Algorithms In Pediatric Neurology A Beginneraposs Guide 1st Edition

Part of the House Officer Series, Weiner & Levitt's Pediatric Neurology, Fourth Edition has been extensively reorganized, thoroughly updated, and includes many algorithms and tables. The new structure presents the book in six sections, and is consistent with the ways in which clinicians approach their patients. The first section offers introductory chapters under the heading of evaluation, and includes neurologic history, neuro exam, and localization. The bulk of the material is in two sections and covers common complaints and specific diseases, while the remaining sections cover drugs and diagnostic and neuropsychological tests.

"A lifesaver – not just for PA students, but for faculty and administrators trying our best to prepare them. Perfect for students to read and use on rotation." – James Van Rhee, MS, PA-C, DFAAPA, Program Director, Yale Physician Assistant Online Program The first pocket-size resource to guide PA students through their pediatrics rotation Prepare for and thrive during your clinical rotations with the quick-access pocket guide series, The Physician Assistant

Student's Guide to the Clinical Year. The Pediatrics edition of this 7-volume series, discounted when purchased as a full set, delineates the exact duties required in this specialty. Written by experienced PA educators, this guide details the clinical approach to common presentations such as cough, fever, and skin changes. It also provides a systems-based approach to more than 60 of the most frequently encountered disease entities you will see in this rotation, including dermatitis, pharyngitis, and otitis media. Distinguished by brief, bulleted content with handy tables and figures, the reference offers all pertinent laboratory and imaging studies needed to confirm a diagnosis, with medication and management guidelines. This guide also describes the most common procedures you will learn during the pediatrics rotation, including foreign body removal, reduction of subluxed radial head, and administration of nebulizer treatments.A special chapter on management of urgent pediatric conditions, such as asthma exacerbation, head injuries, and fractures, is also included. Key Features: Provides a pocket-size overview of the PA pediatrics rotation Describes common clinical presentations, disease entities, and procedures Offers a step-by-step approach to diagnosis and treatment planning Includes clinical pearls throughout Reflects the 2019 NCCPA PANCE blueprint Includes two bonus digital chapters! Three guided case studies to reinforce clinical reasoning plus 25 rotation exam-

style questions with remediating rationales Other books in this series: The Physician Assistant Student's Guide to the Clinical Year: Family Medicine Internal Medicine Emergency Medicine Surgery OB-GYN Behavioral Health With prevalence figures close to 0.2% at birth and rising to 0.35% during adolescence, hearing loss is the most frequent sensory impairment in childhood. This silent handicap has to be actively sought for without delay as it will seriously interfere with the development of speech, language, cognitive and socio-emotional behavior. Objective physiological techniques (evoked potentials, oto-acoustic emissions, tympanometry) combined according to the cross-check principle allow early diagnosis. Objective testing yields invaluable information about the mechanism of the loss and the contribution of disruption of the neural code to the handicap. Among the acquired causes, cytomegalovirus (CMV) infections plays a major role and may take elusive forms. Aminoglycoside ototoxicity has a genetic determinant. Meningitis can lead to rapid endocochlear ossification prompting for rapid cochlear implantation. Genetic causes account for more than 60% of congenital hearing loss, new genetic causes being discovered at an amazing rate. The high number of genetic entities and their huge heterogeneity among them requires guidelines for requesting genetic testing when desirable. Several syndromes prone to request neuropediatricians'

attention as an early diagnosis followed by specific treatment can considerably limit the ensuing handicap. Whatever the type of assistive device fitted (amplifying hearing aid or cochlear implant) and the importance of associated handicaps, a multidisciplinary rehabilitation combined with educated parental commitment is necessary for optimal results.

Pediatric neurology presents so many challenges unique to young patients that it is in many ways a very different discipline from adult neurology. To help readers address these challenges, the Handbook of Pediatric Neurology uses a handy pocket format and streamlined organization to address the management of hospital- and clinic-based pediatric neurological work-up, diagnosis, and management. This practical handbook will appeal not only to pediatric neurologists, but also to pediatricians, adult neurologists and internal medicine physicians. • Timely coverage helps readers keep pace with the rapidly changing diagnostic tools, medications, and interventions. • Summary and outline format allows readers to access essential facts at a glance. • Practical organization presents each category of disorder, along with a focused differential diagnosis and clear management guidelines. • References provide guides to further investigation.

