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Stroke E-Book Stroke, Part III: Investigation and management Stroke Nursing The Stroke Book IMPACT OF PHYSICAL EXERCISE AND MEDITERRANEAN DIET PRIOR TO STROKE ON THE PROGNOSIS OF PATIENTS UNDERGOING ENDOVASCULAR TREATMENT. Bradley's Neurology in Clinical Practice E-Book Transient Ischemic Attack and Stroke Rough Sets Neuroprotective Therapy for Stroke and Ischemic Disease Telestroke: the Use of Telemedicine in Stroke Care Cognitive Impairment and Dementia in Parkinson's Disease REHABILITATION AND PHYSICAL THERAPY ROLE IN STROKE Spanish for Teachers: Basic Spanish Series The Atlas of Heart Disease and Stroke Prevention of Stroke The Kite Runner Moyamoya Disease Update Setting New Directions for Stroke Care Cerebral Small Vessel Disease Cutting-Edge Approaches for CNS Protection and Repair: Focus on Vascular and Degenerative Disorders TeleStroke Digital Humour in the Covid-19 Pandemic Stroke Precise Diagnosis and Treatment of Intracranial Stenosis or Occlusion Blood-Based Biomarkers in Acute Ischemic Stroke and Hemorrhagic Stroke La Sainte Bible, Ou L'Ancien Et Le Nouveau Testament Advocacy in Neurology Herbal Product Development Price Reports, Fruits & Vegetables, the Great A. & P. Tea Co., New York City Textbook of Neural Repair and Rehabilitation Neuroepidemiology in Resource-Limited Areas Neuroscience Obstructive Sleep Apnea in Adults Examining Neurocritical Patients Acute Stroke Treatment Neurologic Emergencies Precision Medicine in Stroke Health Measurement Scales Stroke Genetics The Book of the Duffs

This volume provides a comprehensive exploration of stroke, from basic mechanisms of disease to enhanced diagnostic and therapeutic capabilities. The ongoing efforts within the neurological community are also highlighted, bringing a better understanding of the pathophysiological basis of this disorder. Clinicians will find invaluable information that can be used to enhance the lives of an aging global population. Covered topics include the functional anatomy of the brain itself, as well as advancements in the understanding of the biochemical background of strokes. Related fields and their dramatic impact on stroke research are also included, with findings in the fields of epidemiology, genetics, neuroimaging, and interventional radiology thoroughly explored. In addition, great attention is paid to therapeutic avenues, including investigation, prevention, and patient management. Digital humour in the COVID-19 pandemic: Perspectives from the Global South offers a groundbreaking intervention on how digital media were used from below by ordinary citizens to negotiate the global pandemic humorously. This book considers the role played by digital media during the pandemic, and indeed in the socio-political life of the Global South, as indispensable and revolutionary to human communication. In many societies, humour not only signifies laughter and frivolity, but acts as an important echo that accompanies, critiques, questions, disrupts, agitates and comments on societal affairs and the human condition. This book analyses citizens' use of social media and humour to mediate the pandemic in a diverse range of countries, including Brazil, India, Kenya, Nigeria, South Africa and Zimbabwe. The book will appeal to academics and students of media and communication studies, political studies, rhetoric, and to policy makers. This book provides a comprehensive coverage of the state of the art in precision medicine in stroke. It starts by explaining and giving general information about precision medicine. Current applications in different strokes types (ischemic, haemorrhagic) are presented from diagnosis to treatment. In addition, ongoing research in the field (early stroke diagnosis and estimation of prognosis) is extensively discussed. The final part provides an in-depth discussion of how different interdisciplinary areas like artificial intelligence, molecular biology and genetics are contributing to this area. Precision Medicine in Stroke provides a practical approach to each chapter, reinforcing clinical applications and presenting clinical cases. This book is intended for all clinicians that interact with stroke patients (neurologists, internal medicine doctors, general practitioners, neurosurgeons), students and basic researchers. This new volume, Herbal Product Development: Formulation and Applications, addresses some of the challenges that hinder the path of successful natural products from laboratory to market. Highly skilled, experienced, and renowned scientists and researchers from around the globe offer up-to-date

