



Society of Thoracic Surgeons

Congenital Heart Surgery Database
Monthly Webinar

October 15, 2024

Agenda

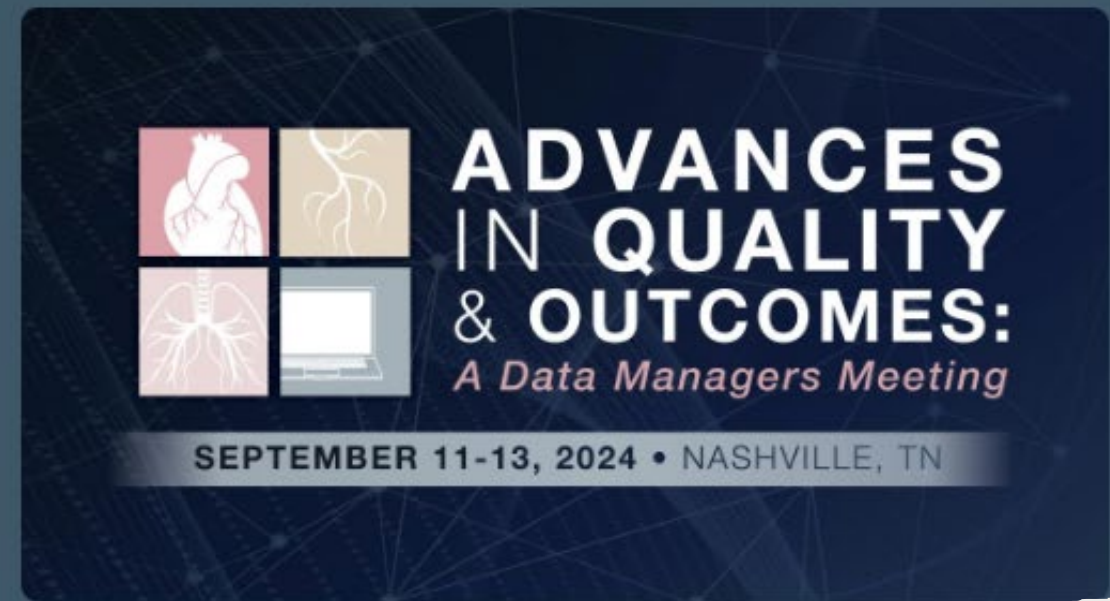
- Welcome and Introduction
- STS Update
 - Utilization of STS Helpdesk
- STS Data Manager Education (Chasity Wellnitz and Leslie Wacker, CHSD Consultants)
- Q&A

STS Updates

- October Training Manual posted
- STS Data Manager Collaborative now Open
 - To learn more about the DM Collaborative please review the August 13th webinar:
 - [CHSD August 13 Monthly Webinar](#)
- Fall 24 Harvest Update
 - Data headed to analysis next week
 - Surgery dates 7/1/2020 – 6/30/2024
 - Report release date TBD
- 2025 Harvest Schedule Coming Soon!!!

2024 Advances in Quality & Outcomes: A Data Managers Meeting

Discussions on valuable research and important clinical findings with the goal of improving data collection and patient outcomes.



AQO 2024: A Data Managers Meeting

- Hot Topics Webinar: **Tuesday, 10/22 11:00 – 3:00pm ET**
- Virtual Pass still available for purchase until **November 15, 2024**
- AQO Content to remain on virtual platform until **Friday, December 13th**
 - Will be moved over to STS Learning Center
- CEU deadline is **Friday, December 13th**

Utilization of STS Database Helpdesk Support



STS Database Helpdesk – stsd_b_helpdesk@sts.org

- Login/Access issues
- Data submission issues – including Direct Data Entry
- Report/Analysis questions/issues/concerns
- Vendor questions/issues
- RedCap questions
- When in doubt, use stsd_b_helpdesk@sts.org



Utilization of STS DB and STS FAQ

STS DB – stsd@sts.org

“Official Business”

- Contract questions
- Database sign up – including anesthesia module
- Invoice questions

STS FAQ – stsd_FAQ@sts.org


“Clinical Questions”

- Coding questions
- Clinical questions/concerns
- Data Specs / Training manual questions



Effective Communication to HD

- **Clear, Concise and To The Point:**

- All necessary information including – NPI #, ParticID/PID #, full name of the surgeon/anesthesiologist, etc.
- Use subject line to identify the issue, use body of the email to briefly describe your issue
- Including screenshots -  + Shift + S

- **Please do NOT:**

- Send messages to multiple help desks
- Send messages to individuals
- Send questions to IQVIA (unless you are directly responding to a message from them). If needed, STSDB Helpdesk will escalate



Examples of Effective Communication to HD

Ineffective Email:

- Why does the report say I have only 125 patients?