Confidently diagnose and manage primary neurologic disorders of childhood with

actionable, step-by-step assistance from Fenichel's Clinical Pediatric Neurology! A signs-and-symptoms-based approach - with consideration of each presenting symptom in terms of differential diagnosis and treatment - mirrors the way you would typically evaluate and manage a patient. A practical and well-organized introduction to pediatric neurology, this is an ideal resource for board exam preparation, office use, and reference during residency. Quickly identify the progression of each neurological disease. Extensive coverage clearly defines age at onset, course of illness, clinical features, and treatment options. Evaluate and manage even the most difficult neurodegenerative disorders-including those caused by inborn errors of metabolism - with the aid of differential diagnosis tables and treatment algorithms. Search crucial information at a glance. An organization by neurological signs and symptoms, together with a user-friendly, highly templated format allows for quick and easy reference. Rely on it anytime, anywhere! Access the full text and more at www.expertconsult.com. Discover the latest in pediatric neurology including important emerging topics such as new-generation pharmacological therapy for seizures and epilepsy, neuropathic pain, and auto-immune neurological disease; anti-NMDA antibody encephalopathy; diagnosis and management of neuro-psychogenic symptomatology; and assessment and management of chronic daily headaches. Readily identify the

more common and most treatable neurological disorders with the aid of highly templated chapters, and weighted differential diagnosis tables. Confidently overcome the clinical challenges you're likely to face with singular, authoritative guidance from Dr. J. Eric Piña-Garza - a longtime associate and protégé of Dr. Gerald Fenichel.

Taking a practical, easy-to-reference signs and symptoms approach, Fenichel's Clinical Pediatric Neurology, 8th Edition, provides a solid foundation in the diagnosis and management of primary neurologic disorders of childhood while bringing you fully up to date with recent developments in the field. It offers step-by-step, authoritative guidance that considers each presenting symptom in terms of differential diagnosis and treatment, reflecting real-life patient evaluation and management. Perfect for board exam preparation, office use, or residency reference, this well-organized, revised edition is an ideal introduction to this complex and fast-changing field. Includes a new chapter on genetics in relation to epilepsy, autism, and many neurometabolic disorders, with up-to-date coverage of genetic testing, diagnosis, and pharmacogenomics. Brings you up to date with the new definition of status epilepticus; new guidelines for Lennox Gastaut syndrome; new FDA-approved drugs for epilepsy, ADHD, dystonia, and more; new data on sudden infant death syndrome; and revised consensus criteria

which unifies the concepts of neuromyelitis optica (NMO) and neuromyelitis optica spectrum disorders (NMOSD). Defines age at onset, course of illness, clinical features, and treatment options for each neurological disease, all logically organized by neurological signs and symptoms in a highly templated format. Features weighted differential diagnosis tables and treatment algorithms that help you quickly identify the more common and most treatable neurological disorders, as well as evaluate and manage the most difficult neurodegenerative disorders, including those caused by inborn errors of metabolism. Shares the knowledge and experience of Dr. J. Eric Piña-Garza, MD, a longtime associate and protégé of Dr. Gerald Fenichel, and Dr. Kaitlin C. James, Medical Director of the Pediatric Epilepsy Monitoring Unit at Vanderbilt Children's Hospital.

This is the only comprehensive collection of algorithms which exclusively addresses hematologic and oncologic problems affecting neonates, children and adolescents. Examining clinical problems which challenge the pediatrician, general practitioner and family practice physician, each algorithm utilizes a concise, step-by-step approach based upon clues from the history, physical examination and laboratory studies. The algorithms addressing differential diagnosis clearly distinguish between the most common etiologies, those that are less frequent, and finally some that are rare but important to recognize. The 51

topics include evaluation of anemia, sickle cell anemia, thalassemia, hemolytic anemia, the bleeding child, thrombocytopenia and other platelet disorders, hemophilia, leukocyte disorders, leukemias, lymphadenopathy, splenomegaly, approaches to mass lesions in the mediastinum, abdomen, pelvis, bones and soft tissues as well as approaches to potential emergencies such as tumor lysis and superior vena cava syndromes. The oncology topics emphasize diagnostic approach and management of complications, and not the details of chemotherapy. All algorithms are presented with a page of explanatory notes and a list of selected reading. Pediatricians, family physicians and general practitioners will find this book very helpful in managing problems in their practices. Trainees in pediatric hematology will find it a useful tool in developing approaches to solve the problems they will encounter, and pediatric hematologists/oncologists will find it useful as a teaching tool.
Algorithms in Pediatric NeurologyJaypee Brothers,Medical Publishers Pvt. Limited
The fourth edition of classic resource has been completely rewritten and updated to give a full account of the many advances in the field. This book continues to be the only reference in paediatric neurology organized by 'chief complaint', making it extremely useful in the clinical environment. For every presenting symptom, clear algorithms

