

Special Issue

Advances in Percutaneous Coronary Intervention: Techniques, Tools and Outcomes

Message from the Guest Editor

Percutaneous coronary intervention (PCI) continues to advance with the development of new techniques and devices aimed at improving procedural success and long-term outcomes, particularly in complex coronary lesions. This Special Issue highlights contemporary innovations in PCI, including lesion preparation strategies, intravascular imaging guidance, atherectomy technologies, and adjunctive tools that optimize stent deployment and clinical outcomes. Management of heavily calcified coronary artery disease remains a key challenge in interventional cardiology. Atherectomy techniques, especially orbital atherectomy (OA), play an important role in lesion modification and facilitate safer PCI in complex anatomies. OA offers mechanical advantages in eccentric calcification, ostial, tortuous, and bifurcation lesions through its differential sanding mechanism and bidirectional operation. This Special Issue invites original research and reviews focused on innovative PCI techniques, device optimization, procedural outcomes, and complication management, emphasizing real-world experience and clinical relevance.

Guest Editor

Prof. Dr. Takashi Ashikaga

Department of Cardiology, Japanese Red Cross Musashino Hospital, Tokyo, Japan

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Journal of Clinical Medicine
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jcm@mdpi.com

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[jcm](https://mdpi.com/journal/)





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