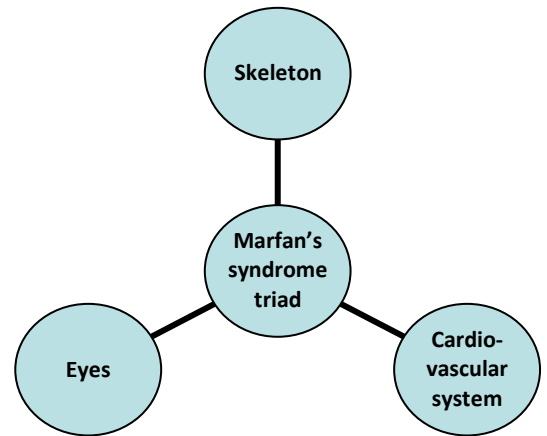


Marfan's Syndrome

Genetic disorder of connective tissue primarily affecting the skeleton, eyes and cardiovascular system.

Marfan's Examination Findings

- General inspection
 - Tall and thin
 - Scoliosis
- Hands and arms
 - Arachnodactyly (ask them to wrap their fingers around their wrist)
 - Wide arm span
 - Flexible joints
- Face
 - Long thin face
 - Myopia/ lens dislocation
 - High arched palate
- Chest and abdomen
 - Pectus carinatum/excavatum
 - Stretch marks
 - Auscultate heart for murmurs (especially aortic regurgitation)
- Legs and feet
 - Long legs
 - Flat feet
- To complete
 - Full cardiovascular exam



Cause

- Autosomal dominant FBN-1 gene mutation which transcribes Fibrillin-1, a major protein of elastin in connective tissues.

Clinical Features

- Skeleton
 - Generally
 - Tall and slim
 - Long limbs
 - Flexible joints
 - Chest
 - Pectus excavatum/carinatum
 - Back
 - Scoliosis
 - Spondylolisthesis
 - Dural ectasia (dura weak and expands outwards causing headache/backache)
- Eyes
 - Lens dislocation (50%)
 - Myopia
 - Others
 - Cataract
 - Retinal detachment
- Cardiovascular system
 - Weak thoracic aorta
 - Aneurysms
 - Dissection
 - Valves
 - Aortic regurgitation
 - Mitral/tricuspid prolapse

Investigations

- Genetic tests

- Eye exam
- Echocardiogram

Management

- No cure
- Symptomatic treatment
- Surveillance for complications
 - MDT regular check ups
 - Beta blockers (for weak aorta)