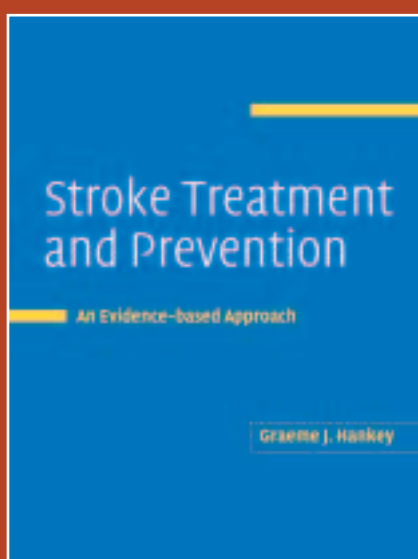


Stroke



Stroke Treatment and Prevention

An Evidence-based Approach

Graeme Hankey
Royal Perth Hospital, Australia

This invaluable reference provides clinicians caring for stroke patients with evidence for best practice in stroke treatment and secondary prevention. It describes all available treatments, and, where available, the highest level of evidence for their safety and effectiveness. The evidence for each treatment is followed by the author's interpretations, and the implications of the evidence in the care of stroke patients. This is therefore an essential resource for clinicians, translating into practice advances that have been made in the treatment and prevention of stroke, and suggesting the most appropriate interventions.

Features

- Sets out best evidence for all stroke treatments
- Draws on Cochrane data where available
- Aids to interpretation of evidence and implementation in daily practice

Contents: 1. The size of the problem of stroke; 2. Understanding evidence; 3. Organised acute stroke care; 4. General supportive acute stroke care; 5. Reperfusion of ischaemic brain by thrombolysis; 6. Augmentation of cerebral blood flow: fibrinogen-depleting agents, haemodilution and pentoxifylline; 7. Neuroprotection; 8. Treatment of brain oedema; 9. Anticoagulation to prevent recurrent atherothrombotic ischaemic events; 10. Antiplatelet therapy to prevent recurrent atherothrombotic ischaemic events; 11. Carotid artery revascularisation to prevent recurrent atherothrombotic ischaemic stroke; 12. Lowering blood pressure to prevent recurrent stroke; 13. Lowering blood cholesterol to prevent recurrent atherothrombotic ischaemic events; 14. Control of other vascular risk factors and lifestyle to prevent recurrent atherothrombotic ischaemic events; 15. Prevention of recurrent cardioembolic ischaemic stroke; 16. Arterial dissection and arteritis; 17. Treatment of intracerebral haemorrhage; 18. Treatment of subarachnoid haemorrhage.

2005 488pp 217 illustrations
978 0 521 82719 5 (0 521 82719 1) • HB • £80.00

Magnetic Resonance Imaging in Stroke

Edited by Stephen Davis
Royal Melbourne Hospital and University of Melbourne, Australia

Marc Fisher and Steven Warach
Both of National Institute of Mental Health, Bethesda, Maryland, USA

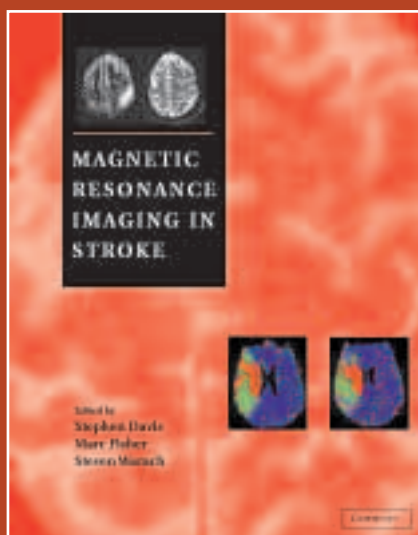
Advances in magnetic resonance imaging (MRI) are transforming the investigation and treatment of cerebrovascular disease. Echoplanar techniques with diffusion and perfusion weighted imaging, together with developments in magnetic resonance spectroscopy and angiography, are replacing CT scanning as the diagnostic modality of choice. In this profusely illustrated book world leaders in these technologies review the scientific basis and clinical applications of MRI in stroke. It will appeal to a broad readership including stroke physicians, neurologists, neurosurgeons, rehabilitation specialists, and others with a clinical or research interest in cerebrovascular disease.