guide readers through evaluation and management, one step at a time. Defines each complaint by age at onset, course of illness, discriminating features, and treatment options Excellent preparation for Paediatric Neurology exams Includes a complete differential diagnosis for each presenting complaint, tabulated for easy reference Cross-references for disorders with diverse initial features allow fast access to relevant information Clearly designed algorithms allow readers to work through the complex area of neurodegenerative disorders Numerous new tables put up-to-the-minute data at the readers' fingertips The Headache chapter incorporates all of the latest drugs Bibliographical references incorporate new citations to a wide range of state-of-the-art sources

Teaches symptom-oriented approaches to the most common problems facing trainee neurologists, emphasising patient history and integrating evidence-based and experience-based strategies.

This book adopts a novel approach: procedures: instead of discussing the diagnostic categories of neurological syndromes, it focuses on the symptoms of common neurological presentations (especially in the emergency room or on the ward), and the diagnostic hypotheses that can be validated or rejected case by case as a result. Each chapter covers one of the main symptoms of emergencies in neurology – from transient consciousness disturbances to focal deficits, acute muscular disorders, respiratory insufficiency in neurological disorders, headaches, delirium, seizures and epileptic

status, para-and tetraplegia, and head trauma, to acute functional disorders – and includes tables and figures to allow readers to gain a quick and easy, yet comprehensive overview of the topic. The book guides readers through various scenarios generated by the onset of symptoms, the clinical tools for differential diagnostics, and the principles of acute and post-acute phase therapy, managed by decision algorithms supported by the most recent scientific evidence. The resulting precedural profile – created through the collaboration of over 80 specialists in neurology or other disciplines – makes this text a valuable tool for neurologists, neurology residents and allied professionals in their daily clinical practice, as well as medical students.
This book aims to simplify and demystify some of the common problems in pediatric neurology especially encountered by the general pediatricians and pediatric students (both undergraduates and postgraduates). It tries to describe a practical approach towards the diagnosis and treatment of various neurological conditions which would prove extremely useful in day to day clinical practice. This book, titled Algorithms in Pediatric Neurology intends to enable the ordinary pediatrician to recognize many disorders in a simplified manner and give practical suggestions in their management. These algorithms are based on the concept of listening, watching and thinking before initiating treatment. Pediatric neurology has come a long way. There was a time when a pediatrician's best advice was to tell the parents to simply wait and let the child

outgrow his problems. Today magnetic resonance imaging, genetics and basic science related to the understanding of complex illnesses have changed the way we handle these problems. However, the clinical approach to most problems can be further simplified. It is in the larger good of empowering the general pediatrician and student of pediatrics to try to look at and understand pediatric neurology problems.

Porter's Pocket Guide to Pediatrics, Fourth Edition is ideal for pediatric nurses and other healthcare professionals caring for children. This resource contains all of the key clinical information they need at their fingertips including medications, instant doses, cardiology, neurology, pediatrics, drug compatibility, laboratory values, vision screener, and useful appendices. Key Features: PALS & NRP algorithms, instant pediatric doses, highlights crucial medications, covers Cardiology, Neurology, Emergencies Instantly interprets ABG results With nearly 500,000 copies in print, the Porter's Pocket Guide Series is well-known in the nursing field and includes Porter's Pocket Guide to Nursing, Porter's Pocket Guide to Pediatrics, and Porter's Pocket Guide to Emergency & Critical Care. Each title is a succinct portrait of the key clinical information nurses and health professionals need. Porter's Pocket Guides have been an indispensable reference to healthcare professionals and institutions for over 15 years.

Algorithms in Pediatrics uses an algorithm-based approach to various paediatric disorders. Every section presents algorithms based on patient history, physical examination, and laboratory studies, using a step-by-step approach. Clinical evaluation,

diagnosis, treatment and management are also included, with clinical pearls throughout and key points at the end of each section, making this an ideal resource for post-graduates and paediatricians.

