



Preface

Vascular Ultrasound



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Guest Editor

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Rapid advancements in cross-sectional imaging systems over the past two decades have provided a wide array of diagnostic tools for the practicing radiologist. Advances in computer technology with faster processing and miniaturization have permitted tremendous anatomic imaging advances in CT, MR imaging, and ultrasound.

One of the unique capabilities of ultrasound is its elegant depiction of blood flow, both the real-time anatomic display, as well as the physiologic information of blood flow velocity and flow direction. In this inaugural issue of the *Ultrasound Clinics*, we felt it was important to dedicate part of the issue to this significant ultrasound feature. As such, we have selected topics that emphasize the foundation of vascular ultrasound, the technical aspects of Doppler imaging, and the basic principles of carotid artery imaging. In addition, subjects include advances in vascular Doppler imaging, including imaging of nonvascular structures, advanced waveform analysis, Doppler applications in gynecologic imaging, and new Doppler frontiers such as trans-

cranial Doppler imaging and Doppler-guided interventional arterial therapy. The hope is to familiarize readers with the essentials of Doppler imaging in the modern ultrasound laboratory and to excite them with the future possibilities of this ever-changing and advancing technology.

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