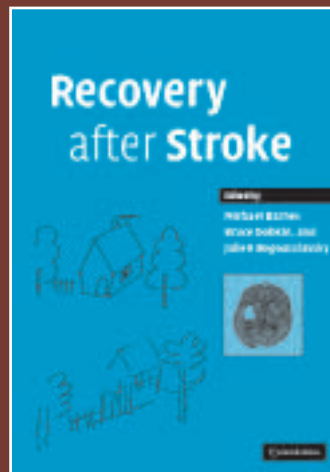
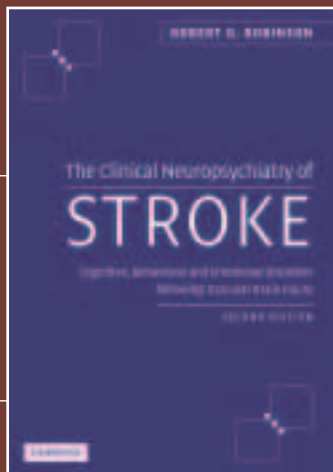
'This book provides a good overview of the use of MRI in stroke and is of educational benefit to both clinicians and radiologists involved in the care of patients with stroke and has started to take on some very important issues ...'

NEURORADIOLOGY

Contents: 1. The importance of specific diagnosis in stroke patient management; 2. Limitations of current brain imaging modalities in stroke; 3. Clinical efficacy of CT in acute cerebral ischemia; 4. Computerized tomographic based evaluation of cerebral blood flow; 5. Technical introduction to MRI; 6. Clinical use of standard MRI; 7. MR Angiography of the head and neck: basic principles and clinical application; 8. Stroke MRI in intracranial hemorrhage; 9. Using diffusion-perfusion in animal model for drug development; 10. Localisation of stroke syndromes using Diffusion-Weighted MR Imaging; 11. Magnetic resonance imaging in transient ischemic attacks: clinical utility and insights into pathophysiology; 12. Perfusion-weighted magnetic resonance imaging in stroke; 13. Perfusion imaging with arterial spin labelling; 14. Clinical role of echoplanar MRI in stroke; 15. The ischemic penumbra; 16. New MR techniques to select patients for thrombolysis in acute stroke; 17. MRI as a tool in stroke drug development; 18. Magnetic resonance spectroscopy in stroke; 19. Functional magnetic resonance imaging and stroke.

2003 280pp 127 illustrations
978 0 521 80683 1 (0 521 80683 6) • HB • £90.00





New Edition

The Clinical Neuropsychiatry of Stroke

Cognitive, Behavioral and Emotional Disorders following Vascular Brain Injury

2nd edition

Robert G. Robinson

College of Medicine, University of Iowa, USA

This fully revised new edition covers the range of neuropsychiatric syndromes associated with stroke, including cognitive, emotional and behavioural disorders such as depression, anxiety and psychosis. Since the last edition there has been an explosion of published literature on this topic and the book provides a comprehensive, systematic and cohesive review of this new material. There is a growing recognition among a wide range of clinicians and allied healthcare staff that post-stroke neuropsychiatric syndromes are common and serious. Such complications can have a negative impact on recovery and even survival.

Review from 1st edition:

'A helpful and 'compendious' review and reference source – and in these days of multi-authorship, the more remarkable for being a one-author work.'

INTERNATIONAL JOURNAL OF GERIATRIC PSYCHIATRY

Features

- Revised and updated to reflect the explosion of relevant research
- Comprehensive, cohesive and systematic presentation from a leading researcher in the field
- Describes the most recent studies in pre-emptive and preventive therapeutic interventions

Contents: 1. Recent trends in the epidemiology of stroke; 2. Historical perspective; 3. Brain organization and cerebral basis of emotion; 4. Vascular anatomy and classification of stroke; 5. Diagnosis of depression; 6. Prevalence of depressive disorders; 7. Phenomenology and specificity of depressive disorders; 8. Natural course of depression; 9. Delayed-onset depression (proofed); 10. Relationship to lesion location; 11. Relationship of depression to cerebral dominance and structural asymmetries; 12. Relationship of depression to bilateral hemisphere brain injury; 13. Relationship of depression to physical impairment; 14. Relationship to cognitive impairment and treatment; 15. Relationship of aphasia to depression; 16. Relationship of depression to social functioning; 17. Relationship to premorbid risk factors; 18. Mortality and treatment; 19. Suicidal thoughts and plans; 20. Biological markers; 21. Mechanisms of poststroke depression; 22. Treatment of poststroke depression; 23. Prevention of poststroke depression; 24. Prevalence and clinical symptoms; 25. Clinical and lesion correlates of poststroke mania; 26. Bipolar disorder following stroke; 27. Mechanism of mania following stroke; 28. Treatment of mania following stroke; 29. Prevalence and specificity of clinical symptoms; 30. Clinical and lesion correlates; 31. Longitudinal course; 32. Relationship of anxiety to outcome; 33. Mechanism and treatment of poststroke anxiety disorder; 34. Psychosis; 35. Anosognosia and denial of illness; 36. Catastrophic reaction; 37. Apathy; 38. Disturbance of prosody; 39. Irritability and aggression; 40. Pathological laughing and crying; 41. Summary and future directions.