information that describes characteristics of herbs and herbal products, applications, evaluation techniques, and more. There is also a section dedicated to alternative medicinal strategies for the treatment and cure of diverse diseases. Also considered, of course, is the efficacy and safety of herbal products, which are of major concern. This valuable volume will be an important addition to the library of those involved in herbal product development and testing, including researchers, scientists, academicians, industry professionals, and students in this area. An essential companion for busy professionals seeking to navigate stroke-related clinical situations successfully and make quick informed treatment decisions. Stroke is a major cause of death and the major cause of adult neurological disability in most of the world. Despite its importance on a population basis, research into the genetics of stroke has lagged behind that of many other disorders. However, the situation is now changing. An increasing number of single gene disorders causing stroke are being described, and there is growing evidence that polygenic factors are important in the risk of apparently "sporadic" stroke. Stroke Genetics provides an up-to-date review of the area, suitable for clinicians treating stroke patients, and both clinical and non-clinical researchers in the field of cerebrovascular disease. The full range of monogenic stroke disorders causing cerebrovascular disease, including ischaemic stroke, intracerebral haemorrhage, aneurysms and arteriovenous malformations, are covered. For each, clinical features, diagnosis, and genetics are described. Increasing evidence suggest that genetic factors are also important for the much more common multifactorial stroke; this evidence is reviewed along with the results of genetic studies in this area. Optimal and novel strategies for investigating multifactorial stroke, including the use of intermediate phenotypes such as intima-media thickness and MRI detected small vessel disease are reviewed. The book concludes by describing a practical approach to investigating patients with stroke for underlying genetic disorders. Also included is a list of useful websites. This book aims to provide a comprehensive and clear review of the current knowledge of the relationship between obstructive sleep apnea (OSA) and cardiovascular and metabolic diseases, a subject of concern to a wide range of specialists and general practitioners. Separate chapters describe: the definition, symptoms and sequelae of OSA, and the diagnostic strategies and treatment options for adults with OSA according to the American Academy of Sleep Medicine; pathogenic mechanisms, by which OSA may contribute to the development and progression of cardiovascular and metabolic disorders, including inflammation, oxidative stress and thrombosis; links between OSA and obesity, alterations in glucose metabolism, metabolic syndrome and liver injury; relationships between OSA, endothelial dysfunction, autonomic dysfunction and cardiovascular disorders, and the results of studies investigating the effect of treatment for OSA on the concomitant cardiovascular disease. Each chapter summarizes the essential information and is illustrated by tables and figures, which will aid the readers in their understanding of the complex systemic interactions involved in this disease. Reviewed by internationally recognized experts, this publication will be of benefit to clinicians and scientists in the fields of pulmonology, cardiology, endocrinology and neurology as well as to sleep specialists and general practitioners. Prevention of Stroke sums up and critically analyzes our present knowledge and understanding of all major aspects of stroke prophylaxis, medical and surgical. The book is intended for not only neurologists and neurosurgeons directly involved with stroke patients, but also vascular surgeons, internists, family physicians, and health planners. Topics explored include the cellular basis of atherosclerosis; stroke risk factors; head and neck bruits in stroke prevention; the present status of anticoagulant prophylaxis; hypertension and stroke prevention; and prevention of cardioembolic stroke, as well as the efficacy of aspirin and of ticlopidine in stroke prevention. Surgical prophylaxis is examined through discussions of carotid endarterectomy, prevention of stroke from cerebral vascular malformations, prevention of aneurysmal subarachnoid hemorrhage, balloon transluminal angioplasty of the carotid artery in the head and neck, and prevention of recurrent stroke. In this edited volume, experts in the field describe in detail all aspects of cognitive impairment and dementia in Parkinson's disease, including epidemiology, spectrum of clinical features,

