

Imaging Of Pediatric Pituitary Abnormalities

This manual is a comprehensive guide to radiological imaging for the diagnosis of diseases and disorders in children. The fourth edition has been fully revised and features many new topics, providing the latest advances in the field. Divided into 35 chapters, the book covers all the main imaging modalities – CT, MRI, ultrasound and digital radiography, and their use in the diagnosis of disorders in different body systems. Numerous radiological images, tables and boxes further enhance the extensive text. Key points Comprehensive guide to radiological imaging in children Fully revised, fourth edition, featuring many new topics and latest advances Covers all the main imaging modalities accompanied by radiological photographs, tables and boxes Previous edition (9789350252055) published in 2011

Providing the most current information on the function of human growth hormone (GH) and the consequences of its deficiency, this practical yet comprehensive text is divided into three sections. Part one describes the mechanisms of GH secretion and action, including the physiology of GH and its regulation by sex steroids and thyroid hormones, the effects of both under nutrition and obesity on GH secretion, and the metabolic effects of human recombinant GH therapy. The second section covers diagnostic strategies and tests for GH deficiency in both children and adults, including MRI of the pituitary. The final section describes the different etiologies of GH deficiency, from molecular mechanisms and gene abnormalities to cranial radiation and traumatic brain injury, along with syndromes related to this deficiency. Presenting underlying mechanisms and pathologies, as well as diagnostic methods, Growth Hormone Deficiency will provide the most up-to-date essential information and evidence on this condition for the clinical endocrinologist.

Written by internationally renowned experts, this volume is a collection of chapters dealing with imaging diagnosis and interventional therapies in neuroradiology and diseases of the spine. The different topics are disease-oriented and encompass all the relevant imaging modalities including X-ray technology, nuclear medicine, ultrasound and magnetic resonance, as well as image-guided interventional techniques. It represents a unique experience for residents in radiology as well as for experienced radiologists wishing to be updated on the current state of the art.

This uniquely useful resource helps radiologists and pediatricians to optimize the work-up and treatment of pediatric patients with endocrine disorders, using the latest imaging techniques. Includes a wealth of high-quality illustrations, most in color.

Pediatric Neuro-Ophthalmology, 3rd edition provides the single authoritative resource on the pathophysiology, diagnostic evaluation, and treatment of neuro-ophthalmologic disorders in children. This book is encyclopedic in scope, incorporating extensive references for each condition, numerous diagrams and pictures, and a detailed analysis of the clinical disorders included in the differential diagnosis of each condition. The third edition builds upon this format to incorporate new discoveries about mechanisms of disease, new diagnostic modalities, advances in treatment in the field of pediatric neuro-ophthalmology, and updated neuroimaging figures. ?

The most popular pediatric imaging text among radiology residents, program directors, and practitioners is now in its updated, expanded Third Edition. This edition's contributing authors include faculty of the Department of Radiology at Children's Hospital in Boston--the largest pediatric medical center in the United States. The state-of-the-art coverage highlights the expanding pediatric applications of ultrasound, CT, MRI, nuclear medicine, and vascular/interventional techniques. A new chapter on head and neck imaging is also included. Complementing the text are more than 2,000 scans and line drawings--over 1,300 new to this edition--as well as numerous diagnostic algorithms and tables of differential diagnosis.

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 developments in the basic sciences and evidence-based new knowledge in clinical research and clinical practice that are relevant to the field, the 'Yearbook of Pediatric Endocrinology 2009' keeps busy clinicians and scientists, pediatric endocrinologists, and also pediatricians and endocrinologists informed on new advances. Twelve Associate Editors and their co-authors selected from several thousand papers those that brought the most meaningful new information, summarized them and provided comments to put them into perspective. The papers are classified into those that identify new genes involved in diseases, new hormones, concepts revised or re-centered, important observations for clinical practice, large-scale clinical trials, new mechanisms, new paradigms, important review articles, new fears and new hopes. Because the Yearbook is endorsed by the European Society for Paediatric Endocrinology (ESPE), its publication is linked to the annual meeting of the ESPE. The 'Yearbook of Pediatric Endocrinology 2009' covers the medical and scientific literature from June 2008 through May 2009.

