

Bomin Sun · Antonio De Salles *Editors*

Neurosurgical Treatments for Psychiatric Disorders



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Neurosurgical Treatments For Psychiatric Disorders

**Daniel Tarsy, Jerrold Lee Vitek, Philip
Starr, Michael Okun**



Neurosurgical Treatments For Psychiatric Disorders:

Neurosurgical Treatments for Psychiatric Disorders Bomin Sun, Antonio De Salles, 2014-11-19 This book describes contemporary clinical practice in the application of neurosurgical methods to the treatment of psychiatric disorders It covers diverse topics such as neuroimaging ethics and a historical review Gamma Knife and High Frequency Ultrasound ablation deep brain electrical stimulation and preoperative evaluation and postoperative follow up Its application in Obsessive Compulsive Disorder Major Depression Tourette syndrome Addiction Anorexia Aggression and Schizophrenia are discussed in separated chapters This book presents concise information provided by clinical and academic practitioners and will facilitate the application of neurosurgical treatment techniques to patients

Neurosurgical Management of Psychiatric Disorders, Part A ,2022-04-06 Neurosurgical Management of Psychiatric Disorders Part A Volume 266 the latest release in the Progress in Brain Research series highlights new advances in the field with this new volume covering interesting chapters including Pathophysiology and Animal Models of Psychiatric Disorders Neuroimaging of Psychiatric Disorders History of Psychosurgery Ethics of Psychosurgery Medicolegal Aspects and Regulatory Issues of Psychosurgery Psychiatric Mimics of Neurosurgical Disorders Seizures and Pseudoseizures The Great Divide Pitfalls of Psychiatric Patients Selection for Functional Neurosurgery Modern Surgical Strategies for Management of Psychiatric Disorders Neuromodulation for Behavioral Disorders and more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Progress in Brain Research series Updated release includes the latest information on the Neurosurgical Management of Psychiatric Disorders

Neurosurgical Management of Psychiatric Disorders, Part B ,2022-06-03 Neurosurgical Management of Psychiatric Disorders Part B Volume 267 in the Progress in Brain Research serial highlights new advances in the field with this new volume presenting interesting chapters on topics such as the Neurosurgical Management of Tourette Syndrome Stereotactic Surgeries for Opioid Addiction Patient Selection and Results Psychiatric Disorders as Indication for Surgical Management of Drug Resistant Temporal Epilepsy Surgery of Autism Is it Possible Psychogenic Pain Diagnosis and Management Stereotactic Cingulotomy and Capsulotomy for Obsessive Compulsive Disorders Indications and Comparative Results and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Progress in Brain Research serial Updated release includes the latest information on the Neurosurgical Management of Psychiatric Disorders

Deep Brain Stimulation in Neurological and Psychiatric Disorders Daniel Tarsy, Jerrold Lee Vitek, Philip Starr, Michael Okun, 2008-06-04 Chronic deep brain stimulation DBS has been a rapidly evolving area of neurotherapeutics since its initial introduction for the treatment of Parkinson s disease and essential tremor in the 1990s For these conditions DBS is now considered accepted therapy for patients failing to adequately respond to m ical treatment Since the 1990s new clinical indications anatomic targets and technologies have contributed to an expanding role for DBS in the treatment of other movement disorders such as dystonia

and Tourette syndrome as well as for other neurologic disorders such as epilepsy and cluster headache Early experience has also been reported for psychiatric syndromes such as obsessive compulsive disorder and depression Experience with DBS in psychiatric disorders is very limited but is reviewed in this volume as neuropsychiatric indications are expected to grow in coming years Because of the rapidly increasing application of DBS for neurologic and psychiatric indications and the recruitment of increasing numbers of neurologic neurosurgical and psychiatric clinicians to the field it is appropriate to provide a resource that updates the underlying scientific background describes methodologies and standards of treatment and provides information on new technologies essential for clinical success and to advance the field Deep Brain Stimulation in Neurological and Psychiatric Disorders begins with reviews of the functional anatomy and physiology of motor and nonmotor aspects of the basal ganglia and their connections which underlie the application of DBS to neurological and psychiatric disorders

