STS Congenital Database

Introduction to the Version 6.22 Upgrade

February 2, 2022

12:00 - 1:00pmCT

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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 <u>operated or unoperated</u> congenital heart disease

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

- Adult Congenital Patients = Rapidly growing population
  - <u>Have cardiac surgery for congenital and "adult acquired" indications</u>

ACHD – WHY???

- Growing population

- <!-- partially obscured --> ...gy

  Increasing burden of cardiovascular risk factors

Substance abuse
- **Peripheral vascular disease**
- **Coronary artery disease**
- **Chronic lung disease**
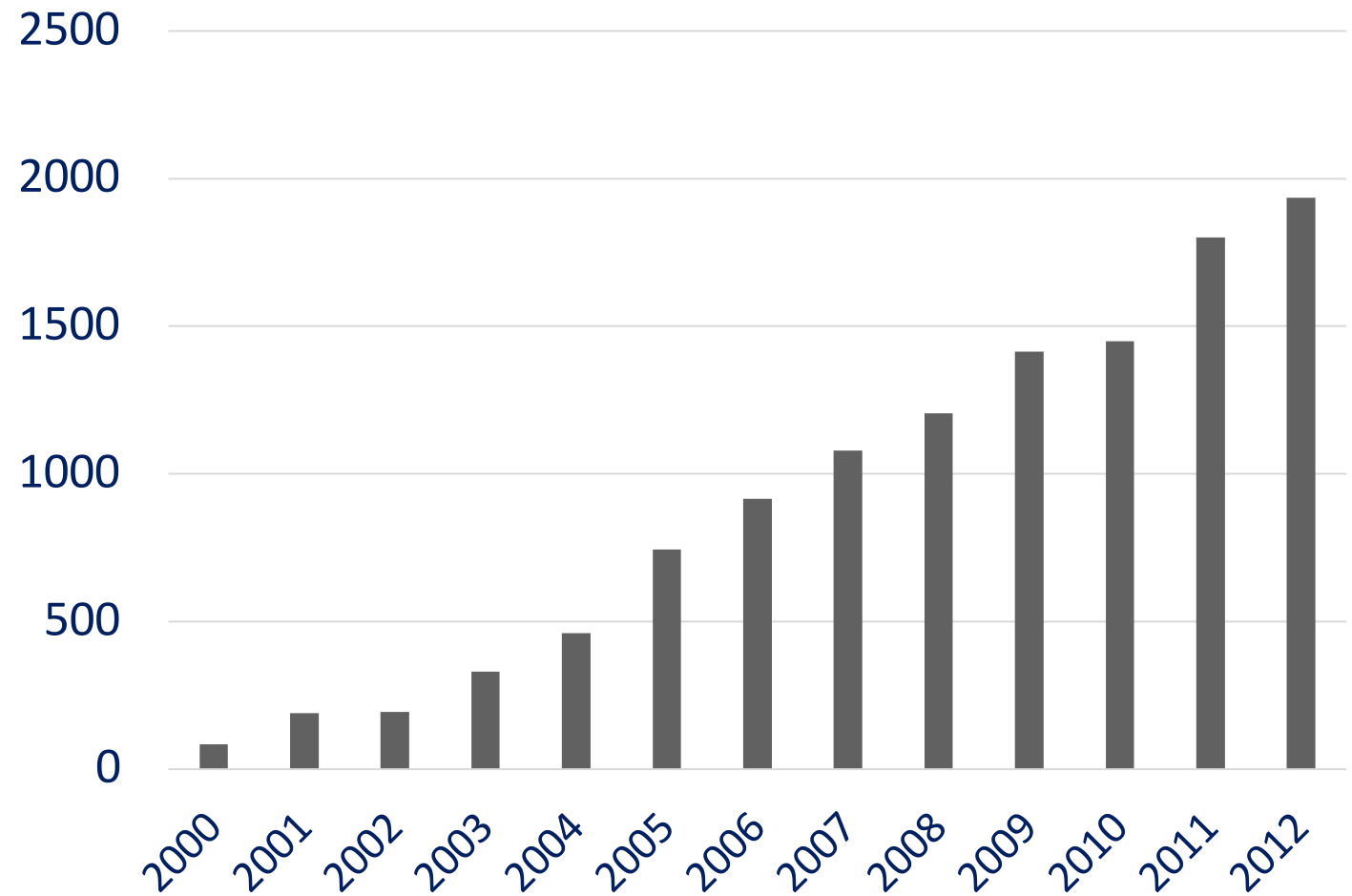- **Chronic kidney disease**
- **Neoplasm**

Surgery for ACSD is Increasing!