Part of the "What Do I Do Now?" series, Pediatric Neurology uses a case-based approach to cover common and important topics in the diagnosis and treatment of neurologic conditions in children. Each chapter provides a discussion of the diagnosis, key points to remember, and selected references for further reading. For this edition, the table of contents has been reorganized, and all cases and references have been updated. New cases have been added including: Charcot Marie Tooth, NMDA Receptor AB Encephalopathy, Guillain Barre Syndrome, Transverse Myelitis, Tics/Tourette Syndrome, Conversion Disorder, Chronic Daily Headache, and Chiari I Malformation. Pediatric Neurology is an engaging collection of thought-provoking cases which clinicians can utilize when they encounter difficult patients. The volume is also a self-assessment tool that tests the reader's ability to answer the question, "What do I do now?"

The fundamental goal of the revised edition of this acclaimed text is to provide comprehensive, practical, and straightforward information about the developing nervous system that is as relevant to those embarking on careers in pediatric neurology as it will be to the experienced practitioner who cares for infants, children, and adolescents. New to this edition are chapters on tumors of the nervous system, autism and related

conditions, and practice parameters in child neurology.

Clinical Pediatric Neurology, 6th Edition, by Gerald M. Fenichel, MD, offers you highly practical assistance in diagnosing and managing the primary neurologic disorders of childhood. Simply look up the presenting symptoms, and you'll be guided step by step through evaluation and management! Thorough coverage for each neurological disease clearly defines age at onset, course of illness, clinical features, and treatment options. Differential diagnosis tables and treatment algorithms expedite clinical decision making. And now, you can also rapidly consult the book from any computer at expertconsult.com! Thorough coverage for each neurological disease clearly defines age at onset, course of illness, clinical features, and treatment options. Differential diagnosis tables and treatment algorithms lead you through the evaluation and management of even the most difficult neurodegenerative disorders, including those caused by inborn errors of metabolism. An organization by body system, together with a user-friendly, highly templated format, makes reference quick and easy. Online access at expertconsult.com allows you to rapidly and efficiently reference the complete contents of the book from any computer. Updated clinical treatment strategies throughout equip you with the most current drugs and dosages. New bulleted "Key Points" summaries present crucial information at a glance. A new two-color interior design greatly enhances the readability of differential diagnosis and treatment algorithms.

Comprehensive and accessible, Pediatric Neurology is the first reference designed for trainees and nonspecialists in search of targeted information on the diagnosis and management of neurologic conditions in children. Providing a broad window on the primary disorders seen in childhood, this book interweaves the expertise of field leaders from top national institutions to

concisely distill the foundations of clinical pediatric neurology. Complete with up-to-date disease guidelines and evidence-based treatment recommendations, this book serves as a starting point for physicians and other health professionals who wish to delve into fundamentals of current pediatric neurology practice. Beginning with an overview of the clinical assessment of infants and children, the book features dedicated chapters to all major disorders and conditions likely to be encountered in the pediatric population. Chapters include current information on epidemiology, clinical manifestations, diagnosis, and approaches to management for each condition in addition to tables summarizing key takeaways and detailed illustrations. Using plain language and a clear presentation of information throughout, the book is packed with the clinical wisdom needed for tackling such a complex field. With special emphasis on essential patient care concepts, Pediatric Neurology is the trusted resource for residents, general neurologists, pediatricians, medical students, and other practitioners who care for children and adolescents with neurological disease. Key Features: Introduces the foundations of clinical pediatric neurology Multi-purpose resource for point-of-care use, clinical rotations, or board preparation Organized by disease category to enhance accessibility and retrieval of key information Features chapters written by leading educators and clinicians in the field Incorporates up-to-date disease guidelines, latest FDA-approved drugs, and evidence-based treatment recommendations

