD
4. Quality of Life and Economic Aspects, 32
Ann E. Clarke, MD, MSc and Pantelis Panopalis, MD
5. Biomarkers of Disease Activity, 46
Larissa Lapteva, MD and Gabor G. Illei, MD

II. Pathogenesis

6. Overview of the Pathogenesis of Systemic Lupus Erythematosus, 55
*Sandeep Krishnan, MD, PhD, Bhabadeb Chowdhury, PhD
Yuang-Taung Juang, MD, PhD, and George C. Tsokos, MD*
7. The Environment in the Pathogenesis of Systemic Lupus Erythematosus, 64
Amr H. Sawalha, MD and Bruce Richardson, MD, PhD
8. The Genetics of Lupus, 74
Bahram Namjou, MD, Jennifer A. Kelly, MPH, and John B. Harley, MD, PhD
9. Hormonal Influences in the Expression of Systemic Lupus Erythematosus, 87
Virginia Rider, PhD, Xiaolan Li, MD, and Nabih I. Abdou, MD
10. T-Cells and Systemic Lupus Erythematosus, 95
Robert Hoffman, DO and Marcos E. Maldonado, MD
11. B-Cells in Human Systemic Lupus Erythematosus, 103
Stamatis-Nick Lioussis, MD and George C. Tsokos, MD
12. Cytokines in Systemic Lupus Erythematosus, 109
Violeta Rus, MD and Charles S. Via, MD
13. Biology of Dendritic Cells, 121
*Virginia Pascual, MD, A. Karolina Palucka, MD,
and Jacques Banchereau, MD*
14. Apoptosis, 134
Erika Darrah, BS and Antony Rosen, MD
15. Infection and Autoimmunity, 143
Brian D. Poole, PhD and Judith A. James, MD, PhD
16. Autoantibodies in Systemic Lupus Erythematosus, 156
David Isenberg, MD and Matthew Adler, MRCP
17. What Do Mouse Models Teach Us About Human Systemic
Lupus Erythematosus?, 163
Kui Liu, PhD and Chandra Mohan, MD, PhD

18. Genes and Genetics of Murine Lupus, 171
Shozo Izui, MD
19. Complement Deficiencies in Human Systemic Lupus Erythematosus (SLE) and SLE Nephritis: Epidemiology and Pathogenesis, 183
C. Yung Yu, DPhil, Georges Hauptmann, MD, PhD, Yan Yang, MD, PhD, Yee Ling Wu, BS, BA, Dan J. Birmingham, PhD, Brad H. Rovin, MD, and Lee A. Hebert, MD

III. Mechanisms of Tissue Damage

20. Role of Complement in Systemic Lupus Erythematosus Pathogenesis, 194
Chau-Ching Liu, MD, PhD, Jeannine S. Navratil, MS, Amy H. Kao, MD, MPH, Susan Manzi, MD, MPH, and Joseph M. Ahearn, MD
21. Immune Complexes in Systemic Lupus Erythematosus, 214
Mark H. Wener, MD
22. Antibodies
 - A. Antibodies to DNA, 225
David S. Pisetsky, MD, PhD
 - B. Antibodies and their Antigenic Targets in the Antiphospholipid Syndrome, 233
Bill Giannakopoulos, MB, BS, FRACP, Xiaokai Yan, PhD, and Steven A. Krilis, MB, BS, PhD
 - C. Antineuronal Antibodies, 241
John G. Hanly, MD
 - D. Antibodies to SSA/Ro and SSB/La: Potential Mechanisms of Tissue Injury in Neonatal Lupus-Congenital Heart Block, 248
Jill P. Buyon, MD and Robert M. Clancy, PhD
 - E. Anti-Histone Antibodies in Systemic Lupus Erythematosus, 258
George Schett, MD, Günter Steiner, MD, and Josef S. Smolen, MD
 - F. Standardization of Autoantibody Testing in Systemic Rheumatic Diseases, 265
Marvin J. Fritzler, MD, PhD and Alan Wilk, MD, PhD
 - G. Anti-Spliceosomal Antibodies, 274
Edward K.L. Chan, PhD, Carol Peebles, MS, MT, Marvin J. Fritzler, MD, PhD, and Minoru Satoh, MD, PhD
23. Neutrophils (Polymorphonuclear Leukocytes) in Systemic Lupus Erythematosus, 281
Yair Molad, MD and Bruce N. Cronstein, MD
24. Renal Damage in Systemic Lupus Erythematosus, 287
Steven G. Dimitriou, DO and Michael P. Madaio, MD
25. Mitochondrial Dysfunction and Oxidative Stress in T Cells of Patients with Systemic Lupus Erythematosus, 293
Andras Perl, MD, PhD
26. Nitric Oxide in Systemic Lupus Erythematosus, 301
James C. Oates, MD and Gary S. Gilkeson, MD
27. Systemic Lupus Erythematosus and Vasculitis, 310
Tsutomu Takeuchi, MD
28. Mechanisms of Skin Damage, 318
Markus Böhm, MD and Thomas A. Luger, MD

