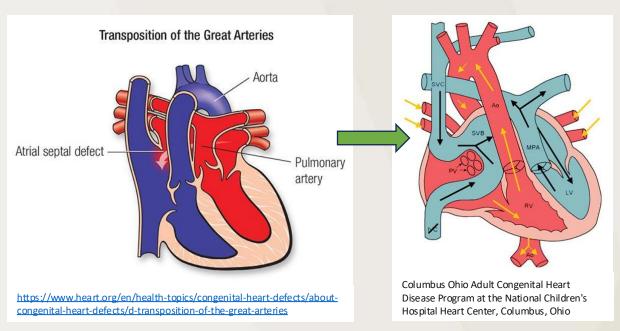
Atrial Switch, Delivering Now But Not Forever Background

Klein J, Hesketh P, Brennan K, Pruett B

Dextro-Transposition of the Great Arteries (dTGA)

- Aorta arises from RV, pulmonary trunk from LV
- Incompatible with life



Atrial Switch Operation

<u>1957</u>: Dr. Ake Senning (1915-2000)

<u>1963</u>: Dr. William Thornton Mustard (1914-1987)



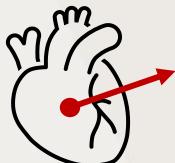
Patients with dTGA survive into adulthood, become pregnant

- Increased strain on heart during pregnancy
- Intrinsic limitations of RV increases risk of heart failure

1976: Arterial Switch Operation

Atrial Switch, Delivering Now But Not Forever Case Presentation

Patient: 41-year-old G5P3104 presents for Ob Anesthesia consult at 34w0d

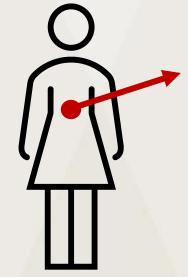


Cardiac History

PMH: dTGA s/p atrial switch in infancy, atrial fibrillation with RVR

TEE: severe RV enlargement

Medications: LMWH, metoprolol



Labor Plan

IOL at 37w0d

Standard monitors for labor AND...

- Continuous 5-lead telemetry
- Arterial line prior to neuraxial analgesia
- Early epidural
- Close monitoring of volume status

Atrial Switch, Delivering Now But Not Forever Teaching Points

- dTGA first became survivable in mid 1900s thanks to Mustard's and Senning's Atrial Switch operations
- Patients post atrial switch operation are at increased risk of heart failure secondary to stress on systemic right ventricle
 - Especially during labor and delivery!
 - Also increased risk for arrhythmias
- With special consideration and management, these patients may have uneventful, safe birth experiences