Your accessible guide to the essentials of pediatric diagnostic imaging! Pediatric Radiology: Practical Imaging Evaluation of Infants and Children provides vital insights on how to diagnose both common and rare, congenital and acquired disorders in infants and children using the best imaging approaches available today. And, it does so in a highly concise, practical manner that makes this information easy to understand and apply. Contributions from a host of respected international authorities put the most relevant, expert information from around the world at your fingertips.

Growth is one of the human body's most intricate processes: each body part or region has its own unique growth patterns. Yet at the individual and population levels, growth patterns are sensitive to adverse conditions, genetic predispositions, and environmental changes. And despite the body's capacity to compensate for these developmental setbacks, the effects may be far-reaching, even life-long. The Handbook of Growth and Growth Monitoring in Health and Disease brings this significant and complex field together in one comprehensive volume: impact of adverse variables on growth patterns; issues at different stages of prenatal development, childhood, and adolescence; aspects of catch-up growth, endocrine regulation, and sexual maturation; screening and assessment methods; and international perspectives. Tables and diagrams, applications to other areas of health and disease, and summary points help make the information easier to retain. Together, these 140 self-contained chapters in 15 sections [ok?] cover every area of human growth, including: Intrauterine growth retardation. Postnatal growth in normal and abnormal situations. Cells and growth of tissues. Sensory growth and development. Effects of disease on growth. Methods and standards for assessment of growth, and more. The Handbook of Growth and Growth Monitoring in Health and Disease is an invaluable addition to the reference libraries of a wide range of health professionals, among them health scientists, physicians, physiologists, nutritionists, dieticians, nurses, public health researchers, epidemiologists, exercise physiologists, and physical therapists. It is also useful to college-level students and faculty in the health disciplines, and to policymakers and health economists.

Cancer is diagnosed in about 140 per million children in Britain each year. There is a 1 in 500 chance that a child will be affected in the first 15 years of life, the most frequently

occurring types of cancer being leukaemia and brain tumours. This book covers the descriptive epidemiology of childhood cancer in Britain, based on the unique work of the National Registry of Childhood Tumours, the largest population-based specialist childhood cancer registry in the world. The book provides a detailed account of national incidence and survival rates for childhood cancer in Britain during 1991-2000, and trends during 1966-2000. There is also an account of childhood mortality for the period 1965-2004. The diagnoses are classified throughout according to the International Classification of Childhood Cancer, the first time the third edition of this standard classification has been used for prevalence of incidence, survival and mortality data. The chapter on incidence rates is relevant to planning of health service provision and design of research studies on aetiology, whilst the chapter on trends in incidence is relevant to the possible effects of changes in environmental and other risk factors. In addition to comprehensive tables of rates, age-incidence graphs are provided for all the major types of childhood cancer, and possible artefacts are also discussed. The survival data demonstrates how clinical progress over the past 40 years has led to a major increase in the number of cancer survivors. The role of the Registry, covering history, methodology, current and future uses, is also discussed. This definitive work is the culmination of decades of epidemiological research and is essential reading for anyone involved in paediatric oncology or cancer epidemiology.

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.

This volume provides a comprehensive and world-class review of the field of histiocytic neoplasms and hemophagocytic lymphohistiocytosis (HLH). It reviews all the advances in the field of histiocytoses during the last ten years, particularly with regards to the genomic findings in LCH and other histiocytic neoplasms and the new suggested classification of the histiocytic disorders. Additionally, it features a state-of-the art update on the most recent treatment strategies for LCH, including the results of the last LCH-III international trial, salvage therapies such as reduced-intensity conditioning (RIC) stem cell transplant (SCT), and targeted therapies with BRAF and MEK inhibitors, as well as the challenging cases of CNS-neurodegenerative LCH and its therapeutic perspectives. For primary and secondary HLH the book updates the most recent genetic and pathophysiological findings, including macrophage-activation syndrome (MAS), and includes a special chapter on HLH in adults. Treatment chapters encompass therapy for newly diagnosed HLH and refractory disease as well as stem-cell transplantation and novel therapies. The text also highlights the most recent advances in the treatment of the uncommon histiocytic disorders, such as Erdheim-Chester disease (ECD), Juvenile xanthogranuloma (JXG) and JXG-like conditions, Rosai-Dorfman disease (RDD), and the very rare malignant histiocytoses. Written by international experts in the field, Histiocytic Disorders is a valuable resource for clinicians, researchers, fellows and residents who are interested in or manage histiocytic disorders in children and adults.

