



Review

# Mineral Metabolism in Children: Interrelation between Vitamin D and FGF23

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**Abstract:** Fibroblast growth factor 23 (FGF23) was identified at the turn of the century as the long-sought circulating phosphatonin in human pathology. Since then, several clinical and experimental studies have investigated the metabolism of FGF23 and revealed its relevant pathogenic role in various diseases. Most of these studies have been performed in adult individuals. However, the mineral metabolism of the child is, to a large extent, different from that of the adult because, in addition to bone remodeling, the child undergoes a specific process of endochondral ossification responsible for adequate mineralization of long bones' metaphysis and growth in height. Vitamin D metabolism is known to be deeply involved in these processes. FGF23 might have an influence on bones' growth as well as on the high and age-dependent serum phosphate concentrations found in infancy and childhood. However, the interaction between FGF23 and vitamin D in children is largely unknown. Thus, this review focuses on the following aspects of FGF23 metabolism in the pediatric age: circulating concentrations' reference values, as well as those of other major variables involved in mineral homeostasis, and the relationship with vitamin D metabolism in the neonatal period, in vitamin D deficiency, in chronic kidney disease (CKD) and in hypophosphatemic disorders.

**Keywords:** fibroblast growth factor 23 (FGF23); vitamin D; children; rickets



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## 1. Major Regulatory Hormones of Mineral Metabolism

The mineral metabolism is essential for the homeostasis of calcium and phosphorus and to maintain healthy bones. The main regulatory hormones of the mineral metabolism are the parathyroid hormone (PTH), 1,25-dihydroxyvitamin D (1,25(OH)<sub>2</sub>D) and fibroblast growth factor 23 (FGF23), which interact in a complex, multi-tissue feedback system, graphically represented in Figure 1 [1].

PTH is synthesized by the parathyroid glands as a pre-pro-PTH of 115 amino acids. After intracellular processing, intact PTH (84 amino acids) is secreted, stored, or degraded intracellularly. Circulating calcium is the primary acute physiologic regulator of PTH secretion, which is stimulated by a decrease of calcemia, low 1,25(OH)<sub>2</sub>D levels and phosphate retention, whereas FGF23 has been shown to inhibit PTH secretion in animal and in vitro experiments [1].

In humans, vitamin D is mostly endogenously produced through the exposure of skin to sunlight whereas 10% or less, unless oral supplements are used, is absorbed in the gastrointestinal tract from a few natural foods such as fatty fish, cod liver oil, egg yolks, or some mushrooms and yeasts. Cholecalciferol produced in the skin is metabolized to 25-hydroxyvitamin D (25OHD) in the liver by a cytochrome P450 enzyme or vitamin D 25-hydroxylase. The biologically active hormone is 1,25(OH)<sub>2</sub>D or calcitriol, which is synthesized in the kidney from 25OHD by a cytochrome P450 enzyme or 1 $\alpha$ -hydroxylase.

# Mineral Metabolism In Paediatrics

**Daniel Green, Hamish Wallace**



## **Mineral Metabolism In Paediatrics:**

Mineral Metabolism in Paediatrics: [proceedings of a Symposium Held at Greenford in 1968] Donald Barltrop, William Lionel Burland, 1969      **Mineral Metabolism in Paediatrics** Donald Barltrop, W. L. Burland, 1969      *Sperling Pediatric Endocrinology E-Book* Mark A. Sperling, 2020-07-22 An ideal resource for both pediatricians and endocrinologists Sperling's Pediatric Endocrinology 5th Edition brings you fully up to date with accelerating research new discoveries in metabolic biochemical and molecular mechanisms and the resulting advances in today's clinical care The editorial team of world renowned pediatric endocrinologists led by Dr Mark Sperling as well as expert contributing authors cover comprehensive and current aspects of both basic science and clinical practice Whether you're preparing for certification or have extensive clinical experience this detailed authoritative reference helps you increase your knowledge and determine the best possible course for every patient Delivers trusted guidance in every area of the field including Endocrine Disorders of the Newborn Endocrine Disorders of Childhood and Adolescence and Laboratory Tests Features new topics such as transgender issues in children and adolescents and endocrinology of pregnancy the fetus and the placenta Offers expert coverage of hot topics such as disorders of sexual development molecular basis of endocrine disorders hypoglycemia in newborns and infants neonatal and other monogenic forms of diabetes Type I and Type II diabetes and their treatment with new insulins together with the progress in an artificial pancreas and new medications for T2DM in adolescents the obesity epidemic and role of bariatric surgery and advances toward personalized medicine Includes easy to follow algorithms and numerous quick reference tables and boxes in every clinical chapter plus interactive questions online for self assessment Offers state of the art information and fresh perspectives from new and award winning authors in such areas as disorders of growth multiple endocrine tumors and puberty and its disorders in girls and boys      **SYMPOSIUM ON MINERAL METABOLISM IN PAEDIATRICS, GREENFORD, UK, 1968** GLAXO LABORATORIES, LTD., 1969      **Handbook of Chronic Kidney Disease Management** John T. Daugirdas, 2012-02-20 The Handbook of Chronic Kidney Disease Management focuses on practical aspects of managing patients with mild to moderate Chronic Kidney Disease CKD incorporating the expertise of cardiologists endocrinologists general internists and nephrologists Chapters include case vignettes and management algorithms and treatment recommendations reconcile recently published clinical guidelines from NKF AHA NCEP and ADA In addition treatment recommendations in this handbook take into account the realities of reimbursements in the U S      *Pediatric Bone* Francis H. Glorieux, John M. Pettifor, 2011-08-22 The second edition of this classic reference deals exclusively with the biology and diseases of bone as they affect children Rapid advances have been made in our understanding of the mechanisms and factors controlling the growth and development of bone and these are discussed in detail in this book Further the various diseases of bone that are peculiar to children are highlighted and discussed in the light of our current knowledge with regard to causation clinical signs and treatment The book is aimed to provide those clinicians interested in children's diseases and