Neurology 3 Edenilson Brandl, The human brain remains one of the most complex and intriguing frontiers of scientific exploration Advances in neurology and neuroscience continue to reshape our understanding of cognition disease and even the very nature of human identity This book aims to bridge the gap between fundamental neuroscience cutting edge medical research and the evolving landscape of neurotechnology As we delve into the intricate workings of neural networks disease pathology and innovative treatments we also explore the ethical and philosophical implications of emerging neurotechnologies The integration of artificial intelligence with neurology the possibilities of cognitive enhancement and the impact of neuroengineering are no longer the domain of science fiction but of present and future medical reality This book is intended for neurologists neuroscientists medical researchers and anyone passionate about the vast unfolding narrative of the human brain Through this journey we seek not only to understand the mechanisms of thought and disease but also to contemplate the broader implications of an interconnected future where biology and technology merge

Neurosurgery and Global Health Isabelle M. Germano, 2022-01-03 This book is a combination of ideas and experiences from over 100 dedicated and brilliant neurosurgeons around the world Their common goal is to provide data for a deeper understanding of the multifaceted aspects of neurosurgery and by doing so to better serve patients across the globe Scientific curiosity deep dedication incredible work ethics entrepreneurship and creativity are the common traits among all neurosurgeons and not the exception By allowing readers to see the field of neurosurgery from the perspectives of surgeons spanning five continents this book serves to provide multiple diverse viewpoints and to build a foundation for future collaborations The book's 24 chapters are organized into 3 parts Part I provides the reader with an overview of the role of neurosurgery in worldwide health care its evolution over the past decades the current state and future directions of each neurosurgical subspecialty across the five continents Over the years the overarching goal for neurosurgeons has been to develop new more effective and high end solutions for complex diseases and to provide access to neurosurgical services for all patients Part II discusses the differences and similarities of neurosurgery education and training across the globe

providing a snapshot of how new tools technology and paradigms reduce inequality and increase access to neurosurgical education Educational accomplishments and challenges still present for the in different regions of the world are reviewed Part III focuses on economic aspects influencing neurosurgery globally including how to make efficient decisions in the face of scarcity yet demand The authors provide theories models and tools helpful to apply when planning to allocate resources not just financial but also human and intellectual A deeper understanding of economics does not necessarily provide the answer to the problem rather it provides the tools to find an answer or ideally multiple possible solutions Neurosurgery and Global Health is the first comprehensive guide to the role of neurosurgery in the global health care sphere providing an in depth compendium about the understanding of the neurosurgical role within global health its efforts in the education of tomorrow s workforce and the economic aspects driving the field

Operative Neuromodulation Damianos E.

Sakas,Brian A. Simpson,2007-12-03 Neuromodulation is a rapidly evolving multidisciplinary biomedical and biotechnological field The two volumes present the state of the art in established and emerging applications for pain spasticity movement disorders bladder and bowel dysfunction cardiovascular disease epilepsy psychiatric illness impairment of hearing and vision and computational neuromodulation Experts describe the neural networks involved and the appropriate surgical approaches provide clinical guidelines technical descriptions of implanted devices proposals for refinements and personal views on future prospects of the field The immense therapeutic potential is highlighted which arises from the close collaboration of biomedical scientists and biotechnological engineers in this area and signifies the transition from the conventional resective surgery to functional neuroprosthetic surgery Vol I and neural networks surgery Vol II which uses neuro engineering to improve impaired neural function Vol 2 describes the techniques and procedures applied by direct a contact with the central nervous system or cranial nerves in order to modulate the function of neural networks as in the case of motor cortex stimulation for pain or vagus nerve stimulation for epilepsy or b in deeply located structures inside the nervous system in order to alter the function on specific networks as in the case of deep brain stimulation for Parkinson s disease

Textbook of Stereotactic and Functional Neurosurgery Andres M. Lozano,Andres M.. Lozano,Philip L. Gildenberg,Ronald R.