For 20 years, KIGS (Pfizer International Growth Database) has provided an outstanding tool for monitoring the use, efficacy and safety of growth hormone (GH) treatment in children with short stature of varying origin. This volume offers a comprehensive update of the continuing experiences in KIGS and is based on data from more than 50 countries and more than 60,000 patients. International experts analyse in detail the basic auxological characteristics of patients and their response to GH treatment for a broad spectrum of growth disorders. These include idiopathic GH deficiency, organic GH deficiency due to a variety of causes such as congenital malformations and syndromes, genetic disorders or treatment for leukaemia or central nervous system tumours and short stature in children born small for gestational age, specific syndromes and systemic disorders. Each growth disorder is also covered by a review of relevant published data by international experts. KIGS has also established itself as a primary source of information about adverse events during long-term GH treatment in children. The recent analysis of KIGS data has revealed no new adverse drug reactions since the 10-year follow-up. Therefore, treatment with GH seems a low-risk intervention in children and adolescents with various growth disorders. The process of developing disease-specific growth response prediction models has been ongoing in KIGS for many years. The available models are accurate, precise and have a relatively high degree of predictive power, although further predictors of the growth response remain to be identified. The KIGS prediction models can be applied prospectively to new patients, enabling their GH therapy to be better tailored and monitored to achieve optimal growth, safety and cost outcomes. The future of KIGS within the era of evidence-based medicine will continue to depend upon the quality of the data reported. Therefore, the commitment of participating physicians will continue to be a decisive element. The ongoing recognition of the importance of valid safety and efficacy information in the practice of paediatric endocrinology is exemplified by this valuable international collaboration of clinicians and the pharmaceutical community.

In a single, convenient volume, Pediatric Endocrinology offers complete coverage of all aspects of basic science and clinical practice, ideal for both pediatricians and endocrinologists. Pediatric endocrinology expert Dr. Mark Sperling teams up with world-renowned authors to bring you up to date with the latest key developments in every area of the field, providing invaluable guidance on how your clinical decision making will be affected by today's technological and scientific advances. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Determine the best possible course for every patient with easy-to-follow algorithms in every clinical chapter. Stay up to date with today's hottest topics, including neonatal diabetes mellitus, Type II childhood diabetes, molecular endocrinology, and genetics. Explore the impact of today's advances and challenges, including explosive growth in molecular biology, sophisticated imaging techniques, and an increase in both pediatric diabetes and obesity.

Quickly access the information you need with a new, streamlined organization (Concepts, Endocrine Disorders of the Newborn, Endocrine Disorders of Childhood and Adolescence, and Laboratory Tests and Imaging).

The hypothalamus is an anatomically small but functionally important part of the brain. In functional and pathophysiological terms, the hypothalamus represents the intersection of several areas of clinical and medical expertise. The human hypothalamus can be astutely referred to as the crossroad of endocrinology, psychiatry, neurology and neurosurgery. Because of its involvement in myriad physiologic functions and the varied ways disorders involving it can manifest, hypothalamic disease can initially come to medical attention in widely disparate settings and with widely different clinicians. Therefore, the detection and proper care of hypothalamic dysfunction and disease often requires carefully coordinated multidisciplinary care. This volume fills a significant void in the medical professional community, comprehensively presenting the scope of hypothalamic structure, function, dysfunction and disease to cater to the various clinical, teaching and research professionals that have a stake in this part of the human brain. This text captures in one place all the information that practicing clinicians, clinician scientists, and researchers need to be adequately informed about various aspects of the hypothalamus in all its complexity. It is comprehensive and broad in scope so that it provides relevant reference information for the wide range of professionals involved in the pre- and post-mortem detection, diagnosis, characterization, care and management of various hypothalamic disorders and diseases in addition to providing a sound anatomic and physiologic foundation of the normal human hypothalamus. The Human Hypothalamus can be used to differing degrees by medical professionals and students alike, finding utility for interested general clinicians, medical school and allied health professional teaching faculty as well as subspecialists in domains as wide as neurosurgery, neuroendocrinology, clinical psychiatry and neuro-oncology.