basic scientists with a comprehensive resource covering the various aspects of bone health and disease in children Deals exclusively with bone development and diseases of children and each chapter is written by an expert in the field Fully referenced providing an appendix of usually difficult to find information on the investigation of pediatric bone disease and reference values Covers both the physiology of bone and mineral homeostasis in children and diseases in one book

Handbook of Chronic Kidney Disease Management John Daugirdas,2018-07-19 Publisher s Note Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality authenticity or access to any online entitlements included with the product Offering authoritative coverage of all aspects of diagnosing treating and preventing the progression of chronic kidney disease CKD this highly regarded handbook is an invaluable resource for nephrologists internists nurse practitioners physician assistants and other healthcare professionals who care for early stage CKD patients Incorporating the considerable advances in the field since the previous edition Handbook of Chronic Kidney Disease Management 2nd Edition provides a truly global perspective on managing patients with mild to moderate CKD **Phosphate in Paediatric Health and Disease** U. Alon,2018-05-04 Phosphate in Pediatric Health and Disease provides a state of the art overview of normal physiology pathophysiology genetics clinical and therapeutic aspects of different types of phosphate homeostasis in early life The book reviews the developmental physiology of phosphate metabolism from the fetus to the adolescent It describes the pathophysiologic mechanisms associated with perturbations in phosphate homeostasis as well as discusses the different clinical conditions related to abnormal mineral metabolism parathyroid hormone and vitamin D in infancy childhood and adolescence and the modern diagnostic and therapeutic modalities This book will benefit pediatricians endocrinologists neurologists nutritionists and researchers in the field of mineral metabolism **Textbook of Pediatric Rheumatology** Ross E. Petty,Ronald M. Laxer,Carol B Lindsley,Lucy Wedderburn,2015-04-14 Matchless in reputation content and usefulness Textbook of Pediatric Rheumatology 7th Edition is a must have for any physician caring for children with rheumatic diseases It provides an up to date global perspective on every aspect of pediatric rheumatology reflecting the changes in diagnosis monitoring and management that recent advances have made possible all enhanced by a full color design that facilitates a thorough understanding of the science that underlies rheumatic disease Get an authoritative balanced view of the field with a comprehensive and coherent review of both basic science and clinical practice Apply the knowledge and experience of a who s who of international experts in the field Examine the full spectrum of rheumatologic diseases and non rheumatologic musculoskeletal disorders in children and adolescents including the presentation differential diagnosis course management and prognosis of every major condition Diagnose and treat effectively through exhaustive reviews of the complex symptoms and signs and lab abnormalities that characterize these clinical disorders Keep current with the latest information on small molecule treatment biologics biomarkers epigenetics biosimilars and cell based therapies Increase your knowledge with three all new chapters on laboratory investigations CNS vasculitis and other vasculitides Understand the evolving

globalization of pediatric rheumatology especially as it is reflected in the diagnosis and management of childhood rheumatic diseases in the southern hemisphere Choose treatment protocols based on the best scientific evidence available today

