

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