January 2006 512pp 140 illustrations

978 0 521 84007 1 (0 521 84007 4) • HB • £85.00

Recovery after Stroke

Edited by Michael P. Barnes

University of Newcastle upon Tyne, UK

Bruce H. Dobkin

University of California, Los Angeles, USA

Julien Bogouslavsky

Université de Lausanne, Switzerland

One third of people after stroke, having survived the first few weeks, return home with significant residual disability, and can therefore benefit from an active, multidisciplinary rehabilitation programme. This is a comprehensive guide to rehabilitation after stroke. It sets out the basic neuroscientific principles that underlie brain recovery, with chapters on neural plasticity and neural imaging, and describes appropriate rehabilitation strategies for the many different functional problems that can arise after stroke. It is an essential reference for all members of the multidisciplinary stroke rehabilitation team.

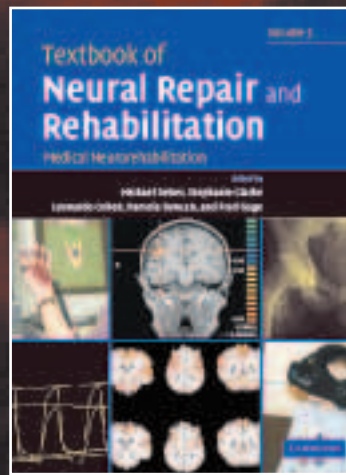
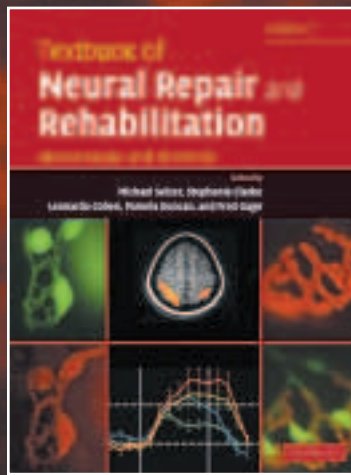
Features

- Most comprehensive guide available to rehabilitation after stroke
- Covers all the important post-stroke syndromes, together with relevant basic neuroscience
- Written by world authorities, for the entire multidisciplinary rehabilitation team

Contents: 1. Strokes: background/epidemiology/aetiology/avoiding recurrence; 2. Principles of recovery after stroke; 3. Regenerative ability in the central nervous system; 4. Cerebral reorganisation after sensorimotor stroke; 5. Imaging brain in recovery after stroke; 6. Measurement in stroke - disability and quality of life; 7. Evidence based stroke rehabilitation; 8. Is early rehabilitation useful?; 9. Community rehabilitation after stroke; 10. Physical therapy and assessment; 11. Movement disorders after stroke; 12. Post-stroke spasticity and pain; 13. Sensory loss and proprioceptive rehabilitation; 14. Dysphagia; 15. Continence after stroke; 16. Sexual problems after stroke; 17. Rehabilitation of visual disorders after stroke; 18. Dysphasia and dysarthria; 19. Cognitive problems after stroke; 20. Dementia after stroke; 21. Depression and fatigue after stroke; 22. Sleep disorders after stroke; 23. Assistive technology; 24. Vocational rehabilitation; 25. A patient's perspective.

2005 668pp 43 illustrations

978 0 521 82236 7 (0 521 82236 X) • HB • £100.00



Textbook of Neural Repair and Rehabilitation

Volume 1: Neural Repair and Plasticity

Edited by Michael Selzer

University of Pennsylvania

Stephanie Clarke

Université de Lausanne, Switzerland

Leonardo Cohen

National Institute of Health, Bethesda, USA

Pamela Duncan

University of Florida, USA

and Fred Gage

The Salk Institute, California, USA

A comprehensive coverage of the science and practice of neurological rehabilitation. This volume, *Neural Repair and Plasticity*, covers the basic sciences relevant to recovery of function following injury to the nervous system, reviewing plasticity in the normal CNS, mechanisms of neuronal death, axonal regeneration, stem cell biology, and neuron replacement. Edited and written by leading international authorities, it is an essential resource for neuroscientists and provides a foundation for the work of clinical rehabilitation professionals.