Effective Email:

- ACSD Risk Adjusted Report
- Report period ending 3/31/20
- Benchmark Reports
- Isolated CABG
- Number of cases for my site 2023 states 125 cases and I think it should be 130.



STS Database Helpdesk response time is usually within 48 hours after receiving your email.

However, it might take longer depending on the nature of your question and the resources needed to answer your question.



Education Updates - *agenda*

- Optional limited dataset for ACHD non-index cases
- Review important definitions
 - Index operations
 - Episode of care
- Scenarios

Introducing



Non-Index ACHD *OPTIONAL* Limited Dataset

1. Data burden for v6.23.2 is too high, especially for patients over 18 (6575 days)
2. Request made to limit fields entered prior to version upgrade
3. Task Force approved reducing required fields for **non-index ACHD cases** (22* fields)

Non-Index ACHD *OPTIONAL* Limited Dataset

1. All cases done by a surgeon on your Schedule A are entered, regardless of age, procedure, otype, etc.
2. All fields for INDEX operations are still required
3. Submit all cases within the harvest window



Non-Index ACHD *OPTIONAL* Limited Dataset

1. Sites can choose to enter extra fields
 - Talk to your team/surgeon
 - Determine fields
 - Determine start date
 - Document, document, document



Non-Index ACHD *OPTIONAL* Limited Dataset

1. Sites can choose to enter extra fields
2. **Not** an official version change
 - No changes to software
 - No updates/new reports from IQVIA



Non-Index ACHD *OPTIONAL* Limited Dataset

1. Sites can choose to enter extra fields
2. **Not** an official version change
3. Harvest challenges
 - Utilize existing filters to reduce noise
 - Understand inclusion criteria for reports (e.g., Missingness report is OpType 1 & 2, not only index)



Non-Index ACHD *OPTIONAL* Limited Dataset

A. ADMINISTRATIVE

Participant ID: PartID (5)	Patient Participating in STS-Related Clinical Trial: ClinTrial (35)	<input type="checkbox"/> None <input type="checkbox"/> Trial 1 <input type="checkbox"/> Trial 2 <input type="checkbox"/> Trial 3 <input type="checkbox"/> Trial 4 <input type="checkbox"/> Trial 5 <input type="checkbox"/> Trial 6
	(If not 'None' →)	STS-Related Clinical Trial ID: ClinTrialPatID (40)

B. DEMOGRAPHICS

Patient ID (software generated) PatID (45)	Patient National ID (SSN): PatNationalID (55)	MRN: MedRecN (60) <i>(For fetal interventions enter in Mother's MRN followed by FETAL - example: 12-34-56 FETAL)</i>
Last Name: PatLName (65)	First Name: PatFName (70)	Middle Name: PatMName (75)
Postal Code: PatPostalCode (80)		
Permanent Street Address: PatAddr (85)		City: PatCity (90)
Region: PatRegion (180)		Country: PatientCountry (100)
Race Documented: RaceDocumented (105)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Patient declined to disclose	
(If Yes, Select All That Apply →)	Race: RaceMulti (110)	<input type="checkbox"/> White/Caucasian <input type="checkbox"/> Black/African American++ <input type="checkbox"/> Asian++ <input type="checkbox"/> American Indian/Alaskan Native <input type="checkbox"/> Native Hawaiian/Pacific Islander <input type="checkbox"/> Other
Hispanic or Latino Ethnicity++: Ethnicity (145)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Documented	

C. BIRTH INFORMATION

DOB: (mm/dd/yyyy) ____ / ____ / ____ DOB (160)	Sex at Birth++: <input type="checkbox"/> M <input type="checkbox"/> F <input type="checkbox"/> Ambiguous Gender (165)
Blood Type: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> O <input type="checkbox"/> AB <input type="checkbox"/> Unknown BldTyp (170)	Rhesus (Rh) Factor: <input type="checkbox"/> Positive <input type="checkbox"/> Negative <input type="checkbox"/> Unknown RhFactor (175)
Birth Information Known: <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes ↓) BirthInfoKnown (300)	
Birth Weight Known: <input type="checkbox"/> Yes <input type="checkbox"/> No BirthWtKnown (305) (If Yes →)	Birth Weight (kg): _____ BirthWtKg (310)
Premature Birth:** <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown Premature (315)	
Gestational Age at Birth Known: <input type="checkbox"/> Yes <input type="checkbox"/> No GestAgeKnown (320)	
	Weeks: _____ GestAgeWeeks (325)

