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Nota di contenuto	Basic Aspects of Osteoblast Function -- Basic Aspects of Osteoclast Differentiation and Function -- Basic Aspects of Osteocyte Function -- Vitamin D and Bone Health: Basic and Clinical Aspects -- Basic Aspects of Bone Mineralization -- Determinants of Peak Bone Mass Acquisition -- Osteoporosis Screening and Diagnosis -- New Imaging Techniques for Bone -- Biochemical Markers of Bone Turnover -- Biomechanics of Bone -- Exercise in the Prevention of Osteoporosis-Related Fractures -- Effects of Estrogens and SERMs on Bone Metabolism: Clinical Aspects -- The Effects of Androgens on Bone Metabolism: Clinical Aspects -- Bisphosphonates: Mechanisms of Action and Role in Osteoporosis Therapy -- Denosumab: Mechanisms and Therapeutic Effects in the Treatment of Osteoporosis -- The Parathyroid Hormone Receptor Type 1 -- PTH and PTHrP Analogs: Treatment of Osteoporosis -- Combination and Sequential Osteoanabolic/Antiresorptive Therapy in Osteoporosis Treatment -- Sclerostin Inhibition in the treatment of Osteoporosis -- Osteoporosis in Men. Glucocorticoid-Induced Osteoporosis -- Transplantation Osteoporosis -- Osteoporosis in Premenopausal Women -- Safety Considerations for Osteoporosis Therapies -- Genetic Determinants and Pharmacogenetics of Osteoporosis and Osteoporotic Fracture.

Sommario/riassunto

Completely revised and updated, and utilizing the most current evidence and practice guidelines for the treatment of osteoporosis, this comprehensive third edition discusses the basic aspects of bone metabolism, the pathophysiology of osteoporosis, current diagnostic techniques and medical treatment strategies. Osteoporosis is a common disorder that is prevalent in over 20 million Americans over the age of 60. One and a half million osteoporotic fractures occur in the United States every year, including 300,000 hip fractures. Mortality rates after hip fracture approach 25%, with another 50% of patients experiencing a major decrease in their prior level of independence and quality of life. Despite the wide prevalence and severe consequences of osteoporosis, it remains a disorder that is severely under-diagnosed and treated. In this context, specialists and primary care physicians alike are having increasing difficulty keeping up with the rapid changes to the field and incorporating these advances to clinical care. In the years since the last edition of this book was published, the osteoporosis field has changed drastically. In addition to revising and updating existing chapters and removing a few that are no longer as relevant, new chapters discuss an advanced understanding of the cellular and molecular mechanisms underlying the disorder, the introduction of new diagnostic imaging techniques, a more nuanced appreciation of the risks and benefits of osteoporosis therapies, and the introduction of two new classes of osteoporosis medications. Following the format of the second edition, and including helpful key points at the opening of each chapter, this text will present a comprehensive overview of both the basic and clinical concepts relating to each topic, when appropriate. Chapter authors were chosen based on their high level of expertise and leadership in the field. Taken together, this text should thus be of great interest to physicians of multiple specialties, allied health professionals, as well as basic and clinical researchers.