Tasker,2009-06-22 This volume covers stereotactic principles and functional stereotaxis Amongst the stereotactic principles are discussions of frame based and frameless systems of stereotaxis image guidance stereotaxis atlases and the technical aspects of radiosurgery Within functional neurosurgery disorders covered include the diagnosis and management of pain epilepsy movement disorders and the rediscovered field of surgery for psychiatric disorders

The Clinical and Ethical Practice of Neuromodulation - Deep Brain Stimulation and Beyond Markus Christen,Sabine Müller,2018-01-15

Neuromodulation is among the fastest growing areas of medicine involving many diverse specialties and affecting hundreds of thousands of patients with numerous disorders worldwide It can briefly be described as the science of how electrical chemical and mechanical interventions can modulate the nervous system function A prominent example of neuromodulation

is deep brain stimulation DBS an intervention that reflects a fundamental shift in the understanding of neurological and psychiatric diseases namely as resulting from a dysfunctional activity pattern in a defined neuronal network that can be normalized by targeted stimulation The application of DBS has grown remarkably and more than 130 000 patients worldwide have obtained a DBS intervention in the past 30 years most of them for treating movement disorders This Frontiers Research Topics provides an overview on the current discussion beyond basic research in DBS and other brain stimulation technologies Researchers from various disciplines who are working on broader clinical ethical and social issues related to DBS and related neuromodulation technologies have contributed to this research topic

Schmidek and Sweet: Operative Neurosurgical Techniques E-Book Alfredo Quinones-Hinojosa,2021-04-22 Schmidek and Sweet has been an indispensable reference for neurosurgery training and practice for nearly 50 years and the 7th Edition of Operative Neurosurgical Techniques continues this tradition of excellence A new editorial board led by editor in chief Dr Alfredo Quinones Hinojosa along with more than 330 internationally acclaimed contributors ensures that readers stay fully up to date with rapid changes in the field New chapters surgical videos and quick reference features throughout make this edition a must have resource for expert procedural guidance for today s practitioners Discusses indications operative techniques complications and results for nearly every routine and specialized procedure for brain spinal and peripheral nerve problems in adult patients Covers the latest techniques and knowledge in deep brain stimulation for epilepsy movement disorders dystonia and psychiatric disorders surgical management of blast injuries invasive electrophysiology in functional neurosurgery and interventional management of cerebral aneurysms and arterio venous malformations Includes new chapters on bypass techniques in vascular disease previously coiled aneurysms CSF diversion procedures surgical management of posterior fossa cystic and membranous obstruction laser ablation techniques and brain stem tumors Explores hot topics such as wide awake surgery and ventriculo peritoneal ventriculoatrial and ventriculo pleural shunts Provides detailed visual guidance with more than 1 600 full color illustrations and 50 procedural videos Contains quick reference boxes with surgical pearls and complications 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

Oxford Textbook of Neurological Surgery Ramez Kirollos,Peter Hutchinson,Adel Helmy,Simon Thomson,2019-09-05 Neurosurgery is a rapidly developing and technically demanding branch of surgery that requires a detailed knowledge of the basic neuro sciences and a thorough clinical approach The Oxford Textbook of Neurological Surgery is an up to date objective and readable text that covers the full scope of neurosurgical practice It is part of the Oxford Textbooks in Surgery series edited by Professor Sir Peter Morris The book is split into 20 overarching sections Principles of Neurosurgery Neuro oncology of Intrinsic Tumours Extra axial Tumours and Skull Lesions Cerebro Pontine Angle Tumours Sellar and Supra Sellar Tumours Posterior Fossa Tumours Pineal tumours Uncommon Tumours and Tumour Syndromes Neurotrauma and Intensive Care Vascular Neurosurgery Principles of Spinal

