

# Operative Techniques in Epilepsy Surgery

Gordon H. Baltuch  
Arthur Cukiert

Second Edition



# Operative Techniques In Epilepsy Surgery

**Hans Lüders, Youssef G. Comair**



## **Operative Techniques In Epilepsy Surgery:**

*Operative Techniques in Epilepsy Surgery* Gordon H. Baltuch, 2009 Practical coverage of the innovative surgical techniques for epilepsy *Operative Techniques in Epilepsy Surgery* is an essential guide to the latest techniques and therapeutic strategies for the surgical management of patients with epilepsy Distinguished pioneers in the field provide comprehensive coverage of the range of operative approaches helping clinicians to thoroughly prepare for surgery The book first discusses surgical planning and then presents techniques for cortical resection and various types of intraoperative mapping The final sections of the book describe innovative approaches such as neuromodulation and radiosurgery Features Guidelines from leading experts in the field of epilepsy surgery Detailed step by step descriptions of procedures including practical information on image guidance and invasive monitoring Discussion of innovative techniques including deep brain stimulation responsive stimulation and radiosurgery High quality illustrations that facilitate comprehension of surgical steps Ideal for neurosurgeons and trainees this book is an indispensable single volume source of information on all technical aspects of epilepsy surgery It also serves as a valuable reference for clinicians and residents in neurology and neuroradiology

*Operative Techniques in Epilepsy Surgery* Gordon H. Baltuch, Arthur Cukiert, 2019-11-07 An indispensable single volume resource on state of the art epilepsy procedures from renowned international experts Epilepsy is a common neurological disorder affecting an estimated 1% of the population about 20 to 30% of which experience seizures inadequately controlled by medical therapy alone Advances in anatomic and functional imaging modalities stereotaxy and the integration of neuronavigation during surgery have led to cutting edge treatment options for patients with medically refractory epilepsy *Operative Techniques in Epilepsy Surgery* Second Edition by Gordon Baltuch Arthur Cukiert and an impressive international group of contributors has been updated and expanded reflecting the newest treatments for pediatric and adult epilepsy Seven sections with 30 chapters encompass surgical planning invasive EEG studies cortical resection intraoperative mapping disconnection neuromodulation and further topics Twelve cortical resection chapters cover surgical approaches such as amygdalohippocampectomy hippocampal transection frontal lobe central region and posterior quadrant resections and microsurgery versus endoscopy for hypothalamic hamartomas Disconnection procedures discussed in section five include corpus callosotomy hemispherectomy and endoscopic assisted approaches Well established procedures such as vagus nerve and deep brain stimulation are covered in the neuromodulation section while the last section discusses radiosurgery for medically intractable cases Key Highlights Chapters new to this edition include endoscopic callosotomy laser induced thermal therapy LITT and focused ultrasound High quality illustrations superb operative and cadaver photographs radiologic images and tables enhance understanding of impacted anatomy and specific techniques The addition of videos provides insightful step by step procedural guidance This is an essential reference for fellows and residents interested in epilepsy and functional neurosurgery and an ideal overview for neurosurgeons neurologists and neuroradiologists in early career stages

who wish to pursue this subspecialty      **Operative Techniques in Epilepsy** John P. Girvin, 2014-12-05 This book describes the specific surgical techniques currently employed in patients with intractable epilepsy it also covers the relevant technical aspects of general neurosurgery All of the approaches associated with the various foci of epilepsy within the cerebral hemispheres are considered including temporal and frontal lobectomies and corticectomies parietal and occipital lobe resections corpus callosotomy hemispherectomy and multiple subpial incisions In addition an individual chapter is devoted to electrocortical stimulation and functional localization of the so called eloquent cortex The more general topics on which guidance is provided include bipolar coagulation with coverage of the physical principles strength of the coagulating current use of coagulation forceps the advantages of correct irrigation and use of cottonoid patties and all of the measures required during the performance of operations under local anesthesia The book is designed to meet the need for a practically oriented source of precise information on the operative procedures employed in epilepsy patients and will be of special value for neurosurgical residents and fellows      *Textbooks of Operative Neurosurgery ( 2 Vol.)* Ramamurthi, 2005 The first book to be published in this region it describes the scientific basis of the procedures as also their indications scope and limitations Alternative approaches available for various disease entities are included      *Epilepsy Surgery: A Practical Case-Based Approach* Aline Herlopian, Dennis Dee Spencer, Lawrence J. Hirsch, David King-Stephens, 2024-04-08 This collection of epilepsy surgical cases illustrates patients with straightforward and challenging pharmacoresistant epilepsy These cases convey the advancements investigative strategies past and modern surgical tools and sophisticated state of the art of epilepsy surgery and its disciplines This textbook is organized into four major sections that parallel the contemporary FDA approved and clinically applicable approaches resective surgery disconnection procedures laser therapy and neuromodulation The chapters provide a case based interactive and multidisciplinary integrative approach to pre operative evaluation data analysis and surgical decision making In addition we present alternative approaches to certain diagnostic tools decision making strategies and surgical interventions This textbook will provide trainees and clinicians with an exhaustive understanding of epilepsy surgery Moreover it will be an invaluable resource for preparation for the epilepsy board examination      **Surgical Techniques in Orthopaedics and Traumatology: Pelvic ring and hip** Jacques Duparc, 2003 In the 45 articles of this volume 90 distinguished European specialists describe the techniques to manage fractures dislocations congenital anomalies and other pathologies affecting the pelvic ring and hip Total hip replacement revision surgery and amputation are covered Variations complications clinical results and indications are discussed The surgical techniques are described step by step and illustrated by more than 900 drawings and photographs      **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

