

Medicine with Artistic Merit
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As a psychiatrist, we are asked to treat patients with extremely complex illnesses. There are many possible ways to think about and formulate cases, including a range of psychological and social perspectives, each with their own strengths and limitations. To varying degrees, these perspectives have helpfully guided the development of our field and continue to shape the standards of our practice.

During the past 20 years, revolutionary new tools and approaches in neuroscience have led to unprecedented progress in our ability to understand the biological underpinnings of psychiatric illnesses.¹ This was very much complementary rather than competing with other rich traditions. In fact, distinctions between "psychological" and "biological" are rapidly fading as evidence demonstrates that all effective treatments (whether psychotherapy or pharmacologic agents) alter core brain networks and thus are all biological in nature.² Cognitive neuroscience is providing contemporary neural system models for understanding psychodynamic concepts such as our sense of self, defense and drives, and unconscious thoughts and motivations.³ In addition, an understanding of epigenetics offers novel insights into how social context and environmental factors translate into biological changes at the level of gene expression.^{4,5}

Collectively, these advances offer a new framework for drawing together the seemingly diverse perspectives of a traditional biopsychosocial formulation.⁴⁶ They present an opportunity to create a new dialogue with our patients, their families, and other health care professionals about the cause and meaning of psychiatric symptoms. They ground psychiatric disorders and associated maladaptive behaviors in the context of a brain disease and away from issues of character and moral fiber that often drive the shame, blame, and stigma many patients face. While many of these findings have not yet translated into novel therapeutic approaches, they can still guide and inform our treatment choices. For example, understanding the role that fear conditioning and learning plays in posttraumatic stress disorder helps to clarify why trauma-focused psychotherapies are currently our most effective treatments.^{3,46}

Dependent relevance of neuroscience to the practice of psychiatry, figuring out how to best integrate this perspective into our field remains a challenge.² Psychiatry has been a well-established clinical discipline since long before we had the power to study the brain in a nuanced manner, let alone to develop sophisticated biological explanations of psychiatric illness. Accordingly, it is no surprise that such a large practice gap should exist: although mental illness is increasingly understood in terms of genetics, developmental neurobiology, and dysfunctional circuitry, these essential perspectives are

frequently absent from clinical work. This practice gap is also evident within residency training: program directors in psychiatry overwhelmingly believe that it is important to incorporate neuroscience teaching into their curricula; yet, for almost all reasons, few programs have been able to do so in a comprehensive or systematic way.¹

In response to these challenges, the National Neuroscience Curriculum Initiative (NNCI) was developed to help improve the teaching of neuroscience in psychiatry, with an initial focus on residency programs. Through collaboration between educators and neuroscientists, the overarching aim of the NNCI has been to create, pilot, and disseminate a comprehensive set of shared resources, rooted in principles of adult learning, that will help train psychiatrists to integrate a modern neuroscience perspective into every facet of their clinical work. Interest in this effort has exceeded expectations. Between March 2015 and November 2016, the NNCI website (<http://www.NNCIonline.org>) has hosted more than 15,000 unique users from 120 countries with more than 127,000 page views. Most importantly, more than 75 psychiatry training programs have reported implementing NNCI teaching materials.

While these efforts are transforming neuroscience teaching in the classroom, such gains will have limited effect if they are not reinforced in clinical settings. Residents spend most of their time training on clinical services where a neuroscience perspective is essentially absent; the implication is that it is not important. To this end, we must address the challenge of "translational teaching": how do we bridge the gap in neuroscience education from the classroom to the clinic?

This is particularly daunting task. As modern medicine becomes increasingly complex, we have each become specialists in our own narrow niches. Most teaching faculty—and psychiatrists in general—are understandably immersed in the practical demands of clinical work. At the same time, neuroscientists are immersed in cutting-edge research, which is often focused on molecular studies or animal models that may seem remote from the clinical reality of patient care. As seen in various sociopolitical contexts, each group may exist in its own echo chamber and communicate primarily (if not exclusively) with those who share similar perspectives. Opportunities for dialogue between researchers and clinicians are limited, all the more so because each group speaks a fundamentally different language. Thus, a major part of the challenge at hand is to facilitate communication across this deep cultural divide.