A. Administrative

- Part ID, req for every case
- Trial info, optional

B. Demographics info

- Every patient must have demographics entered once

C. Birth Information

- Similar to demo, entered once

Non-Index ACHD *OPTIONAL* Limited Dataset

D. NONCARDIAC CONGENITAL ANATOMIC ABNORMALITIES (select all that apply) **

Noncardiac congenital anatomic abnormalities known: Yes No

NCAAKnown (416)

(If Yes, Select All That Apply →) Noncardiac Congenital Anatomic Abnormalities:
NCAAMulti (420)

Major abnormality of head, Chest/abdomin...

E. CHROMOSOMAL ABNORMALITIES

Chromosomal abnormalities known: Yes No

ChromAbKnown (451)

(If Yes, Select All That Apply →) Chromosomal Abnormality: **
(ChromAbMulti (455))

Known Mosaicism 11p15.5**

1p36 del 11q**

F. SYNDROMES

Syndromes known: Yes No

(SyndromeKnown 486)

(If Yes, Select All That Apply →) Syndromes:
SyndromeMulti (490)

1p36 deletion syndrome 1q21.1 duplication syndrome

3q duplication syndrome 4q deletion syndrome

7q11.23 duplication syndrome 8p23.1 deletion syndrome

D. NCAA

- Similar to demo, entered once

E. Chromosomal Ab

- Similar to demo, entered once

F. Syndromes

- Similar to demo, entered once

Non-Index ACHD *OPTIONAL* Limited Dataset

G. HOSPITALIZATION

Hospital Name: _____ HospName (500)	
Hospital Zip Code: _____ HospZIP (505)	Hospital State: _____ HospStat (510)
Hospital National Provider Identifier: _____ HospNPI (515)	Hospital CMS Certification Number: _____ HospCMSCert (520)
Primary Payor++: PayorPrim (525)	(If Primary Payor <>None/Self \) Secondary (supplemental) Payor++: PayorSecond (550)
<input type="checkbox"/> None/self	<input type="checkbox"/> None/self

Did the patient have a laboratory confirmed diagnosis of Covid-19? TempCode (560)	<input type="checkbox"/> No, no test performed or negative test (Harvest Code 10)
	<input type="checkbox"/> Yes, prior to hospitalization for this surgery (Harvest Code 11)
	<input type="checkbox"/> Yes, in hospital prior to surgery (Harvest Code 12)
	<input type="checkbox"/> Yes, in hospital after surgery (Harvest Code 13)
<input type="checkbox"/> Yes, after discharge within 30 days of surgery (Harvest Code 14)	
Date of Positive Covid-19 Test (closest to OR date) ____/____/____ (mm/dd/yyyy) TempDt (565)	
Admission date: (mm/dd/yyyy) ____/____/____ AdmitDt (570) (For fetal interventions use the mother's date of admission)	
Location From which Patient was Admitted: <input type="checkbox"/> Home <input type="checkbox"/> Other acute care center AdmitFromLoc (575) <input type="checkbox"/> Other chronic care center <input type="checkbox"/> Born at operative center	
Surgery date++: (mm/dd/yyyy) ____/____/____ SurgDt (580)	
Height (Cm)++: _____ HeightCm (585)	Weight (Kg) **,++: _____ WeightKg (590)
BMI (kg/m ²): _____ CalculatedBMI (591) <i>(calculated field)</i>	BSA(m ²): _____ CalculatedBSA (592) <i>(calculated field)</i>
Age at time of surgery (in days) **,++: _____ (system calculated) AgeDays (595)	

G. Hospitalization

Required:

HospName (500)
HospNPI (515)
AdmitDt (570)
SurgDt (580)
HeightCm (585)
WeightKg (590)

Required, but calculated:

CalculatedBMI (591)
CalculatedBSA (592)
AgeDays (595)


Non-Index ACHD *OPTIONAL* Limited Dataset

H1. PREOPERATIVE FACTORS (select all that apply) **	
Preoperative Factors known: <input type="checkbox"/> Yes <input type="checkbox"/> No PreopFactorKnown (616)	
(If Yes, Select All That Apply →)	Preoperative Factors PreopFactorMulti (620)
H2. Preoperative Labs/Testing	
Preoperative Labs Available: <input type="checkbox"/> Yes <input type="checkbox"/> No PreopLabsAvail (800)	
H3. Preoperative Medications (for patients =>18)	
Medication	Timeframe
ACE or ARB++	Medic 48 h...
	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Certain/limited <input type="checkbox"/> Unknown

