



# Glucocorticoidinduced Osteoporosis

**Bone and Tooth Society**



## **Glucocorticoid-induced Osteoporosis:**

**Glucocorticoid-induced Osteoporosis** Andrea Giustina, Alberto Angeli, Ernesto Canalis, 2002 Osteoporosis is one of the most clinically relevant disabling chronic disease encountered in clinical practice A common cause of osteoporosis is glucocorticoid excess as glucocorticoids may increase bone resorption inhibit bone formation have indirect actions on bone by decreasing intestinal calcium absorption and induce hypercalciuria This book presents a comprehensive overview of the effects of glucocorticoids on bone metabolism and structure and on the diagnosis and treatment of glucocorticoid induced osteoporosis It aims at providing updated information on the pathogenesis diagnosis and treatment of this often dramatic complication of glucocorticoid excess Being one of the few publications completely devoted to glucocorticoid induced osteoporosis it will heighten the awareness of specialists who prescribe glucocorticoids of the clinical relevance of this treatment complication Glucocorticoid Induced Osteoporosis is addressed to clinical experts as well as to general practitioners who will both benefit from the comprehensive and integrative view of the management of patients exposed to glucocorticoids

**Glucocorticoid-induced Osteoporosis** Bone and Tooth Society, 2002

**Glucocorticoid Induced Osteoporosis and Mechanisms of Intervention** Amy Yoshiko Sato, 2017 Glucocorticoid excess is a leading cause of osteoporosis The loss of bone mass and strength corresponds to the increase in fractures exhibited after three months of glucocorticoid therapy Glucocorticoids induce the bone cellular responses of decreased bone formation increased osteoblast osteocyte apoptosis and transient increased bone resorption which result in rapid bone loss and degradation of bone microarchitecture The current standard of care for osteoporosis is bisphosphonate treatment however these agents further suppress bone formation and increase osteonecrosis and low energy atypical fracture risks Thus there is an unmet need for interventions that protect from glucocorticoid therapy The purpose of these studies was to investigate novel mechanisms that potentially interfere with glucocorticoid induced bone loss We chose to explore pathways that regulate endoplasmic reticulum stress the canonical Wnt pathway and Pyk2 activity Pharmacologic reduction of endoplasmic reticulum stress through salubrinal administration protected against glucocorticoid induced bone loss by preservation of bone formation and osteoblast osteocyte viability In contrast inhibition of Wnt antagonist Sost sclerostin and inhibition of Pyk2 signaling did not prevent glucocorticoid induced reductions in bone formation however both Sost sclerostin and Pyk2 deficiency protected against bone loss through inhibition of increases in resorption Overall these studies demonstrate the significant contributions of reductions in bone formation increased osteoblast osteocyte apoptosis and elevations in resorption to the rapid 6-12% bone loss exhibited during the first year of glucocorticoid therapy However glucocorticoid excess also induces skeletal muscle weakness which is not reversed by bisphosphonate treatment or the interventions reported here of salubrinal Sost sclerostin inhibition or Pyk2 deficiency Further the novel finding of increased E3 ubiquitin ligase atrophy signaling induced by glucocorticoids in both bone and muscle by tissue specific upstream mechanisms provides opportunities for therapeutic

combination strategies Thus future studies are warranted to investigate the role of E3 ubiquitin ligase signaling in the deleterious glucocorticoid effects of bone and muscle      *Glucocorticoid-induced Osteoporosis* Bone and Tooth Society, Royal College of Physicians of London, National Osteoporosis Society (Great Britain), 2002      Glucocorticoid-induced osteoporosis John Keegan, University of Brighton. Medical school, 2008      **Glucocorticoid and bone: friend or foe?** Elizabeth Martha Winter, Barbara Hauser, Ulrike Baschant, 2022-09-20      **Glucocorticoid-induced Osteoporosis** John Anthony Kanis, National Co-ordinating Centre for HTA (Great Britain), National Health Service. Research and Development Health Technology Assessment Programme, NHS R & D HTA Programme (Great Britain), National Coordinating Centre for Health Technology Assessment, 2007      **Osteoporosis in Men** Eric S. Orwoll, John P. Bilezikian, Dirk Vanderschueren, 2009-11-30

