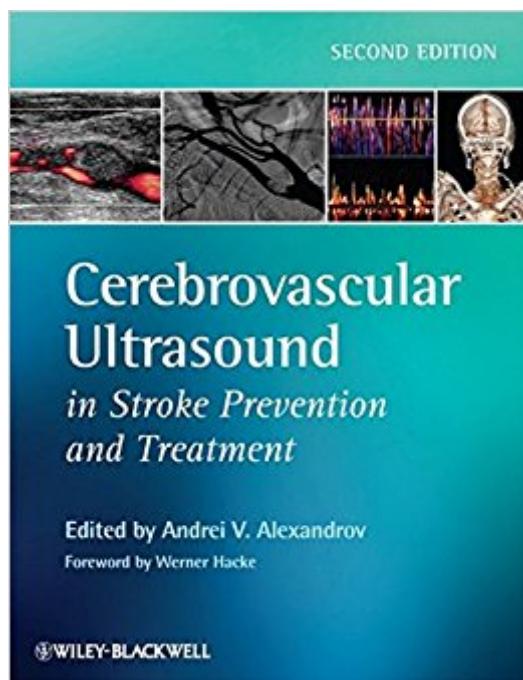


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# Cerebrovascular Ultrasound In Stroke Prevention And Treatment



## Synopsis

Effective stroke therapy can be improved through real-time monitoring of the neurological and cardiovascular responses to treatment. This requires crucial knowledge on behalf of both the sonographer and stroke physician to make the best decisions for the patient so as to minimize the damage caused by the original stroke and the risk of further stroke. *Cerebrovascular Ultrasound in Stroke Prevention and Treatment, Second Edition*, takes a practical approach to the examination of patients, the interpretation of ultrasound studies and the application of cerebrovascular ultrasound in the development of management and treatment studies, assisting neurologists, radiologists, and ultrasonographers in stroke therapy.

## Book Information

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## Customer Reviews

"This is a one-of-a-kind book dedicated to cerebrovascular ultrasound as an extension of the neurovascular examination. Neurosonology is a very exciting emerging field and this book is well written with excellent illustrations, didactic, and easy and fun to read. . . This is a great contribution to the field of vascular neurology and it will expand and enhance the knowledge of vascular neurosonology, hopefully making it more widely available in clinical practice." (Doody's, 28 October 2011) Â

Review of the textbook Â“Cerebrovascular Ultrasound in Stroke prevention and

Treatment. Edited by Andrei V. Alexandrov Assistant Professor of Neurology and Radiology, Director, STAT Neurosonology Service and Center for Non-invasive Brain Perfusion Studies Stroke Program, University of Texas-Houston Medical School Houston Texas First Edition, 2004. 267 pages. Blackwell Publishing [www.blackwellpublishing.com](http://www.blackwellpublishing.com), [www.blackwellfutura.com](http://www.blackwellfutura.com) This book has been produced by an international team of contributors, edited at the University of Texas and is aimed at three types of individuals: beginners to learn the basics of ultrasound testing, advanced users to learn differential diagnosis and clinicians involved in treating stroke patients. The text is packed full of useful practical information and has excellent illustrations and TCD images. However, the content is not basic and beginners wishing to start TCD would be advised to read simpler texts prior to this book. It is divided into five parts: Part I-How to perform ultrasound tests covers both extracranial and intracranial ultrasound examination with an emphasis on standardisation for carotid duplex. The techniques for carrying out single-gated spectra (TCD), power-motion Doppler (M-mode) and transcranial colour duplex imaging (TCCS) are outlined in a simple and clear manner. The advantages of M-mode (easier window-finding) and TCCS (identifying anomalies of the circle of Willis) for the beginner are emphasised but the caveat for both M-mode and TCCS is spectral resolution and it is acknowledged that experienced operators will still use single-gated TCD. Part II-Haemodynamic principles is a "heavy" section but will be of particular interest to anyone working in the intensive care/surgical setting. The chapter on practical models of cerebral haemodynamics importantly emphasises spectral waveform recognition rather than the usual emphasis on velocity. Part III-Criteria for interpretation. is an excellent section covering diagnostic and validation criteria for carotid stenosis, carotid and vertebral artery dissection and occlusion, intracerebral arterial vasospasm, embolism detection, with a good description of the TIBI ultrasound classification for large vessel occlusion. Part IV—Ultrasound in stroke prevention and treatment covers ultrasound findings of specific diseases including sickle cell disease, cardiovascular risk, secondary stroke prevention, acute ischaemic stroke, subarachnoid haemorrhage. The chapter on ischaemic stroke discusses the potential therapeutic use of TCD and is well worth reading. Part V—Select clinical applications and clinical vignettes includes an interesting collection of anecdotal vascular cases covering areas, which can give diagnostic difficulty. The exciting parts of this book have to be the emphasis on the potential therapeutic use of diagnostic TCD and the focus on waveform analysis rather than velocity measurements. This opens up TCD as a bedside tool, which will hopefully mean that more clinicians will start using this powerful technique. Dr Paul Syme Consultant Physician Lead Stroke Physician NHS Borders Part-time Senior lecturer University of Edinburgh

There is a \$500,000 a year business at any mid-to-large size medical center in this book for a vascular sonographer or neurologist willing to master the material in this book assuming the medical staffs care about preventing strokes, treating strokes, and want the best outcomes for their patients.

I keep this book on my main shelf. It's the neurosonology Bible. Recommended for those who love neurosonology or who want to know more about cerebrovascular disease.. An wonderful book for neurology residents

great

One and only kind of practical book. Every thing that we need to know regarding TCD waveforms are in here. Very easy to read and understand . Please read the Editorial to understand the importance of TCD and all the modern technical tools in the management of stroke and CNS problems in the current Era of modern medicine.

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