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Autor(en) des Beitrags:
Husser, Oliver; Pellegrini, Costanza; Kessler, Thorsten; Burgdorf, Christof; Thaller, Hannah; Mayr, N Patrick; Ott, Ilka; Kasel, Albert M; Schunkert, Heribert; Kastrati, Adnan; Hengstenberg, Christian

Titel des Beitrags:
Outcomes After Transcatheter Aortic Valve Replacement Using a Novel Balloon-Expandable Transcatheter Heart Valve: A Single-Center Experience.

Abstract:
Evaluation of 30-day outcomes after transcatheter aortic valve replacement (TAVR) with the novel balloon-expandable SAPIEN 3 (S3) transcatheter heart valve (THV) (Edwards Lifesciences, Irvine, California) emphasizing the updated Valve Academic Research Consortium (VARC-2) criteria. Preliminary data on clinical performance with the S3 THV are promising. However, information regarding 30-day outcome is limited. A total of 250 consecutive patients undergoing transfemoral TAVR with the S3 THV at our center were enrolled, and outcomes according to VARC-2 criteria were analyzed at 30 days. The mean age was 81.0 ± 6.2 years, median logistic EuroSCORE (European System for Cardiac Operative Risk Evaluation) and Society of Thoracic Surgeons score were 12.1% and 4.4%, respectively. VARC-2-defined device success was achieved in 244 patients (97.6%); moderate paravalvular leakage developed in 5 patients (2.0%). One patient (0.4%) died of a noncardiac cause and 8 patients (3.2%) had a stroke. Life-threatening bleeding and major vascular complications occurred in 12 (4.8%) and 9 (3.6%) of the patients, respectively. From discharge to 30 days, 5 patients (2.0%) were hospitalized due to valve-related
symptoms or worsening of heart failure. The VARC-2 composite early safety endpoint was observed in 25 patients (10.0%). Permanent pacemaker implantation rate at 30 days was 15.2%. Myocardial infarction, coronary obstruction requiring intervention, valve-related dysfunction, and endocarditis were not observed. We found very good 30-day results using the novel S3 THV with a low rate of clinical events according to VARC-2 criteria. The S3 THV is associated with high procedural success and favorable early safety profile. The need for pacemaker implantations appears to be more frequent than with its predecessor.