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| Autore | Robbins, Stanley L. |
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p>Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism; Contents; Section I. Molecular Cellular and Genetic Determinants of Bone Structure and Formation; 1. Skeletal Morphogenesis and Embryonic Development; 2. Signal Transduction Cascades Controlling Osteoblast Differentiation; 3. Osteoclast Biology and Bone Resorption; 4. Osteocytes; 5. Connective Tissue Pathways That Regulate Growth Factors; 6. The Composition of Bone; 7. Assessment of Bone Mass and Microarchitecture in Rodents; 8. Animal Models: Genetic Manipulation; 9. Animal Models: Allelic Determinants for BMD</p> <p>10. Neuronal Regulation of Bone Remodeling11. Skeletal Healing; 12. Biomechanics of Fracture Healing; Section II. Skeletal Physiology; 13. Fetal and Neonatal Bone Development; 14. Skeletal Development in Childhood and Adolescence; 15. Ethnic Differences in Bone Acquisition; 16. Calcium and Other Nutrients During Growth; 17. Growing a Healthy Skeleton: The Importance of Mechanical Loading; 18. Pregnancy and Lactation; 19. Menopause; 20. Age-Related Bone Loss; Section III. Mineral Homeostasis; 21. Regulation of Calcium and Magnesium; 22. Fetal Calcium Metabolism; 23. Fibroblast Growth Factor-23</p> <p>24. Gonadal Steroids25. Parathyroid Hormone; 26. Parathyroid Hormone-Related Protein; 27. Ca²⁺-Sensing Receptor; 28. Vitamin D: Production, Metabolism, Mechanism of Action, and Clinical Requirements; Section IV. Investigation of Metabolic Bone Diseases; 29. DXA in Adults and Children; 30. Quantitative Computed Tomography in Children and Adults; 31. Magnetic Resonance Imaging of Bone; 32. Radionuclide Scintigraphy in Metabolic Bone Disease; 33. Assessment of Fracture Risk; 34. Biochemical Markers of Bone Turnover in Osteoporosis; 35. Bone Biopsy and Histomorphometry in Clinical Practice</p> <p>36. Vertebral Fracture Assessment37. Molecular Diagnosis of Bone and Mineral Disorders; Section V. Osteoporosis; 38. Epidemiology of Osteoporotic Fractures; 39. Overview of Pathogenesis; 40. Nutrition and Osteoporosis; 41. Role of Sex Steroids in the Pathogenesis of Osteoporosis; 42. Genetics of Osteoporosis; 43. Overview of Osteoporosis Treatment; 44. Prevention of Falls; 45. Orthopedic Surgical Principles of Fracture Management; 46. Exercise and the Prevention of Osteoporosis; 47. Calcium and Vitamin D; 48. Estrogens and SERMS; 49. Bisphosphonates for Postmenopausal Osteoporosis</p> <p>50. Strontium Ranelate in the Prevention of Osteoporotic Fractures51. Parathyroid Hormone Treatment for Osteoporosis; 52. Calcitonin; 53. Combination Anabolic and Antiresorptive Therapy for Osteoporosis; 54. Compliance and Persistence With Osteoporosis Medications; 55. Cost-Effectiveness of Osteoporosis Treatment; 56. Future Therapies for Osteoporosis; 57. Juvenile Osteoporosis; 58. Glucocorticoid-Induced Osteoporosis; 59. Inflammation-Induced Bone Loss in the Rheumatic Diseases; 60. Osteoporosis: Other Secondary Causes; 61. Transplantation Osteoporosis; 62. Osteoporosis in Men</p> <p>63. Premenopausal Osteoporosis</p>
Sommario/riassunto	<p>EDITOR-IN-CHIEF:Clifford J. Rosen, M.D., Maine Medical Center Research Institute, Scarborough, Maine SENIOR ASSOCIATE EDITORS: Juliet E. Compston, M.D., FRCP, University of Cambridge School of</p>

Clinical Medicine, Cambridge, United Kingdom Jane B. Lian, Ph.D.,
University of Massachusetts Medical School, Worcester, Massachusetts
This comprehensive yet concise handbook is an indispensable
reference for the many clinicians who see patients with disorders of
bone formation, metabolic bone diseases, or disorders of stone
formation. It is also a crucial tool for resea