With all of these issues in mind, we are pleased to be able to publish the inaugural Educational Review in the *JAMA Psychiatry*. In many ways, this article⁶ is the embodiment of all the ideas and convictions that we have

Neuroscience A Clinical Perspective

Paul M. Freeman, Edward Ives



Neuroscience A Clinical Perspective:

Clinical Cases in Psychiatry: Integrating Translational Neuroscience Approaches Alfredo Carlo Altamura, Paolo Brambilla, 2018-09-25 This case series book offers a practical and accessible approach to psychiatry addressing major clinical problems ranging from psychosis to aging effects each of which is tackled as it arises in everyday settings With its emphasis on everyday practice strongly linked to underlying theory the book combines clinical knowledge with the realities of managing clinical problems and will provide a basis for developing sound analytical and confident decision making skills Presenting different visions of clinical psychiatry and expanding psychiatrists interventions by integrating innovative neuroscience approaches such as neuroimaging neuropsychology TMS and cognitive rehabilitation it will help clinicians and students alike gain a sound understanding of the wide range of signs and symptoms that indicate psychiatric disorders and how the diagnosis management and treatment options can differ from those in other medical specialties The volume includes learning activities with questions on each clinical case followed by detailed explanatory answers and self assessment exercises to assist with learning and revision Throughout the book tips and key features are highlighted with boxes algorithms tables and figures which the reader can refer back to for exam revision and well into her his career

Clinical Perspectives on Primary Progressive Aphasia Lyndsey Nickels, Karen Croot, 2017-10-02 Primary progressive aphasia is a type of dementia that progressively impairs language abilities speaking understanding reading and writing and may eventually affect other aspects of thinking movement and or personality For the person with primary progressive aphasia these problems have a profound effect on their ability to communicate which in turn impacts their relationships social networks and ability to participate in everyday activities that depend on communication Recent understanding of primary progressive aphasia has grown enormously however and this book provides an up to date survey of research relevant to the clinical care of people with primary progressive aphasia It covers initial diagnosis neuropathology genetics and typical patterns of progression from early to late stage disease with a special focus on management and intervention for a range of different language symptoms and everyday communication activities This book is suitable for a wide readership from neurologists geriatricians and other medical specialists to general practitioners speech and language therapists occupational therapists psychologists and students in these fields It was originally published as a special issue of the journal Aphasiology

Neuroscience for the Study of Communicative Disorders Subhash Chandra Bhatnagar, 2002 This revised updated Second Edition continues to give students a strong foundation in neuroanatomy as it applies to speech language pathology and audiology New features include additional and revised color illustrations and tables to reinforce technical details an expanded clinical discussion section with more case studies and a technical glossary in the appendix This concise yet comprehensive user friendly book is the only neuroscience text that meets the educational needs of students who study communication disorders For more information visit <http://connection.lww.com/go/bhatnager>

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Reflective Parenting M. Hossein Etezady, Mary Davis, 2012-08-02 Clinical Perspectives on Reflective Parenting addresses the reasons for focusing on understanding a child's emotional world as a way of becoming a more effective parent. The book also addresses techniques for assisting parents to accomplish this understanding. Clinical Approach to Pediatric Neurology Jaya Shankar Kaushik, Piyush Gupta, 2021-03-31 This book is a practical guide to the diagnosis and treatment of paediatric neurological disorders for trainee and practising paediatricians. Divided into four sections, the text begins with discussion on neurological evaluation including anatomy and imaging. The second section covers diagnostic techniques for different neurological disorders including seizures, neuromuscular weakness, autism and ADHD, and movement disorders. Section three presents a selection of clinical cases similar to those candidates may encounter in postgraduate examinations. The final section discusses therapeutic methods for a variety of neurological disorders. The comprehensive text is further enhanced by clinical photographs, tables, and flowcharts. Key points: Comprehensive guide to diagnosis and management of paediatric neurological disorders. Covers numerous conditions including seizures, movement disorders, and autism and ADHD. Provides a selection of clinical cases for trainees preparing for examinations. Highly illustrated with photographs, tables, and flowcharts.

