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Case Based Reviews in Pediatric Endocrinology Vandana Jain 2014-11-30 Presented in case study format, this book is a comprehensive guide to endocrine disorders in children. Divided into seven sections, it covers all major endocrine problems in infants, children and adolescents, including growth, puberty, obesity, metabolic syndrome, type 1 and type 2 diabetes, fluid and electrolyte balance, hypoglycaemia, calcium metabolism, and sexual development disorders. The final section discusses radiological and nuclear imaging. Written by experienced paediatric endocrinologists from Asia, USA, UK and South Africa, each topic features algorithms for evaluation and management, as well as diagrams and tables, to enhance learning. Key points Comprehensive guide to paediatric endocrine disorders Covers all major endocrine problems in infants, children and adolescents Author and editor team from Asia, USA, UK and South Africa Each topic features algorithms for evaluation and management

Pediatric Endocrinology, An Issue of Endocrinology and Metabolism Clinics of North America, E-Book Robert Rapaport 2016-06-11 This issue of Endocrinology and Metabolism Clinics, edited by Dr. Robert Rapaport, is devoted to Pediatric Endocrinology. Articles in this issue include: Thyroid Cancer in Pediatrics; Gender and Sex Assignment; CAH Prenatal Diagnosis; Diabetes; Polycystic Ovarian Disease; Newborn Screening for X-linked ALD; Growth in Patients w/ Skeletal Dysplasia; Thyroid Imaging in Infants; Bariatric Surgery in Youth; Pituitary Imaging in Pediatrics; and Cardiac and Metabolic Features of GH Deficiency.

International Medical Digest 1920

Growth and Development of Children Ernest Hamilton Watson 1951

Skeletal Muscle as a Response Target: the Link Between Growth and Metabolism Michael B. Ranke 2006

Leptin and Leptin Antagonists Prof. Arieh Gertler

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2009-03-06 The discovery of leptin, the obese (ob) gene product which is not expressed as a functional protein in ob/ob mice, focused the scientific community's attention on its role as an anorexic hormone involved in the negative regulation of food intake. Almost 14 years after this breakthrough discovery and over 14,000 leptin-related publications later, leptin is now known to participate in a wide range of biological functions that include, in addition to its early envisaged function as an adipostat, glucose metabolism, glucocorticoid synthesis, CD4+ T-lymphocyte proliferation, cytokine secretion, phagocytosis, hypothalamic-pituitary-adrenal axis regulation, reproduction, cardiovascular pathology, bone formation, apoptosis and angiogenesis. In short, it is now well-documented that leptin acts like a cytokine hormone with many pleiotropic effects. Furthermore, in recent years, it has become more and more apparent that many of leptin's effects are acquired not only through its central action, but also through its systemic action on a peripheral level. This book focuses mainly on the relatively novel aspects of leptin's actions. Leptin's involvement in early postnatal imprinting has led to new insight into developmental programming. This highly novel aspect of leptin's action is reviewed extensively in the final chapter of this book by the Auckland group, Vickers, Krechowec, Gluckman and Breier. In the last five years, it has been shown that at least in rodents, leptin acts as an important neurotrophic factor promoting the early postnatal maturation of neural pathways within the hypothalamus. The authors review experimental evidence, originating largely from their own work, which shows that therapeutic intervention with leptin in the rodents' early postnatal life can potentially reverse or substantially ameliorate the consequences of developmental malprogramming, and that this effect is highly influenced by both gender and postnatal diet.

Metabolism and Growth from Birth to Puberty Francis Gano Benedict 1921

Growth and Development of Children Ernest H. Watson 1962

Nutrition During Infancy Reginald C. Tsang 1988

Abstract: This collection of papers present a scientific view of nutrition during pregnancy. A wide range of topics are addressed by 33 contributors in 24 papers. Topics include: determining the nutritional requirements of normal infants; physiology of lactation; infant feeding practices; nutritional anemia of infancy; nutrient content of infant formulas; and special methods of feeding the preterm infant.