H1. Preoperative Factors
H2. Preoperative Labs/Tests
H3. Preoperative Meds
ALL OPTIONAL

*Note: Preoperative Factors: select Yes / select Other / free text
“non-index op”*

Non-Index ACHD *OPTIONAL* Limited Dataset

I. DIAGNOSIS		
Select ALL diagnosis that apply(↓) DiagnosisMulti (1065)	CIRCLE the ONE PRIMARY diagnosis for this operation PrimaryDiagnosis (1070)	Select the ONE FUNDAMENTAL diagnosis for this patient (↓) FundDiagnosis (1075) 
(CANNOT BE FUNDAMENTAL)		
Aortic/Neo-aortic/Truncal Valve		
Mitral Valve or Atrioventricular Valve of Systemic Ventricle		
Tricuspid Valve or Atrioventricular Valve of Non-systemic Ventricle		
Pulmonic or Neo-pulmonic Valve		
STATUS POST (No "Status post – diagnoses" can be a primary diagnosis or fundamental diagnosis) ++		
Hemodynamics/Cath/Echo (for patients =>18)		

I. Diagnosis

Required:

- PrimaryDiagnosis (1070)

Reminder:

- FundDiagnosis (1075) is part of the demo record, must be entered once

Valve specific dx info – optional

Status Post - optional

Hemo/Cath/ECHO – optional

Non-Index ACHD *OPTIONAL* Limited Dataset

J1. PROCEDURES	
Select ALL procedures that apply. (↓) ProcedureMulti (1350)	Circle the ONE PRIMARY procedure for this operation. PrimaryProcedure (1355)
<input type="checkbox"/>	10- PEO Primary closure

J1. Procedures

Required:

- PrimaryProcedure (1355)

J2. PROCEDURE SPECIFIC FACTORS	
<input type="checkbox"/>	15- ECMO Primary closure

J2. Procedure Specific Factors (PSF)

- Optional

ECMO Procedural Information	
<input type="checkbox"/>	ECMO Primary closure

ECMO Procedural Info

- Optional

Non-Index ACHD *OPTIONAL* Limited Dataset

K. OPERATIVE

Procedure Location: ProcLoc (1745)	<input type="checkbox"/> Cardiac OR	<input type="checkbox"/> ICU	<input type="checkbox"/> SICU
	<input type="checkbox"/> General OR	<input type="checkbox"/> CVICU	<input type="checkbox"/> Radiology Suite
	<input type="checkbox"/> Hybrid Suite	<input type="checkbox"/> NICU	<input type="checkbox"/> Procedure Room
	<input type="checkbox"/> Cath lab	<input type="checkbox"/> PICU	<input type="checkbox"/> Other
Status: ++ Status (1750)	<input type="checkbox"/> Elective	<input type="checkbox"/> Urgent	<input type="checkbox"/> Emergent
	<input type="checkbox"/> Salvage		
Operation Type: OpType (1755)	<input type="checkbox"/> CPB Cardiovascular	<input type="checkbox"/> No CPB Cardiovascular	<input type="checkbox"/> CPB Non-Cardiovascular
	<input type="checkbox"/> ECMO	<input type="checkbox"/> Thoracic	<input type="checkbox"/> VAD with CPB
	<input type="checkbox"/> VAD without CPB	<input type="checkbox"/> Other	
	Total initial post-op vent hours (OK Exit to Initial Extubation Date/Time) -----:--		
	TotalPOInitVentHr (1900) (If 'No' ->) (calculated field)		
	Re-Intubated After Initial Postoperative Extubation: <input type="checkbox"/> Yes <input type="checkbox"/> No		
	ReIntubate (1905)		
Incision Type: IncisionTypeMulti (1915)	<input type="checkbox"/> Sternotomy <input type="checkbox"/> Partial Sternotomy <input type="checkbox"/> Clamshell Thoracotomy <input type="checkbox"/> Thoracotomy <input type="checkbox"/> Video-Assisted Thoracoscopy <input type="checkbox"/> Other		
(If Incision Type contains 'Partial Sternotomy' ->)	Location: <input type="checkbox"/> Upper <input type="checkbox"/> Lower PartSternLocat (1930)		
(If Incision Type contains 'Video-Assisted Thoracoscopy' ->)	Location: <input type="checkbox"/> Left <input type="checkbox"/> Right <input checked="" type="checkbox"/> Bilateral VATSLocat (1955)		
Was the chest left open after the surgical procedure with planned delayed sternal closure? <input type="checkbox"/> Yes <input type="checkbox"/> No			
COPIndDelay (1960)			
Time of Skin Closure: (00:00 - 23:59) --:--		OR Exit Time: (00:00 - 23:59) --:--	
SISStopT (1965)		ORExitT (1970)	
Extended Through Midnight: <input type="checkbox"/> Yes <input type="checkbox"/> No			
MultiDay (1975)			
Surgeon: Surgeon (1980)	Surgeon NPI: SurgNPI (1985)	Taxpayer Identification Number: TIN (1990)	
Reoperation Within This Admission: ReOpInAdm (1995)		<input type="checkbox"/> Yes - Planned reoperation <input type="checkbox"/> Yes - Unplanned reoperation <input type="checkbox"/> No	
Number of Prior Cardiac Operations**:		Number of Prior CPB Cardiac Operations:	