Surgery Spinal Pathology Spinal Trauma Peripheral Nerve Surgery Functional Neurosurgery Epilepsy Paediatric
 Neurosurgery Neurosurgery for Cerebrospinal Fluid Disorders and Neurosurgical Infection Each section takes a dual
 approach with Generic Surgical Management chapters that focus on specific clinical problems facing the neurosurgeon e g
 sellar supra sellar tumour Intradural Spina Tumours etc and Pathology Specific chapters e g Glioma Meningeal Tumours
 Scoliosis and Spinal Deformity Aneurysm etc Where appropriate this division provides the reader with easily accessible
 information for both clinical problems which present in a regional fashion and specific pathologies The generic chapters
 cover aspects such as operative approaches neuroanatomy and nuances Specifically each chapter in the book incorporates
 several strands Firstly the fundamental neuroscience anatomy pathology genetics etc that underlies the clinical practice
 Secondly a review of the requisite clinical investigations e g angiography electrodiagnostics radiology Thirdly a thorough
 evidence based review of clinical practice Following this a consideration of the key debates and controversies in the field
 with pro and con sections e g minimally invasive spine surgery microsurgical treatment of aneurysms is provided A summary
 of the key papers and clinical scales relevant to neurosurgery form the concluding part The book is a one stop text for
 trainees and consultants in neurosurgery residents those preparing for sub specialty exams and other professionals allied to
 surgery who need to gain an understanding of the field It acts as both a point of reference to provide a focussed refresher for
 the experienced neurosurgeon as well as a trusted training resource *Treatment Resistance in Psychiatry* Yong-Ku
 Kim, 2018-10-29 This book reviews all the important aspects of treatment resistant psychiatric disorders covering issues such
 as definitions clinical aspects neurobiological correlates treatment options and predictors of treatment response The book is
 divided into three sections the first of which examines the most recent thinking on treatment resistance in psychiatry
 including definition and epidemiology paradigm shift in the study of the subjects individual susceptibility and resilience
 abnormal structural or functional connectivity and insights from animal models The second section then discusses treatment
 resistance in each of the major psychiatric disorders with particular focus on the responsible clinical and biological factors
 and the available management strategies Finally more detailed information is presented on diverse pharmacological and non
 pharmacological therapeutic interventions The book written by leading experts from across the world will be of value to all
 who seek a better understanding of the clinical neurobiological underpinnings and the development of management for
 treatment resistance in psychiatric disorders *Neuroethics* Judy Illes, Sharmin Hossain, 2017 Over the last decade there
 have been unparalleled advances in our understanding of brain sciences In this volume on neuroethics a distinguished group
 of contributors from a range of disciplines discuss the ethical implications of this newfound knowledge and set out the many
 necessary considerations for the future *The Human Frontal Lobes* Bruce L. Miller, Jeffrey L. Cummings, 2017-10-04 This
 authoritative work now thoroughly revised has given thousands of clinicians students and researchers a state of the art
 understanding of the human frontal lobes the large brain region that plays a critical role in behavior cognition health and

disease Leading experts from multiple disciplines address the anatomy and chemistry of the frontal cortex neuropsychological assessments of capabilities unique to the frontal lobes the nature of and possible treatment avenues for frontotemporal dementia and related conditions and implications for understanding and treating neuropsychiatric disorders such as schizophrenia mania and depression Illustrations include eight pages in full color New to This Edition Reflects a decade of important research advances in such areas as functional connectivity mapping of frontal and frontal subcortical circuits Incorporates significant new information on frontotemporal dementia and other neurological disorders Expanded section on neuropsychiatric disorders with new chapters on apathy dissociative states and antisocial behavior Chapters on salience networks normal brain aging white matter diseases and clinical trials Increased attention to brain processes involved in moral reasoning empathy decision making and other key human capabilities **Psychosurgery** Marc

Lévêque,2014-02-18 Psychosurgery or the surgical treatment of mental disorders has enjoyed a spectacular revival over the past ten years as new brain stimulation techniques have become available Neuromodulation offers new possibilities for the treatment of psychiatric disorders such as depression obsessive compulsive disorder OCD addiction eating disorders and autism This work presents the history of this unique specialty and investigates current techniques and ethical challenges With a wealth of illustrations and detailed anatomical diagrams it provides essential information for medical practitioners as well as anyone else interested in the fascinating advances being made in neuroscience today I like the book as it provides a very nice overview of psycho surgery in general It is easy to understand for any para medical practitioner but even specialists in the field may learn new things They may also enjoy looking the well known and less known figures which illustrate the book Professor Bart Nuttin Reading this book is like reading an anthology or rather an encyclopaedia of the field of psychiatric surgery spanning more than a century This is a work with an unprecedented degree of erudition and knowledge and the subject is presented in a didactic scholar and scientific manner and is extensively referenced and illustrated If only one book is to be read by anybody interested in this field regardless of specialty this is The Book to read Professor Marwan Hariz *Schmidek and Sweet: Operative Neurosurgical Techniques 2-Volume Set* Alfredo Quinones-Hinojosa, MD, FAANS, FACS,2012-06-22