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. **Bradley's Neurology in Clinical Practice E-Book** Robert B. Daroff, Joseph Jankovic, John C. Mazziotta, Scott L. Pomeroy, 2015-10-25 Comprehensive, easy-to-read, and clinically relevant. Bradley's Neurology in Clinical Practice provides the most up-to-date information presented by a veritable Who's Who of clinical neuroscience. Its unique

organization allows users to access content both by presenting symptom sign and by specific disease entities mirroring the way neurologists practice A practical straightforward style templated organization evidence based references and robust interactive content combine to make this an ideal dynamic resource for both practicing neurologists and trainees Authoritative up to date guidance from Drs Daroff Jankovic Mazziotta and Pomeroy along with more than 150 expert contributors equips you to effectively diagnose and manage the full range of neurological disorders Easy searches through an intuitive organization by both symptom and grouping of diseases mirrors the way you practice The latest advances in clinical neurogenetics brain perfusion techniques for cerebrovascular disease the relationship between neurotrauma and neurodegenerative disease management strategies for levodopa related complications in movement disorders progressive neuropsychiatric disorders arising from autoimmune encephalitis and more keep you at the forefront of your field Reorganized table of contents which includes new chapters on Brain Death Vegetative and Minimally Conscious States Deep Brain Stimulation Sexual Dysfunction in Degenerative and Spinal Cord Disorders Sports and Performance Concussion Effects of Drug Abuse on the Nervous System and Mechanisms of Neurodegenerative Disorders Regular online updates reflect the latest information on the diagnosis and treatment of neurologic diseases based on the latest recommendations and methodologies Expert Consult eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures references and videos from the book on a variety of devices [Ketamine](#) Sabine Himmelseher,2025-09-30 Ketamine From Neurobiology to Emergency and Anesthesia Care Volume 1 discusses the latest advances in neuroscientific translational and clinical research as well as practical applications of the essential drug racemic ketamine and its enantiomers esketamine and arketamine Volume I covers ketamine s basic pharmacology and biology as well as clinical developments in neurophysiology and neuroimaging with an emphasis on topics of consciousness and neuropsychiatric disorders such as depression Pharmacokinetic and pharmacodynamic specifics with ketamine and its various administration routes are presented The book also deals with racemic and esketamine s significance in clinical care of prehospital emergencies and trauma The importance of ketamine in various anesthesia scenarios is addressed including maternal and pediatric anesthesia multimodal regimen opioid free anesthesia and approaches to increase the quality of perioperative recovery Periprocedural sedation with ketamine is described and potential benefits of ketamine for patient safety in neurosurgical anesthesia and sedation discussed This Neuromethods volume offers concise details and advice regarding ketamine therapy from top researchers and clinician scientists These insights are key to success in research and most importantly to improving patient outcomes Ketamine From Neurobiology to Emergency and Anesthesia Care Volume 1 is a comprehensive up to date resource and essential reference for both researchers and clinicians People all around the world are substantially interested in ketamine and racemic and es ketamine s applications in medicine are rapidly expanding This book is complemented by Ketamine Pain Management Critical Care Depression and Resource Poor Setting Volume II

Mayo Clinic Medical Neurosciences Eduardo E. Benarroch, Jeremy K. Cutsforth-Gregory, Kelly D.