K. Operative

Required:

ProcLoc (1745)
 Status (1750)
 OpType (1755)
 Surgeon (1980)
 SurgNPI (1985)

Non-Index ACHD *OPTIONAL* Limited Dataset

L2. CABG PROCEDURES (=>18 patient)

If (OpCab18 = Any 'Yes') ↓

M2. Valve Surgery Explant

(If Valve Explanted (ValExp) is Yes ↓)

First Valve Prosthesis Explant:

M3. Aortic, Neo-Aortic or Truncal Valve without concomitant Aorta Procedure

M4. Mitral/Systemic AV Valve Procedure

M5. Tricuspid Valve/Non-Systemic AV Valve Procedure

M6. Pulmonary or Neo-Pulmonary Valve Procedure

N. Other Cardiac Procedures

(If Other Cardiac Procedures = Yes↓)

O. Other Non-Cardiac Procedures

(If Other Non-Cardiac Procedures = Yes↓)

Carotid Endarterectomy: Yes, planned Yes, unplanned due to surgical complication

ONCCarEn (3230) Yes, unplanned due to unsuspected disease or anatomy No

P. A-Fib Procedures

(If A-Fib Procedures = Yes↓)

Q. VAD PROCEDURES

VAD Explanted and/or Implanted: VADExImp (3250)	<input type="checkbox"/> No	<input type="checkbox"/> Yes, Explanted	<input type="checkbox"/> Yes, Implanted	<input type="checkbox"/> Yes, Explanted and Implanted
--	-----------------------------	---	---	---

R. Aorta Procedures

(If AortProc = Yes ↓)

L2. CABG Procedures
M2. Valve Surgery Explant
M3. Aortic, Neo-Aortic, Truncal Valve without Aorta Procedure
M4. Mitral Procedures
M5. Tricuspid Procedures
M6. Pulmonary Procedures
N. Other Cardiac Procedure
O. Other Non-Cardiac Proc
P. A-fibs Procedures
Q. VAD Procedures
R. Aorta Procedures

Non-Index ACHD *OPTIONAL* Limited Dataset

S1. Postoperative

Patient expired in OR. Yes No (If No AND =>18) ↓

ExpiredInOR (4665)

S1. Postoperative

Required:

ExpiredInOR (4665)

S2. Post Operative Events

PostopEventsMulti (4740)

If Expired in OR = 'No', Select ALL that apply: (↓)

S2. Postoperative Events

- Optional

Non-Index ACHD *OPTIONAL* Limited Dataset

T. DISCHARGE/READMISSION	
Patient remains hospitalized during this episode of care EpisodeCarePatInHosp (4870)	<input type="checkbox"/> Yes, at this hospital <input type="checkbox"/> Yes, transferred to another facility <input type="checkbox"/> No
If Patient remains hospitalized during this episode of care = 'Yes, transferred to another facility' OR 'No' →	Date of Hospital Discharge: (mm/dd/yyyy) ___/___/_____ HospDischDt (4875) Mortality Status at Hospital Discharge: <input type="checkbox"/> Alive <input type="checkbox"/> Dead MtHospDisStat (4880)
If Patients transferred to another facility →	End-date of database tracking: (mm/dd/yyyy) ___/___/_____ EndDtDBTracking (4920) Status at end of database tracking: <input type="checkbox"/> Alive <input type="checkbox"/> Dead <input type="checkbox"/> Unknown StatEndDBTrack (4925)
If Status at end of database tracking = 'Alive' →	Database Discharge Location: LocEndDBTrack (4930) <input type="checkbox"/> Home <input type="checkbox"/> Chronic Care Center >183 continuous days
If patient remains hospitalized during this episode of care →	Date of Database Discharge: (mm/dd/yyyy) ___/___/_____ DBDischDt (4935) (calculated field)
Yes, transferred to other facility' or 'No' →	Mortality Status at Database Discharge: <input type="checkbox"/> Alive <input type="checkbox"/> Dead <input type="checkbox"/> Unknown MtDBDisStat (4940) (calculated field)
Status at 30 days after surgery: <input type="checkbox"/> Alive <input type="checkbox"/> Dead <input type="checkbox"/> Unknown Mt30Stat (4945)	
If Mt30Stat=Alive or Dead →	30 Day Status Method of Verification: Mt30StatMeth (4950) <input type="checkbox"/> Evidence of life or death in Medical Record <input type="checkbox"/> Contact with patient or family <input type="checkbox"/> Contact with medical provider <input type="checkbox"/> Office visit to provider ≥ 30 days post op <input type="checkbox"/> Social Security Death Master File <input type="checkbox"/> Other
Operative Mortality: <input type="checkbox"/> Yes <input type="checkbox"/> No MtOpD (4985)	

