



Session 8: Aortic Aneurysmal Disorders

I. A proximal aortic dimension of >40mm is usually abnormal and abnormal aortas require CT or MRI imaging

- Age, sex and body surface area (BSA) affect aortic size
- In older, male, larger patients an aorta of >40mm can be normal
- In younger, female, smaller patients an aorta of <40mm can be dilated
- In gray cases, ask about family history (FHx) and look for syndromic features
- When in doubt, remeasure in 2-3 years

- 2. Younger patients with dilated aortas need a diagnostic assessment for a genetic cause (not just Marfan's Syndrome)
- Think genetic aortopathy if:
 - o Onset is below age 50
 - o Onset after age 50 and there is family history
 - o There is a bicuspid aortic valve
 - o There are extravascular features
 - o There are unusual vascular phenomena
- 3. All patients with suspected genetic aortopathy (including bicuspid aortic valve [BAV]) should be informed of the need for family screening and receive a comprehensive care management plan
- 4. Timing of surgery depends on aortic size and other factors
- Depends on:
 - o Aortic size
 - o Genetics
 - o Family history
 - o Rate of aortic growth
 - o Status of aortic valve
 - o Comorbidities affecting surgical risk



