GEN89 – Association of Age and Gender with Phenotypic Features of Marfan Syndrome

OBJECTIVE: To provide reliable estimates of age and gender differences in phenotypic features and cardiovascular manifestations and complications in MFS.

ORGANIZATION

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BACKGROUND AND RATIONALE

Although the phenotypic features of Marfan syndrome (MFS) are well-known and contribute to its clinical diagnosis, very few studies have examined the associations of age and gender with these features as well as with cardiovascular manifestations and complications of MFS such as mitral valve prolapse, presence and severity of aortic aneurysm, and incidence and location of aortic dissection.

The GenTAC Registry provides an excellent opportunity to examine the impact of age and gender on phenotypic features in MFS. The registry enrolled a total of 893 patients with Marfan syndrome. The proposed research will provide reliable estimates of age and gender differences in phenotypic features and cardiovascular manifestations and complications in MFS. The results will allow patients with MFS and their health care providers to have a better understanding of the natural and clinical histories of MFS.

DESIGN

Method:

- Compare phenotypic and cardiovascular features in children and adolescents (<16 years old for females and <18 years for males) vs. adults with MFS.
- Compare phenotypic and cardiovascular features in males vs. females with MFS.
- Compare prevalence and timing of prophylactic proximal aortic surgery in males and females with MFS.
- Compare prevalence, type, and age at time of acute aortic dissection in males and females with MFS.
- Compare prevalence and timing of mitral valve surgery in males and females with MFS.

Inclusion criteria:

- Subjects with a diagnosis of MFS.

Samples:

- None

Data:

- Surgical
- Organ System Review
- Image
- Medication Use
- Family History
- Demographics

CONCLUSIONS

Results:

- *Pending*