*Avery's Neonatology* Mhairi G. MacDonald, Mary M. K. Seshia, Martha D. Mullett, 2005 Revised and updated by a new editorial team the Sixth Edition of this text will remain the leading reference on the clinical care of the newborn It provides complete authoritative information on the biology of the newborn and the pathophysiology and management of diseases during the neonatal period This edition has five new chapters on the role of telemedicine in neonatology the impact of labor and delivery on the fetus fetal determinants of adult disease breast feeding and control of breathing and apnea Also included is a full color insert illustrating key signs and symptoms selected imaging techniques and dermatologic conditions

*Pediatric Endocrinology* Mark A. Sperling, 2008-06-05 Completely updated the new edition of this easy to reference text examines the physiological biochemical and genetic aspects of pediatric endocrine disorders Leaders in the field discuss the hottest topics including genetics diabetes and obesity impacting today s endocrine practice keeping you up to date A user friendly organization speeds you to the information you need and conceptual illustrations and photographs depict the latest advances with consistency and clarity It s the guidance you need to provide effective state of the art care for your pediatric and neonatal patients Examines the physiological biochemical and genetic aspects of endocrine disorders all in one convenient reference Incorporates the importance of molecular biology as it relates to developmental and pediatric endocrinology Offers expanded coverage of genetics diabetes and obesity topics of increasing concern in pediatric endocrinology today Presents the work of many new contributors for fresh perspectives on the current state of pediatric endocrinology Provides new tables of normal values and growth charts for monitoring your patients progress Concepts Endocrine Disorders of the Newborn Endocrine Disorders of Childhood and Adolescence and Laboratory Tests and Imaging making the material easy to navigate

**Textbook of Pediatric Rheumatology E-Book** James T. Cassidy, Ross E Petty, Ronald M. Laxer, Carol B Lindsley, 2010-10-15 Textbook of Pediatric Rheumatology examines the full spectrum of rheumatologic diseases and non rheumatologic musculoskeletal disorders in children and adolescents detailing the presentation differential diagnosis course management and prognosis of every major condition Drs James T Cassidy Ross E Petty Ronald M Laxer and Carol B Lindsley discuss recent developments in diagnosis treatment genetics immunology imaging and more Diagnose and treat effectively through exhaustive reviews of the complex symptoms and signs and lab abnormalities that characterize these clinical disorders Choose treatment protocols based on the best scientific evidence available today Apply the knowledge and experience of the leading experts in the field Keep current with coverage of new topics including macrophage activation syndrome pediatric sarcoidosis uveitis imaging and occupational and physical therapy Tap into detailed discussions of recent advances in the field new research on the immunologic mechanisms of inflammatory disease and new developments on biologic treatments for arthritis in ten new chapters Master complex

concepts and key techniques with a full color design and full color illustrations      **Publications of the Children's Bureau**  
United States. Children's Bureau,1927      Progress in Paediatric Neurosurgery Jesse Howard Muncie,John Louis  
Horsfall,Otto Olson,Pennsylvania State College. Agricultural Experiment Station,R. Bruce Dunlap,Samuel Irvin  
Bechdel,William Frear,William Henry Tomhave,1922      **Pediatric Inflammatory Bowel Disease** Petar Mamula,Jonathan  
E. Markowitz,Robert N. Baldassano,2012-12-14 Pediatric Inflammatory Bowel Disease Second Edition provides an essential  
reference with an emphasis on the unique pediatric issues of IBD Chapters focus on complications of IBD specific to children  
and adolescents Treatment recommendations are based on the latest clinical research available The textbook also presents  
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Office (U.S.),1955 Collection of incunabula and early medical prints in the library of the Surgeon general s office U S Army  
Ser 3 v 10 p 1415 1436      **Yearbook of Pediatric Endocrinology 2011** J. -C. Carel,Z. Hochberg,2011-09-14 The body of  
knowledge in most medical specialties is rapidly expanding making it virtually impossible to follow all advances in clinical  
and basic sciences that are relevant to a given field This is particularly true in pediatric endocrinology at the cross road of  
pediatrics endocrinology development and genetics Providing abstracts of articles that report the year s breakthrough  
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the European Society for Paediatric Endocrinology ESPE its publication is linked to the annual meeting of the ESPE The Yearbook of Pediatric Endocrinology 2011 covers the medical and scientific literature from June 2010 through May 2011

Late Effects of Childhood Cancer Daniel Green, Hamish Wallace, 2004-01-08 The treatment of childhood cancer has become increasingly successful over the last forty years and during the last two decades in particular and the overall cure rate is now 60-70% This in turn has introduced new issues for the clinician as the number of long term survivors has increased Some of the therapies that have contributed most to the **Cumulated Index Medicus**, 1995

**Index-catalogue of the Library of the Surgeon-General's Office, United States Army** National Library of Medicine (U.S.), 1955

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