pathology, neurochemistry and genetics, findings in auxillary investigations, and the relation to other neurodegenerative disorders. Offered in print, online, and downloadable formats, this updated edition of *Stroke: Pathophysiology, Diagnosis, and Management* delivers convenient access to the latest research findings and management approaches for cerebrovascular disease. Picking up from where J. P. Mohr and colleagues left off, a new team of editors - Drs. Grotta, Albers, Broderick, Kasner, Lo, Mendelow, Sacco, and Wong - head the sixth edition of this classic text, which is authored by the world's foremost stroke experts. Comprehensive, expert clinical guidance enables you to recognize the clinical manifestations of stroke, use the latest laboratory and imaging studies to arrive at a diagnosis, and generate an effective medical and surgical treatment plan. Abundant full-color CT images and pathology slides help you make efficient and accurate diagnoses. Data from late-breaking endovascular trials equips you with recent findings. Includes comprehensive coverage of advances in molecular biology of cell death; risk factors and prevention; advances in diagnostics and stroke imaging; and therapeutic options, including a thorough review of thrombolytic agents and emerging data for endovascular therapy. Features brand-new chapters on Intracellular Signaling: Mediators and Protective Responses; The Neurovascular Unit and Responses to Ischemia; Mechanisms of Cerebral Hemorrhage; Stroke Related to Surgery and Other Procedures; Cryptogenic Stroke; and Interventions to Improve Recovery after Stroke. Highlights new information on genetic risk factors; primary prevention of stroke; infectious diseases and stroke; recovery interventions such as robotics, brain stimulation, and telerehabilitation; and trial design. Details advances in diagnostic tests, such as ultrasound, computed tomography (including CT angiography and CT perfusion), MRI (including MR perfusion techniques), and angiography. Includes extracted and highlighted evidence levels. Expert Consult eBook version included with print purchase. This enhanced eBook experience allows you to search all of the text, figures, and references on a variety of devices. The content can also be downloaded to tablets and smart phones for offline use. Combat stroke with the most comprehensive and updated multimedia resource on the pathophysiology, diagnosis, and management of stroke from leaders in the field. Heart disease and strokes are currently the leading cause of death in all developed countries and in most developing countries, resulting in one third of all deaths globally in 2003. This publication explores a range of issues relating to this increasingly urgent global health problem using text, colour charts, maps and graphics. Topics covered include: different types of cardiovascular diseases, including rheumatic heart disease; key risk factors including smoking, obesity, physical inactivity, high cholesterol levels and diabetes; risks factors relating to women, childhood and youth; the global burden of coronary heart disease and stroke, and associated economic costs; medical research and funding issues; prevention in personal and public health terms; treatment options; health education; national policies and legislation to address prevention and control; future predictions; chronology of key developments in knowledge of cardiovascular disease; and world data tables. Topic Editor, Prof. Heinrich Audebert, received funding from institutional funding by Roche Diagnostics International Ltd. and the Berlin Future Funds. The other Topic Editors declare no competing interests with regard to the Research Topic subject. Advocacy is a broad term that covers activities aimed at increasing attention, awareness, information, nursing, treatment, and support to improve the outcome of patients. These actions can be focused directly towards patients or indirectly via third parties. Although advocacy is present in all medical specialties, neurology in particular finds itself in need of strong advocacy tools as the diagnosis, treatment, long-term care and associated resource, and social issues have become increasingly complex. While some physicians implicitly or explicitly act as advocates, there is a lack of holistic research in order to clarify the meaning of advocacy along with concrete methods and strategies. Advocacy in Neurology provides an integrated approach to the concept of advocacy in neurology. Structured in five sections, the book begins by explaining the term "advocacy" in general before elaborating on the areas of interest within neurology. The text goes on to offer concrete strategies and tools for clinicians to deploy advocacy in their daily work, and then discusses specific neurological diseases to point out and explain where advocacy is, or could be, beneficial. The book ends with an outlook, presentation of results, and an ending conclusion. Advocacy in Neurology offers a practical perspective on advocacy activities in neurology, aiming to show when and why they are important for neurology. Telestroke helps readers develop a deeper understanding on how to utilize telestroke in clinical practice, a key step in providing optimal treatment and management to those with geographical and

