# MOYAMOYA DISEASE



# **Moyamoya Disease**

**Vicente Vanaclocha** 

#### Moyamoya Disease:

Moyamoya Disease John E. Wanebo, Nadia Khan, Joseph M. Zabramski, Robert F. Spetzler, 2013-10-15 Moyamoya Disease Diagnosis and Treatment covers the key clinical disciplines involved in managing patients with movamova disease including diagnostic work up imaging neurocognitive evaluation and surgical options for pediatric and adult patients The text and accompanying videos provide neurosurgeons and other health professionals treating Moyamoya patients with all the information they need to make the right diagnostic and surgical decisions Key Features Includes online access to videos and animations narrated by Dr Wanebo demonstrating surgical techniques discussed in the book Written and edited by world renowned experts at the Barrow Neurological Institute and other centers of excellence focused on Moyamoya Covers these dynamic topics in Moyamoya cortical microvasculature genetics neuropsychiatric evaluation and endovascular therapy Contains detailed illustrations and descriptions of technical aspects of treatment such as the direct and indirect methods of revascularization All neurosurgeons and neurologists caring for Moyamoya patients will find this book to be an important reference that they will consult often in their daily practice Moyamoya Disease: Current Knowledge and Future Perspectives Satoshi Kuroda, 2021-02-26 This book brings together the latest knowledge on moyamoya disease covering diagnostic criteria status as a disease entity genetic aspects pathophysiology novel neuroradiological findings and surgical therapy Information is also provided on recent basic and clinical research with the aim of identifying future perspectives on the disease Since moyamoya disease was first reported in an English language article more than 50 years ago our understanding of it has advanced considerably Genetic and radiological analysis has delivered novel insights and the latest multicenter studies are changing routine diagnosis and surgical therapy The gene encoding the ring finger protein 213 RNF213 has been identified as a susceptibility gene for moyamoya disease Indications and procedures for surgical revascularization have been revised with resultant improvements in outcomes and studies performed over the past decade have provided new knowledge on the neuroradiological findings before and after surgery In describing these advances this book will be an invaluable asset for all general physicians pediatricians neurologists radiologists and neurosurgeons who care for patients with moyamoya disease across the world Moyamoya Disease Vicente Vanaclocha, 2021-10-20 Moyamoya disease is a rare cerebrovascular disease most prevalent in East Asian countries Thanks to new diagnostic capabilities the number of cases discovered including asymptomatic patients has been increasing steadily However asymptomatic from the clinical point of view does not necessarily mean that there are no subjacent problems Indeed many patients harbour cognitive decline long before they exhibit clinical or radiological manifestations. The only effective treatment is surgical revascularization either direct indirect or combined Many posit that preventive surgical treatment should be considered even in asymptomatic moyamoya patients particularly in the paediatric age group This book expands on these ideas and examines the various aspects of this dreadful disease Moyamoya Disease Update Byung-Kyu Cho, Teiji