Since 1975, Dr. Kenneth Swaiman's classic text has been the reference of choice for authoritative guidance in pediatric neurology, and the 6th Edition continues this tradition of excellence with thorough revisions that bring you fully up to date with all that's new in the field. Five new sections, 62 new chapters, 4 new editors, and a reconfigured format make this a

comprehensive and clearly-written resource for the experienced clinician as well as the physician-in-training. Nearly 3,000 line drawings, photographs, tables, and boxes highlight the text, clarify key concepts, and make it easy to find information quickly. New content includes 12 new epilepsy chapters, 5 new cerebrovascular chapters, and 13 new neurooncology chapters, as well as new chapters on neuroimmunology and neuromuscular disorders, as well as chapters focused on clinical care (e.g., Counseling Families, Practice Guidelines, Transitional Care, Personalized Medicine, Special Educational Law, Outcome Measurements, Neurorehabilitation, Impact of Computer Resources, and Training Issues). Additional new chapters cover topics related to the developmental connectome, stem cell transplantation, and cellular and animal models of neurological disease. Greatly expanded sections to increase your knowledge of perinatal acquired and congenital disorders, neurodevelopmental disabilities, pediatric epilepsy, and nonepileptiform paroxysmal disorders and disorders of sleep. Coverage of new, emerging, or controversial topics includes developmental encephalopathies, non-verbal learning disorders, and the pharmacological and future genetic treatment of neurodevelopmental disabilities.

This book is an accessible tool for practising and trainee paediatric neurologists. It aids diagnosis and patient management in child neurology, with a rational and efficient approach to assessment, investigation and treatment. It contains important reference material and reflects real life situations.

Malformations of cortical development, especially focal cortical dysplasia in infants and children, and hippocampal sclerosis in adolescents with epilepsy are frequent lesions, but they are overlooked on standard MRI. In infants, errors in the interpretation of MRI in epilepsy can

be attributed to MRI signal changes due to ongoing myelination. Poor technique, perceptual misses, incomplete knowledge and poor judgment are, however, other likely sources of errors when reading MRIs. This review covers MRI search strategies, i.e., how to conduct MRI examinations in epilepsy and what to expect in the structural MRI of an infant or child with focal epilepsy. Exploiting increased sensitivity, false positive results can be avoided in the light of a clinical hypothesis, possibly isolating a localized brain area by seizure semiology, EEG, and sometimes PET prior to MR reading.

Cortical generators of epileptic and certain physiological activity can be localized noninvasively by magnetoencephalography (MEG). MEG detects weak magnetic fields produced by the postsynaptic currents of pyramidal cortical cells in sulcal walls. Unlike EEG, MEG signals are not distorted by edema or bone defects, and unlike fMRI, abnormal hemodynamics do not alter the MEG. The patient's head is centered inside a helmet housing over a hundred magnetic field sensors. Cortical generators of MEG signals are determined with a useful spatial resolution and an excellent time resolution, which enable tracking of brain activity in successive points of, for example, an epileptic network. MEG sources can be co-registered and visualized on magnetic resonance images (MRI). MEG is highly sensitive for the detection of interictal epileptic discharges, and present techniques allow some degree of head movements enabling ictal recordings also. MEG is also useful for localizing the somatosensory, visual, and language areas before tailored surgery in the vicinity of eloquent cortex. In conjunction with other noninvasive modalities MEG provides nonredundant data in one-third of epilepsy surgery patients. Clinical MEG utilization is mainly focused on presurgical localization of the epileptogenic zone and eloquent cortex in epilepsy surgery candidates, including patients with

Landau–Kleffner syndrome. However, MEG is also an excellent noninvasive tool to study the source distribution in childhood epilepsy syndromes and epileptic encephalopathies.

The child is neither an adult miniature nor an immature human being: at each age, it expresses specific abilities that optimize adaptation to its environment and development of new acquisitions. Diseases in children cover all specialties encountered in adulthood, and neurology involves a particularly large area, ranging from the brain to the striated muscle, the generation and functioning of which require half the genes of the whole genome and a majority of mitochondrial ones. Human being nervous system is sensitive to prenatal aggression, is particularly immature at birth and development may be affected by a whole range of age-dependent disorders distinct from those that occur in adults. Even diseases more often encountered in adulthood than childhood may have specific expression in the developing nervous system. The course of chronic neurological diseases beginning before adolescence remains distinct from that of adult pathology – not only from the cognitive but also motor perspective, right into adulthood, and a whole area is developing for adult neurologists to care for these children with persisting neurological diseases when they become adults. Just as pediatric neurology evolved as an identified specialty as the volume and complexity of data became too much for the general pediatician or the adult neurologist to master, the discipline has now continued to evolve into so many subspecialties, such as epilepsy, neuromuscular disease, stroke, malformations, neonatal neurology, metabolic diseases, etc., that the general pediatric neurologist no longer can reasonably possess in-depth expertise in all areas, particularly in dealing with complex cases. Subspecialty expertise thus is provided to some trainees through fellowship programmes following a general pediatric neurology residency and