Contents: 1. Anatomical and biochemical plasticity of neurons: sprouting, pruning, denervation supersensitivity; 2. Learning and memory: basic principles and model systems; 3. Short-term plasticity: Facilitation and post-Tetanic potentiation; 4. Long-Term potentiation and long-term depression; 5. Cellular and molecular mechanisms of associative and non-associative learning; 6. Plasticity of mature and developing somatosensory systems; 7. Activity-dependent plasticity in the intact spinal cord; 8. Plasticity of cerebral motor functions: implications for repair and rehabilitation; 9. Plasticity in visual functions; 10. Plasticity in auditory functions; 11. Cross-modal plasticity in sensory systems; 12. Attentional modulation of cortical plasticity; 13. Plasticity in the injured spinal cord; 14. Plasticity after brain lesions; 15. From bench to bedside: influence of theories of plasticity on human neurorehabilitation; 16. Neuronal death and rescue: neurotrophic factors and anti-apoptotic mechanisms; 17. Mechanisms of axon disruption and rescue; 18. Adult neurogenesis and neural precursors, progenitors, and stem cells in the adult CNS; 19. Guidance of axons during development and regeneration; 20. Synaptogenesis; 21. Inhibitors of axonal regeneration; 22. Effects of the glial scar and extracellular matrix molecules on axon regeneration; 23. Trophic factors and their influence on regeneration; 24. Intraneuronal determinants of regeneration; 25. Neuronal transplantation therapy for neurodegenerative diseases (Parkinson's, Alzheimer's, Huntington's); 26. Cell replacement in spinal cord injury; 27. Dysfunction and recovery in demyelinated and dysmyelinated axons; 28. Regeneration of peripheral nerve; 29. Transplantation of Schwann cells and olfactory ensheathing glia to promote regeneration in the CNS, 30 Trophic factor delivery by gene therapy; 31. Assessment of sensorimotor function after spinal cord injury and repair; 32. Molecular therapies for neurodegenerative diseases; 33. Biomimetic design of neural prostheses; 34. Brain-computer interfaces for communication and control; 35. Status of neural repair clinical trials in brain diseases.

March 2006 641pp 118 illustrations

978 0 521 85641 6 (0 521 85641 8) • HB • c. £95.00

Textbook of Neural Repair and Rehabilitation

Volume 2: Medical Neurorehabilitation

This volume, *Medical Neurorehabilitation*, can stand alone as a clinical handbook for neurorehabilitation. It covers the practical applications of the basic science principles presented in volume 1, provides authoritative guidelines on the management of disabling symptoms, and describes comprehensive rehabilitation approaches for the major categories of disabling neurological disorders. This book and its companion are an essential resource for neuroscientists and provide a foundation for the work of clinical neurorehabilitation professionals.

Contents: 1. Parameters of exercise training for individuals with neurological impairments; 2. Outcomes measurement: basic principles and applications in stroke rehabilitation; 3. Electromyography in neurorehabilitation; 4. Evoked potentials in neurorehabilitation; 5. Human voluntary motor control and dysfunction; 6. Assessments, interventions, and outcome measures for walking; 7. Balance training; 8. Functional electrical stimulation in neurorehabilitation; 9. Functional neuroimaging; 10. Wheelchair design and seating technology; 11. Rehabilitation robotics, orthotics, and prosthetics; 12. Environmental control and assistive devices; 13. Virtual reality in neurorehabilitation; 14. Communication devices; 15. Chronic pain; 16. Loss of somatic sensation; 17. Evaluation and management of spasticity; 18. Balance, vestibular and oculomotor dysfunction; 19. Arm and hand weakness; 20. Gait disorders; 21. Apraxia; 22. Rehabilitation of dementia; 23. Memory dysfunction; 24. Aphasia; 25. Neurorehabilitation of executive function; 26. Unilateral neglect and anosognosia; 27. Rehabilitation of the comatose patient; 28. Sexual neurorehabilitation; 29. Autonomic dysfunction; 30. Plasticity in the neural pathways for swallowing: role in rehabilitation of dysphagia; 31. Deconditioning and energy expenditure; 32. The organization of neurorehabilitation services: the rehabilitation team and the economics of neurorehabilitation; 33. Traumatic brain injury; 34. Neurorehabilitation in epilepsy; 35. Parkinson's disease and other movement disorders; 36. Stroke; 37. Rehabilitation in spinal cord injury; 38. Multiple sclerosis; 39. Cerebral palsy and pediatric neurorehabilitation; 40. Neuromuscular rehabilitation: diseases of the motor neuron, peripheral nerve, and neuromuscular junction; 41. Muscular dystrophy and other myopathies.

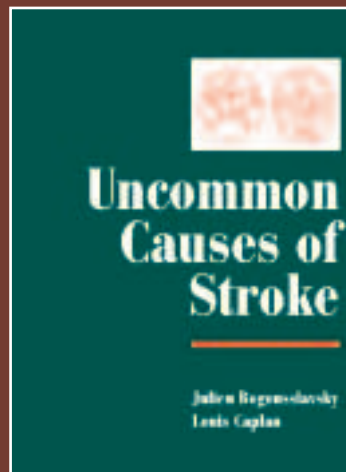
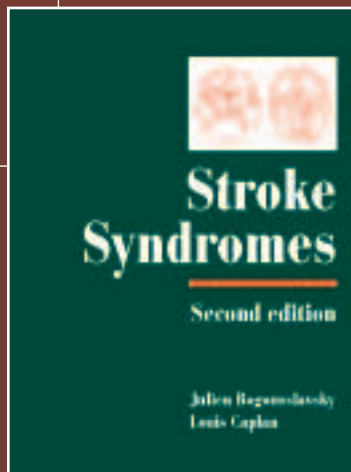
March 2006 728pp 157 illustrations

