

Advances in Neurology

VOLUME 83

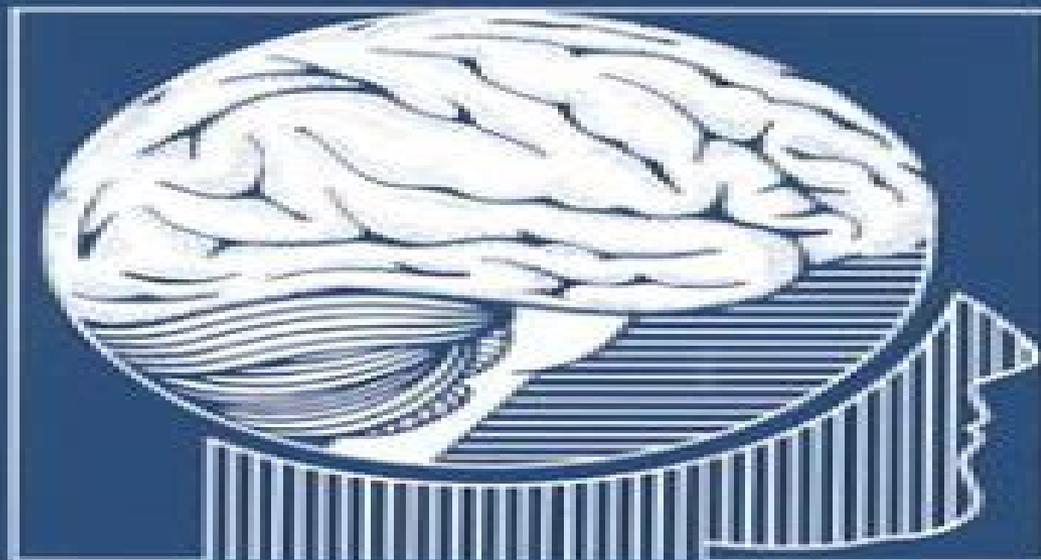
FUNCTIONAL IMAGING
IN THE EPILEPSIES

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Functional Imaging In The Epilepsies

David D. Maudgil



Functional Imaging In The Epilepsies:

Functional Imaging in the Epilepsies Thomas R. Henry, John S. Duncan, Samuel F. Berkovic, 2000 s functional imaging becomes more crucial in discovering and understanding the neurological nuances that trigger seizures one must be able to interpret the data that PET SPECT and functional MRI scans collect Functional Imaging in the Epilepsies a top notch text edited by international experts thoroughly explains the use of these modalities to pinpoint where and why seizures occur

Presurgical Assessment of the Epilepsies with Clinical Neurophysiology and Functional Imaging Felix Rosenow, Hans Lüders, 2004 The objective of resective epilepsy surgery is the complete resection or complete disconnection of the epileptogenic zone which is defined as the area of cortex indispensable for the generation of clinical seizures Ideally this aim should be accomplished without damaging the eloquent cortex The epileptogenic zone can currently not be measured directly Therefore a variety of diagnostic tools such as analysis of seizure semiology neurophysiological techniques functional testing as well as structural and functional neuroimaging are used to indirectly define the location and boundaries of the epileptogenic zone These diagnostic methods define different cortical zones symptomatogenic zone irritative zone ictal onset zone stimulation induced seizure zone functional deficit zone and the epileptogenic lesion which all are a more or less precise index of the location and extent of the epileptogenic zone The ability to precisely define these zones is essential to best appreciate the topography of the epileptogenic zone This volume provides an up to date and complete overview of the methods used in clinical neurophysiology as well as structural and functional imaging used to delineate these different zones currently as well as methods currently applied as research tools which may evolve to be used in clinical practice in the future