Tominaga, 2010-02-26 Moyamoya disease MMD was first reported as a new entity among vascular disorders in 1957 Named for the abnormal vascular networks found around the occluded distal internal carotid artery it is the most common pediatric cerebrovascular disease in East Asia In recent years large amounts of data on MMD have been collected and important investigations have been carried out in Japan and Korea even as the pathophysiology of the disease remains to be discovered This monograph covers a diversity of topics and presents a systematic compilation of the data and current status of MMD in clinical practice and basic research With contributions by more than 70 authors the book includes sections on genetics computational analysis of hemodynamic shear stress new imaging techniques and endovascular treatment of MMD along with practical applications and future directions for gene and stem cell therapies For neurosurgeons as well as neurologists and pediatricians this volume will help lead to more efficient and informed management of MMD Moyamoya Disease Jiro Suzuki,1986-04-01 Moyamoya Disease Jirō Suzuki,1983 The first mention of moyamoya disease as a distinct disease entity was in a paper I published in 1965 The abnormal net like vessels at the base of the brain seen in cerebral angio grams of this disease were described by most native speakers of Japanese as moyamoya a Japanese expression for some thing hazy such as a puff of cigarette smoke drifting in the air In fact prior to my advocacy of this term this type of vascular network was often referred to as moyamoya vessels by Japanese researchers In 1969 Dr A Takaku and I submitted a paper to the Ar chives of Neurology entitled A Disease Showing Abnormal Net like Vessels at the base of the Brain with a subtitle of Moyamoya Disease The editor however interchanged the main title and the subtitle and brought this term moyamoya to fame Since then researchers throughout the world have been using this poetic word For a nicknaming godfather like me it is a special joy to have this Japanese word enter the honored ranks of medical terminology My first publication concerning this lesion was a report discussing six cases in 1963 Therefore it is now 20 years since I first became aware of and started to study moyamoya dis ease At first I merely thought that it was a strange vascular network unique to these first few patients and I reported these cases as being cases of acquired collateral vessels Moyamova Disease Explored Through RNF213 Akio Koizumi, Kazuhiro Nagata, Kiyohiro Houkin, Teiji Tominaga, Susumu Miyamoto, Shigeo Kure, Elizabeth Tournier-Lasserve, 2017-02-21 This book presents the latest findings on biological epidemiological and clinical investigations of RNF213 which is thought to be involved in many biological processes and plays a key role in cerebro and cardiovascular disease By discussing the epidemiology and genetic epidemiology of the disease with a particular focus on the molecular function of RNF213 research using animal models diagnosis therapy and clinical management around the world this work makes a valuable contribution to the study of the disease Moyamoya Disease Explored Through RNF213 is an indispensable resource for both beginning and experienced researchers pediatricians neurologists and neurosurgeons who are seeking comprehensive information on adult and childhood stroke Moyamoya Disease, 2nd edition Yuxiang Gu, Sepideh Amin-Hanjani, Lian Duan, Yasushi Takaqi, 2023-05-24 Moyamoya disease MMD is a chronic cerebrovascular disease

characterized by progressive stenosis of the arteries of the circle of Willis and formation of a collateral vascular network at the base of the brain Moyamoya syndrome is caused by numerous conditions which lead to arterial occlusion of the circle of Willis and resultant collaterals reminiscent of moyamoya disease Due to the diverse angioarchitecture and unknown influence factors the hemodynamic disturbances of MMD Moyamoya syndrome are complicated and result in multimodal clinical manifestations including headache cognitive impairment seizures TIA infarction and hemorrhage Surgical revascularization has been proven as effective in decreasing incidence of long term risk of stroke However occurrence of perioperative stroke and complications such as seizures and cerebral hyperperfusion syndrome are still unpredictable In addition many patients with cognitive impairment cannot benefit from surgical revascularization and the mechanism remains unclear Thus a series of studies focusing on the objective evaluation of MMD Moyamoya syndrome are needed to help understand this complicated cerebrovascular disease and improve our treatment strategy The goal of this Research Topic is to better understand the pathophysiological nature of MMD Moyamoya syndrome through objective neuroimaging We also aim to generate a reasonable and objective evaluation system for MMD Moyamoya syndrome and would like to understand the link between cognitive impairment and brain damage of MMD Moyamoya syndrome though neuroimaging Through these findings we also aim to improve the treatment strategy by understanding the pathophysiological link with relevant complications Finally we also aim to improve our understanding of the significance of perioperative management for patients with severe complications from the perspective of objective evaluation Uncommon Causes of Stroke Julien Bogousslavsky, Louis R. Caplan, 2001-05-24 An essential resource for diagnosis and treatment of stroke patients outside the usual clinical categories Handbook of Cerebrovascular Disease and Neurointerventional Technique Mark R. Harrigan, John P. Deveikis, 2012-10-03 Fully revised and updated the Handbook serves as a practical guide to endovascular methods and as a concise reference for neurovascular anatomy and published data about cerebrovascular disease from a neurointerventionalist's perspective Divided into three parts the book covers Fundamentals of neurovascular anatomy and basic angiographic techniques Interventional Techniques and endovascular methods along with useful device information and tips and tricks for daily practice Specific Disease States with essential clinical information about commonly encountered conditions New features in the 2nd Edition include Global Gems that illuminate aspects of the field outside the United States Angio anatomic and angio pathologic image correlates Newly released clinical study results influencing neurointerventional practice Information on emerging technologies in this rapidly advancing field The Handbook is a vital resource for all clinicians involved in neurointerventional practice including radiologists neurosurgeons neurologists cardiologists and vascular surgeons Changing Aspects in Stroke Surgery: Aneurysms, Dissection, Moyamoya angiopathy and EC-IC Bypass Yasuhiro Yonekawa, Tetsuya Tsukahara, Anton Valavanis, Nadia Khan, 2008-07-17 What is arterial dissection What is Moyamoya angiopathy What is the state of art of AVM treatment Readers will find answers to these questions in this