Adult Cases Reported to the STS-CHSD

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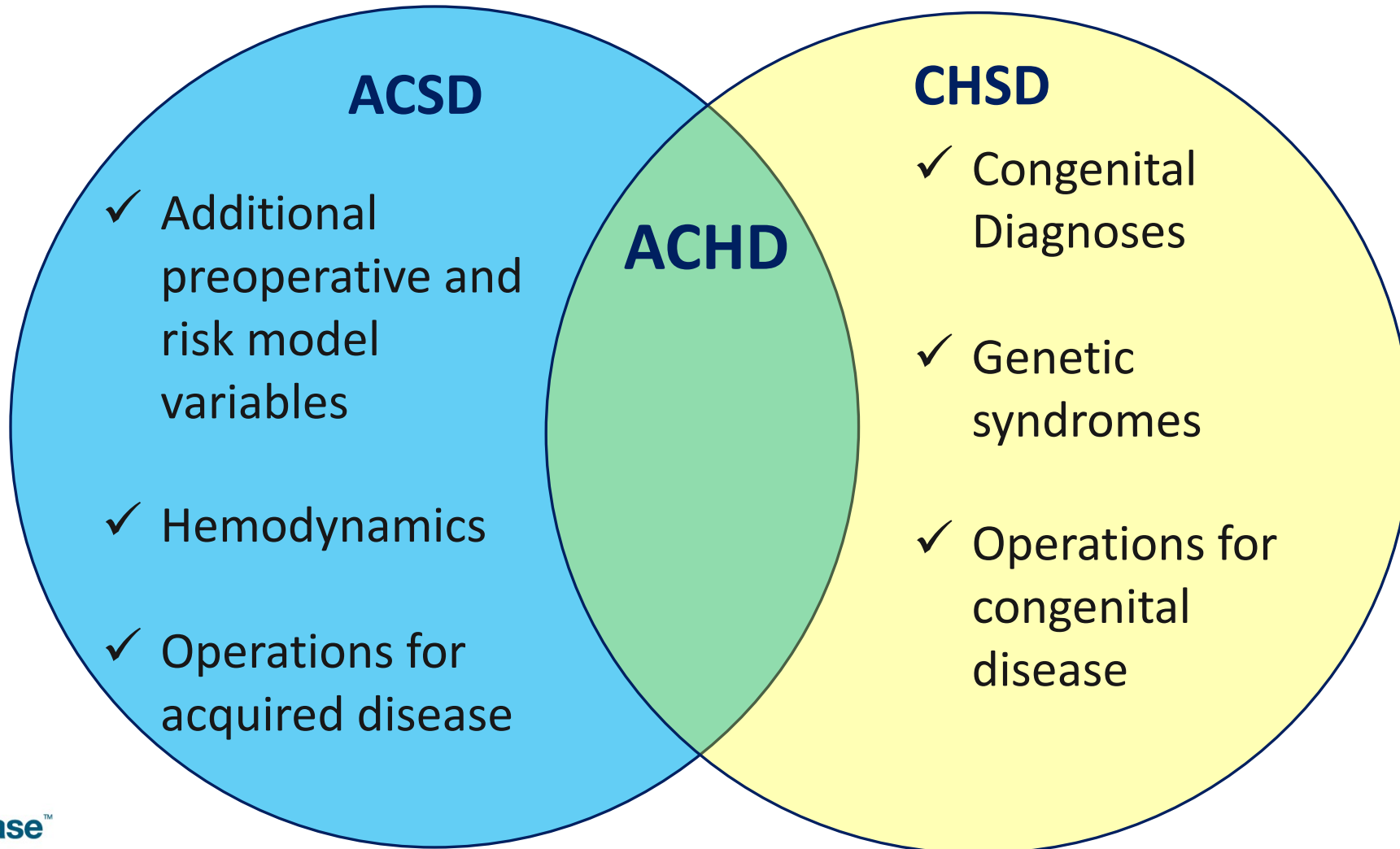
ACHD Data Collection in CHSD : The Time is Now!

- Optimizes data capture for growing ACHD population

- Includes variables relevant to the ACHD population

- Combines relevant CHSD + relevant ACSD fields <u>while eliminating double capture of information on the DCF</u>

  - Eliminated double data capture where possible – not always possible (more on that later…)
  - Includes all variables utilized in current ACSD risk models

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

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