

Section 1: Basics

1. The Hemodynamics of Vascular Disease
2. The Physics and Instrumentation of Ultrasound Imaging in Vascular Disease
3. Doppler Flow Imaging and Spectral Analysis

Section 2: Cerebral Vessels

4. Anatomy of the Cerebral Vasculature
5. Carotid Sonography: Protocols and Technical Considerations
6. Evaluating Carotid Plaque and Intima Media Thickness
7. Ultrasound Assessment of Carotid Stenosis
8. How to Assess Difficult and Uncommon Carotid Cases
9. Ultrasound Assessment of the Vertebral Arteries
10. Ultrasound Assessment of the Intracranial Arteries

Section 3: Extremity Arteries

11. Anatomy of the Upper and Lower Extremity Arteries
12. Physiologic Testing of Lower Extremity Arterial Disease
13. Assessment of Upper Extremity Arterial Disease
14. Ultrasound Evaluation Before and After Hemodialysis Access
15. Ultrasound Assessment of Lower Extremity Arteries
16. Ultrasound Assessment During and After Carotid Peripheral Intervention
17. Ultrasound in the Assessment and Management of Arterial Emergencies

Section 4: Extremity Veins

18. Extremity Venous Anatomy and Technique for US Examination
19. Ultrasound Diagnosis of Lower Extremity Venous Thrombosis
20. Risk Factors and the Role of Ultrasound in the Management of Extremity Venous Disease
21. Diagnostic Testing for Venous Insufficiency
22. Nonvascular Findings Encountered During Venous Sonography

Section 5: Abdomen and Pelvis

23. Anatomy and Normal Doppler Signatures of Abdominal Vessels
24. Ultrasound Assessment of the Abdominal Aorta
25. Ultrasound Assessment Following Endovascular Aortic Aneurysm Repair
26. Doppler Ultrasound of the Mesenteric Vasculature
27. Ultrasound Assessment of The Hepatic Vasculature
28. Duplex Ultrasound Assessment of Native Renal Vasculature
29. Duplex Ultrasound Evaluation of the Uterus and Ovaries
30. Duplex Ultrasound Evaluation of the Male Genitalia
31. Evaluation of Organ Transplants

Section 6: Trends in Vascular Imaging

32. Credentialing, Accreditation and Quality in the Vascular Laboratory

33. Ultrasound Screening for Vascular Disease

34. Correlative Imaging in Vascular Disease

35. Ultrasound Contrast Agents in Vascular Disease