**Textbook of Epilepsy Surgery** Hans O. Luders, 2008-07-11 Textbook of Epilepsy Surgery covers all of the latest advances in the surgical management of epilepsy The book provides a better understanding of epileptogenic mechanisms in etiologically different types of epilepsy and explains neuronavigation systems It discusses new neuroimaging techniques new surgical strategies and more aggressive surgical approaches in cases with catastrophic epilepsies The contributors also analyze the improved statistics of surgical outcome in different epilepsy types This definitive textbook is an invaluable reference for neurologists neurosurgeons epilepsy specialists and those interested in epilepsy and its surgical treatment

**Techniques in Epilepsy Surgery** André Olivier, Warren W. Boling, Taner Tanriverdi, 2014-05-14 Reflecting the approach used at the Montreal Neurological Institute this book presents the surgical techniques applicable to intractable epilepsies

**Pediatric Epilepsy Surgery** Oguz Cataltepe, George I. Jallo, 2019-09-05 The definitive guide to surgical management of epilepsy in pediatric patients This fully revised and updated second edition of Pediatric Epilepsy Surgery edited by internationally renowned pediatric neurosurgeons and epilepsy surgery experts O uz ataltepe and George Jallo fills a void in the literature encompassing the full spectrum of topics related to the surgical treatment of intractable epilepsy and seizures in children The prodigiously illustrated book and its accompanying videos feature contributions from distinguished specialists in several different countries across a wide range of disciplines From epidemiology genetics pathology preoperative electrophysiological assessment and neuroimaging to state of the art surgical approaches this remarkable resource covers the full depth and breadth of surgical management of pediatric epilepsy Topics include awake anesthesia intracranial stimulation and mapping techniques temporal and extratemporal epilepsy surgery techniques insular multilobar and hemispheric surgery approaches and diverse disconnection neuromodulation and ablative procedures Insights are provided on postoperative issues including seizure control neuropsychological and psychosocial outcomes surgical failure and re operation and much more Key Features A review of topographic anatomy of the cerebral cortex and white matter with numerous illustrations provides enhanced understanding of eloquent anatomy Discussion of cutting edge techniques such as stereo electroencephalography multi modality imaging and tractography endoscopic and laser ablation approaches in hypothalamic hamartomas peri insular quadrantotomy and various hemispherotomy approaches Overview of common cortical stimulation and mapping techniques including magnetic and electrical stimulation modalities functional MRI and the WADA test 13 videos demonstrate seizure semiology stimulation awake surgery hemispherotomy amygdalohippocampectomy and

endoscopic corpus callosotomy This state of the art resource is a must have for epilepsy surgeons and epileptologists It will also greatly benefit neurosurgeons neurologists clinical neuropsychologists electrophysiologists neuroradiologists residents fellows and medical students involved in the assessment and surgical management of epilepsy in pediatric patients

**Techniques in Epilepsy Surgery** André Olivier, Warren W. Boling, Taner Tanriverdi, 2012-02-09 Techniques in Epilepsy Surgery presents the operative procedures used in the treatment of intractable epilepsy in a practical clinically relevant manner Founded by pioneering neurosurgeon Wilder Penfield the Montreal Neurological Institute MNI is a leading global centre of epilepsy surgery and this volume reflects the Institute s approach combining traditional techniques with modern neuronavigation based approaches There is an emphasis on mastering the important trilogy of topographic vascular and functional anatomy of the brain The basic anatomical and physiological mechanisms underlying epilepsy are presented in a practical manner along with the clinical seizure evaluation that leads to a surgical hypothesis The consultation skills and investigations necessary for appropriate patient selection are discussed as well as pitfalls and the avoidance of complications This is an invaluable resource not only for neurosurgeons neurosurgical residents and fellows in epilepsy surgery but also for neurologists and others who provide medical care for patients with intractable epilepsy *Operative Neurosurgical Techniques*, 1995

**The Surgical Management of Epilepsy** Allen R. Wyler, Bruce P. Hermann, 1994 Comprehensive reference covering all aspects of epilepsy surgery Contributions from 31 prominent international neurologists and neurosurgeons