Metabolism and Growth from Birth to Puberty Francis Gano Benedict 1921

Physiological Reviews 1925

Population Sciences 1979

Cytokines, Growth Mediators and Physical Activity in Children during Puberty J. Jürimäe 2010-09-29 Linear growth and sexual maturation are influenced by the actions of the endocrine system as well as by the nutritional status and level of physical activity of an individual. This publication focuses on the latest research regarding different physical growth and energy balance-related mediators in puberty. It summarizes the complex relationship between inflammatory mediators/cytokines, growth factors, body composition, physical fitness and physical activity of children and adolescents. Special emphasis in the book is placed on the role of various recently discovered inflammatory mediators/cytokines in the development of possible

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metabolic risk factors, in bone metabolism and other body composition parameters. Further, the book considers the adaptation to acute and chronic exercise in children during puberty and the development of possible menstrual irregularities.Health professionals, particularly pediatricians, exercise and sport scientists, coaches, researchers and students will find the book an excellent source of up-to-date information written by leading international experts in the field.

Sports Endocrinology Michelle P. Warren 2000-05-01 Since the observation in the 19th century that an extract of the suprarenal bodies injected into the circulation caused a rise in blood pressure, the endocrine system has become a major component in our understanding of human physiology. The introduction of radioimmunoassay techniques and the ability to measure minimal amounts of hor mones (a term derived from the Greek "to excite") have shown that acute exercise causes a release of a large number of hormones and that chronic exercise may further lead to long-term alterations in endocrine homeostasis. Actually, almost every organ and system in the body is affected by physical activity and exercise, much of it through the endocrine and neuroendocrine system. Investigation ofthe effect of acute or chronic physical activity on the endocrine system is a complex matter since the stimulus called "exercise" has many components, such as mode, intensity, duration, and others. In addition, several other factors, such as age, gender, training status, body temperature, circadian rhythm, metabolic state, menstrual cycle, and various external conditions as well as psychological factors, can modify the effect of physical activity on hormonal secretion. Moreover, the physiol9gical stimulus of exercise often provokes several and parallel cascades of biochemical and endocrine changes. It is therefore often extremely difficult to distinguish between primary and secondary events and between cause and effect. These limitations will be discussed in Chapter 1.

Pediatric Endocrinology and Inborn Errors of Metabolism Kyriakie Sarafoglou 2012-09-01 Fast, crystal-clear guidance on managing both pediatric endocrine disorders and inborn errors of metabolism A Doody's Core Title for 2011! New England Journal of Medicine Review! "...an inspiring learning tool....Sarafoglou and colleagues have combined their expertise to create an informative and timely textbook in which the explanations of underlying mechanisms guide the structure of each chapter. It is a unique book that is pleasing to the eye, nurturing for the mind, and instructive for a broad readership."--New England Journal of Medicine 4 STAR DOODY'S REVIEW! "The book covers various pathophysiologic aspects of each endocrine organ and its interaction with other endocrine and nonendocrine systems. Disorders of thyroid and adrenal glands, pituitary, reproductive organs, and endocrine neoplasia are extensively covered. Most large groups of metabolic diseases are reviewed as well. Concise, pertinent information is provided on mitochondrial and fatty-acid oxidation, urea cycle and glycogen storage disorders, as well as organic acidurias and amino acidopathies. The most useful and user-friendly areas are the 1-to-2-page "at-a-glance" sections in each chapter which provide concise yet pertinent information about the disorders within a particular group of endocrine disturbances or IEM. This is a well written book and the multiple visual aids greatly assist in comprehension and memorization of the material...I strongly recommend this book without reservation." -- Doody's In one practical, user-friendly

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tutorial, a team of international contributors delivers the latest information and clinical insights you need to confidently diagnose and manage pediatric patients. This full-color resource guides you through the etiology, pathophysiology, presenting signs and symptoms, diagnostic laboratory examinations, and treatments regimens of each disorder. Features: Full-color presentation with numerous photos, illustrations, diagnostic algorithms, tables, and text boxes that summarize key concepts and assist in the decision-making process At-a-Glance feature beginning each disease-based chapter summarizes all the clinical information you need to differentiate between disorder sub-types in one easy-to-find place All-inclusive coverage encompasses the full spectrum of critical topics Emergency assessment and treatment chapter gives you fast, clear guidance on acute presentations of endocrine and metabolic disorders Chapter on newborn screening walks you through an abnormal screening result to follow-up diagnostic testing Complete and detailed information on all laboratory and radiographic testing used to diagnose disorders in both disciplines