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Textbook of Neural Repair and Rehabilitation

Also available as a 2 volume set

978 0 521 83639 5 (0 521 83639 5) • HB • c. £150.00



Stroke Syndromes

2nd edition

Edited by Julien Bogousslavsky
Université de Lausanne, Switzerland
Louis R. Caplan
Harvard Medical School, USA

This revised and updated edition remains the definitive guide to patterns and syndromes in stroke. A comprehensive survey of all types of neurological, neurophysiological and other clinical dysfunction due to stroke, the book is organised to make pattern recognition easier. It contains descriptions of clinical problems encountered in stroke patients and their differential diagnosis, and will enable clinicians to differentiate between possible locations on the basis of symptoms and signs. A companion volume, *Uncommon Causes of Stroke*, completes this highly authoritative reference work.

'This comprehensive work will provide its owner with a ready source of reference for a multitude of questions that might arise in the evaluation and localization of individual stroke patients.'

EUROPEAN NEUROLOGY

Features

- Fully revised and updated edition of the definitive guide to stroke syndromes
- Editors are leading international authorities in stroke medicine
- Text has been expanded to include companion volume on uncommon causes of stroke

Contents: Preface to second edition; Preface to first edition; Part I. Clinical Manifestations: 1. Stroke onset and courses; 2. Clinical types of transient ischemic attacks; 3. Hemiparesis and other types of motor weakness; 4. Sensory abnormalities; 5. Cerebellar ataxia; 6. Headaches: strokes symptoms and signs; 7. Eye movement abnormalities; 8. Cerebral visual dysfunction; 9. Visual symptoms (eye); 10. Vestibular syndromes and vertigo; 11. Auditory dysfunction; 12. Abnormal movements; 13. Seizures and stroke; 14. Disturbances of consciousness and sleep-wake functions; 15. Aphasia and stroke; 16. Agitation and delirium; 17. Frontal-lobe syndromes; 18. Memory loss; 19. Neurobehavioural aspects of deep hemisphere; 20. Right hemisphere syndromes; 21. Poststroke dementia; 22. Disorders of mood; 23. Agnosias, apraxias, callosal dysconnection syndromes; 24. Muscle, peripheral nerve and autonomic changes; 25. Dysarthria; 26. Dysphagia and aspiration syndromes; 27. Respiratory dysfunction; 28. Clinical aspects and correlates of stroke; Part II. Vascular Topographic Syndromes: 29. Arterial territories of human brain; 30. Superficial middle cerebral artery; 31. Lenticulostriate arteries; 32. Anterior cerebral artery; 33. Anterior choroidal artery; 34. Thalamic infarcts and hemorrhages; 35. Caudate infarcts and hemorrhages; 36. Posterior cerebral artery; 37. Large and panhemispheric infarcts; 38. Multiple, multilevel, and bihemispheric infarcts; 39. Midbrain infarcts; 40. Pontine infarcts and hemorrhages; 41. Medullary infarcts and hemorrhages; 42. Cerebellar stroke syndromes; 43. Extended infarcts in the posterior fossa (brainstem/cerebellum); 44. Border-zone; 45. Classical lacunar syndromes; 46. Putaminal hemorrhages; 47. Lobar hemorrhages; 48. Intraventricular hemorrhages; 49. Subarachnoid hemorrhages; 50. Brain venous thrombosis syndromes; 51. Carotid occlusion; 52. Syndromes related to large artery thromboembolism within the vertebrobasilar arterial system; 53. Spinal stroke syndromes.

2001 770pp 405 illustrations
978 0 521 77142 9 (0 521 77142 0) • HB • £190.00

Uncommon Causes of Stroke

Edited by Julien Bogousslavsky
Université de Lausanne, Switzerland
and Louis R. Caplan
Harvard Medical School, USA

Published as a companion to the second edition of *Stroke Syndromes*, this comprehensive reference provides in-depth descriptions of many rare and relatively uncommon causes of stroke, emphasizing pattern recognition in the location and diagnosis of stroke. For all neurologists, neurosurgeons, neuroradiologists and vascular surgeons, it is a unique scientific and clinical resource, and an essential reference to help physicians diagnose and treat stroke patients who do not fit well into the usual clinical categories.

... stands alone as a readable text ... There is no doubt in my mind that this is a book worth having. I would recommend buying a personal copy and predict that it will become a standard text to be found in all departmental libraries.'