T. Discharge/Readmission

Required:

EpisodeCarePatInHosp (4870)

HospDischDt (4875)

MtHospDisStat (4880)

EndDtDBTracking (4920)

StatEndDBTrack (4925)

Mt30Stat (4945)

Mt30StatMeth (4950)

MtOpD (4985)

Required, but calculated:

DBDischDt (4935)

MtDBDisStat (4940)

Non-Index ACHD *OPTIONAL* Limited Dataset

T. DISCHARGE/READMISSION	
Patient remains hospitalized during this episode of care EpisodeCarePatInHosp (4870)	<input type="checkbox"/> Yes, at this hospital <input type="checkbox"/> Yes, transferred to another facility <input type="checkbox"/> No
If Patient remains hospitalized during this episode of care = 'Yes, transferred to another facility' OR 'No' →	Date of Hospital Discharge: (mm/dd/yyyy) ___/___/_____ HospDischDt (4875) Mortality Status at Hospital Discharge: <input type="checkbox"/> Alive <input type="checkbox"/> Dead MtHospDisStat (4880)
If Patients transferred to another facility →	End-date of database tracking: (mm/dd/yyyy) ___/___/_____ EndDtDBTracking (4920) Status at end of database tracking: <input type="checkbox"/> Alive <input type="checkbox"/> Dead <input type="checkbox"/> Unknown StatEndDBTrack (4925)
If Status at end of database tracking = 'Alive' →	Database Discharge Location: LocEndDBTrack (4930) <input type="checkbox"/> Home <input type="checkbox"/> Chronic Care Center >183 continuous days
If patient remains hospitalized during this episode of care →	Date of Database Discharge: (mm/dd/yyyy) ___/___/_____ DBDischDt (4935) (calculated field)
Yes, transferred to other facility' or 'No' →	Mortality Status at Database Discharge: <input type="checkbox"/> Alive <input type="checkbox"/> Dead <input type="checkbox"/> Unknown MtDBDisStat (4940) (calculated field)
Status at 30 days after surgery: <input type="checkbox"/> Alive <input type="checkbox"/> Dead <input type="checkbox"/> Unknown Mt30Stat (4945)	
If Mt30Stat=Alive or Dead →	30 Day Status Method of Verification: Mt30StatMeth (4950) <input type="checkbox"/> Evidence of life or death in Medical Record <input type="checkbox"/> Contact with patient or family <input type="checkbox"/> Contact with medical provider <input type="checkbox"/> Office visit to provider ≥ 30 days post op <input type="checkbox"/> Social Security Death Master File <input type="checkbox"/> Other
Operative Mortality: <input type="checkbox"/> Yes <input type="checkbox"/> No MtOpD (4985)	

T. Discharge/Readmission

Required:

EpisodeCarePatInHosp (4870)

HospDischDt (4875)

MtHospDisStat (4880)

EndDtDBTracking (4920)

StatEndDBTrack (4925)

Mt30Stat (4945)

Mt30StatMeth (4950)

MtOpD (4985)


Required, but calculated:

DBDischDt (4935)

MtDBDisStat (4940)

