



Relationship between Coronary Artery Calcification and Coronary Artery Disease: From Diagnosis to Treatment

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Message from the Guest Editor

Dear Colleagues,

Coronary artery calcification is a highly prevalent pathophenotype that is associated with aging, diabetes mellitus, chronic kidney disease, and coronary artery disease. When present, it portends a worse clinical outcome and predicts major adverse cardiovascular events.

Calcified coronary lesions continue to represent a challenge for percutaneous coronary intervention, as they are difficult to dilate, and it is difficult to deliver and implant drug-eluting stents properly. Poor stent deployment is associated with high rates of periprocedural complications and suboptimal long-term clinical outcomes.

Due to the introduction of several adjunctive PCI tools, such as cutting/scoring/high-pressure non-compliant/lithotripsy balloons and atherectomy devices, the treatment of such lesions has become increasingly feasible, predictable, and safe.

In this SI, we welcome authors to submit papers on the relationship between coronary artery calcification and coronary artery disease.

Keywords: coronary calcification; intracoronary imaging; atherectomy; intravascular lithotripsy; cutting balloon; scoring balloon; high-pressure non-compliant balloon





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