many of these fellowships include training in research. Since the infectious context, the genetic background and medical practice vary throughout the world, this diversity needs to be represented in a pediatric neurology textbook. Taken together, and although brain malformations (H. Sarnat & P. Curatolo, 2007) and oncology (W. Grisold & R. Soffietti) are covered in detail in other volumes of the same series and therefore only briefly addressed here, these considerations justify the number of volumes, and the number of authors who contributed from all over the world. Experts in the different subspecialties also contributed to design the general framework and contents of the book. Special emphasis is given to the developmental aspect, and normal development is reminded whenever needed – brain, muscle and the immune system. The course of chronic diseases into adulthood and ethical issues specific to the developing nervous system are also addressed. A volume in the Handbook of Clinical Neurology series, which has an unparalleled reputation as the world's most comprehensive source of information in neurology International list of contributors including the leading workers in the field Describes the advances which have occurred in clinical neurology and the neurosciences, their impact on the understanding of neurological disorders and on patient care

Recognizing patterns of disease can be the first step to successful management of the child with a neurological problem; this is emphasized by the authors throughout the book. Their concise, precise account reflects the remarkable recent advances in pediatric neurology and related disciplines, while stressing the fundamentals of clinical examination and history taking in reaching an accurate diagnosis. The book begins with a detailed discussion of neurological examination techniques and the basic formulation of differential diagnoses and management,

using neuroradiology, electrophysiology, cerebrospinal fluids, genetic and metabolic testing. The second section of the book follows a problem-based approach, just as diseases present in the real world. It employs practical, symptom- and sign-based strategies for virtually all conditions encountered by the practitioner. The final section on neurological emergencies recognizes that such conditions present first to someone other than a pediatric neurologist. This new color handbook is illustrated throughout by a wealth of top-quality clinical photos and imaging, and is of interest to pediatric neurologists, general pediatricians, primary care physicians and emergency physicians, in training and practice.

Berman's Pediatric Decision Making uses an algorithmic, structured approach to lead you to the right diagnosis and treatment every time. Drs. Lalit Baja, Simon Hambidge, Ann-Christine Nyquist, and Gwendolyn Kerby use evidence-based research and flow charts for each presenting complaint or specific disorder to provide quick access to the information you need for effective decision making. With updated drug tables and revised algorithms, this streamlined new edition makes it even easier for you to diagnose and manage common clinical problems from infancy through adolescence. Rapidly access guidance on diagnosis and management from algorithms for each clinical disorder. Treat the full range of diseases and disorders with comprehensive coverage of diagnosis, assessment of severity, and clinical management. Choose the best treatment for each case thanks to indications for surgical interventions as well as expensive diagnostic procedures Stay current on recent developments and make effective decisions for movement disorders, physical abuse in children, sexual abuse in

children, eating disorders, ADHD, and other hot topics. Find answers quickly and easily with a new table of contents organized into two sections—Presenting Complaints and Specific Disorders—that reduces the need to flip between chapters. Tap into the diverse perspectives of expert authors from all over the country. Get only the information you need in the streamlined new edition with shorter, more user-friendly flow diagrams and fewer specialized chapters.

Taking a practical, easy-to-reference signs and symptoms approach, Fenichel's Clinical Pediatric Neurology, 8th Edition, provides a solid foundation in the diagnosis and management of primary neurologic disorders of childhood while bringing you fully up to date with recent developments in the field. It offers step-by-step, authoritative guidance that considers each presenting symptom in terms of differential diagnosis and treatment, reflecting real-life patient evaluation and management. Perfect for board exam preparation, office use, or residency reference, this well-organized, revised edition is an ideal introduction to this complex and fast-changing field. Includes a new chapter on genetics in relation to epilepsy, autism, and many neurometabolic disorders, with up-to-date coverage of genetic testing, diagnosis, and pharmacogenomics. Brings you up to date with the new definition of status epilepticus; new guidelines for Lennox Gastaut syndrome; new FDA-approved drugs for epilepsy, ADHD, dystonia, and more; new data on sudden infant death syndrome; and revised consensus criteria which unifies the concepts of neuromyelitis optica (NMO) and neuromyelitis optica spectrum

disorders (NMOSD). Defines age at onset, course of illness, clinical features, and treatment options for each neurological disease, all logically organized by neurological signs and symptoms in a highly templated format. Features weighted differential diagnosis tables and treatment algorithms that help you quickly identify the more common and most treatable neurological disorders, as well as evaluate and manage the most difficult neurodegenerative disorders, including those caused by inborn errors of metabolism. Shares the knowledge and experience of Dr. J. Eric Piña-Garza, MD, a longtime associate and protégé of Dr. Gerald Fenichel, and Dr. Kaitlin C. James, Medical Director of the Pediatric Epilepsy Monitoring Unit at Vanderbilt Children's Hospital. Enhanced eBook version included with purchase. Your enhanced eBook allows you to access all of the text, figures, and references from the book on a variety of devices.

