



Vascular Imaging of the Central Nervous System: Physical Principles, Clinical Applications and Emerging Techniques (Current Clinical Imaging)

Joana Ramalho, Mauricio Castillo

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The first book-length reference to thoroughly describe diagnostic and therapeutic advances in the development of vascular radiology over the last decade

The last ten years has seen vascular imaging of the central nervous system (CNS) evolve from fairly crude, invasive procedures to more advanced imaging methods that are safer, faster, and more precise—with computed tomographic (CT) and magnetic resonance (MR) imaging methods playing a special role in these advances.

Vascular Imaging of the Central Nervous System is the first full-length reference text that shows radiologists—especially neuroradiologists—how to optimize the use of the many techniques available in order to increase the sensitivity and specificity of vascular imaging, thereby improving the diagnosis and treatment of individual patients. Each chapter is formatted carefully and divided into two essential parts: The first part describes the physical principles underlying each imaging technique, along potential associated artifacts and pitfalls; the second part addresses clinical applications and novel applications of each method.

With a strong focus on the clinical application of each modality or technique in CNS radiology, this book provides in-depth chapter coverage of:

- Ultrasound Vascular Imaging (UVI)
- Computed Tomography Angiography (CTA)
- Magnetic Resonance Vascular imaging (MRV)
- Digital subtraction angiography (DSA)
- Brain perfusion techniques: CT and MRI
- Plaque imaging
- Intravascular imaging
- Pediatric vascular imaging

Along with numerous illustrations and case studies, *Vascular Imaging of the Central Nervous System: Physical Principles, Clinical Applications, and Emerging Techniques* is an important book for those faced with choosing from the wide range of choices available for clinical practice.

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