**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

**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.

**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.

**Samples:**
- None

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

**CONCLUSIONS**

**Results:**
- Results pending