This book is a complete guide to paediatric neurology for clinicians. Beginning with an overview of potential pitfalls in neurological examination of children, the following chapters discuss the diagnosis and management of numerous neurological disorders that may be encountered in daily paediatric practice. Topics covered include cerebral palsy, Guillan-Barré Syndrome, febrile seizures, muscle disorders, cerebral edema, epilepsy, neurogenic bladder dysfunction and much more. Each section is presented with an emphasis on the importance of accurate clinical examination, and covers all the latest developments and management strategies. The comprehensive text is highly

illustrated with clinical images and diagrams to enhance learning. Key Points Comprehensive guide to paediatric neurology Covers diagnosis and management of numerous disorders with emphasis on importance of accurate clinical examination Includes discussion on potential pitfalls in neurological examination of children Highly illustrated with clinical photographs and diagrams

Written by residents for residents, Pocket Neurology, 2nd Edition is your go-to resource for essential neurologic information in a high-yield, easy-to-use format. Concise and well organized, it provides must-know information on hospital- and clinic-based neurologic workup, diagnosis, and management. The second edition of this pocket-sized bestseller delivers highly relevant adult neurologic coverage in an easily portable source. Find what you need quickly and easily with concise text, numerous tables, and bulleted lists throughout. Progress logically from neurologic signs and symptoms to differential diagnosis, workup and diagnosis, assessment of risks and benefits of available treatments, to treatment and prognosis. Focus on the most important, highly relevant facts thanks to a, streamlined presentation that allows for more algorithms, tables, diagrams, and images. Stay up to date in every area of neurology with significantly revised chapters on stroke, epilepsy, dementia, and MS, and more drug dosing information regarding inpatient care. Consult this high-yield handbook by clinical presentation, such as coma, stroke, headaches, and seizures, or by special topic, such as neuroimaging, behavioral neurology, and sleep medicine. Learn from neurology

residents and beginning neurology fellows in collaboration with attending neurologists at the Massachusetts General Hospital, Brigham and Women's Hospital, Children's Hospital Boston, and Beth Israel Deaconess Medical Center.

This book is a comprehensive guide to the diagnosis and management of diseases and disorders in children and adolescents. Beginning with a chapter on the newborn, the next sections provide step by step discussion on growth and development, nutrition, and immunisation, followed by a chapter on infectious diseases. Presented in algorithm-format for ease of understanding, each of the subsequent sections details the management of disorders in a different system of the body, covering both common and more complex cases seen in day to day practice. The text concludes with chapters on paediatric surgery and World Health Organisation (WHO) standard algorithms. Key points Comprehensive guide to diagnosis and management of paediatric diseases and disorders Covers common and more complex cases in all systems of the body Includes section on paediatric surgery Provides discussion on World Health Organisation standard algorithms

There has been important progress in the identification of antiepileptic compounds and their indications in children over the past 15 years: their number has doubled and specific pediatric trials are being performed to document their effect according to seizures and syndromes as well as their tolerability in pediatrics. The improved understanding of pharmacokinetics and drug–drug interactions has helped to optimize

treatment. Specific issues specific of infants have also been studied although new antiepileptic drugs are still dramatically lacking for this age group. Before reaching a syndromic diagnosis, the choice of a first- line agent goes to compounds with the largest range of efficacy and least identified risks. Subsequent choices are mainly based on the epilepsy syndrome and seizure type in addition to good clinical practice to determine dose, adverse effect profile, risk of aggravating seizures and drug interactions, clinician's experience, cultural habits, and availability of drugs. If there are several options, preference is given to the compound that exhibits the best risk/benefit ratio, or the most rapid titration when seizure frequency is the major issue. For new antiepileptic compounds, price is often a limiting factor in countries with poor insurance coverage. Third generation anti-epileptic drugs are emerging which also seem to be promising.