Wherever whenever or however you need it unmatched procedural guidance is at your fingertips with the new edition of Schmidek surgical management of blast injuries invasive electrophysiology in functional neurosurgery and interventional management of cerebral aneurysms and arterio venous malformations Take it with you anywhere Access the full text downloadable image library video clips and more at www.expertconsult.com With 337 additional expert contributors Get procedural guidance on the latest neurosurgical operative techniques from Schmidek Sweet on your shelf laptop and mobile device **Ethics in Psychiatry** Hanfried Helmchen,Norman Sartorius,Jakov Gather,2025-03-19 This book presents a comprehensive review of ethical issues arising in psychiatric care and research Compared to the first edition ten of the 40 chapters comprising the book are new dealing with topics that were not covered in the previous edition A further 28 chapters

have been updated by the previous authors or completely rewritten by new authors. Containing contributions by leading European ethicists, philosophers, legal scholars, and psychiatrists, this book presents an excellent resource of information and insights for both psychiatrists and other professionals who wish to develop knowledge, understanding, and awareness about ethical issues arising in their practice, research, and public health action. Chapter 6 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Addiction Neuroethics Adrian Carter, Wayne Hall, 2011-11-17. Addiction is a significant health and social problem and one of the largest preventable causes of disease globally. Neuroscience promises to revolutionise our ability to treat addiction, lead to recognition of addiction as a real disorder in need of medical treatment, and thereby reduce stigma and discrimination. However, neuroscience raises numerous social and ethical challenges. If addicted individuals are suffering from a brain disease that drives them to drug use, should we mandate treatment? Does addiction impair an individual's ability to consent to research or treatment? How will neuroscience affect social policies towards drug use? *Addiction Neuroethics* addresses these challenges by examining ethical implications of emerging neurobiological treatments, including novel psychopharmacology, neurosurgery, drug vaccines to prevent relapse, and genetic screening to identify individuals who are vulnerable to addiction. Essential reading for academics, clinicians, researchers, and policy makers in the fields of addiction, mental health, and public policy.

Practical Handbook of Neurosurgery Marc Sindou, 2009-11-06. *Practical Handbook of Neurosurgery* invites readers to take part in a journey through the vast field of neurosurgery in the company of internationally renowned experts. At a time when the discipline is experiencing a detrimental tendency to segment into various subfields and scatter in the process, it can be worthwhile to collect a number of practical lessons gleaned from experienced and leading neurosurgeons. The book also aims to present numerous important figures in the neurosurgical community with a brief overview of the vitae and main contributions for each. We must confess that we were sad that some of the most active members were unable to participate, likely due to time constraints. We are, however, fortunate that the majority were able to take part. As such, though not exhaustive, the book does represent an anthology of contemporary neurosurgeons. From the preface: At the very beginning of the project, our intention was to make a pocketbook. But month after month, it became obvious that the work would be much more expansive. Ultimately, we produced three volumes. Nevertheless, we hope that all the three volumes together will remain easily accessible and a daily companion. The pocket has to be more like a travel bag. We would like to thank all of the contributors; they have sacrificed their valuable time to deliver sound and critical views and, above all, useful guidelines.

Bradley and Daroff's Neurology in Clinical Practice - E-Book Joseph Jankovic, John C. Mazziotta, Scott L. Pomeroy, 2021-03-23. A practical, dynamic resource for practicing neurologists, clinicians, and trainees, *Bradley and Daroff's Neurology in Clinical Practice*, Eighth Edition, offers a straightforward style, evidence-based information, and robust interactive content supplemented by treatment algorithms and images to keep you up to date with all that's current in this fast-changing field. This two-volume set

is ideal for daily reference featuring a unique organization by presenting symptom sign and by specific disease entities allowing you to access content in ways that mirror how you practice More than 150 expert contributors led by Drs Joseph Jankovic John C Mazziotta Scott L Pomeroy and Nancy J Newman provide up to date guidance that equips you to effectively diagnose and manage the full range of neurological disorders Covers all aspects of today s neurology in an easy to read clinically relevant manner Allows for easy searches through an intuitive organization by both symptom and grouping of diseases Features new and expanded content on movement disorders genetic and immunologic disorders tropical neurology neuro ophthalmology and neuro otology palliative care pediatric neurology and new and emerging therapies Offers even more detailed videos that depict how neurological disorders manifest including EEG and seizures deep brain stimulation for PD and tremor sleep disorders movement disorders ocular oscillations EMG evaluation cranial neuropathies and disorders of upper and lower motor neurons as well as other neurologic signs 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

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Neurosurgical Treatments For Psychiatric Disorders Introduction

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