Combining the rich visual guidance of an atlas with the comprehensive, in-depth coverage of a definitive reference, this significant new work in the Expert Radiology series covers every aspect of brain imaging, equipping you to make optimal use of the latest diagnostic modalities. Compare your clinical findings to more than 2,800 digital-quality images of both radiographic images and cutting edge modalities such as MR, multislice CT, ultrasonography, and nuclear medicine, including PET and PET/CT. Visualize relevant anatomy more easily thanks to full-color anatomic views throughout. Choose the most effective diagnostic options, with an emphasis on cost-effective imaging. Apply the expertise of a diverse group of world authorities from around the globe on imaging of the brain. Use this reference alongside Dr. Naidich's Imaging of the Spine for complementary coverage of all aspects of neuroimaging.

Pediatric Imaging, the latest edition in the Teaching File series, covers a wide variety of conditions affecting children. Designed as a complement to core textbooks and curriculum, this book walks the reader through every step of 238 actual cases -- from patient history to the types of discussions that take place between residents and faculty members. Readers can even study each case as an unknown to help hone critical-thinking skills. It doesn't matter if you're a radiology resident, fellow, or practicing radiologist, Pediatric Imaging: A Teaching File is one book you'll use to continue to sharpen your skills. FEATURES: * Each case features clinical history, images, relevant findings, differential diagnosis, and discussion of case * Questions at end of each case focus on the core teaching points the case is meant to illustrate * Fully searchable text and figures at web site NEW SECTIONS: * "Reporting Responsibilities" offers specific recommendations for reporting content that are acuity, problem, and study specific. * "What the Treating Physician Needs to Know" lists what information and direction the ordering provider may reasonably expect given the clinical context and imaging test at hand. Magnetic Resonance Imaging: New Insights for the Healthcare Professional: 2011 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Magnetic Resonance Imaging in a concise format. The editors have built Magnetic Resonance Imaging: New Insights for the Healthcare Professional: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Magnetic Resonance Imaging 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 Magnetic Resonance Imaging: 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/>.

This unique book presents an up-to-date discussion of clinical disorders of the pituitary gland in children with specific emphasis on state-of-the-art diagnostic and treatment modalities, highlighting the newest scientific advances in genomics and molecular biology that clinician-scientists caring for children need to know. Chapters focus on the current knowledge base in genomics, pathophysiology, diagnosis, and medical and surgical management, organized into thematic sections. Part I discusses embryologic and genetic disorders, including genomics and congenital disorders of the pituitary. Part II presents acquired pituitary disorders, such as prolactinomas, Cushing's Disease, and both hormone secreting and non-secreting pituitary tumors. Subsequent sections cover posterior pituitary disorders, such as diabetes insipidus, functional hormone deficiencies of the hypothalamic-pituitary axis, including delayed puberty and pubertal disorders and growth hormone disorders, neuro-ophthalmic disease, CNS radiation, childhood cancer treatment and traumatic brain injury. Authoritative and comprehensive, Pituitary Disorders of Childhood will serve as a precise guide for clinical endocrinologists and will guide future investigation into translational and clinical research on the pediatric pituitary.

This book addresses a broad range of biologically based disorders that affect children's learning and development. Leading authorities review the genetics of each disorder; its

course and outcome; associated developmental, cognitive, and psychosocial challenges; and what clinicians and educators need to know about effective approaches to assessment and intervention. --from publisher description

In the last few years, rapid progress has taken place in our understanding of the developmental biology of GH secretion and the pivotal role it plays in growth. This book keeps the reader updated on the most important developmental aspects and influences leading to changes in terms of clinical views. In ten chapters, well-known scientists and clinicians cover some of the most important progress made in recent times. The first chapters discuss pituitary gland development and imaging in detail followed by a comprehensive presentation of the genetics of the GH axis. Further chapters present a detailed overview of the epigenetics and bioinformatics of GH. This collection of up-to-date investigative data and reviews is of relevance not only to scientists involved in endocrinology but also to any physician interested in growth and development.

This book deals with neuroimaging of the brain, head, neck, and spine. During the last few years, there have been considerable advances in this subject, driven by clinical as well as technological developments. The authors, internationally renowned experts in their field, have contributed chapters that are disease-oriented and cover all relevant imaging modalities, including magnetic resonance imaging, computed tomography, and positron emission tomography. As a result, this book offers a comprehensive review of the state of the art in neuroimaging. It is particularly relevant for general radiologists, radiology residents, neurologists, neurosurgeons, and other clinicians wishing to update their knowledge in this discipline.

