

# PREFACE

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Carotid artery stenting has evolved remarkably over the past three decades to become a promising alternative to carotid endarterectomy, especially for patients deemed to have high surgical risks. Several crucial developments have enabled carotid stenting to be performed safely and achieve durable effectiveness in stroke prevention. The key advancements comprise technological innovations, improvement in operator skills and experience, and optimization of patient selection. Modern-day carotid stenting is performed with dedicated carotid self-expanding stents and emboli protection devices, with several FDA-approved platforms that are currently available for use. Nevertheless, despite utilizing the best equipment, carotid stenting can be challenging in unsuitable complex patients with difficult anatomy, and may result in catastrophic cerebral complications. Thus, the vital roles of the interventionist as a gatekeeper in patient selection, and as a meticulous skilled proceduralist entrusted to execute the procedure safely, cannot be underestimated.

This textbook serves as a learning resource on the multifaceted management of patients with carotid artery stenosis, with the key focus on extracranial carotid artery stenting. Details on contemporary aspects of carotid stenting are discussed, including review of supporting studies and guidelines, technical perspectives, and peri-procedural management. This textbook is intended to complement the “hands-on” experience of interventional trainees and established interventionists.

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<http://www.springer.com/978-1-60327-313-8>

Carotid Artery Stenting: The Basics

Saw, J. (Ed.)

2009, X, 264 p., Hardcover

ISBN: 978-1-60327-313-8

A product of Humana Press