Imaging Biomarkers in Epilepsy Andrea Bernasconi, Neda Bernasconi, Matthias Koepp, 2019-01-10 Epilepsy is a prevalent and serious neurological disorder This vital textbook addresses the role of neuroimaging as a unique tool to provide in vivo biomarkers aimed at furthering our understanding of causes and consequences of epilepsy in a day to day clinical context Unique in its approach this translational book presents a critical appraisal of advanced pre clinical biomarkers that allows capturing epileptogenesis at molecular cellular and neuronal system levels The book is divided into four sections Part I includes a series of chapters focused on imaging of early disease stages Part II discusses lesion detection and network analysis methods Part III focuses on imaging methods used to predict response to antiepileptic drugs and surgery Finally Part IV presents imaging techniques used to evaluate disease consequence

Functional Brain Mapping of Epilepsy Networks: Methods and Applications David F. Abbott, John S. Archer, Patrick W. Carney, David N. Vaughan, Graeme D. Jackson, 2020-01-29 **Clinical Functional MRI** Christoph Stippich, 2007-12-27 Functional magnetic resonance imaging fMRI permits noninvasive imaging of the human brain at work under physiological conditions This is the first textbook on clinical fMRI It is devoted to preoperative fMRI in patients with brain tumors and epilepsies which are the most well established clinical applications By localizing and lateralizing specific brain functions as well as epileptogenic zones fMRI

facilitates the selection of a safe treatment and the planning and performance of function preserving neurosurgery State of the art fMRI procedures are presented with detailed consideration of the physiological and methodological background imaging and data processing normal and pathological findings diagnostic possibilities and limitations and other related techniques All chapters are written by recognized experts in their fields and the book is designed to be of value to beginners trained clinicians and experts alike

fMRI Stephan Ulmer,Olav Jansen,2020-05-11 This book now in its revised and updated third edition provides a state of the art overview of fMRI and its use in clinical practice Experts in the field share their knowledge and explain how to overcome diverse potential technical barriers and problems Starting from the very basics on the origin of the BOLD signal the book covers technical issues anatomical landmarks methods of statistical analysis and special issues in various clinical fields Comparisons are made with other brain mapping techniques and their combined use with fMRI is also discussed Existing chapters have been updated and new chapters have been added in order to account for new applications further clinical fields and methods e g resting state fMRI Based on the clinical focus this book will be of great value for Neuroradiologists Neurologists Neurosurgeons but also Researchers in Neuroscience

[Epilepsy Surgery and Intrinsic Brain Tumor Surgery](#) Konstantinos Fountas,Eftychia Z. Kapsalaki,2018-10-03 This book provides a comprehensive and practical guide for the safe and efficient management of patients with intrinsic brain tumors and medically intractable epilepsy It presents in an easily understandable way the preoperative evaluation of these patients starting from the clinical interpretation of conventional anatomical MR imaging and analyses the clinical significance of newer MR based imaging techniques such as diffusion and perfusion imaging It demonstrates with clarity the role of MR spectroscopy and fractional anisotropy and diffusion tensor imaging in the preoperative assessment of these patients and how this data can be incorporated into the surgical planning This book is aimed at neurosurgeons neuroradiologists neurologists and epileptologists and may also be of interest to neuropsychologists neurophysiologists radiation oncologists and medical physicists

Wyllie's Treatment of Epilepsy Elaine Wyllie,Gregory D. Cascino,Barry E. Gidal,Howard P. Goodkin,2012-02-17 In one convenient source this book provides a broad detailed and cohesive overview of seizure disorders and contemporary treatment options For this Fifth Edition the editors have replaced or significantly revised approximately 30 to 50 percent of the chapters and have updated all of them Dr Wyllie has invited three new editors Gregory Cascino MD FAAN at Mayo Clinic adult epileptologist with special expertise in neuroimaging Barry Gidal PharmD at University of Wisconsin a pharmacologist with phenomenal expertise in antiepileptic medications and Howard Goodkin MD PhD a pediatric neurologist at the University of Virginia A fully searchable companion website will include the full text online and supplementary material such as seizure videos additional EEG tracings and more color illustrations