Since the publication of the first edition the U S Surgeon General released the first ever report on bone health and osteoporosis in October 2004 This report focuses even more attention on the devastating impact osteoporosis has on millions of lives According to the National Osteoporosis Foundation 2 million American men have osteoporosis and another 12 million are at risk for this disease Yet despite the large number of men affected the lack of awareness by doctors and their patients puts men at a higher risk that the condition may go undiagnosed and untreated It is estimated that one fifth to one third of all hip fractures occur in men This second edition brings on board John Bilezikian and Dirk Vanderschueren as editors with Eric Orwoll The table of contents is more than doubling with 58 planned chapters The format is larger 8 5 x 11 This edition of *Osteoporosis in Men* brings together even more eminent investigators and clinicians to interpret developments in this growing field and describe state of the art research as well as practical approaches to diagnosis prevention and therapy Brings together more eminent investigators and clinicians to interpret developments in this growing field Describes state of the art research as well as practical approaches to diagnosis prevention and therapy There is no book on the market that covers osteoporosis in men as comprehensively as this book      **Updates on Osteoporosis, An Issue of Endocrinology and Metabolism Clinics of North America, E-Book** Updates on Osteoporosis, An Issue of Endocrinology and Metabolism Clinics of North America, E-Book Pauline M. Camacho, 2021-05-31 In this issue of Endocrinology and Metabolism Clinics Guest Editor Pauline Camacho brings her considerable expertise to the topic of Osteoporosis Provides concise and comprehensive coverage of the issues physicians face every day Presents the latest information on a timely focused topic under the leadership of experienced editors in the field      **Osteoporosis, Two-Volume Set** Robert Marcus, David Feldman, Jennifer Kelsey, 2001-09-20 Osteoporosis is the most comprehensive authoritative reference on this disease Some of the topics covered include basic biology anatomy physiology pathophysiology preclinical issues experimental medicine management and therapeutics Written by renowned experts in this field this book is a must have for the researcher the academic clinician or anyone in the field of bone biology Key Features The source on osteoporosis Written by expert investigators in their respective fields Each chapter provides timely comprehensive and scholarly discussion Fully illustrated

in color and black white Covers everything from basic anatomy and physiology to diagnosis management and treatment

**Recent Advances in Glucocorticoid Receptor Action** A. Cato,H. Schaecke,K. Asadullah,2013-04-17 The long term use of glucocorticoids is associated with several deleterious effects Attempts to separate the beneficial from the adverse effects of these compounds have met with varying degrees of difficulty The discovery of distinct modes of action of the glucocorticoid receptor the protein that mediates glucocorticoid action has opened up many possibilities for improving glucocorticoid therapy This book provides an in depth overview of the molecular actions of the glucocorticoid receptor and discusses the chances of an imminent identification of selective glucocorticoid agonists Such compounds should fulfill all the criteria of a glucocorticoid but should lack the sideeffects so far linked with classical glucocorticoids The Pathogenesis and Treatment of Glucocorticoid-induced Osteoporosis Ian R. Reid,1988 Osteoporosis, An Issue of Rheumatic Disease Clinics Stuart L. Silverman,2011-08-28 This timely and evocative issue of Rheumatic Disease Clinics explores important current and controversial topics in the treatment of osteoporosis And it answers some tough questions Here are some examples How long do I treat my patient Is there a place for bone turnover markers How much Vitamin D should I recommend Controversies around calcium and Vitamin D are explored regarding the coronary risk and pancreatic issues Emerging therapies are presented including sclerostin and oral calcitonin Long term safety concerns of antiresorptive therapy ONJ atypical fracture wound healing are explained The utility and limitations of FRAX are covered as well as Prolia and the RANKL pathway An update on glucocorticoid induced OP is given The reader is also brought up to date on men's health issues and OP This is an essential issue for any practicing rheumatologist to stay current in the field

