



Recent Progress and Future Directions of Interventional Cardiology

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Message from the Guest Editor

From the first percutaneous coronary intervention (PCI) by Andreas Grüntzig in 1977 to patients undergoing robotically assisted PCI within the EVOLUTION study in 2023, interventional cardiology has seen many technical and clinical innovations. We are now well able to tailor physiology and intravascular-imaging-guided interventions to individual needs and to improve patient outcomes following evidence-based algorithms. Alain Cribier's first transcatheter aortic valve implantation in 2002, followed by the PARTNER and EVOLUT trials, established TAVI as the standard of care in high-risk patients with severe aortic stenosis. With growing evidence of the good performance of TAVI-prostheses in intermediate and low-risk patients, advancements towards future trials such as the EXPAND II trial will show whether or not early intervention may further improve patient outcomes. With more and more devices for the treatment of tricuspid and mitral valve disease, the "winner of the race" is yet to be defined.





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