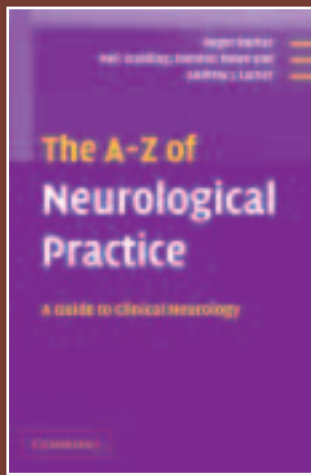
NEURORADIOLOGY

Contents: 1. Isolated angiitis of the central nervous system; 2. Temporal arteritis; 3. Herpes zoster related vasculopathy and other viral vasculopathies; 4. Polyarteritis nodosa and Churg–Strauss syndrome; 5. Takayasu disease; 6. Bùrgers's Disease (thrombangiitis obliterans); 7. Cerebral vasculitis and stroke in patients with cerebral cysticercosis (tuberculosis and mycosis); 8. Systemic lupus erythematosus; 9. Antiphospholipid antibody syndrome; 10. Disseminated intravascular coagulation; 11. Coagulation disorders; 12. Moschowitz syndrome (thrombotic thrombocytopenic purpura); 13. Hyperviscosity and stroke; 14. Calcium, hypercalcemia, magnesium and brain ischemia; 15. Cerebral vasoconstriction syndromes; 16. Eclampsia and stroke during pregnancy and the puerperium; 17. Stroke and substance abuse; 18. Paraneoplastic strokes; 19. Eales retinopathy; 20. Behçet's disease; 21. Kohlmeier–Degos disease (malignant atrophic papulosis); 22. Inflammatory bowel disease; 23. Acute posterior multifocal placoid pigment epitheliopathy; 24. Sweet's syndrome (acute febrile neutrophilic dermatosis); 25. Nephrotic syndrome and stroke; 26. Kawasaki syndrome; 27. Epidermal nevus syndrome; 28. Pulmonary arteriovenous fistulas; 29. Cerebrovascular complications of Rendu–Osler disease (hereditary hemorrhagic telangiectasia); 30. Cervicocephalic arterial dissections; 31. Cerebral amyloid angiopathies; 32. Moyamoya; 33. Sneddon's syndrome; 34. Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy; 35. Fabry's disease; 36. Metabolic causes of strokes; 37. Marfan disease; 38. Pseudoxanthoma elasticum; 39. Ehlers–Danlos syndrome; 40. Progeria; 41. Microangiopathy of the retina, inner ear and brain: Susac's syndrome, 'SICRET' syndrome, RED-M syndrome or retinocochleocerebral arteriopathy; 42. Hereditary endotheliopathy with retinopathy, nephropathy and stroke (HERNS); 43. MELAS and stroke in mitochondrial diseases; 44. Sturge–Weber syndrome; 45. Von Hippel–Lindau disease; 46. Cerebro–vascular manifestations in neurofibromatosis; 47. Bone disorders and cerebrovascular disease; 48. Cervical artery dissection syndromes; 49. Other uncommon angiopathies.

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978 0 521 77145 0 (0 521 77145 5) • HB • £190.00

Stroke Syndromes and Uncommon Causes of Stroke

Also available as a 2 volume set
978 0 521 80258 1 (0 521 80258 X) • HB • £350.00



Also of Interest

The A-Z of Neurological Practice

Roger A. Barker
Cambridge Centre for Brain Repair
Neil Scolding
Frenchay Hospital, Bristol, UK

Dominic Rowe
RNSH, New South Wales, Australia
Andrew J. Larner
Walton Centre for Neurology/Neurosurgery, Liverpool, UK

This is a pocket-sized ready-reference to neurology. Organised from A to Z, the content consists of a series of entries, each one describing, in a readable and accessible style, an aspect of neurology. This ranges from providing overviews of major groups of diseases (e.g. the dementias) to more detailed coverage of specific disease categories (e.g. Alzheimer's disease). Specific neurological conditions are described according to a very structured template covering the definition of the condition, its clinical features, investigation, pathogenesis and treatment, finishing with a small number of relevant and up-to-date references. In addition, there are hints about differential diagnosis with extensive cross referencing between entries. This will become an essential resource for those undertaking training in neurology, will be of interest to those with interests closely allied to neurology (e.g. neurosurgery, neurorehabilitation).

Features

- Succinct and structured coverage of neurology
- Organised for ease of access and navigation

2004 900pp
978 0 521 62960 7 (0 521 62960 8) • PB • £35.00

Diseases of the Nervous System Clinical Neuroscience and Therapeutic Principles Third edition

Edited by Arthur K. Asbury
*University of Pennsylvania School
of Medicine, USA*
Guy M. McKhann
*The Johns Hopkins University School
of Medicine, Baltimore, USA*

W. Ian McDonald
University College London, UK
Peter J. Goadsby
University College London, UK
and Justin C. McArthur
*The Johns Hopkins University School of Medicine,
Baltimore, USA*

The most comprehensive, up-to-date, reference on diseases of the nervous system currently available. Now in its third edition, the two-volume text is packed with details on the clinical presentations of the neurological disorders, with a focus on the underlying mechanisms that lead to these disorders.

