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<tbody>
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<td>Boccardi</td>
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Manconi
Restless Legs Syndrome/Willis Ekbom Disease
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Treatment of Non-vitamin K Antagonist Oral Anticoagulants
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**Cranial Osteomyelitis**

**Diagnosis and Treatment**

This book is the first reference book covering exclusively all aspects of this challenging disease. It is designed to serve as a succinct appropriate resource for neurosurgeons, otorhinolaryngologists, neuroradiologists, researchers and infectious disease specialists with an interest in cranial infection. Cranial Osteomyelitis provides an in-depth review of knowledge of the management of skull osteomyelitis, with an emphasis on risk factors, causative pathogens, pathophysiology of dissemination, clinical presentations, neuroradiological findings and treatment modalities, medical and surgical. Sections on the prognosis and prevention of this illness are also included. The book will[...]
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**Hemorrhagic Stroke**

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**Atlas of Cranio-Cervical Junction and Cervical Spine Surgery**

This atlas documents current surgical approaches to the cranio-cervical junction and the cervical spine, providing step-by-step guidance on procedures and cervical spine stabilization techniques. Opening chapters present essential information on anatomy, depict pathologies with the aid of illustrative cases, describe the role of imaging techniques in patient evaluation, and discuss surgical instrumentation and patient positioning. The different techniques employed in this delicate anatomic region, including transnasal and transoral endoscopic approaches to the cranio-cervical junction and posterior and anterior approaches to the cervical spine, are then explained and illustrated with[...]
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**Movement Disorders Rehabilitation**

The aim of this book is to provide a comprehensive overview of the most important movement disorders and describe the rehabilitation tools available for each disease. The management of movement disorders is challenging since most of these diseases are not curable and hardly treatable. Many of the disorders are chronic or degenerative diseases, therefore patients develop motor complications that could improve with rehabilitation interventions. Movement Disorders Rehabilitation intends to serve as a practical guide on the field, attracting the interest of professionals and researchers on the fields of neurology, physical therapy, occupational therapy, speech therapy and other[...]
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Ischemic Stroke

G. D’Aliberti, M. Longoni, C. Motto, V. Oppo, V. Perini, L. Valvassori, S. Vidale

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stroke care and to differing types of hospital facility.

The coverage is completed by the inclusion of up-to-
Health Issues in Women with Multiple Sclerosis

M.K. Houtchens, D. Sadovnick (Eds.)

This book addresses specific concerns of females affected by multiple sclerosis, where women are disproportionately impacted by the disease. MS is an autoimmune disease of the central nervous system affecting young adults of reproductive age. This book presents the current understanding of genetic variables, hormonal influences, immunological milieu and neurological outcomes, discussing issues such as fertility, pregnancy management, and menopause, as well as end of life care and mortality in women with MS. With contributions by international experts, this interdisciplinary book will serve as a useful reference and guide for MS specialists, general neurologists, researchers, healthcare providers, and experienced researchers, pediatricians, neurologists, and neurosurgeons who provide the necessary information to enable performance of a procedure. [...] More on www.springer.com/978-3-7091-4856-3

Forthcoming

Handbook of Neuroendovascular Techniques

S.-N.H. Khan, A.J. Ringer

This handbook provides step-by-step instructions enabling even a novice in the field of interventional neuroradiology/endovascular neurosurgery to perform a procedure. It covers the breadth of mainstream endovascular techniques. This manual provides lucid, readily accessible and pertinent hands-on information. It focuses on practicalities such as technique, choice of equipment and rationale, contrast agents, medications, precise pre- and post-procedure management and management of complications. It does not elaborate on theoretical aspects of disease e.g., etiology, pathogenesis, statistics, etc. In essence, it
Cognitive Screening Instruments
A Practical Approach

This revised and updated second edition provides a practical and structured overview of some of the most commonly used and easily available cognitive screening instruments applicable in the outpatient clinic and bedside setting. It now includes additional chapters on AD8 and also methodological aspects of systematic cognitive screening instrument assessment from the Cochrane Dementia and Cognitive Improvement Group. Expert authors from around the world equip the reader with clear instructions on the usage of each screening instrument, its strengths and weaknesses, and the time required for administration. Rules on scoring are also provided, such as how to correct for variations in the...

