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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 24. Gonadal Steroids 25. Parathyroid Hormone; 26. Parathyroid Hormone-Related Protein; 27. Ca<sup>2+</sup>-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 36. Vertebral Fracture Assessment 37. 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 50. Strontium Ranelate in the Prevention of Osteoporotic Fractures 51. 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 63. Premenopausal Osteoporosis

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## Sommario/riassunto

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