book But they will also be informed about the state of the art treatment in the daily stroke therapy *Therapeutic* Angiogenesis for Vascular Diseases Mark Slevin, 2010-10-11 Angiogenesis is the growth of new blood vessels and is a key process which occurs during pathological disease progression Excessive and damaging angiogenesis occurs in diseases such as cancer diabetic retinopathies age related macular degeneration and atherosclerosis In other diseases such as stroke and myocardial infarction insufficient or improper angiogenesis results in tissue loss and ultimately higher morbidity and mortality In this book we will begin by providing the reader with an overview of the process of angiogenesis including normal embryological development of blood vessels. The following chapters will each focus on a key angiogenic disease incorporating current scientific knowledge concerning the causes of activation of the angiogenic switch pathological consequences current treatment options and future perspectives Where appropriate results from pre clinical trials novel imaging modalities and nanotechnological approaches will be incorporated into these sections Finally since it is now believed that the process of angiogenesis operated via different signalling mechanisms in different vascular beds we will discuss our current understanding of this phenomenon The target audience for this book would include researchers in all the basic sciences post graduate students at Universities and Institutes pharmaceutical industries clinicians working in vascular biology or tissue imaging pathologists neurologists tumour biologists ophthalmologists and cardiologists Introduction to Vascular Neurosurgery Justin R. Mascitelli, Mandy J. Binning, 2022-01-12 This book aims to cover the majority of neurovascular diseases and management The first section reviews neurovascular anatomy the basics of angiography and the basics of craniotomies for neurovascular diseases Next an entire section is devoted to intracranial aneurysms covering the natural history subarachnoid hemorrhage endovascular management microsurgical management and vasospasm Following this a number of chapters are devoted to stroke including natural history mechanical thrombectomy intracranial stenosis Moyamoya disease bypass surgery vertebrobasilar insufficiency intracerebral hemorrhage sinus thrombosis and the surgical and endovascular management of extracranial carotid disease Next the text covers vascular malformations including arteriovenous malformation arteriovenous fistulas carotid cavernous fistulas vein of Galen malformations spinal malformations and cavernous malformations Finally the book discusses a few miscellaneous topics including more recent advances in neurovascular care such as venous sinus stenting for idiopathic intracranial hypertension and middle meningeal artery embolization for subdural hematoma Written by experts in the field Introduction to Vascular Neurosurgery provides a comprehensive summary of neurovascular disease and management The book can be used as a daily reference and serves as a trusted resource for medical students residents fellows and young attendings Cerebrovascular Diseases in Children Anthony J. Raimondi, Maurice Choux, Concezio DiRocco, 2012-12-06 It is estimated that the functionally significant body of knowledge for a given medical specialty changes radically every 8 years New special ties and sub specialization are occurring at approximately an equal rate Historically established journals have not been able either to absorb this increase in