Brain Imaging in Epilepsy David D. Maudgil,2003 Recent advances in functional neuroimaging have greatly enhanced our understanding of brain functionality through the ability to visualize brain processes at work Brain Imaging in Epilepsy provides an overview of

the techniques that have been developed including positron emission tomography PET single photon emission computed tomography SPECT functional magnetic resonance imaging fMRI diffusion weighted imaging DWI and magnetic resonance spectroscopy MRS Relevant features of the basic neuroscience of epilepsy are reviewed and the application of these techniques in diagnosing treating and developing new treatments for epilepsy is discussed This book will prove fascinating to a large audience from practicing neurologists and radiologists to junior doctors and students of medicine neuroscience and medical physics

Seizures and Epilepsy Jerome Engel,2013-01-31 This second edition of Seizures and Epilepsy is completely revised due to tremendous advances in the understanding of the fundamental neuronal mechanisms underlying epileptic phenomena as well as current diagnosis and treatment which have been heavily influenced over the past several decades by seminal neuroscientific developments particularly the introduction of molecular neurobiology genetics and modern neuroimaging This resource covers a broad range of both basic and clinical epileptology

Pediatric Epilepsy Michael Duchowny,Helen Cross,Alexis Arzimanoglou,2012-09-07 Market Neurologists and pediatricians Diagnostic and treatment algorithms appear throughout Includes sections on comorbidities and monotherapy vs polytherapy

Pediatric Epilepsy Surgery Oguz Cataltepe,George I. Jallo,2011-01-01 Written by internationally recognized authorities in pediatric epilepsy surgery this cutting edge book provides essential information about the preoperative assessment of and surgical approaches to the treatment of epilepsy in children The book opens with an overview of pediatric epilepsy followed by four main sections detailing preoperative assessment surgical approaches and techniques outcomes and recent promising advances The authors present numerous approaches for managing temporal lobe epilepsy and extratemporal lobe epilepsy and guide clinicians through various surgical techniques for hemispherectomy disconnection procedures neuromodulation and more Highlights Complete coverage of the selection of surgical candidates including young patients with congenital or early lesions Detailed discussion of the latest surgical techniques such as hippocampal transection cortical and deep brain stimulation and radiosurgery Comprehensive presentation of all major hemispherectomy and hemispherotomy techniques More than 100 illustrations including 85 in full color to elucidate key concepts Ideal for pediatric neurosurgeons epilepsy surgeons and pediatric epileptologists this authoritative text is also a valuable reference for clinicians residents and fellows in neurology neuroradiology neuropsychology and neurophysiology with an interest in pediatric epilepsy surgery

The Epilepsies Chrysostomos P. Panayiotopoulos,2005 This book gives an exhaustive account of the classification and management of epileptic disorders It provides clear didactic guidance on the diagnosis and treatment of epileptic syndromes and seizures through thirteen chapters complemented by a pharmacopoeia and CD ROM of video EEGs

Neuroimaging in Epilepsy Gregory Cascino,Clifford R. Jack,1996 A practical and well illustrated text on the techniques and procedures used in imaging in patients with epilepsy There exists no other textbook devoted solely to this topic The value of neuroimaging in patients with seizures is great Patients with partial or focal restricted to a certain portion of the brain require CT or MRI

scans to determine whether a brain lesion is associated with the epilepsy PET scans help to elucidate some of the metabolic changes that occur during seizures Evaluation and management of patients with epilepsy now routinely incorporate imaging techniques whether or not the patient undergoes surgery Drs Cascino and Jack have edited a highly illustrated and authoritative text on the topic They have enlisted internationally known authors from the US Canada England and Australia In addition the book is being published under the auspices of the Mayo Foundation

Magnetic Resonance in Epilepsy
Ruben Kuzniecky, Graeme D. Jackson, 2004-12-16 Remarkable advances in imaging have increased the importance of MRI for diagnostic treatment and management of epilepsy Neuroimaging of patients with epilepsy no longer simply deals with the technology and interpretation of images but also with issues of brain metabolism energetics cognition and brain dysfunction The first edition of Magnetic Resonance in Epilepsy came into clinical practice in 1995 with a revolutionary idea that is MR is as important as EEG in the clinical management of patients with epilepsy The second edition of Magnetic Resonance in Epilepsy the only comprehensive text in the field of epilepsy neuroimaging reviews fundamental concepts and new advances in MR technology computerized analysis MR spectroscopy DWI and other neuroimaging techniques such as PET SPECT and MEG application to the study of patients with epileptic disorders Provides a crucial update of recent advances in imaging techniques Timely publication as subject of neuroimaging is a very hot area in both clinical epilepsy and basic neuroscience research Editors are well respected in this field