Non-Index ACHD *OPTIONAL* Limited Dataset

<i>Yes, transferred to other facility' or 'No' →</i>	Mortality Status at Database Discharge: <input type="checkbox"/> Alive <input type="checkbox"/> Dead <input type="checkbox"/> Unknown MtDBDisStat (4940) (calculated field)
Status at 30 days after surgery: <input type="checkbox"/> Alive <input type="checkbox"/> Dead <input type="checkbox"/> Unknown Mt30Stat (4945)	
If Mt30Stat=Alive or Dead →	30 Day Status Method of Verification: Mt30StatMeth (4950) <input type="checkbox"/> Evidence of life or death in Medical Record <input type="checkbox"/> Contact with patient or family <input type="checkbox"/> Contact with medical provider <input type="checkbox"/> Office visit to provider ≥ 30 days post op <input type="checkbox"/> Social Security Death Master File <input type="checkbox"/> Other
Operative Mortality: <input type="checkbox"/> Yes <input type="checkbox"/> No MtOpD (4985)	



Mortality status is tracked for **ALL** events

Mortality within 30 days of any OpType 1 or 2 case is an operative mortality

Non-Index ACHD *OPTIONAL* Limited Dataset

T2. Longitudinal Follow-up			
Date of Last Follow-Up: LFUDate (4995)		___/___/____ (mm/dd/yyyy)	
Mortality Status at Last Follow-Up: LFUMortStat (5000)		<input type="checkbox"/> Alive <input type="checkbox"/> Dead	
	(If Dead →)	Mortality Date: MtDate (5005)	___/___/____ (mm/dd/yyyy)

T2. Longitudinal Follow-Up

- Demo record, entered once

U. PATIENT PROCESS MEASURES			
<i>(If Op Type CPB, No CPB Cardiovascular, or CPB Noncardiovascular ↓)</i>			
Patient care discussed at preop multidisciplinary planning conference: <input type="checkbox"/> Yes <input type="checkbox"/> No CareDiscussed (5010)			
<i>If No →</i>	Reason care was not discussed: CareDiscussedRsn (5015)	<input type="checkbox"/> Urgent/Emergent/Salvage Case	<input type="checkbox"/> Patient admitted between conferences

U. Patient Process Measures

- Optional

Important Definitions - *review*

Episode of Care (EOC): *The time period a patient is admitted preceding and/or following an operation through Database Discharge date (DB d/c)*

Important Definitions - *review*

Episode of Care (EOC): *The time period a patient is admitted preceding and/or following an operation through Database Discharge date (DB d/c)*



- ***Events are “linked” by Database Discharge date***
- ***All events with the same DB d/c date are within the same EOC***

Important Definitions - *review*

Episode of Care (EOC): *The time period a patient is admitted preceding and/or following an operation through Database Discharge date (DB d/c)*

Index operation: *The first “cardiac” case of the Episode of Care*

Important Definitions - *review*

Episode of Care (EOC): *The time period a patient is admitted preceding and/or following an operation through Database Discharge date (DB d/c)*

Index operation: *The first “cardiac” case of the Episode of Care*

Primary procedure: *The procedure with the highest STAT Mortality score of an operation considering all Rules & Exceptions*

Non-Index ACHD OPTIONAL Limited Dataset Scenario 1

28-yr old patient s/p TOF repair returns for conduit placement. Postop, the patient experienced a cardiac arrest requiring ECMO cannulation and ultimately a VAD was placed. Transplantation was performed and the patient discharged home 60-days post-conduit placement.

Question #1

28-yr old patient s/p TOF repair returns for conduit placement. Postop, the patient experienced a cardiac arrest requiring ECMO cannulation and ultimately a VAD was placed. Transplantation was performed and the patient discharged home 60-days post-conduit placement.

Which procedure is the patient's index operation?

- ECMO cannulation as it was the first operation performed
- Conduit placement as it was the first CPB CV or No CPB CV operation
- Heart transplant as it has the highest STAT score
- None, the patient did not have an index operation

Answer #1

28-yr old patient s/p TOF repair returns for conduit placement. Postop, the patient experienced a cardiac arrest requiring ECMO cannulation and ultimately a VAD was placed. Transplantation was performed and the patient discharged home 60-days post-conduit placement.

Which procedure is the patient's index operation?

- ECMO cannulation as it was the first operation performed
- Conduit placement as it was the first CPB CV or No CPB CV operation
- Heart transplant as it has the highest STAT score
- None, the patient did not have an index operation

TM Definition:

Index Operation – refers to the first operation of the episode of care (EOC) of operation type CPB Cardiovascular or No CPB Cardiovascular. All the analyses including mortality calculation will be performed for the index operation. Each EOC will have one index operation.

Question #2

28-yr old patient s/p TOF repair returns for conduit placement. Postop, the patient experienced a cardiac arrest requiring ECMO cannulation and ultimately a VAD was placed. Transplantation was performed and the patient discharged home 60-days post-conduit placement.

For the conduit placement (index operation), my site can determine which optional fields to collect for this patient?