IV. Clinical Aspects of the Disease

29. Constitutional Features of Systemic Lupus Erythematosus, 329
Caroline Gordon, MA, MD, FRCP
30. Kidney Involvement in Systemic Lupus Erythematosus, 336
Gabor G. Illei, MD and James E. Balow, MD
31. Cutaneous Lupus Erythematosus, 351
Thomas A. Luger, MD, Gisela Bonsmann, MD, Annegret Kuhn, MD, and Markus Böhm, MD

32. The Heart and Systemic Lupus Erythematosus, 361
*Jennifer R. Elliott, MD, Amy H. Kao, MD, MPH,
and Susan Manzi, MD, MPH*
33. The Lung in Systemic Lupus Erythematosus, 374
Rapti Mediwake, MD and Roland M. du Bois, MD
34. Gastrointestinal Disease in Systemic Lupus Erythematosus, 382
Chi Chiu Mok, MD, FRCP
35. Systemic Lupus Erythematosus and Infections, 393
William R. Gilliland, MD and George C. Tsokos, MD
36. Hematologic and Coagulation Abnormalities of Systemic Lupus
Erythematosus and the Antiphospholipid Syndrome, 408
E. Nigel Harris, MD, Wendell A. Wilson, MD, and Silvia S. Pierangeli, PhD
37. The Nervous System in Systemic Lupus Erythematosus, 414
John G. Hanly, MD
38. Overlap Syndromes, Mixed Connective Tissue Disease,
and Undifferentiated Connective Tissue Disease, 429
Robert W. Hoffman, DO
39. The Eye in Systemic Lupus Erythematosus, 440
Alastair K.O. Denniston, MRCP, MRCOphth and Philip I. Murray, PhD, FRCOphth
40. Pregnancy, 449
Megan E.B. Clowse, MD, MPH and Michelle Petri, MD, MPH
41. Fertility in Systemic Lupus Erythematosus, 460
Michael D. Lockshin, MD
42. Neonatal Lupus: Clinical Perspectives, 466
Anca D. Askanase, MD, MPH and Jill P. Buyon, MD
43. Incomplete Lupus Erythematosus, 473
Tom J.G. Swaak, MD and Johannes C. Nossent, MD

V. Treatment of the Disease

44. Nonsteroidal Treatment of Systemic Lupus Erythematosus, 483
Robert G. Lahita, MD, PhD
45. Systemic Steroids, 487
Mustafa Al-Maini, MD and Murray Urowitz, MD
46. Cytotoxic Drug Treatment, 498
Eva D. Papadimitraki, MD and Dimitrios T. Boumpas, MD, FACP
47. Treatment of Antiphospholipid Syndrome, 511
Munther A. Khamashta, MD, FRCP, PhD
48. New Treatments in Systemic Lupus Erythematosus, 516
Vasileios C. Kyttaris, MD and George C. Tsokos, MD