Exploring the Biological Contributions to Human Health Institute of Medicine 2001-07-02 It's obvious why only men develop prostate cancer and why only women get ovarian cancer. But it is not obvious why women are more likely to recover language ability after a stroke than men or why women are more apt to develop autoimmune diseases such as lupus. Sex differences in health throughout the lifespan have been documented. Exploring the Biological Contributions to Human Health begins to snap the pieces of the puzzle into place so that this knowledge can be used to improve health for both sexes. From behavior and cognition to metabolism and response to chemicals and infectious organisms, this book explores the health impact of sex (being male or female, according to reproductive organs and chromosomes) and gender (one's sense of self as male or female in society). Exploring the Biological Contributions to Human Health discusses basic biochemical differences in the cells of males and females and health variability between the sexes from conception throughout life. The book identifies key research needs and opportunities and addresses barriers to research. Exploring the Biological Contributions to Human Health will be important to health policy makers, basic, applied, and clinical researchers, educators, providers, and journalists-while being very accessible to interested lay readers.

Pediatric Neuroendocrinology Sandro Loche 2009-11 The neuroendocrine system plays a pivotal role in the control of growth, puberty, reproduction, and intermediate metabolism. This title presents the research on neuroendocrine physiology, advances in the control of the onset of puberty and its disorders, and basic and clinical aspects of the GH/IGF-1 and hypothalamic-pituitary-adrenal axes.

Growth and Development with Special Reference to Domestic Animals Albert Garland Hogan 1926

Girls at Puberty J. Brooks-Gunn 2013-06-29 The publication of this volume at this time appears particularly auspi cious. Biological, psychological, and social change is greater during the pubertal years than at any other period since infancy. While the past two decades have witnessed a virtual explosion of productive research on the first years of life, until recently research on adolescence, and particularly on puberty and early adolescence, has lagged substantially behind. This book provides encouraging evidence that things are

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changing for the better. Considered separately, the individual chapters in this book include important contributions to our growing knowledge of the biological mechanisms involved in pubertal onset and subsequent changes, as well as of the psychological and social aspects of these changes, both as con sequences and determinants. In this regard, the book clearly benefits from the breadth of disciplines represented by the contributors, includ ing developmental endocrinology, adolescent medicine, pediatrics, psy chology, and sociology, among others.

Classified List of Publications of the Carnegie Institution of Washington Carnegie Institution of Washington 1921

Abnormal Fetal Growth Michael Y. Divon 1991 This volume provides an in-depth discussion of both Macrosomia and IUGR. Special consideration has been given to state-of-the-art developments in this important area of obstetrics. Subjects covered include, early pregnancy screening and sonographic detection of the IUGR foetus.

Rational Therapeutics for Infants and Children Institute of Medicine 2000-04-07 The Institute of Medicine's (IOM's) Roundtable on Research and Development of Drugs, Biologics, and Medical Devices evolved from the Forum on Drug Development, which was established in 1986. Sponsor representatives and IOM determined the importance of maintaining a neutral setting for discussions regarding long-term and politically sensitive issues justified the need to revise and enhance past efforts. The new Roundtable is intended to be a mechanism by which a broad group of experts from the public* and private sectors can be convened to conduct a dialogue and exchange information related to the development of drugs, biologics, and medical devices. Members have expertise in clinical medicine, pediatrics, clinical pharmacology, health policy, health insurance, industrial management, and product development; and they represent interests that address all facets of public policy issues. From time to time, the Roundtable requests that a workshop be conducted for the purpose of exploring a specific topic in detail and obtaining the views of additional experts. The first workshop for the Roundtable was held on April 14 and 15, 1998, and was entitled Assuring Data Quality and Validity in Clinical Trials for Regulatory Decision Making. The summary on that workshop is available from IOM. This workshop summary covers the second workshop, which was held on May 24 and 25, 1999, and which was aimed at facilitating the development and proper use of drugs, biologics, and medical devices for infants and children. It explores the scientific underpinnings and clinical needs, as well as the regulatory, legal, and ethical issues, raised by this area of research and development.