**Glucocorticoids** Xiaoxiao Qian,2012-11-28 As one class of the most important steroid hormones glucocorticoids have long been recognised and their therapeutic benefits have been widely used in clinical treatment especially in anti inflammation cases Glucocorticoids regulate various processes in the body including the mobilization of energy stores immune functions gene expression and maintenance of the homeostasis as well as the stress response this is not surprising that the concept of glucocorticoids is mentioned in almost all medical text books that focus on specific organs or systems such as the cardiovascular system the immune system and the neuroendocrine system The book of Glucocorticoids New Recognition of Our Familiar Friend aims to introduce the latest findings relating to glucocorticoids either freshly from the laboratory or from clinical case studies and to open up a new angle of looking at the issue of balancing the therapeutic benefits and side effects brought up by glucocorticoids The Effects of Bisphosphonates on the Development of Glucocorticoid-induced Osteoporosis in a Mouse Model of Duchenne Muscular Dystrophy Sung-Hee Seanna Yoon,2015

*Glucocorticoid-Induced Osteoporosis Management Among Seniors* Michael Jordan Albaun,2014 *Marcus and Feldman's Osteoporosis* David W. Dempster,Jane A. Cauley,Mary L. Bouxsein,Felicia Cosman,2020-10-08 Marcus and Feldman's Osteoporosis Fifth Edition is the most comprehensive authoritative reference on this disease Led by a new

editorial team this fifth edition offers critical information on reproductive and hormonal risk factors new therapeutics ethnicity nutrition therapeutics management and economics comprising a tremendous wealth of knowledge in a single source not found elsewhere Written by renowned experts in the field this two volume reference is a must have for biomedical researchers research clinicians fellows academic and medical libraries and any company involved in osteoporosis drug research and development Summarizes the latest research in bone biology and translational applications in a range of new therapeutic agents including essential updates on therapeutic uses of calcium vitamin D SERMS bisphosphonates parathyroid hormone and new therapeutic agents Recognizes the critical importance of new signaling pathways for bone health including Wnt OPG and RANK of interest to both researchers who study bone biology and clinicians who treat osteoporosis Offers new insights into osteoporosis associated with menopause pre menopause chronic kidney disease diabetes HIV and other immune disorders     Meyler's Side Effects of Endocrine and Metabolic Drugs Jeffrey K.

Aronson,2009-02-21 Elsevier now offers a series of derivative works based on the acclaimed Meylers Side Effect of Drugs 15th Edition These individual volumes are grouped by specialty to benefit the practicing physician or health care clinician Endocrine and metabolic diseases are common includes diseases such as diabetes thyroid disease and obesity Endocrinologists including diabetes professionals internal medicine and primary care practitioners obstetricians and gynecologists and others will find this book useful when treating endocrine or metabolic diseases The material is drawn from the 15th edition of the internationally renowned encyclopedia Meyler s Side Effects of Drugs and the latest volumes in the companion series Side Effects of Drugs Annuals Drug names have usually been designated by their recommended or proposed International Non proprietary Names rINN or pINN when those are not available clinical names have been used In some cases brand names have been used This volume is critical for any health professional involved in the administration of endocrine and metabolics mediations Surpasses the Physician s Desk Reference by including clinical case studies and independent expert analysis Complete index of drug names Most complete cross referencing of drug drug interactions available Extensive references to primary and secondary literature Also includes information on adverse effects in pregnancy The book is divided into eight sections Corticosteroids and related drugs Prostaglandins Sex hormones and related drugs Iodine and drugs that affect thyroid function Insulin and other hypoglycemic drugs Other hormones and related drugs Lipid regulated drugs Endocrine and metabolic adverse effects of non hormonal and non metabolic drugs     *The Role of Nuclear*

*Regulatory Proteins in Glucocorticoid Induced Osteoporosis* May Cleary,2004     **Evidence-based Gastroenterology and Hepatology** John W. D. McDonald,Brian G. Feagan,Rajiv Jalan,Peter J. Kahrilas,2019-02-13 The revised fourth edition of Evidence Based Gastroenterology and Hepatology continues to provide the most current evidence based information for determining the appropriate medical and surgical options for screening for diagnosing and treating gastrointestinal conditions With contributions from an international team of leading experts in the field the 4th edition includes practical

recommendations for the care of individual patients based on the latest scientific evidence

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