*Greenberg's Handbook of Neurosurgery* Mark S. Greenberg, 2023-04-19 The fundamental one stop global resource for neurosurgical practice in updated 10th edition Unlike traditional medical textbooks the origins of the now legendary Handbook of Neurosurgery by Mark Greenberg took root in the late 1980 s in the notes the author kept while taking care of his patients from his weekly grand rounds presentations and in the literature he read Now in its 10th edition the book that is often referred to as the bible for neurosurgeons has grown organically over the years to include more topics of importance to those who provide healthcare to patients with neurologic ailments and to reflect advances in the understanding and management of the underlying conditions and diseases Throughout 23 sections and 116 chapters the generously illustrated text covers information ranging from pediatrics to geriatrics The comprehensive conveniently compact book provides detailed high value and actionable information that can be quickly accessed to enhance patient management thereby eliminating the need to wade through superfluous material It is also a perfect study companion for board examination and preparation for the maintenance of certification Key Features Updated classification and diagnostic criteria of central and peripheral nervous system tumors based on the most recent WHO classifications Reworking of numerous sections including current concepts in pseudotumor cerebri seizure classification and more Addition of new chapters including idiopathic scoliosis LOVA and tuberculosis of the CNS Current principles of nonsurgical and surgical management including risk factors indications diagnostics prognoses contraindications and differential diagnoses Nearly 500 figures

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**Epilepsy Surgery** Hans Lüders, Youssef G. Comair, 2001-01-01 The thoroughly revised and updated Second Edition of this landmark work is the most comprehensive and current reference on the surgical treatment of the epilepsies More than 100 invited experts from around the world present a global view of contemporary approaches to presurgical evaluation surgical treatment and postsurgical assessment This edition provides detailed information on the vital role of structural and functional neuroimaging in presurgical evaluation and surgical planning Noted experts offer up to date patient selection guidelines and explain current concepts of intractability The book details the most effective surgical techniques presents extensive data on surgical outcome and discusses strategies for preventing and managing complications More than 500 illustrations complement the text An appendix section includes protocols and outcome statistics from over 50 leading epilepsy surgery centers Schmidek & Sweet Operative Neurosurgical Techniques, 2006 **Surgical Treatment of**

**Epilepsy** Josef Zentner, Wolfgang Seeger, 2009-12-15 Surgery offers a highly efficient treatment option for patients with pharmaco-resistant epilepsies While most surgical procedures aim at curative treatment others have been designed for palliative purposes Although standardized procedures are available surgical techniques actually applied vary greatly However to date no comprehensive overview on different methods is available The book by Zentner and Seeger compensates for these shortcomings It comprises the wide spectrum of current procedures and provides a thorough description of surgical steps Moreover detailed information as to results and complications of different procedures is given Thus this book not only contains practical instructions for neurosurgeons but also enables neurologists and epileptologists to understand possibilities and limitations of epilepsy surgery and facilitates adequate consultation of patients and relatives *Youmans Neurological Surgery* H. Richard Winn, 2004 The first of the four volumes introduces approaches to the patient radiology fundamentals perioperative evaluation and treatment and surgical exposures and positioning and it covers oncology The second volume covers vascular disease and malformations and epilepsy the third functional neurosurgery pain and pediatric issues and the fourth the peripheral nerve radiation therapy and radiosurgery the spine and trauma Basic science in most cases is represented in its own chapter in each section so as to make the rest of the section chapters more clinical in focus

*Epilepsy Surgery*, 1992 This reference on the surgical treatment of the epilepsies presents a global view of contemporary approaches to presurgical evaluation surgical treatment and postsurgical assessment The contributors offer comprehensive

guidelines on patient selection and on use of new EEG techniques magnetoencephalography positron emission tomography SPECT and other diagnostic studies in presurgical evaluation The book details the most effective surgical techniques presents extensive data on surgical outcome and discusses strategies for preventing and managing complications

**Handbook of Neurosurgery** Mark S. Greenberg, 2019-10-23 The quintessential neurosurgical handbook for day to day practice Now in an updated ninth edition Handbook of Neurosurgery by Mark Greenberg is synonymous with the most classic neurosurgical handbook published to date It has enjoyed legendary status as the go to manual for legions of neurosurgeons for more than a quarter century The comprehensive and conveniently compact book brings together a wide range of clinical practice guidelines from disparate sources into an amazing one stop resource Renowned for its depth and breadth the updated text with nearly 1 800 pages encompasses the entire spectrum of neurosurgery including anatomy physiology differential diagnosis and current principles of nonsurgical and surgical management The text covers a huge scope of inherited developmental and acquired neurological disorders impacting pediatric to geriatric patients The easy to navigate print and electronic formats provide an intuitive foundation for studying the field of neurosurgery Key Features Boxed summaries key concepts tables practice guidelines signs symptoms and booking the case highlight and clarify salient points Thousands of well organized cross references index entries and literature citations provide additional study sources Significant revisions to the tumor section reflect a wealth of up to date information including treatments guidelines sources and more The addition of new figures enhances understanding of diseases As with prior editions this must have daily reference book does a magnificent job making essential neurosurgical information current trends breakthrough research and reviews readily accessible to all neurosurgeons and allied health practitioners



## **Operative Techniques In Epilepsy Surgery** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Operative Techniques In Epilepsy Surgery**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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