Flemming, 2017-11-06 Fully updated and revised according to student feedback the sixth edition of Mayo Clinic Medical Neurosciences Organized by Neurologic System and Level provides a systematic approach to anatomy physiology and pathology of the nervous system inspired by the neurologist's approach to solving clinical problems This volume has 4 sections 1 an overview of the neurosciences necessary for understanding anatomical localization and pathophysiologic characterization of neurologic disorders 2 an approach to localizing lesions in the 7 longitudinal systems of the nervous system 3 an approach to localizing lesions in the 4 horizontal levels of the nervous system and 4 a collection of clinical problems This book provides the neuroscience framework to support the neurologist in a clinical setting and is also a great resource for neurology and psychiatry board certifications This is the perfect guide for all medical students and neurology psychiatry and physical medicine residents at early stages of training

Music, Neurology, and Neuroscience: Historical Connections and Perspectives, 2015-02-12 Music Neurology and Neuroscience Historical Connections and Perspectives provides a broad and comprehensive discussion of history and new discoveries regarding music and the brain presenting a multidisciplinary overview on music processing its effects on brain plasticity and the healing power of music in neurological and psychiatric disorders In this context the disorders that plagued famous musicians and how they affected both performance and composition are critically discussed as is music as medicine and its potential health hazard Additional topics including the way music fits into early conceptions of localization of function in the brain its cultural roots in evolution and its important roles in societies and educational systems are also explored Examines music and the brain both historically and in the light of the latest research findings The largest and most comprehensive volume on music and neurology ever written Written by a unique group of real world experts representing a variety of fields ranging from history of science and medicine to neurology and musicology Includes a discussion of the way music has cultural roots in evolution and its important role in societies

Cognitive Neuroscience Marie T. Banich, Rebecca J. Compton, 2018-04-05 Updated fully this accessible and comprehensive text highlights the most important theoretical conceptual and methodological issues in cognitive neuroscience Written by two experienced teachers the consistent narrative ensures that students link concepts across chapters and the careful selection of topics enables them to grasp the big picture without getting distracted by details Clinical applications such as developmental disorders brain injuries and dementias are highlighted In addition analogies and examples within the text opening case studies and In Focus boxes engage students and demonstrate the relevance of the material to real world concerns Students are encouraged to develop the critical thinking skills that will enable them to evaluate future developments in this fast moving field A new chapter on Neuroscience and Society considers how cognitive neuroscience issues relate to the law education and ethics highlighting the clinical and real world relevance An expanded online package includes a test bank

International Neurology Robert P. Lisak, Daniel D. Truong, William

Carroll, Roongroj Bhidayasiri, 2011-09-22 A truly global textbook for neurological practice Neurological disease varies in its presentations and pathology throughout the world In today's interconnected world neurologists need to be aware that patients can come from anywhere in the world with presentations and pathologies that may not be typical of their local context This unique textbook deals with the differences in etiology genetics age of onset and clinical presentations of neurological disease internationally This is the first book to take a truly global approach to neurological illness Consisting of 22 sections and 173 chapters with contributions from experts in many countries it serves as an invaluable guide for physicians to expand their knowledge of different neurological disorders around the world More importantly it is a definitive source of practical information to aid diagnosis and treatment **Handbook of Depression, Second Edition** Ian H.

Gotlib, Constance L. Hammen, 2008-10-23 Bringing together the field's leading authorities this acclaimed work is widely regarded as the standard reference on depression The Handbook provides comprehensive coverage of the epidemiology course and outcome of depressive disorders issues in assessment and diagnosis psychological and biological risk factors effective approaches to prevention and treatment and the nature of depression in specific populations Each chapter offers a definitive statement of current theories methods and research findings while also identifying key questions that remain unanswered **A Practical Approach to Neurology for the Small Animal Practitioner** Paul M. Freeman, Edward