social/economic disparities. The book discusses how to provide accurate and fast revascularization for patients with acute ischemic stroke and how to continue remote care of patients. It also reviews underlying stroke etiology, interpretation and assessment of stroke diagnostic tools/teleradiology, complications of care, discusses targeted, secondary preventative therapies and covers telerehabilitation, outpatient follow-up and clinical trial engagement. Includes tactics on how to enact rapid implementation by stroke neurologists Explains recent changes to telehealth coding/reimbursement Reviews the underlying stroke etiology, interpretation and assessment of stroke diagnostic tools/teleradiology, and complications of care Covers targeted, preventative therapies, telerehabilitation, outpatient follow-up, and clinical trial engagement Afghanistan, 1975: Twelve-year-old Amir is desperate to win the local kite-fighting tournament and his loyal friend Hassan promises to help him. But neither of the boys can foresee what will happen to Hassan that afternoon, an event that is to shatter their lives. After the Russians invade and the family is forced to flee to America, Amir realises that one day he must return to Afghanistan under Taliban rule to find the one thing that his new world cannot grant him: redemption. Neuroepidemiology is a branch of epidemiology involving the study of neurological disease distribution and determinants of frequency in human populations. Neuroepidemiology has been perceived for a long time as a science of incidence, prevalence, risk factors, natural history and prognosis of neurological disorders. However, the other integral part of neuroepidemiology is experimental neuroepidemiology, which is research based on clinical trials of effectiveness or efficacy of various interventions in neurological disorders. Neuroepidemiological researches have been conducted since 1960's, with the development of epidemiological methodology and advance of the clinical neurology. Most improvement of neuroepidemiology was in western countries, largely in US and European countries. This study field has been developed quite late in resourcelimited areas, where 60% of world's populations are living in. Disease burden of neurological disorders, such as stroke, epilepsy, migraine, neurodegenerated diseases (AD, PD), multiple sclerosis (MS), amyotrophic lateral sclerosis (ALS), are extremely heavy in low and middle income countries (LAMICs), especially with the increasing aging population in these regions. Because of their progressive and disabling nature, these neurological disorders have major adverse personal, social, and economic consequences. Prevention and early detection are critical, because there are no cures and the clinical diagnosis typically occurs after substantial and often irreversible neuronal loss. This Neuroscience nursing issue, Guest Edited by Anne W. Alexandrov, focuses on: use of acute care Nurse Practitioners in neuroscience critical care; Post-graduate advances practice neurovascular fellowship education and training; NET SMART; management of Traumatic Brain Injury; management of Subarachnoid Hemorrhage; management of Hyperacute Ischemic Stroke; Telestroke Systems; Antiplatelet Therapy' Migraine and Intracardiac Right to Left Shunt; Weight agreement in Ischemic Stroke Treatment; Inflammatory biomarkers for Ischemic Stroke; and glycemic control in neurovascular disease. This indispensable title rethinks the neurologic examination in a format tailored, modified, and specialized for neurocritical illness. Generously illustrated, this book provides a detailed clinical assessment of the acutely ill neurologic patient. It explains why certain neurologic signs appear and provides fundamentals of localization. Certain situations demand certain structured examinations. Eventually, all information has to be integrated logically. Different examination techniques may be needed. Recognition of deterioration and increased vigilance with important mimickers and confounders are part of our professional fabric. Other necessary skills include predicting a clinical course and outcome, coordinating effective transfers of unstable patients, and communicating expected clinical changes. Neurologists traditionally have carefully considered the examination findings before acting and localized findings before ordering tests; these heuristics must remain. An indispensable title designed for all learners, *Examining Neurocritical Patients* preserves the beauty of a comprehensive clinical neurologic examination and serves as a high-yield master class for every health care professional tasked with clinical assessment of a neurocritically ill patient. A new edition of this practical guide for clinicians who are developing tools to measure subjective states, attitudes, or non-tangible outcomes in their patients, suitable for those who have no knowledge of statistics. 