Covering the entire spectrum of this fast-changing field, *Diagnostic Imaging: Pediatric Neuroradiology*, third edition, is an invaluable resource for radiologists, child neurologists, and pediatricians—anyone who requires an easily accessible reference that covers common and uncommon disorders affecting the brain, head, neck, and spine of children. Dr. Kevin Moore and an expert author team provide carefully updated information and an abundance of high-quality images throughout, making this edition a useful learning tool as well as a handy reference source for daily practice. Features more than 2,300 annotated images, including MR, CT, proton spectroscopy, and angiographic findings Brings you up to speed with recent name changes and reclassification of both neoplastic and nonneoplastic central nervous system (CNS) entities, revised classification of tumor types/subtypes, changes in metabolic disorders and malformations, and entirely new disorders and groups of disorders such as acute flaccid myelitis Includes new chapters covering important pediatric spine neoplasms, such as CNS intradural tumor dissemination and myxopapillary ependymoma Provides expanded coverage of better-understood genetic white matter diseases such as vanishing white matter disease Discusses key topics such as newly discovered genetic mutations correlating with distinct imaging appearances and prognosis, newly characterized infectious entities, recent descriptions of important Chiari I malformation variants, newly described entities based on genetics in addition to histological features, and advances in the diagnosis of abusive head trauma Uses bulleted, succinct text for fast and easy comprehension of essential information, including terminology, imaging findings, key facts, differential diagnosis, pathology, clinical issues, diagnostic checklist, and selected references Includes an extensive image gallery for each entity, depicting common and variant cases Offers a vivid, full-color design that makes the material easy to read Displays a "thumbnail" visual differential diagnosis for each entity

This issue of *Neurosurgery Clinics*, Guest Edited by Drs. Manish K. Aghi and Lewis S. Blevins, will focus on Pituitary Adenoma. Topics include, but are not limited to, Molecular biology of nonfunctional and functional pituitary adenomas, Intraoperative Fluorescent Visualization of pituitary adenomas, Intraoperative MRI for pituitary adenomas, Pituitary Apoplexy, Management of giant pituitary adenomas, Management of Pituitary Adenomas Invading the Cavernous Sinus, Management of Recurrent Pituitary Adenomas, Medical Management of Cushing's Disease, Medical Management of Acromegaly, Surgery for Pediatric Pituitary Adenomas, Visual Outcomes after Pituitary Surgery, Endocrine Outcomes after Pituitary Surgery, Sodium perturbations after pituitary surgery, and Sinonasal Quality of Life After Pituitary Surgery.

All the gamuts pertaining to the nervous system have been excerpted into this book from Reeder and Felson's *Gamuts in Radiology*, the world's best known, most trusted, and most comprehensive guide to radiologic differential diagnosis. Clinicians are given easy access to complete lists of possible causes that guide the interpretation of findings or patterns on MR, CT, angiography, and plain film studies. The user-friendly listings are concise and well organized. They are arranged by relative frequency to help radiologists, neuroradiologists, and residents arrive at an immediate diagnosis. Other features include a slim 5"x8" trim size for handy portability and an easy-to-read single-column format. This ideal pocket guide is a must have for everyday use in clinical practice and is also an excellent teaching tool and study guide for board exams.

This book is a unique resource that will help pediatric radiologists, pediatricians, and pediatric endocrinologists to optimize the work-up and treatment of pediatric patients with endocrine disorders. Acclaimed experts in the field present and discuss the imaging findings obtained in disorders of the various endocrine systems, including the hypothalamo-pituitary axis, the thyroid and parathyroids, the adrenals, and the pancreas. Detailed advice is also provided on the assessment of bone growth and on imaging of the fetal glands, ambiguous genitalia, and the female pelvis in the context of precocious puberty. Throughout, care is taken to highlight characteristic findings and diagnostic clues. All of the currently used imaging techniques are covered, with clear explanation of their benefits and limitations. The informative text is supported by a wealth of high-quality illustrations, the large majority of them in color.