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Electroceuticals
Advances in Electrostimulation Therapies

This book covers recent advances in the use of electrostimulation therapies in movement disorders, epilepsy, inflammatory bowel disease, memory and cognition, disorders of consciousness, foot drop, dysphagia, brain injury, headache, heart failure, hearing loss, and rheumatoid arthritis. It describes techniques such as vagus nerve stimulation, deep brain stimulation, and electrical stimulation of the pharyngeal nerve. Electroceuticals: Advances in Electrostimulation Therapies is aimed at clinicians and basic researchers in the fields of neurology, neurosurgery, cardiology and rheumatology.

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Long-Term Consequences and Management

Due to the fact that Restless Legs Syndrome/Willis-Ekbom Disease is usually a chronic condition, this book aims to provide physicians with the necessary tools for the long-term management of patients with RLS. The first part of the book addresses the various comorbidities and long-term consequences of RLS on life quality, sleep, cognitive, psychiatric and cardiovascular systems, while the second part focuses on the management of long-term treatment and the drug-induced complications in primary RLS and in special populations. Written by experts in the field, this practical resource offers a high-quality, long-term management of RLS for neurologists, sleep clinicians, pulmonologists and...

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Handbook of Relapsing-Remitting Multiple Sclerosis

This pocketbook is an evidence-based educational resource that provides a concise overview of diagnosis, treatment and long-term management of relapsing-remitting multiple sclerosis. An ideal clinical handbook for a wide range of medical professionals, this handbook includes international guidelines, clinically relevant clinical trial data, and an introduction to emerging therapies. Handbook of Relapsing-Remitting Multiple Sclerosis is a comprehensive overview of recent advances in this indication, enhanced by high quality figures and clinical images.

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This text addresses all aspects of patient evaluation and care. This includes new findings in imaging that provide a better understanding of the extent of the lesion as well as its relationship with critical neuroanatomic function. The evolution of intraoperative imaging, functional brain mapping, and technology to identify tumor from brain is covered. This has significantly improved the ability of surgeons to more safely and aggressively remove tumors. More importantly, a better understanding of tumor biology and genomics has created an opportunity to significantly revise tumor classification and better select optimal therapy for individual patients. The text covers novel and... More on www.springer.com/978-3-319-49863-8

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Medical, Endovascular, and Surgical Techniques
This book approaches the topic of management of acute ischemic stroke in an interdisciplinary manner, explaining how best to utilize the methods currently available for medical, surgical, and endovascular care. After an opening section on basics such as pathophysiology, radiological assessment, and pathology, comprehensive and up-to-date information is provided on each of the available therapies, techniques, and practices. Special attention is paid to recent advances in neurointerventional and neurosurgical procedures, with clear description of important technical details. The book includes plentiful high-quality case illustrations and a wealth of practical information that will prove... More on www.springer.com/978-981-10-0964-8

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This book is an up-to-date, comprehensive review of the neuropsychiatry of epilepsy, by active authorities in the field, with an emphasis on clinical and management issues. A critical appraisal of the methodology and limitations of current research on the neuropsychiatry of epilepsy is provided, and unanswered questions and controversies are addressed. Pharmacological aspects of management are also discussed in order to enable the reader to manage these patients more safely. Neuropsychiatric Symptoms of Epilepsy is aimed at neurologists, epileptologists, psychiatrists and neuropsychiatrists, and will also be of interest to psychologists and neuropsychologists, research and specialist... More on www.springer.com/978-3-319-22158-8