Brook's Clinical Pediatric Endocrinology Mehul T. Dattani 2019-11-04 The seventh edition of Brook's Clinical Pediatric Endocrinology has been compiled by an experienced editorial team and internationally renowned contributors; it presents basic science and clinical management of endocrine disorders for all involved in the care of children and adolescents. It provides treatments for a variety of hormonal diseases, including diabetes and hypoglycaemia, growth problems, thyroid disease and disorders of puberty, sexual differentiation, calcium metabolism, steroid metabolism and hypopituitarism.

An Evaluation of Basal Metabolic Data for Children and Youth in the United States Dorothy Worstell Sargent 1961

Pediatric Endocrinology M. Sperling 2002 This

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comprehensive, definitive reference in the field, incorporates all of today's explosive discoveries in basic and clinical endocrinology. Its reliable, cutting-edge guidance for a full range of problems is combined with a wealth of information on the physiological, biochemical, and genetic basis at the molecular biological level. Dr. Mark A. Sperling and 33 contributing experts bring readers the benefits of discovery at the bench and its application at the bedside. New chapters, extensive revisions, and compelling updates will keep readers at the forefront of the diagnosis and management of endocrine disease in children. Incorporates the explosive growth in molecular biology as it relates to developmental and pediatric endocrinology. Extensively revised and updated chapters throughout reflect the latest information. Coverage of up-to-the-minute topics in the field, including molecular, biochemical, and clinical basis of hyperinsulinemic hypoglycemia of infancy and childhood diabetes mellitus energy balance/obesity growth hormone paradigms of mechanisms of hormone action, and others Contributions from new authors from distinguished institutions Numerous brand-new illustrations depict the most current information, particularly the basic science/genetic basis of certain entities

Research Awards Index 1986

Disease Control Priorities, Third Edition (Volume 8) Donald A. P. Bundy 2017-11-20 More children born today will survive to adulthood than at any time in history. It is now time to emphasize health and development in middle childhood and adolescence--developmental phases that are critical to health in adulthood and the next generation. Child and Adolescent Health and Development explores the benefits that accrue from sustained and targeted interventions across the first two decades of life. The volume outlines the investment case for effective, costed, and scalable interventions for low-resource settings, emphasizing the cross-sectoral role of education. This evidence base can guide policy makers in prioritizing actions to promote survival, health, cognition, and physical growth throughout childhood and adolescence.

Patterns of Human Growth Barry Bogin 1999-05-06 A revised edition of an established text on human growth and development from an anthropological and evolutionary perspective.

The Genetics of Obesity Claude Bouchard 2020-08-12 This book provides a comprehensive compilation of the evidence available regarding the role of genetic differences in the etiology of human obesities and their health and metabolic implications. It also identifies the most promising research areas, methods, and strategies for use in future efforts to understand the genetic basis of obesities and their consequences on human health. Leading researchers in their respective fields present contributed chapters on such topics as etiology and the prevalence of obesities, nongenetic determinants of obesity and fat topography, and animal models and molecular biological technology used to delineate the genetic basis of human obesities. A major portion of the book is devoted to human genetic research and clinical observations encompassing adoption studies, twin studies, family studies, single gene effects, temporal trends and etiology heterogeneity, energy intake and food preference, energy expenditure, and susceptibility to metabolic derangements in the obese state. Future directions of research in the field are covered in the book as well.

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Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism 2018-09-25 The authoritative reference to bone diseases and disorders of mineral metabolism, revised and updated Now in its ninth edition, The Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism offers an updated and comprehensive guide to bone and mineral health. Since it was first published 30 years ago, the Primer has become the leading reference on the topic. With contributions from noted experts, the text explores basic biological factors of healthy development and disease states and makes the information accessible for clinical interventions. The ninth edition provides concise coverage of the widest possible spectrum of metabolic bone diseases and disorders of mineral metabolism. The new edition of this invaluable reference expands coverage and includes the most recent developments in the field that help to strengthen its usefulness and ensure that the Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism maintains its place as the pre-eminent reference on bone and mineral health. This vital resource: Provides the most accurate, up-to-date evidence-based information on basic and clinical bone science Includes more than 10 new chapters and contributions from 300 authors from wide-ranging international research centers Captures the very cutting edge of research covering mineral homeostasis, osteoporosis and other metabolic bone diseases, skeletal measurement technologies, and genetics Presents a new companion website with useful supplementary materials at www.asbmrprimer.com Written for advanced students, clinicians, and researchers working in the field of bone health and disease, Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism is the definitive, one-stop reference for anyone working in the field of bone health and disease.

