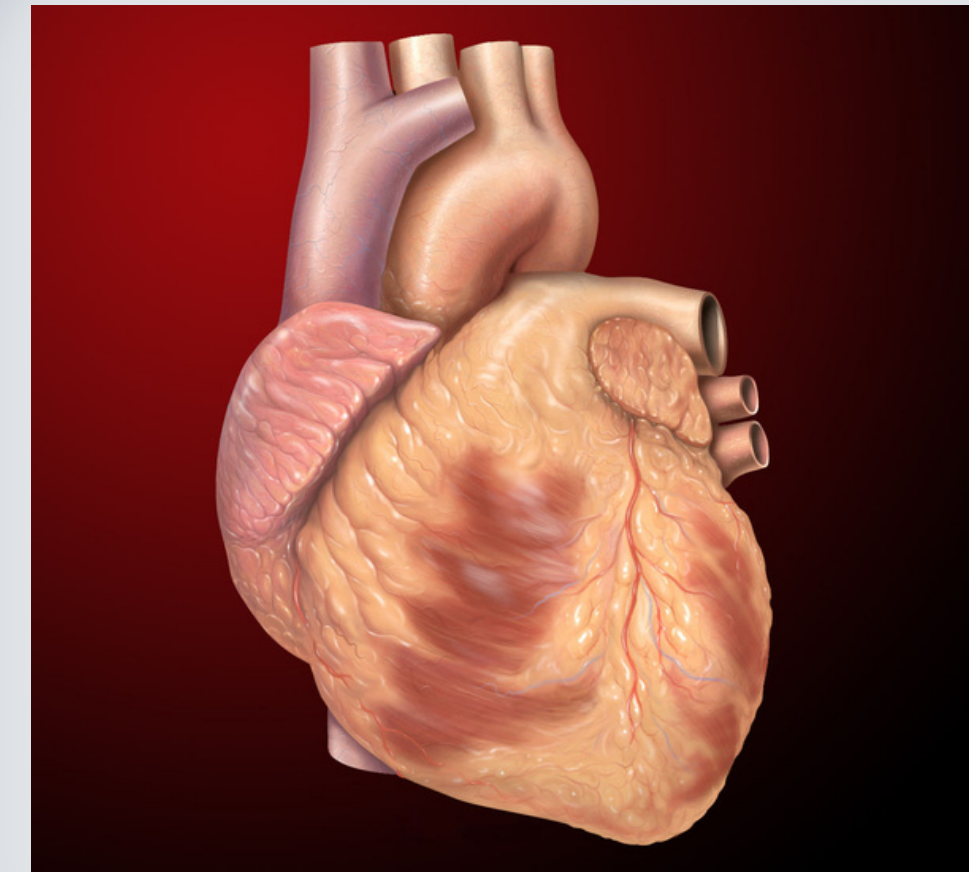


# Week #2

**"Sudden death after pediatric heart transplantation"**



# Pediatric Cardiology

- **Concerned with the diagnosis and treatment of congenital or acquired heart conditions in both infants and children**
- **Education:**
  - **4 years of medical school**
  - **1-2 years general pediatric residency**
  - **3 years of child cardiology fellowship**
- **Current research topics**
  - **Treatment of congenital heart disease**
  - **Role of mitochondria in early heart development**
  - **Clinical outcomes following cardiac surgery**

