

## **SAPIEN: Tips and Tricks**

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### Abstract

Transcatheter aortic-valve replacement (TAVR) is an emerging and rapidly growing procedure for patients with severe aortic stenosis who are not eligible for surgery or who are at intermediate to high risk surgical complications. With early-generation TAVR devices, these procedures were associated with considerable procedure-related complications. Recently, increased operator experience and enhanced transcatheter valve systems (SAPIEN -> SAPIEN XT -> SAPIEN 3) not only have significantly contribute to improvement of immediate procedural and long-term clinical outcomes, but also have led to a worldwide trend to use TAVR in patients who are at low or intermediate risk. Yet despite marked advancements of the safety and efficacy of the SAPIEN platform, TAVR procedures were still associated with occurrence of adverse periprocedural complications, including vascular injury, bleeding, and paravalvular regurgitation. In this section, we would like to share our experience of TAVR procedures with case discussion and give provide the technical tips and trips for procedural preparation and optimization.