

Supplementary table S1. PICOS framework.

PICOS framework

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| Population | Patients with severe aortic stenosis that needs to be treated. Baseline patient characteristics can be found in table 1. |
| Intervention and Comparison | Intervention of interest is a transcatheter aortic valve implantation (TAVI) under local anesthesia (LAS) with optional mild to moderate sedation compared with general anesthesia (GA). |
| Outcome | Outcome parameters to be studied are 30-day mortality, length of hospital stay and pneumonia as primary outcome parameters as well as in-hospital mortality, conversion from LAS to GA, conversion to open heart surgery, major vascular complications, minor vascular complications, major and life-threatening bleeding, minor bleeding, intraprocedural catecholamine treatment, postprocedural catecholamine treatment, red blood cell transfusion, length of ICU stay, new pacemaker implantation, moderate/severe aortic regurgitation, acute kidney injury, myocardial infarction, sepsis as further outcome parameters. |
| Question at issue | Does the use of local anesthesia with optional mild to moderate sedation in TAVI have a favorable effect on complications and outcome in patients with severe aortic stenosis compared with TAVI under general anesthesia? |
| Study design | Randomized controlled trials (RCTs) and observational studies, both prospective and retrospective. |