

- 
- Clinically oriented
 - Injury and illness prevention
 - Workplace ergonomics

CURRENT

OCCUPATIONAL & ENVIRONMENTAL MEDICINE

Joseph LaDou

third
edition

Contents

Authors	viii
Preface	xi
SECTION I. OCCUPATIONAL HEALTH	1
1. The Practice of Occupational Medicine	1
<i>Joseph LaDou, MS, MD</i>	
2. The Occupational Medical History	7
<i>James E. Cone, MD, MPH, & Joseph LaDou, MS, MD</i>	
3. Workers' Compensation	13
<i>Joseph LaDou, MS, MD</i>	
4. Disability Prevention & Management	21
<i>Gideon Letz, MD, MPH, Jennifer H. Christian, MD, MPH, & Susan N. Tierman, MD</i>	
5. Liability Issues in Occupational Medicine	36
<i>Dan J. Tennenhouse, MD, JD, FCLM</i>	
SECTION II. OCCUPATIONAL INJURIES	43
6. Musculoskeletal Injuries	43
<i>Franklin T. Hoaglund, MD</i>	
7. Peripheral Nerve Injuries	69
<i>Yuen T. So, MD, PhD</i>	
8. Eye Injuries	75
<i>Allan J. Flach, PharmD, MD</i>	
9. Facial Injuries	92
<i>Kelvin C. Lee, MD, & Andrew H. Murr, MD, FACS</i>	
10. Hearing Loss	104
<i>David N. Schindler, MD, Robert K. Jackler, MD, & Scott T. Robinson, MPH, CIH, CSP</i>	
11. Injuries Caused by Physical Hazards	122
<i>Richard Cohen, MD, MPH</i>	
12. Ergonomics & the Prevention of Occupational Injuries	153
<i>David M. Rempel, MD, MPH, & Ira L. Janowitz, PT, CPE</i>	

SECTION III. OCCUPATIONAL ILLNESSES	179
13. Clinical Toxicology	179
<i>Jon Rosenberg, MD, & Leslie M. Israel, DO, MPH</i>	
14. Clinical Immunology	188
<i>Jeffrey L. Kishiyama, MD</i>	
15. Occupational Hematology	212
<i>Willis H. Navarro, MD, & Hope S. Rugo, MD</i>	
16. Occupational Cancer	229
<i>Hope S. Rugo, MD</i>	
17. Occupational Infections	268
<i>Richard Cohen, MD, MPH, & Pedro Luis Estacio, PhD, MD, MPH</i>	
18. Occupational Skin Disorders	287
<i>Mahbub M.U. Chowdhury, MBChB, MRCP(UK), & Howard I. Maibach, MD</i>	
19. Upper Respiratory Tract Disorders	307
<i>Dennis Shusterman, MD, MPH</i>	
20. Occupational Lung Diseases	320
<i>John R. Balmes, MD</i>	
21. Cardiovascular Toxicology	345
<i>Neal L. Benowitz, MD</i>	
22. Liver Toxicology	357
<i>Robert J. Harrison, MD, MPH</i>	
23. Renal Toxicology	375
<i>Rudolph A. Rodriguez, MD</i>	
24. Neurotoxicology	386
<i>Yuen T. So, MD, PhD</i>	
25. Female Reproductive Toxicology	397
<i>Gayle C. Windham, MSPH, PhD & Ana Maria Osorio, MD, MPH</i>	
26. Male Reproductive Toxicology	414
<i>Ana Maria Osorio, MD, MPH, & Gayle C. Windham, MSPH, PhD</i>	
SECTION IV. OCCUPATIONAL EXPOSURES	429
27. Metals	429
<i>Richard Lewis, MD, MPH</i>	
28. Chemicals	460
<i>Robert J. Harrison, MD, MPH</i>	

29. Solvents	503
<i>Jon Rosenberg, MD, James E. Cone, MD, MPH, & Elizabeth A. Katz, MPH, CIH</i>	
30. Gases & Other Inhalants	537
<i>Ware G. Kuschner, MD & Paul D. Blanc, MD, MSPH</i>	
31. Pesticides	554
<i>Michael O'Malley, MD</i>	
SECTION V. PROGRAM MANAGEMENT	603
32. Occupational Stress	603
<i>James P. Seward, MD, MPP</i>	
33. Substance Abuse & Employee Assistance Programs	619
<i>Kevin Olden, MD</i>	
34. Occupational Safety	627
<i>Franklyn G. Prieskop, MS, MA, CSP</i>	
35. Industrial Hygiene	638
<i>Douglas P. Fowler, PhD, CIH</i>	
36. Biological Monitoring	655
<i>Raymond K. Meister, MD, MPH</i>	
SECTION VI. ENVIRONMENTAL HEALTH	667
37. Environmental Exposures & Controls	667
<i>Gina Solomon, MD, MPH, Joseph LaDou, MS, MD, & Richard J. Jackson, MD, MPH</i>	
38. Routine Industrial Emissions, Accidental & Intentional Releases, & Hazardous Waste	683
<i>Rupali Das, MD, MPH, Melanie Marty, PhD, & Marilyn Underwood, PhD</i>	
39. Outdoor Air Pollution	727
<i>John R. Balmes, MD</i>	
40. Smoking & Occupational Health	735
<i>Neal L. Benowitz, MD</i>	
41. Building-Associated Illness	744
<i>Michael L. Fischman, MD, MPH</i>	
42. Water Pollution	757
<i>Daniel T. Teitelbaum, MD</i>	
43. Multiple Chemical Sensitivity	778
<i>Robert J. Harrison MD, MPH</i>	
44. Disease Surveillance Systems	785
<i>Ana Maria Osorio, MD, MPH, & Peggy Reynolds, PhD, MPH</i>	

vi / CONTENTS

45. Health Risk Assessment	803
<i>Michael J. DiBartolomeis, PhD, DABT</i>	
Appendix: Biostatistics & Epidemiology	803
<i>Marc B. Schenker, MD, MPH</i>	
Index	841