Contents: Part I. Introduction and General Principles; Part II. Disorders of Higher Function; Part III. Disorders of Motor Control; Part IV. Disorders of the Special Senses; Part V. Disorders of Spine and Spinal Cord; Part VI. Disorders of Body Function; Part VII. Headache and Pain; Part VIII. Neuromuscular Disorders; Part IX. Epilepsy; Part X. Cerebrovascular Disorders; Part XI. Neoplastic Disorders; Part XII. Autoimmune Disorders; Part XIII. Disorders of Myelin; Part XIV. Infections; Part XV. Trauma and Toxic Disorders; Part XVI. Degenerative Disorders; Part XVII. Neurological Manifestations of Systemic Conditions.

2002 2194pp 825 illustrations
978 0 521 79351 3 (0 521 79351 3) • HB • £320.00

Clinical MR Neuroimaging

Diffusion, Perfusion and Spectroscopy

Edited by Jonathan H. Gillard
University of Cambridge, UK
Adam D. Waldman
Charing Cross Hospital, London, UK
and Peter B. Barker
The Johns Hopkins University, Baltimore, USA

The physiological magnetic resonance techniques of diffusion imaging, perfusion imaging and spectroscopy offer insights into brain structure, function and metabolism. This book provides the reader with a thorough review of the underlying physical principles of each of these methods, as well as comprehensive coverage of their clinical applications. Topics covered include single- and multiple-voxel MRS techniques, MR perfusion based on both arterial spin labelling and dynamic bolus tracking approaches, and diffusion-weighted imaging, including techniques for mapping brain white matter fiber bundles. Clinical applications are reviewed in depth for each technique, with case reports included throughout the book. Attention is also drawn to possible artifacts and pitfalls associated with these techniques.

Features

- Comprehensive review of advanced MRI techniques and applications
- Explains clinical applications
- Case reports included throughout the book

2004 852pp 485 illustrations
978 0 521 82457 6 (0 521 82457 5) HB £195.00

2005 BMA Medical Book Competition
Highly Commended



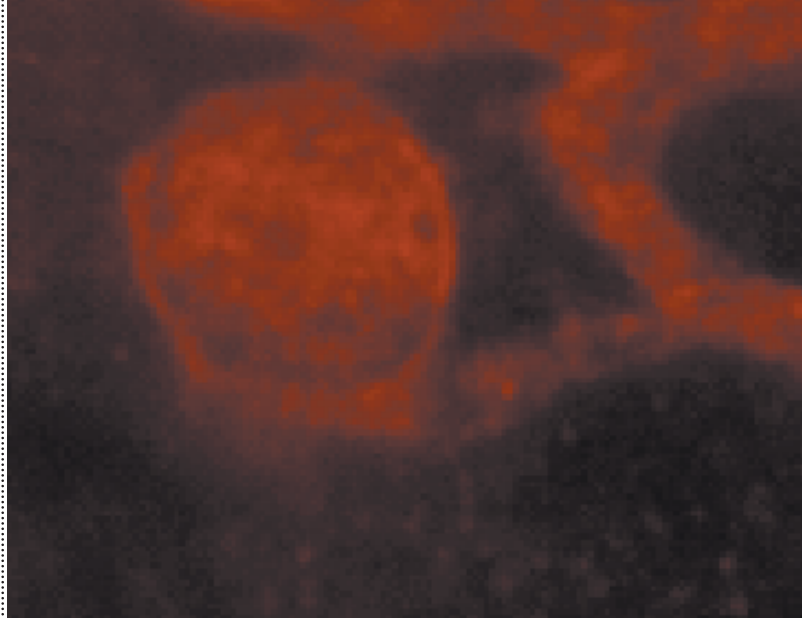
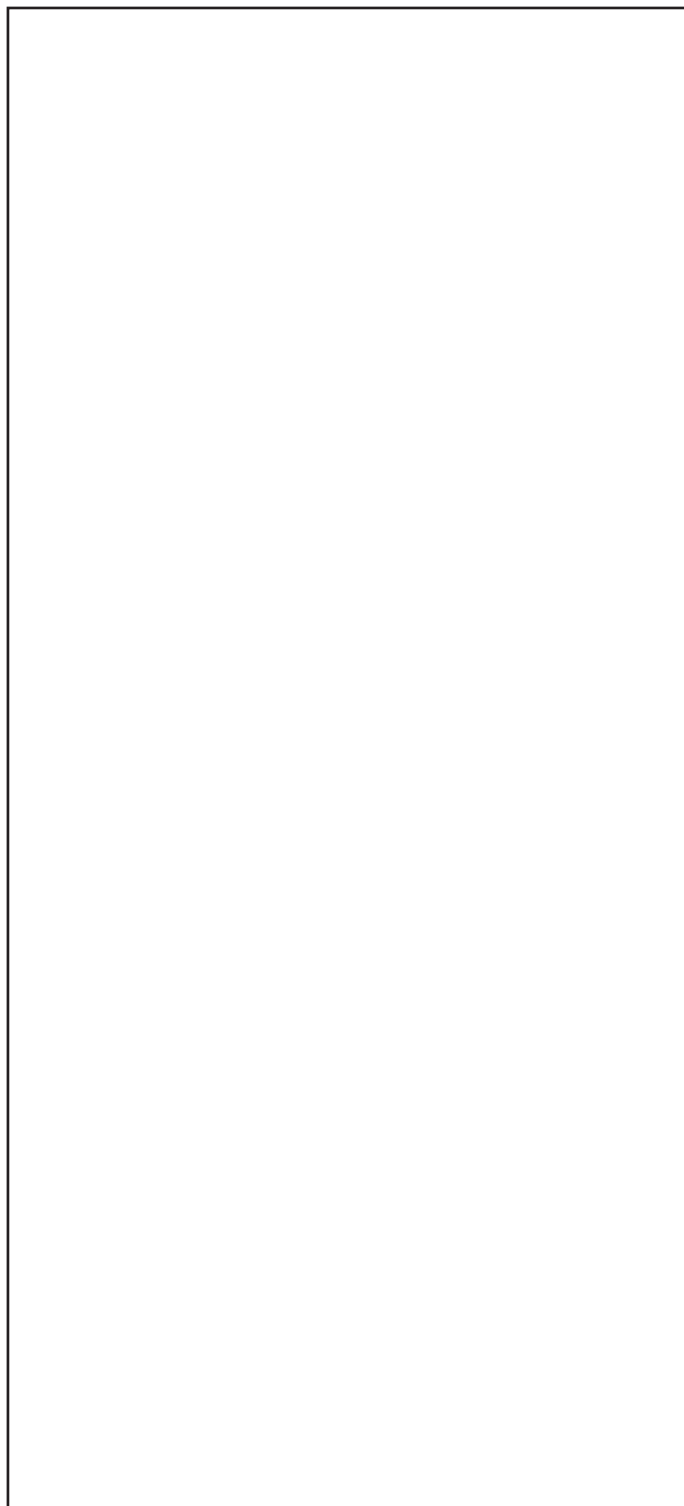
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Forthcoming