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. This book is an unparalleled resource on neurologic emergencies. Most books on neurologic emergencies focus on treatment of a disease after it is diagnosed (such as stroke, subarachnoid hemorrhage, or meningitis). There are but a few books that focus on how to evaluate the patient with a neurologic symptom, before the diagnosis is made. This is the area that frontline providers, including emergency physicians, family physicians, primary care physicians, hospitalists, urgent care physicians, and midlevel providers struggle with. This book is written by clinicians with a clear understanding of the needs of non-neurologists in the front lines of medicine. The editors are board-certified emergency physicians with fellowship training and expertise in neurologic emergencies. Neurologic Emergencies includes these point-of-care-friendly features: Extensive number of algorithms for distinct presenting symptoms Classic neuroimaging findings A concise bullet on what information needs to be conveyed to consultants Reference to relevant national guidelines where applicable Common chapter format to facilitate quick look-up A critical and comprehensive look at current state-of-the-art scientific and translational research being conducted internationally, in academia and industry, to address new ways to provide effective treatment to victims of ischemic and hemorrhagic stroke and other ischemic diseases. Currently stroke can be successfully treated through the administration of a thrombolytic, but the therapeutic window is short and many patients are not able to receive treatment. Only about 30% of patients are "cured" by available treatments. In 5 sections, the proposed volume will explore historical and novel neuroprotection mechanisms and targets, new and combination therapies, as well as clinical trial design for some of the recent bench-side research. Stroke Nursing is the leading guide for optimal stroke care, facilitating the provision of evidence-based practice across the stroke journey, and covering the sixteen elements of care outlined in the UK's Stroke-Specific Education Framework (SSEF). Drawing from years of clinical and research experience, the authors provide practical guidance on the essential areas of stroke nursing, including stroke classification, stabilisation, thrombolysis and thrombectomy, rehabilitation and recovery, nutrition and oral care, palliative and long-term care, physical impairment management, and more. Now in its second edition, this indispensable guide helps practitioners expand their knowledge, skills and competence in all areas of stroke nursing services. Adopts a practical and evidence-based approach to stroke management, exploring UK and international perspectives Authored by expert clinicians and leaders in the field of nursing practice, research and education Includes updated case studies and practice examples, expanded coverage of clinical application in practice, and new discussions of the knowledge and skills required by nurses Stroke Nursing is essential reading for students of nursing and neuroscience, and is the definitive reference for practicing nurses and healthcare professionals caring for stroke patients. Background and Aims:Physical activity (PA) and some dietary patterns like Mediterranean Diet (MeDiet) are associated with a decreased stroke risk but there are limited data on their association with stroke characteristics and prognosis. We aimed to study the association of pre-stroke PA and adherence to MeDiet with different outcome variables in patients with acute ischemic stroke (IS) treated with endovascular therapyMethods:We included consecutive patients with IS in 12 NORDICTUS (Stroke network of North Spain) hospitals. Inclusion criteria were: MCA and/or TICA occlusion and baseline mRS 0-1. Degree of PA prior to stroke was evaluated with Spanish Short Version of the Minnesota Leisure Time Physical Activity Questionnaire and adherence to the MeDiet with PREDIMED 14-points questionnaire. Clinical, radiological and prognostic variables were prospectively collected by