Ives, 2020-06-30 A Practical Approach to Neurology for the Small Animal Practitioner provides veterinary practitioners and students with a comprehensive guide to diagnosing and treating neurological cases in small animal practice Covering the most important considerations for the general practitioner the book includes chapters on clinical history taking a stress free approach to the neurological examination the most common neurological presentations in general practice neurological emergencies and more It is easy to read packed with practical hints and tips and the information is presented using tables and bulleted lists with accompanying images and videos to illustrate the concepts A Practical Approach to Neurology for the Small Animal Practitioner is ideal for newly qualified vets veterinary students and experienced vets seeking a refresher

Netter's Neurology E-Book Jayashri Srinivasan, Claudia Chaves, Brian Scott, Juan E. Small, 2019-02-25 Perfect for residents medical students generalists nurses and other healthcare professionals who need a practical working knowledge of neurology Netter's Neurology 3rd Edition provides a concise overview highlighted by unique memorable Netter illustrations This award winning visual resource showcases the well known work of Frank H Netter MD and his successor Carlos Machado MD a physician who has created clear full color illustrations in the Netter tradition Offers a quick and memorable summary of general neurology and its intersection with internal medicine neurosurgery ophthalmology psychiatry and orthopaedics Concise text is presented in a templated format for fast easy access to information Features more than 450 Netter and Netter style images that highlight anatomy pathophysiology and clinical presentation related to neuroanatomical and neurologic concepts Helps you make correlations between anatomy pathology physiology and pharmacology in a clinical setting Clinical

vignettes throughout provide real world applications to each topic Features new chapters on Laboratory Evaluation in Neurology Neuroimaging in Neurologic Disorders and Neurologic Emergencies and Critical Care Presents the underlying anatomy in living patients through neuroimaging coverage including MR CT and PET *Textbook of Clinical Neurology* Christopher G. Goetz, MD

MD,2007-09-12 Organized to approach patient problems the way you do this best selling text guides you through the evaluation of neurologic symptoms helps you select the most appropriate tests and interpret the findings and assists you in effectively managing the underlying causes Its practical approach makes it an ideal reference for clinical practice Includes practical evidence based approaches from an internationally renowned team of authors Zeroes in on what you really need to know with helpful tables that highlight links between neurological anatomy diagnostic studies and therapeutic procedures Offers a logical clinically relevant format so you can find the answers you need quickly Features a new updated design for easier reference Includes new full color images and updated illustrations to facilitate comprehension of important concepts Features updated chapters on the latest genetic and immunologic based therapies advances in pharmacology and new imaging techniques Includes an expanded and updated CD ROM that allows you to view video clips of patient examinations download all of the book s illustrations and enhance exam preparation with review questions **Clinical Approach and**

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Romano,Paolo Curatolo,2003 Embryology of Autism Molecular genetic analysis of autism Reelin and autistic disorder the challenge of complexity Ethics of research on intellectual disabilities and autism point of view of a parent Genetics of purine metabolism and autistic disorder time to look for common polymorphisms Putting tryptophan in the spotlight Assessment and diagnosis in pervasive developmental disorders Pervasive developmental disorders clinical aspects and biological factors in a series of 331 patients Repetitive behavior in children with autistic disorder Seizures and autism Looking behavior in autism from saccade to face fixation Enterocolitis autism and measles virus Current trends in and future perspectives on the research of the biological bases of autism **Memory, Aging and the Brain** Lars Bäckman,Lars Nyberg,2009-09-11 This book brings together some of the best known experts in their fields to offer a cross disciplinary summary of current research

on human memory More than this however the book pays tribute to the work of Lars G ran Nilsson and his many contributions to the psychology of human memory The book is divided into three subsections General Issues in Human Memory Memory and Aging and Memory and the Brain These sections represent the three cornerstones in Lars G ran s scientific career and comprise contributions from senior collaborators colleagues and former students Areas of discussion include long term and working memory how do they interact an epidemiological approach to cognitive health in aging the cognitive neuroscience of signed language Covering a broad range of topics Memory Aging and the Brain will be of great interest to all those involved in the study and research of human memory

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