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Neuropsychiatric Case Studies
This book comprises succinct, accessible clinical cases in neuropsychiatry. Each clinical case has a specific and practical learning point, concerned with assessment, diagnosis, treatment or general approach. Each case models clinical reasoning and shows how the 'puzzle' in the case changed the future practice of the author. Neuropsychiatric Case Studies is divided into sections relating to specific areas of neuropsychiatry, including dementias, movement disorders, autoimmune encephalopathies and epilepsy, amongst others. This book is aimed at trainee doctors in neurology and psychiatry and will also be of interest to fully trained doctors, nurses, psychologists and other... More on www.springer.com/978-3-319-42188-9

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This second edition of a successful book provides updated clinical and research knowledge, including information on the licensing of new antiepileptic drugs. All chapters are updated to reflect present accepted practice. New chapters highlighting the importance of the genetic aspects of epilepsy, non-pharmacological treatments, and the impact of epilepsy on families and carers have been added. Ongoing developments in the general population, which will more likely than not become relevant to the intellectually disabled population, are discussed. The impact of epilepsy on the person themselves and their carers is acknowledged, and person-centred treatment programs with a multifaceted... More on www.springer.com/978-3-319-49863-8
neuroethics, and the implications of those assumptions with respect to training and education programs, research activities, policy engagement, public discourse, teaching, ethics consultation and mentoring, to name but a few areas of interest. Internationally respected and emerging leaders in the area have taken up the pen to express and debate their views about the development, focus and future of neuroethics. They share their analyses and make recommendations regarding how neuroscience could more effectively explore and tackle [...] More on www.springer.com/978-3-319-54650-6

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A.Q. Rana, A.T. Ghouse, R. Govindarajan, MD

Neurophysiology in Clinical Practice

This handbook provides a concise up to date review in interpreting electroencephalography and electromyography using simple illustrations. The book has been divided into two sections. Section 1 describes electroencephalography and Section 2 discusses electromyography and nerve conduction studies. Each chapter has been carefully drafted to provide the most up to date accurate information in an easy to understand format interspersed with diagrams and tables where needed. This book is aimed at trainees doing their neurophysiology rotation, general neurologists, general practitioners, advanced practice providers and neurophysiology technicians.

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W. Struhal, H. Lahrmann, A. Fanciulli, G.K. Wenning (Eds.)

Bedside Approach to Autonomic Disorders
A Clinical Tutor

This book is a guide to the everyday clinical management of disorders of the autonomic nervous system, from identification of the key symptoms of autonomic involvement and comprehensive history taking to choice of treatment. The book will assist the reader in determining the anatomic distribution of the disease, as well as underlying autonomic syndromes, and in transforming the clinical picture into a coherent explanation of the patient’s autonomic problem. In addition, guidelines are provided on selection of the most appropriate autonomic and laboratory tests and formulation of appropriate non-pharmacological and pharmacological management strategies. With cases drawn from clinical [...] More on www.springer.com/978-3-319-05142-0

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A. Verdelho, M. Gonçalves-Pereira (Eds.)

Neuropsychiatric Symptoms of Cognitive Impairment and Dementia

This book is an up-to-date, comprehensive review of the neuropsychiatry of different types of cognitive impairment by active authorities in the field. There is an emphasis on diagnostic and management issues. Cognitive impairment both with and without criteria for dementia is covered. A critical appraisal of the methodological aspects and limitations of the current research on the neuropsychiatry of cognitive impairment and dementia is included. Unanswered questions and controversies are addressed. Non-pharmacological and pharmacological aspects of manage-
M.Y. Wang, A.A. Sama, J.S. Uribe (Eds.)

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This well-illustrated textbook is the first comprehensive and authoritative source of information on minimally invasive lateral access spine surgery. It covers all aspects of the subject, including patient selection, approach and monitoring techniques, soft tissue management, application in a variety of pathologies, technical nuances, and the prevention and management of complications. In addition, current controversies in the field are discussed and the biomechanics of lateral spinal reconstruction, the physiologic benefits, and cost implications are explained. As use of the lateral approach in spinal surgery has become more popular, so its diversity and complexity have increased.[...]

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