STS Congenital Database

Introduction to the Version 6.22 Upgrade

February 2, 2022
12:00 - 1:00pm CT
Agenda

• Welcome & Introductions
• Deep Breathing Meditation
• CHSD v6.22 Upgrade
• Adults with Congenital Heart Disease
• Review of the Data Collection Form
• Training Manual Plan
• Questions
CHSD 6.22 Upgrade Overview
Overview of the CHSD 6.22 Upgrade Process

• Started in Fall of 2019
• Ended in Summer 2021
• Usually, weekly calls with Surgeons and Core Group Members
• Reduced CHSD variables, Maintained granularity
  • Relevant Variables
  • Ease of Data Collection
  • Review Every Variable
    • Why are we collecting this?
    • What are we doing with this data?
    • What are the sites doing with this?
• Reviewed Frequency and Audit results
  • Missingness
  • Accuracy – can we redefine how we are capturing a variable to obtain better accuracy
• Adding Adults with Congenital and Fetal Interventions
  • More to come on these topics in just a bit...
• Beta Test with Core Group
• Sign-off From Task Force in the Fall of 2021
Adults with Congenital Heart Disease
Adult With Congenital Heart Disease (ACHD)

Definition:

- Adult congenital patient:
  - > 18 years
  - History of operated or unoperated congenital heart disease

- STS ACHD patients >> STS adult patients having congenital operations
- Different!

- Adult Congenital Patients = Rapidly growing population
  - Have cardiac surgery for congenital and “adult acquired” indications
ACHD – WHY???

- Growing population
  - Substance abuse
  - Peripheral vascular disease
  - Coronary artery disease
  - Chronic lung disease
  - Chronic kidney disease
  - Neoplasm
Surgery for ACSD is Increasing!
ACHD Data Collection in CHSD: The Time is Now!

- Optimizes data capture for growing ACHD population
- Includes variables relevant to the ACHD population
- Combines relevant CHSD + relevant ACSD fields while eliminating double capture of information on the DCF
  - Eliminated double data capture where possible – not always possible (more on that later…)
  - Includes all variables utilized in current ACSD risk models
ACHD in the CHSD

**ACSD**
- Additional preoperative and risk model variables
- Hemodynamics
- Operations for acquired disease

**CHSD**
- Congenital Diagnoses
- Genetic syndromes
- Operations for congenital disease

**ACHD**
Congenital 6.22 Data Collection
Data Collection Form Review

• Timeline of educational webinars
• Data Spec Update
• Introduction to the DCF
  • Multiple select fields
  • Adult only fields
  • Congenital only fields
Timeline for CHSD v6.22 Upgrade Webinars

Topics are tentative

Feb. 2
• Introduction to the v6.22 Upgrade
• Basic Data Collection Review

Feb. 8
• Administrative through Hospitalization

Feb. 22
• Preop Factors through Preop Labs

Mar. 1
• Preop Medications through Valve Disease for =>18 yo

Mar. 8
• Status Post through ECMO

Mar. 22
• Operative through Valve Explants and Implants <18 yo

Apr. 5
• Valve Explants and Implants =>18 yo

Apr. 12
• Other Cardiac to Aorta

Apr. 26
• Aorta

May 3
• Aorta to Postop Events

May 10
• Postop Events through Patient Process Measures

May 24
• Anesthesia

Jun. 7
• Additional Q&A Time

Jul. 1
• Go Live!!

IMPORTANT
Training Manual Plan
Questions/Discussion