Confidently diagnose and manage primary neurologic disorders of childhood with actionable, step-by-step assistance from Fenichel's Clinical Pediatric Neurology! A signs-and-symptoms-based approach - with consideration of each presenting symptom in terms of differential diagnosis and treatment - mirrors the way you would typically evaluate and manage a patient. A practical and well-organized introduction to pediatric neurology, this is an ideal resource for board exam preparation, office use, and reference during residency. Quickly identify the progression of each neurological disease. Extensive coverage clearly defines age at onset, course of illness, clinical

features, and treatment options. Evaluate and manage even the most difficult neurodegenerative disorders—including those caused by inborn errors of metabolism – with the aid of differential diagnosis tables and treatment algorithms. Search crucial information at a glance. An organization by neurological signs and symptoms, together with a user-friendly, highly templated format allows for quick and easy reference. Rely on it anytime, anywhere!

Neuromuscular disorders are diagnosed across the lifespan and create many challenges especially with infants, children and adolescents. This new edition of the definitive reference, edited by the established world renowned authorities on the science, diagnosis and treatment of neuromuscular disorders in childhood is a timely and needed resource for all clinicians and researchers studying neuromuscular disorders, especially in childhood. The Second Edition is completely revised to remain current with advances in the field and to insure this remains the standard reference for clinical neurologists and clinical research neurologists. The Second Edition retains comprehensive coverage while shortening the total chapter count to be an even more manageable and effective reference. Carefully revised new edition of the classic reference on neuromuscular disorders in infancy, childhood and adolescence. Definitive coverage of the basic science of neuromuscular disease and the latest diagnosis and treatment best practices. Includes coverage of clinical phenomenology, electrophysiology, histopathology, molecular genetics and protein chemistry

This book, which will hold global appeal, adopts a problem-based approach to childhood disorders of the nervous system with the aim of supporting practicing child neurologists, pediatricians, and residents in training in their management of children with neurological disorders. Throughout, the practical assistance that it offers is based firmly on the best available current scientific evidence. The various pediatric neurologic diseases and organ systems are covered by pediatric neurologists and scientists from leading university hospitals and health centers in both the developed and the developing world. In addition to the full range of more frequent disorders, the book spans the neurological aspects of neglected tropical diseases and neurogenetic diagnostic and management algorithms utilizing the power of emerging DNA technology. A further feature is the inclusion of didactic videos relating to epileptic and movement disorders. As an open access publication with a strong clinical focus, the book will be a handy and valuable reference and resource for all practitioners who deal with childhood neurological disorders.

This new edition fills an important gap in the literature by providing a concise treatment of pediatric neurology that focuses on the most commonly seen diseases with clinical guidelines that help today« busy practitioner find answers quickly. The book is divided into three sections starting with the tools required for a pediatric neurologic evaluation, then moving through classic disease states and disorders with the last section focusing on approaches to key clinical problems in children and adolescents. Each section is edited by the key opinion leaders in the field with dynamic features that get to the information quickly including: Tools for diagnosis Chapter opening outlines Disease "Features" tables "Pearls and Perils" boxes "Consider Consultation When« " boxes Selected annotated bibliographies Key Clinical

Questions

This book provides recommendations for evaluation and therapy in the area of acute pediatric neurology; these are presented didactically with frequent use of illustrations and algorithms. Chapters in the first part of the book discuss presenting symptoms of acute neurological conditions. The second part of the book covers major areas of acute pediatric neurology and each of these chapters has three key elements: description of presenting symptoms; recommended assessments; and recommended interventions. Acute Pediatric Neurology provides an accessible, clinically focused guide to assist physicians in the emergency ward or intensive care unit in decisions on diagnosis and therapeutic interventions in all major acute pediatric neurological diseases.

Medicine has, until recently, been slow to adapt to information technologies and systems for many reasons, but the future lies therein. Innovations in Data Methodologies and Computational Algorithms for Medical Applications offers the most cutting-edge research in the field, offering insights into case studies and methodologies from around the world. The text details the latest developments and will serve as a vital resource to practitioners and academics alike in the burgeoning field of medical applications of technologies. As security and privacy improve, Electronic Health Records and informatics in the medical field are becoming ubiquitous, and staying abreast of the latest information can be difficult. This volume serves as a reference handbook and theoretical framework for the future of the field.

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