



GEN39- Outcomes of valve sparing aortic root replacement procedures in patients with genetically-transmitted thoracic aortic aneurysms

OBJECTIVE: To determine the utilization of valve-sparing aortic root replacement procedures, long-term outcomes, and their impact on quality of life and need for subsequent procedures among GenTAC registrants.

ORGANIZATION

Lead Investigator: Howard Song, MD, PhD

Co-Investigators: Scott LeMaire, MD, Joseph Bavaria, MD

Funding Source: GenTAC

Samples: • None

Data: • Demographic, clinical, surgical, family history, follow-up and imaging data

BACKGROUND AND RATIONALE

Valve-sparing aortic root replacement procedures have been developed over the past 10 years. The advantage of this procedure compared to aortic root replacement with a mechanical valve conduit is that it avoids long-term warfarin anticoagulation and exposure to attendant thromboembolic risk. The potential disadvantage is the unknown durability of the valve-sparing procedure with regard to aortic valve function and the potential need for future aortic valve replacement. While there are large series documenting the durability of valve-sparing aortic root replacement in patients with sporadic aortic root aneurysms, the durability of this procedure in patients with known genetically-transmitted thoracic aortic aneurysms is not known. We propose to use the GenTAC Registry to study utilization of valve-sparing aortic root replacement procedures, long-term outcomes, and their impact on quality of life and need for subsequent procedures among GenTAC registrants.

CONCLUSIONS

Results: • *Results pending*

DESIGN

Specific Aims:

- To determine the utilization of valve-sparing aortic root replacement procedures.
- To determine the medium-term durability of valve-sparing aortic root replacement procedures.
- To determine the impact of valve-sparing aortic root replacement on quality of life.

Inclusion criteria:

- The study population will consist of all subjects enrolled in the GenTAC registry who have had a valve sparing root replacement.