Stroke and Cerebrovascular Disease in Childhood

Edited by Vijeya Ganesan

Institute of Child Health, University College London, UK

Fenella Kirkham

Institute of Child Health, University College London and Great Ormond Street Hospital, London, UK

In this book a team of eminent clinicians, neurologists and researchers from Britain, Europe and Canada provide an up-to-the-minute account of all aspects of stroke and cerebrovascular disease in children, ranging from a historical perspective to future directions, through epidemiology, the latest neuroimaging techniques, neurodevelopment, co-morbidities, diagnosis and treatment. The authors' practical approach to the clinical problems makes this essential reading for practising clinicians. It will also be of interest to researchers in the field.

Contents: 1. Historical perspective; 2. Epidemiology; 3. Development of the cerebral circulation; 4. Neuroimaging: clinical aspects; 5. Recent advances in MR imaging; Arterial Ischaemic Stroke: clinical presentation and differential diagnosis: 6.1 Anterior circulation stroke; 6.2. Posterior circulation stroke; 6.3. Overview of aetiology; 6.4. Cerebrovascular disease in children with AIS; 6.5. Moyamoya; 6.6. Dissection; 6.7. Cerebral vasculitis; 6.8. 'Transient cerebral arteriopathy'; 7. Stroke in Children with Underlying Illness: 7.1. Sickle cell disease; 7.2. Cardiac disease; 8. Risk Factors for Arteriopathy and Stroke: 8.1. Haematological; 8.2. Infection; 8.3. Other risk factors; 8.4 Diagnostic approach; 8.5. Acute Management; 8.6. Recurrence and prophylaxis; 8.7. Outcome and rehabilitation; 8.8. Cognitive sequelae; 9. Cerebral venous thrombosis; 10. Haemorrhagic stroke: 10.1. Epidemiology and clinical presentation; 10.2. Interventional neuroradiology; 10.3. Surgical treatment; 10.4. Stereotactic radiosurgery; 11. Neonatal stroke; 12. Metabolic stroke; 13. Hemiplegic migraine; 14. Alternating hemiplegia; 15. Sturge-Weber syndrome; 16. Vein of Galen malformation; 17. Future directions.

International Review of Child Neurology (Mac Keith Press)

A Mac Keith Press publication

2006 180pp

978 1 898 68334 6 (1 898 68334 4) • HB • c. £50.00

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