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| Edizione | [4th ed.] |
| Descrizione fisica | 1 online resource (2 volumes (xxv, 2066 pages)) : illustrations (some color) |
| Collana | Gale eBooks |
| Disciplina | 616.7/16 |
| Soggetti | Osteoporosis |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Previous edition: 2008. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | V: 1 -- The bone organ system: form and function -- The nature of osteoporosis -- Reflections on osteoporosis -- Reflections on development of concepts of intercellular communication in bone -- Osteo-odyssey: a memoir -- Development of the skeleton -- The skeletal stem cell -- Osteoclast biology -- Osteoblast biology -- Osteocyte biology -- The regulatory role of matrix protein in mineralization of bone -- Parathyroid hormone and parathyroid hormone-related protein -- Vitamin D: biology, actions, and clinical implications -- Regulation of bone cell function by estrogens -- Androgens and skeletal biology: basic mechanisms -- Phosphatonins -- Skeletal growth factors -- Wnt signaling in skeletal homeostasis and diseases -- The mechanical behavior of bone -- Cellular and molecular mechanotransduction in bone -- Adaptation of skeletal structure to mechanical loading -- Biomechanics of hip and vertebral fractures -- Prevention of osteoporosis by physical signals: defining a potential role for nondrug strategies in the treatment of musculoskeletal injury and disease -- Epidemiologic methods in studies of osteoporosis -- Genetic determinants of osteoporosis -- Race, ethnicity, and osteoporosis -- Geographic variability in hip and vertebral fractures -- Nutrition and risk for osteoporosis -- Physical activity and exercise in the maintenance of the adult skeleton and the prevention of |

osteoporotic fractures -- Premenopausal reproductive and hormonal characteristics and the risk for osteoporosis -- Clinical and epidemiological studies: skeletal changes across menopause -- Osteoporosis in men: epidemiology, pathophysiology, and clinical characterization -- Falls as risk factors for fracture -- Nonskeletal risk factors for osteoporosis and fractures -- Outcomes following osteoporotic fractures -- Skeletal heterogeneity and the purposes of bone remodeling: implications for the understanding of osteoporosis -- On the evolution and contemporary roles of bone remodeling -- Cytokines and the pathogenesis of osteoporosis -- Animal models for osteoporosis -- Bone and fat -- Bone mineral acquisition in utero and during infancy and childhood -- Bone acquisition in adolescence. V: 2 -- Osteoporosis in childhood and adolescence -- Osteoporosis associated with pregnancy -- Osteoporosis in premenopausal women -- Estrogen deficiency, postmenopausal osteoporosis, and age-related bone loss -- Immobilization osteoporosis -- Osteoporosis associated with illnesses and medications -- Glucocorticoid-induced osteoporosis -- Anticonvulsant-related bone disease -- Thyroid hormone and the skeleton -- The skeletal actions of parathyroid hormone in primary hyperparathyroidism and in osteoporosis -- Osteogenesis imperfecta and other defects of bone development as occasional causes of adult osteoporosis -- HIV and osteoporosis -- Obesity, diabetes, and fractures -- Osteoporosis in organ transplant patients -- Osteoporosis associated with rheumatologic disorders -- Osteoporosis associated with chronic kidney disease -- Oral bone loss and systemic osteoporosis: weighing the risk benefit ratio of treatment -- Cancer treatment-induced bone loss in patients with breast cancer: pathophysiology and clinical perspectives -- Pathophysiology-prostate cancer -- Mechanisms of bone destruction in myeloma -- Evaluation of the patient at risk for osteoporosis -- Imaging of osteoporosis -- Osteoporosis: who should be treated? Who should be screened? -- Clinical use of bone densitometry -- Biochemical markers of bone turnover in osteoporosis -- Fracture risk assessment: the development and application of FRAX® -- Orthopedic aspects of osteoporosis -- Falls prevention interventions -- Physical therapy, physical modalities, and exercise regimens in the management of osteoporosis -- Calcium in the treatment of osteoporosis -- Vitamin D and its metabolites and analogs in the management of osteoporosis -- Alternative therapy through nutrients and nutraceuticals -- Design considerations for clinical investigations of osteoporosis -- Lessons from bone histomorphometry on the mechanisms of action of osteoporosis drugs -- Estrogen and estrogen analogs for prevention and treatment of osteoporosis -- Androgens -- Calcitonin in osteoporosis -- Bisphosphonates: pharmacology and use in the treatment of osteoporosis -- Osteonecrosis of the jaw and atypical femoral fractures -- Condition critical: compliance and persistence with osteoporosis medications -- Denosumab for the treatment of osteoporosis -- Strontium ranelate in the prevention of osteoporotic fractures -- Parathyroid hormone treatment for osteoporosis -- New approaches to osteoporosis therapeutics -- The past, present, and uncertain future of therapeutic innovation in osteoporosis.

Sommario/riassunto

Covers everything from basic anatomy and physiology to diagnosis, management and treatment in which direct care costs for osteoporotic fractures in the United States reach up to \$18 billion each year, continuing to make osteoporosis a critical challenge in medicine.
