



GEN93 – Adverse Outcomes in the GenTAC Registry

OBJECTIVES: (1) To evaluate the incidence of cardiovascular adverse events in GenTAC participants, including but not limited to death, aortic dissection or rupture, other arterial dissection or rupture, and stroke. (2) To determine disease-specific demographic, phenotypic, genotypic, treatment, or co-morbid characteristics predictive of subsequent adverse events (or composite events) among participants with genetically-triggered thoracic aortic aneurysm.

ORGANIZATION

Lead Investigator: Kathryn Holmes MD

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BACKGROUND AND RATIONALE

The GenTAC Registry is the largest cohort of patients with longitudinal data on genetically triggered thoracic aortic aneurysms. These conditions include Marfan syndrome (MFS), Loeys–Dietz syndrome, vascular Ehlers–Danlos syndrome, Turner syndrome, bicuspid aortic valve with ascending aortic aneurysm, and familial thoracic aortic aneurysm, and those with specific gene mutations associated with aneurysm. In addition to capturing extensive phenotypic and genetic information GenTAC ‘s prospective study design permitted gathering data on death, aortic dissection or rupture, stroke and other adverse events.

DESIGN

- Method:*
- Data will be described by means with standard deviations and frequencies with percentages.
 - To investigate between disease group differences in demographic data and outcome measurements, bivariate chi-squared and t-tests for categorical and continuous variables, respectively, will be used.
 - In order to account for multiple testing and minimize the potential of falsely concluding a significant

difference, the Holm-Bonferroni post-hoc test may be used for comparisons involving the total population.

- Inclusion criteria:*
- GenTAC study participants
- Samples:*
- None

- Data:*
- Surgical
 - Organ System Review
 - Genetic
 - Image
 - Medication Use
 - Pregnancies
 - Family History
 - Demographics
 - Quality of Life

CONCLUSIONS

- Results:*
- *Pending*