FOUR STARS from Doody's Star Ratings™ Highly recommended -- *Pediatric Endocrinology Reviews* This is a very useful book, particularly for junior residents on their first rotation in neuroradiology or pediatric radiology. The discussion of all imaging modalities, including ultrasound, is very well done. This is a must-have for all residency libraries. --

Doody's Book Review (Score: 95) Written in the concise and engaging style of leading neuroradiologist Dr. Asim Choudhri, Pediatric Neuroradiology is a highly practical reference focusing on the most common, serious, and challenging conditions seen in the specialty. This book offers concise guidelines on very complex topics related to the areas of pediatric neuroradiology in which it is crucial that radiologists make correct diagnoses. Key Features: Focuses on the practical, clinical needs of neuroradiologists and pediatric radiologists, as well as all radiologists, neurosurgeons, and neurologists who care for children Sections dedicated to the brain, head and neck, and spine More than 780 high-quality radiographs, MRIs, and CT scans clarify the information presented in the book Three appendices containing information on protocolling and interpreting/reporting studies aid correct interpretation of the studies A quick reference guide enables clinicians to determine the optimal approach to imaging evaluation of neurological symptoms and conditions in children Pediatric Neuroradiology is a key reference that residents and practitioners in the specialty will frequently consult to guide them in the diagnosis and treatment planning of children suffering from neurologic disorders.

"Pescovitz and Eugster, both affiliated with the Section for Pediatric Endocrinology/Diabetology at Indiana University School of Medicine, provide essential information on the mechanisms, diagnosis, and management of pediatric endocrine disorders. Aspects of human development and physiology are combined with information on etiology, diagnosis, and treatment. Within each of the traditional endocrine systems, contemporary molecular genetics and developmental endocrinology are presented, followed by material on specific clinical disorders and therapeutic strategies. Interspersed throughout the book are chapters devoted to emerging issues such as childhood obesity, short stature, and treatment of children with disorders of sexual differentiation. B&w photos and diagnostic images are included. Annotation : 2004 Book News, Inc., Portland, OR (booknews.com)"--[source inconnue].

This textbook provides a comprehensive review of gynecological imaging in infancy, childhood, and adolescence. Experts from the disciplines of pediatric radiology, gynecology, surgery, and endocrinology have come together to produce a textbook that, while written primarily from the perspective of the radiologist, will be of value to all professionals involved in the management of these patients. The normal development of the female reproductive tract is described in detail through embryological development, normal childhood appearances, and puberty. Congenital abnormalities are addressed in chapters reviewing structural abnormalities of the reproductive tract and disorders of sex development. A symptoms-based approach is followed in chapters devoted to the assessment of the patient with gynecological pain and disorders of menstruation. Disorders of the breast and the imaging of patients with gynecological neoplasia are considered in dedicated chapters.

Part of the successful Requisites series, this best-selling title presents everything you need to know about diagnostic imaging of the most commonly encountered neurologic and head and neck conditions.....one book that covers brain, spine, head and neck with an engaging approach. --

Annotation 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 developments in the basic sciences and evidence-based new knowledge in clinical research and clinical practice that are relevant to the field, the Yearbook of Pediatric Endocrinology 2011 keeps busy clinicians and scientists, pediatric endocrinologists, and also pediatricians and endocrinologists informed on new advances. Twelve Associate Editors and their co-authors selected from several thousand papers those that brought the most meaningful new information, summarized them and provided comments to put them into perspective. The papers are classified into those that identify new genes involved in diseases, new hormones, concepts revised or re-centered, important observations for clinical practice, large-scale clinical trials, new mechanisms, new paradigms, important review articles, new fears and new hopes. Because the Yearbook is endorsed by 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.

Established as the leading textbook on imaging diagnosis of brain and spine disorders, Magnetic Resonance Imaging of the Brain and Spine is now in its Fourth Edition. This thoroughly updated two-volume reference delivers cutting-edge information on nearly every aspect of clinical neuroradiology. Expert neuroradiologists, innovative renowned MRI physicists, and experienced leading clinical neurospecialists from all over the world show how to generate state-of-the-art images and define diagnoses from crucial clinical/pathologic MR imaging correlations for neurologic, neurosurgical, and psychiatric diseases spanning fetal CNS anomalies to disorders of the aging brain. Highlights of this edition include over 6,800 images of remarkable quality, more color images, and new information using advanced techniques, including perfusion and diffusion MRI and functional MRI. A companion Website will offer the fully searchable text and an image bank.