Imaging of the Nervous System: 743-1776 Richard E. Latchaw, John Kucharczyk, Michael Eugene Moseley, 2005 A comprehensive account of the latest imaging techniques for both diagnosis and image guided therapy for the many diseases of the nervous system The book provides summary boxes and tables covering the classification of pathology key features of the disorder and differential diagnosis as well as essential color images An accompanying CD ROM features additional illustrations descriptions for a particular diagnosis or therapy and video clips of specific procedures

The Epilepsies Part 1 H. Meinardi, 1999-12-16 An excellent stand alone reference book which will assist the busy neurologist to quickly find essential information and with sufficient depth to take well informed decisions in clinical practice The book addresses one of the most prevalent neurological disorders the epilepsies The classification of the epilepsies and epileptic seizures as accepted by the International League Against Epilepsy is presented by a prominent member of the responsible commission After an overview of the epidemiology the basic mechanisms of epileptogenesis are discussed In a handbook the emphasis is on aspects of differential diagnosis auxiliary diagnostic procedures and treatment As one of the problems that faces the neurologist is the distinction between the syndromes that have been recognized and incorporated in the international classification each is allocated a chapter Although many epilepsies are of idiosyncratic or cryptogenic origin a special section is devoted to aetiological factors The treatment section not only deals with pharmacotherapy but also with surgical treatment psycho social rehabilitation and the treatment of associated psychiatric disorders The contents of this volume have been screened to contain as much as possible established facts and the least

possible speculative matter An exception has been made for the developments in the relatively new field of assessment of the impact of epilepsy and its treatment on quality of life

Neuroimaging G. Reid Lyon, Judith M. Rumsey, 1996 Written in an easy to read style this resource is designed to help individuals not familiar with neuroimaging to understand the clinical utility of different procedures and their clinical applications to specific and related disorders

Epilepsy Jong Rho, Raman Sankar, Carl E. Stafstrom, 2010-06-18 Epilepsy has afflicted humankind throughout recorded history yet it is only in the last half century that significant progress has been made in our basic understanding of the epileptic brain Pivotal advances in drug development and surgical techniques as well as the emergence of innovative approaches such as electrical stimulation of the nerve

The Epilepsies 2 David Chadwick (Neurologist), 1997 For neurologists and other physicians who encounter neurologic disorders a practical reference on the advances in understanding the various forms of epilepsy since the first volume was published a decade ago Among the innovations are magnetic resonance imaging as a nearly routine diagnostic evaluation of difficult cases a series of new anti epileptic drugs and a continuing expansion of knowledge about the basic mechanisms involved Other topics include the new genetics partial epilepsy syndrome in adults benign and malignant syndromes of childhood epilepsy non epileptic seizures pregnancy and specialized care centers The series is renamed from the BIMR Neurology series itself a successor to the Modern Trends in Neurology series Annotation copyrighted by Book News Inc Portland OR

Unveiling the Power of Verbal Artistry: An Mental Sojourn through **Functional Imaging In The Epilepsies**

In a global inundated with screens and the cacophony of instant interaction, the profound energy and mental resonance of verbal artistry usually fade in to obscurity, eclipsed by the constant barrage of sound and distractions. Yet, set within the musical pages of **Functional Imaging In The Epilepsies**, a captivating work of fictional beauty that pulses with natural thoughts, lies an wonderful journey waiting to be embarked upon. Written with a virtuoso wordsmith, this magical opus manuals readers on an emotional odyssey, lightly exposing the latent possible and profound impact stuck within the complicated web of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is key styles, dissect its charming publishing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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