

Aortic Aneurysm & Dissection Peripartum

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Pre-Pregnancy

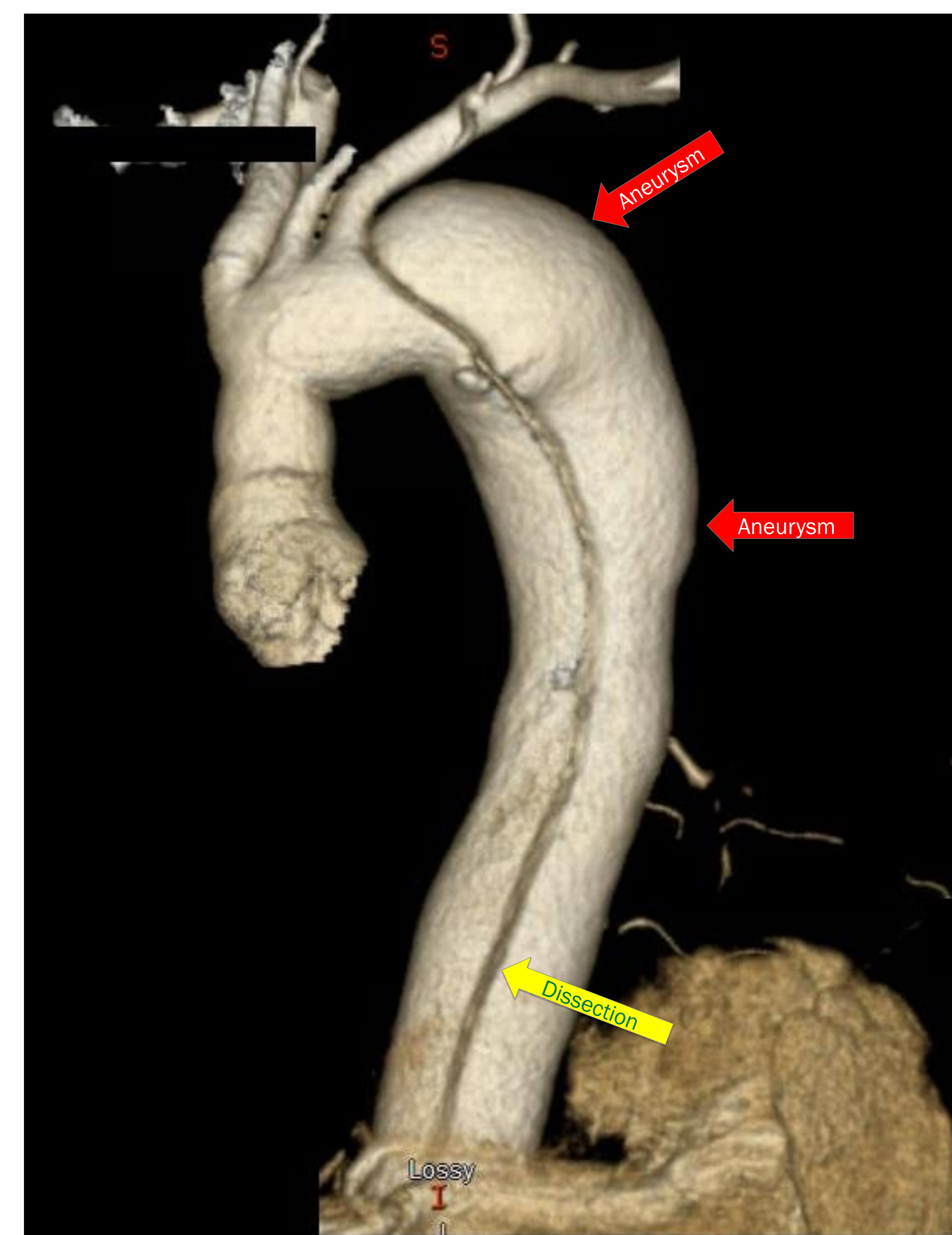
- 42 y/o, Hemi-arch replacement
- Chronic type B Aortic dissection
- 5.0 x 5.2cm Thoracic aneurysm

Antepartum Course

- Labetalol
- Serial MRIs (14, 18, 26, 31 wga)
- Placenta Previa
- Idiopathic Hypotension
→ Deliver @ 31w0d

Cesarean Delivery

- A-Line
- Nitroglycerin, Esmolol, & Nicardipine
- CSE (7.5mg Bupivacaine)
- IV Nitroglycerin for tocolytic at delivery
- Recover in ICU for 2 weeks
 - Open TAA repair under DHCA



Aortic Aneurysm & Dissection Peripartum – Guidelines

2022 AHA & 2018 ESC Guidelines

- Vaginal
 - Aorta < 4.0cm
- C-Section
 - Chronic Dissection
 - Ascending Aorta / Root > 4.5cm
 - Symptomatic

Aortic Dissection Risk Factors

- Congenital Risk Factors
 - Marfan's
 - Loey-Dietz
 - Turner's
 - Bicuspid aortic valve
 - vascular Ehler-Danlos
 - Hereditary aortopathies
- Advanced Maternal Age
- Hypertension
- 3rd Trimester – 12 weeks post-partum

Beta Blockers

- ↓ Rate Aortic Dilation
 - Even without ↑ BPs
- ↓ Wall Stress
- No Δ Birth Weight – ROPAC
- No Δ Preterm Labor – ROPAC