This open access book offers an essential overview of brain, head and neck, and spine imaging. Over the last few years, there have been considerable advances in this area, driven by both clinical and technological developments. Written by leading international experts and teachers, the chapters are disease-oriented and cover all relevant imaging modalities, with a focus on magnetic resonance imaging and computed tomography. The book also includes a synopsis of pediatric imaging. IDKD books are rewritten (not merely updated) every four years, which means they offer a comprehensive review of the state-of-the-art in imaging. The book is clearly structured and features learning objectives, abstracts, subheadings, tables and take-home points, supported by design elements to help readers navigate the text. It will particularly appeal to general radiologists, radiology residents, and interventional radiologists who want to update their diagnostic expertise, as well as clinicians from other specialties who are interested in imaging for their patient care.

This issue reviews the state of the art of head and neck imaging, with clear reviews of the role of MRI in the diagnosis and treatment of some of the most common head and neck conditions. Articles discuss

imaging of head and neck tumors, head and neck reconstruction for cancer treatment, oral cavity carcinoma and imaging of the TMJ. Reviews cover patterns of perineural spread, MRI applications in temporal bone pathology, MRI of brachial plexus, and imaging of the pediatric neck. Orbital pathology and optic pathways are covered, as well as paranasal sinuses, and sella and parasellar regions.

This atlas presents normal imaging variations of the brain, skull, and craniocervical vasculature. Magnetic resonance (MR) imaging and computed tomography (CT) have advanced dramatically in the past 10 years, particularly in regard to new techniques and 3D imaging. One of the major problems experienced by radiologists and clinicians is the interpretation of normal variants as compared with the abnormalities that the variants mimic. Through an extensive collection of images, this book offers a spectrum of appearances for each variant with accompanying 3D imaging for confirmation; explores common artifacts on MR and CT that simulate disease; discusses each variant in terms of the relevant anatomy; and presents comparison cases for the purpose of distinguishing normal findings from abnormalities. It includes both common variants as well as newly identified variants that are visualized by recently developed techniques such as diffusion-weighted imaging and multidetector/multislice CT. The book also highlights normal imaging variants in pediatric cases. Atlas of Normal Imaging Variations of the Brain, Skull, and Craniocervical Vasculature is a valuable resource for neuroradiologists, neurologists, neurosurgeons, and radiologists in interpreting the most common and identifiable variants and using the best methods to classify them expediently.

This comprehensive atlas depicts the entire range of normal variants seen on neuroradiologic images, helping radiologists "decode" appearances that can be misdiagnosed as pathology. The book features nearly 900 radiographs that show normal variants seen on plain film, MR, CT, and angiographic images, plus accompanying line drawings that demonstrate normal angiogram patterns and other pertinent anatomy. Dr. Jinkins, a well-known neuroradiologist, takes a multimodality approach to the cranium, sella, orbit, face, sinuses, neck, and spine. In an easy-to-follow format, he provides the information radiologists need to identify unusual features...assess their significance...avoid unnecessary, expensive studies...and minimize exposure and risk.

This clinically oriented book will familiarize the reader with all aspects of the diagnosis of tumors and other disorders of the pituitary gland by means of magnetic resonance imaging (MRI). The coverage includes acromegaly, Cushing's disease, Rathke cleft cysts, prolactinomas, incidentalomas, nonsecreting adenomas, other lesions of the sellar area, hypophysitis, and central diabetes insipidus. Normal radiologic anatomy and the numerous normal variants are described, and guidance is also provided on difficulties, artifacts, and other pitfalls. The book combines concise text and high-quality images with a question and answer format geared toward the needs of the practitioner. MRI is today considered the cornerstone in the diagnosis of diseases of the hypophyseal-hypothalamic region but the relatively small size of the pituitary gland, its deep location, the many normal anatomic variants, and the often tiny size of lesions can hinder precise evaluation of the anatomic structures and particularly the pituitary gland itself. Radiologists and endocrinologists will find MRI of the Pituitary Gland to be full of helpful information on this essential examination, and the book will also be of interest to internists and neurosurgeons.

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