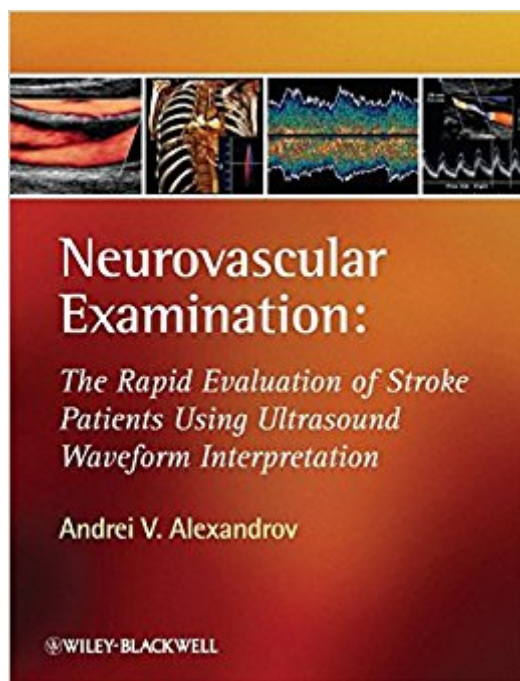




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# Neurovascular Examination: The Rapid Evaluation Of Stroke Patients Using Ultrasound Waveform Interpretation



## Synopsis

The use of neurovascular ultrasound is of increasing importance in neurological practice, both for radiologists and increasingly by neurologists themselves. Written by the world's most renowned expert, this book explains ultrasound examination of a stroke patient scanning protocols interpretation of the results Case examples (with a standard template presentation correlating presentation to waveform output) reinforce the book's practical nature. Illustrated with photos of the tests, explanations, and with actual waveforms, images, and result interpretation, and enhanced with 'pearls' and 'avoiding pitfalls' features, it is a practical reference for those learning ultrasound as well as those using ultrasound in their practices.

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## Customer Reviews

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Stroke is a complex and dynamic process. When a full neurological examination is not a feasible option, how do you: • detect stroke; understand its mechanism; tailor treatment strategies; and preserve brain tissues to encourage functional restoration? *Neurovascular Examination* answers these questions and shows how you can integrate ultrasound imaging technology into your practice to improve stroke outcomes. • Written by Dr Alexandrov, a world renowned expert on fusing neurological expertise with the insights offered by real-time ultrasound, this book explains: • rapid and focused neurological and ultrasound examination of a stroke patient applied principles of physics, hemodynamics, and scanning protocols interpretation of the results with differential diagnosis case-based problem solving. The use of neurovascular ultrasound is of increasing importance for directing neurologists to the vascular obstruction, the pathological process and, most importantly, the dynamics of cerebral blood flow after the event. This allows development of short and long term management plans for that specific patient. Throughout *Neurovascular Examination* the functional significance or hemodynamic effects of vascular lesions are emphasized. • Stroke is presented as a dynamic process that needs careful and expert monitoring for optimal management. • The how-to approach emphasizes essential concepts over mathematical complexities. • A straightforward explanation of the physics of flow sets the scene for clinical action and common hemodynamic scenarios. You will learn how to differentiate key physiological details that are beyond the static, anatomical limits of other imaging modalities. • Case examples with a standard template format correlate presentation to waveform output. • Featuring test photos, explanations, actual waveforms, images, result interpretation, • “pearls”™ and “avoiding pitfalls”™ features throughout, *Neurovascular Examination* enables you to gain better knowledge of your patient’s stroke so your patient has a better chance of recovery.

This textbook is unique concerning transcranial Doppler because Dr. Alexandrov does not edit other people’s work but concentrates on case presentations that clinicians dealing with stroke and TIA patients will all relate to. I’ve done 20,000 transcranial Doppler studies over the past 30 years. I learned how to better differentiate hyperemic flow from hyperdynamic flow and was introduced to the Soustiel ratio which deals with posterior circulation vasospasm. The rest was pure confirmation of hemodynamic principles that work on stroke patients time and time again. It is hard to believe in the United States CTA and MRA are the only tools available for cerebral circulation analysis in a very large percentage of mid-to-large sized hospitals. There is an educational breakdown somewhere. Thomas Alexander - Tyler, TX

As a certified ASN member I recommend this book not only to those who like neurosonology but also to all who work with vascular neurology ..It s an essential book. The best ever made .Andrei is the best in the field and loves to teach, doing it very wellRecommended!!!

Andrei's best material. If you do, interpret or use TCD, this is a must read.

A reference

A direct and enlightening book. In few pages it answered a lot of old doubts about the theme. I do recommend.

The content in the book is good yet not in depth as I had hoped. Having read other text books pertaining to the cerebrovascular examination I find the content in this book does not justify the price. I was very dissatisfied with the lack of images, diagrams, and content overall. Once again the content is good but limited in many respects... I didn't find anything innovative about this book that makes it stand out from other similar texts. Overall it is just an ok book but definitely not worth the price.

The author spends considerable time explaining his unique approach to stroke diagnosis and management, an approach that is not shared by all. This detracts from the real value of the book that explains the physics of sonography somewhat more lucidly than other works. The book should have had better editing to correct grammatical and typographical errors and sometimes confusing statements. Too much time is spent on techniques that are rarely used whereas other applications (including the diagnosis of circulatory arrest) are only superficially discussed. A useful book for beginners.

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