publishable material or to extend their reader ship to the new specialists International and national meetings sympo sia and seminars workshops and newsletters successfully bring to the attention of physicians within developing specialties what is occur ring but generally only in demonstration form without providing historical perspective pathoanatomical correlates or extensive discus sion Page and time limitations oblige the authors to present only the essence of their material Pediatric neurosurgery is an example of a specialty that has devel oped during the past 15 years Over this period neurosurgeons have obtained special training in pediatric neurosurgery and then dedicated themselves primarily to its practice Centers Chairs and educational programs have been established as groups of neurosurgeons in different countries throughout the world organized themselves respectively into national and international societies for pediatric neurosurgery These events were both preceded and followed by specialized courses national and international journals and ever increasing clinical and invest igative studies into all aspects of surgically treatable diseases of the child s nervous system Toole's Cerebrovascular Disorders E. Steve Roach, Kerstin Bettermann, Jose Biller, 2010-02-15 Toole's Cerebrovascular Disorders was the first modern book devoted to care of the stroke originally published more than 40 years ago This is a completely revised and updated sixth edition of the highly respected standard for stroke diagnosis and treatment Dr James Toole has stayed on as a consultant for the text and Drs E Steve Roach Kerstin Bettermann and Jose Biller have reworked Dr Toole's book to include chapters on genetics pregnancy related stroke and acute treatments The practical focus of the book has not changed retaining its emphasis on bedside diagnosis and treatment Easily accessible both for stroke specialists and residents the sixth edition has been modernized to keep pace with the rapid expansion of knowledge in stroke care and includes evidence based recommendations the latest technology and imaging and risk factors The text is supplemented with more than 200 images many in color Pediatric Stroke and Cerebrovascular Disorders Warren D. Lo, MD, Geoffrey L. Heyer, MD, 2011-10-18 The new third edition of Pediatric Stroke and Cerebrovascular Disorders provides a modern clinical approach to managing stroke and other cerebrovascular problems in infants children and adolescents Incorporating data from important clinical trials and case series recommendations from the American Heart Association evidence based paper on the management of pediatric stroke and the latest information on new diagnostic techniques the book offers a comprehensive analysis of the current thinking and practice by three physicians who have vast clinical experience in this challenging field The third edition of this classic work has been completely updated and rewritten to reflect current science and practice Covering occurrence etiology diagnosis and treatment this integrated state of the art text is essential reading for anyone involved in the care of children with suspected stroke or other cerebrovascular abnormalities The third edition of this classic work has been completely updated and rewritten to reflect current science and practice An extensive entirely new chapter on treatment provides specific guidance on when to use antiplatelet agents anticoagulants and thrombolytic agents in children and also includes a section on neurorehabilitation after stroke An expanded and thoroughly updated diagnostic approach chapter

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diagnosis and treatment this integrated state of the art text is essential reading for anyone involved in the care of children with suspected stroke or other cerebrovascular pathologies The new Third Edition of this classic work has been completely updated and rewritten to reflect current science and practice An extensive entirely new chapter on treatment provides specific guidance on when to use antiplatelet agents anticoagulants and thrombolytic agents in children and also includes a section on neurorehabilitation after stroke An expanded and thoroughly updated diagnostic approach chapter covers the latest applications in stroke imaging such as computed tomography angiography diffusion weighted MRI and perfusion CT A seminal chapter on epidemiology of childhood stroke introduces the more important stroke risk factors in the context of their influence on overall pediatric stroke incidence Trends in the Treatment of Cerebrovascular Diseases Giuseppe Esposito, Yasuhiko Kaku, Martina Sebök, Luca Regli, Tetsuya Tsukahara, 2025-08-02 This Open Access book serves as the official proceedings of the 10th European Japanese Cerebrovascular Congress held in Kyoto in 2022 During this landmark event leading experts from both Europe and Japan engaged in in depth productive discussions on the latest advancements in the treatment of cerebrovascular diseases As a result this volume offers invaluable insights into cutting edge research clinical practices and innovative therapeutic strategies making it an essential resource for physicians researchers and scientists working in the field of cerebrovascular diseases The book is available as open access ensuring that this important knowledge is freely accessible to a global audience of healthcare professionals and scholars Vascular neurosurgery and microneuroanatomy Feres Chaddad-Neto, Ricardo Silva Centeno Centeno, Kaan Yagmurlu, Marcos Devanir S. Da Costa, 2023-07-21

Unveiling the Magic of Words: A Review of "Moyamoya Disease"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "Moyamoya Disease," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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