# A Closer Look

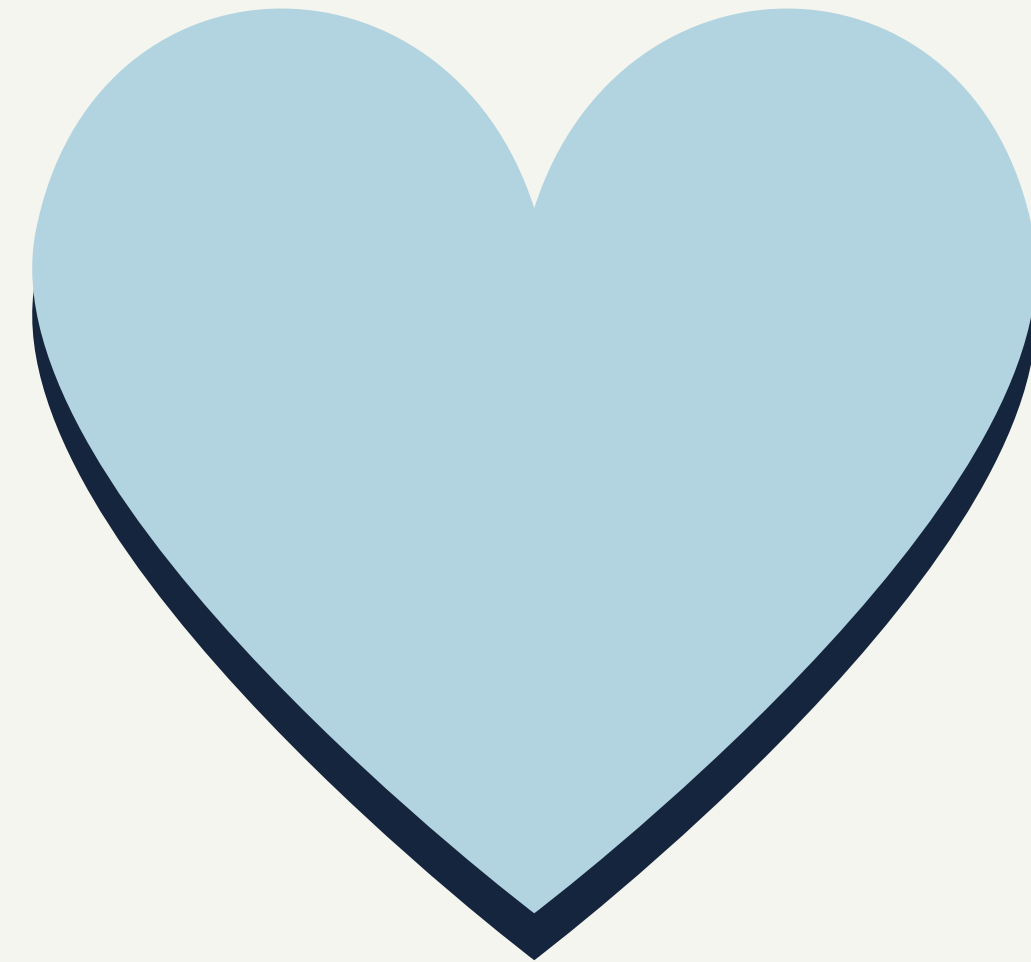
**Check out "So You Want To Be a Cardiologist" under the 'Research' tab on our website: [pediatricresearchorg.weebly.com](http://pediatricresearchorg.weebly.com) for a more in-depth video on the specialty!**

# Cohort Study

- **Is a type of *longitudinal study***
  - **Follows participants over time to investigate research question**
  - **Different from a *cross-sectional study***
- **Tend to be observational and *not experimental***
- **Retrospective study follows an intervention or condition**
  - **Participants are monitored following transplantation**
- **Takes into account specific backgrounds, health conditions, and other patterns to draw conclusions**

# Key Words & Concepts

- **Cardiac allograft vasculopathy**
- **Endomyocardial biopsy**
- **Acute cellular rejection**
- **Orthotropic heart transplantation**
- **Kaplan-Meier analysis**
- **UNOS status**
- **Ventricular tachyarrhythmia**



# Implications

- **Disproportionate impacts across racial groups**
  - *What does this indicate about quality of medical care?*
- **Addressing ascertainment bias**
  - **Members with certain characteristics are more likely to be picked from the target population**
- **Comparative risks**
  - *Does heart transplantation tend to be higher or lower risk than other pediatric transplants?*
- **Consent: How do pediatric patients provide consent for such high-risk operations?**

Thank You!