Archives of Pediatrics 1922

The Gaseous Metabolism of Infants Francis Gano Benedict 1914

Nutritional and Metabolic Diseases: New Insights for the Healthcare Professional: 2011 Edition 2012-01-09 Nutritional and Metabolic Diseases: New Insights for the Healthcare Professional: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Nutritional and Metabolic Diseases. The editors have built Nutritional and Metabolic Diseases: New Insights for the Healthcare Professional: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Nutritional and Metabolic Diseases in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Nutritional and Metabolic Diseases: New Insights for the Healthcare Professional: 2011 Edition has been produced by the world’s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Educating the Student Body Committee on Physical Activity and Physical Education in the School Environment 2013-11-13 Physical inactivity is a key determinant of health across the lifespan. A lack of activity increases the risk of heart disease, colon and

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breast cancer, diabetes mellitus, hypertension, osteoporosis, anxiety and depression and others diseases. Emerging literature has suggested that in terms of mortality, the global population health burden of physical inactivity approaches that of cigarette smoking. The prevalence and substantial disease risk associated with physical inactivity has been described as a pandemic. The prevalence, health impact, and evidence of changeability all have resulted in calls for action to increase physical activity across the lifespan. In response to the need to find ways to make physical activity a health priority for youth, the Institute of Medicine's Committee on Physical Activity and Physical Education in the School Environment was formed. Its purpose was to review the current status of physical activity and physical education in the school environment, including before, during, and after school, and examine the influences of physical activity and physical education on the short and long term physical, cognitive and brain, and psychosocial health and development of children and adolescents. Educating the Student Body makes recommendations about approaches for strengthening and improving programs and policies for physical activity and physical education in the school environment. This report lays out a set of guiding principles to guide its work on these tasks. These included: recognizing the benefits of instilling life-long physical activity habits in children; the value of using systems thinking in improving physical activity and physical education in the school environment; the recognition of current disparities in opportunities and the need to achieve equity in physical activity and physical education; the importance of considering all types of school environments; the need to take into consideration the diversity of students as recommendations are developed. This report will be of interest to local and national policymakers, school officials, teachers, and the education community, researchers, professional organizations, and parents interested in physical activity, physical education, and health for school-aged children and adolescents.

Carnegie Institution of Washington Publication 1921

Handbook of Neuroendocrinology George Fink 2011-10-25 Neuroendocrinology underpins fundamental physiological, molecular, biological, and genetic principles such as the regulation of gene transcription and translation. This handbook highlights the experimental and technical foundations of each area's major concepts and principles.

Pesticides in the Diets of Infants and Children National Research Council 1993-02-01 Many of the pesticides applied to food crops in this country are present in foods and may pose risks to human health. Current regulations are intended to protect the health of the general population by controlling pesticide use. This book explores whether the present regulatory approaches adequately protect infants and children, who may differ from adults in susceptibility and in dietary exposures to pesticide residues. The committee focuses on four major areas: Susceptibility: Are children more susceptible or less susceptible than adults to the effects of dietary exposure to pesticides? Exposure: What foods do infants and children eat, and which pesticides and how much of them are present in those foods? Is the current information on consumption and residues adequate to estimate exposure? Toxicity: Are toxicity tests in laboratory animals adequate to predict toxicity in human infants and children? Do the extent

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and type of toxicity of some chemicals vary by species and by age? Assessing risk: How is dietary exposure to pesticide residues associated with response? How can laboratory data on lifetime exposures of animals be used to derive meaningful estimates of risk to children? Does risk accumulate more rapidly during the early years of life? This book will be of interest to policymakers, administrators of research in the public and private sectors, toxicologists, pediatricians and other health professionals, and the pesticide industry.

METABOLISM & GROWTH FROM BIRTH Francis Gano 1870-1957 Benedict 2016-08-29 This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Experiment Station Record United States. Office of Experiment Stations 1921

Growth, Maturation, and Physical Activity Robert M. Malina 2004 This updated edition features three new chapters and current research findings. Topics include prenatal growth and functional development, motor development, thermoregulation, obesity in childhood and adolescence and more.

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