



# Effective Health Care Transcatheter Aortic Valve Replacement Nomination Summary Document

## Results of Topic Selection Process & Next Steps

- Ongoing research or activities are underway that impact the timing for developing this topic. Therefore, transcatheter aortic valve replacement will be revisited in the future when more data becomes available.

## Topic Description

**Nominator:** Organization

**Nomination Summary:** The nominator identified the safety and effectiveness of transcatheter aortic valve replacement (TAVR) as an area in which significant morbidity, mortality, and variation in utilization exists. The nominator also cited that more information pertaining to TAVR in subgroups such as patients with heart failure, those patients deemed not candidates for surgical aortic valve replacement, women versus men, and elderly patients were of particular interest.

### Staff-Generated PICO

**Population(s):** Patients with severe aortic stenosis

**Intervention(s):** Transcatheter aortic valve replacement (TAVR)

**Comparator(s):** Aortic valve surgery, medical therapy

**Outcome(s):** All-cause mortality, major vascular events, stroke, transient ischemic attacks, acute kidney injury, repeat aortic valve procedures, quality of life

**Key Questions from Nominator:**

1. How do we determine the comparative safety and effectiveness of transcatheter aortic valve replacement in patients with heart failure and within specific high-risk subgroups of interest?

## Considerations

- The topic meets all EHC Program appropriateness and importance criteria. (For more information, see <http://effectivehealthcare.ahrq.gov/index.cfm/submit-a-suggestion-for-research/how-are-research-topics-chosen/>.)
- There are several ongoing clinical trials that address the long-term clinical outcomes, long-term effectiveness, and lifespan of TAVR devices. This topic will be revisited following the publication of these ongoing trials.