blind investigators.Results:From 1/15/2018 to 10/30/2018, 239 patients were included (mean age 71 years,48% women, median NIHSS 16). Low adherence to MeDiet was associated with atherothrombotic etiology. Daily intake of red wine was associated with a higher probability of complete recanalization ($p=0.048$). In multivariable analysis, use of olive oil as the principal source of fat was independently associated with mRS u22642 at 3 months, OR 3.2 [1.2-8.7]. Patients with a lower activity level prior to stroke (sedentary) had more frequently cardioembolic stroke and a higher incidence of symptomatic intracranial hemorrhage. No associations were found between PA or MeDiet and collateral grade, final infarct volume or mortality.Conclusions:PA and some MeDiet patterns may act as preconditioning factors improving prognosis after stroke. Up-to-date discussion of the etiology, diagnosis, treatment, and prevention of this common cause of stroke and cognitive impairment. 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. Authored by the world's foremost stroke experts, this classic text brings you fully up to date with current research findings and management approaches for cerebrovascular disease. Stroke: Pathophysiology, Diagnosis, and Management, 7th Edition, covers every aspect of this fast-moving field, and is an ideal resource for stroke specialists, general neurologists, and other medical professionals with an interest in stroke. You'll find expert clinical guidance, comprehensive pathophysiology coverage, data from recent trials, advances in diagnostic tests, full-color CT images, pathology slides, and much more, for a complete picture of today's stroke medicine. Helps you recognize the clinical manifestations of stroke, use the latest laboratory and imaging studies to arrive at a diagnosis, and generate an effective medical and surgical treatment plan. Keeps you abreast of the overwhelming volume of studies and guidelines in this dynamic field, providing clear summaries and practical evaluations of all relevant data. Contains updates throughout, including the latest clinical trials (thrombectomy, DAWN, DEFUSE), genetics research, prevention research, new therapies, and the new guidelines from the ASA. Includes new slides for lectures, covering basic science, case studies, and interventional treatment overviews. Features a Key Points summary at the beginning of each chapter so you can quickly find important information. Provides abundant full-color CT images and pathology slides that help you make efficient and accurate diagnoses. This issue is a dedicated supplement published in addition to the regular issues of 'Cerebrovascular Diseases' focussing on one specific topic. 'Cerebrovascular Diseases' is a well-respected, international peer-reviewed journal in Neurology. Supplement issues are included in the subscription. Accessible handbook covering the investigation, diagnosis and management of transient ischemic attacks and minor strokes. This book constitutes the refereed proceedings of the International Joint Conference on Rough Sets, IJCRS 2016, held in Santiago de Chile, Chile, in October 2016. The 46 revised full papers presented together with 7 keynotes, tutorials and expert papers were carefully reviewed and selected from 108 submissions. The papers are grouped in topical sections on Rough Sets, Approximation and Granulation; Rough Sets, Non-Determinism and Incompleteness; Rough Sets and Three-way Decisions; Fuzziness and Similarity in Knowledge Representation; Machine Learning and Decision Making; Ranking and Clustering; Derivation and Application of Rules and Trees; Derivation and Application of Feature Subsets. BASIC SPANISH FOR TEACHERS is a career manual designed to serve those in the teaching professions who seek basic conversational skills in Spanish. Written for use in two-semester or three-quarter courses, it presents everyday situations that teachers could encounter in various work settings (public and private elementary, middle, and high schools) when dealing with Spanish speaking students and parents/guardians in the United States. BASIC SPANISH FOR TEACHERS introduces practical vocabulary, everyday on-the-job

situations, and culture notes (Notas culturales) written from a cross-cultural perspective. It provides students with opportunities to apply, in a wide variety of practical contexts, the grammatical structures presented in the corresponding lessons of the Basic Spanish core text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Volume 1 of the Textbook of Neural Repair and Rehabilitation covers the basic sciences relevant to recovery of function following injury to the nervous system. Owing to the increased interest in brain

ischemia and the new therapeutic options from pharmaceutical companies for the treatment of acute stroke, Professor Julien Bogousslavsky, one of the world's stroke experts, has revised his best-selling book. It is the emergence of huge possibilities in the management of stroke - ultra-early diagnosis, intensive care, surgical and other interventional therapies, thrombolysis, anti-ischemic drugs and prevention of immediate recurrence - which necessitates this timely update.

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