- True
- False

Answer #2

28-yr old patient s/p TOF repair returns for conduit placement. Postop, the patient experienced a cardiac arrest requiring ECMO cannulation and ultimately a VAD was placed. Transplantation was performed and the patient discharged home 60-days post-conduit placement.

For the conduit placement (index operation), my site can determine which optional fields to collect for this patient?

True

False



All fields for INDEX operations are still required

Question #3

28-yr old patient s/p TOF repair returns for conduit placement. Postop, the patient experienced a cardiac arrest requiring ECMO cannulation and ultimately a VAD was placed. Transplantation was performed and the patient discharged home 60-days post-conduit placement.

The patient has new genetic testing results that were not available at the time of the original TOF repair. How should this be handled in the database?

- Update the results in the demographic record
- No need to include the new results in the demographic record

Answer #3

28-yr old patient s/p TOF repair returns for conduit placement. Postop, the patient experienced a cardiac arrest requiring ECMO cannulation and ultimately a VAD was placed. Transplantation was performed and the patient discharged home 60-days post-conduit placement.

The patient has new genetic testing results that were not available at the time of the original TOF repair. How should this be handled in the database?

- Update the results in the demographic record
- No need to include the new results in the demographic record

There is an index operation so the demographic record should be complete

Question #4

28-yr old patient s/p TOF repair returns for conduit placement. Postop, the patient experienced a cardiac arrest requiring ECMO cannulation and ultimately a VAD was placed. Transplantation was performed and the patient discharged home 60-days post-conduit placement.

For the non-index operations performed, which of the following is optional to collect and enter into the database?

- Primary diagnosis and Primary procedure
- Operation type
- Postoperative events
- Surgery date

Answer #4

28-yr old patient s/p TOF repair returns for conduit placement. Postop, the patient experienced a cardiac arrest requiring ECMO cannulation and ultimately a VAD was placed. Transplantation was performed and the patient discharged home 60-days post-conduit placement.

For the non-index operations performed, which of the following is optional to collect and enter into the database?

- Primary diagnosis and Primary procedure
- Operation type
- Postoperative events
- Surgery date

S2. Postoperative Events
- Optional

Required on INDEX operations

Question #5

28-yr old patient s/p TOF repair returns for conduit placement. Postop, the patient experienced a cardiac arrest requiring ECMO cannulation and ultimately a VAD was placed. Transplantation was performed and the patient discharged home 60-days post-conduit placement.

A program wants to review their patients requiring MCS prior to transplant. How is this now handled in the database?

- This data is not available in the database
- This data is no longer collected if the transplant is not the index operation
- A program can continue to collect any of the optional fields

Answer #5

28-yr old patient s/p TOF repair returns for conduit placement. Postop, the patient experienced a cardiac arrest requiring ECMO cannulation and ultimately a VAD was placed. Transplantation was performed and the patient discharged home 60-days post-conduit placement.

A program wants to review their patients requiring MCS prior to transplant. How is this now handled in the database?

- This data is not available in the database
- This data is no longer collected if the transplant is not the index operation
- A program can continue to collect any of the optional fields

The non-index ACHD limited data set is OPTIONAL

Question #6

28-yr old patient s/p TOF repair returns for conduit placement. Postop, the patient experienced a cardiac arrest requiring ECMO cannulation and ultimately a VAD was placed. Transplantation was performed and the patient discharged home 60-days post-conduit placement.

I only need to complete the mortality fields on index operations.

- True, this data is not used in the analysis
- False, the mortality field data must be completed on every operation

Answer #6

28-yr old patient s/p TOF repair returns for conduit placement. Postop, the patient experienced a cardiac arrest requiring ECMO cannulation and ultimately a VAD was placed. Transplantation was performed and the patient discharged home 60-days post-conduit placement.

I only need to complete the mortality fields on index operations.

True, this data is not used in the analysis

False, the mortality field data must be completed on every operation

Mortality fields required on *all* operations (index & non-index):

- Patient Expired in OR (4665)
- Mortality Status at Hospital Discharge (4880)
- Status At End Of Database Tracking (4925)
- Mortality – 30-Day Status (4945)
- Mortality – Operative Death (4985)
- *If dead*, Mortality Date (5005)

Question #7

28-yr old patient s/p TOF repair returns for conduit placement. Postop, the patient experienced a cardiac arrest requiring ECMO cannulation and ultimately a VAD was placed. Transplantation was performed and the patient discharged home 60-days post-conduit placement.

Which operation should the preoperative factor of diabetes get coded?

- It can be coded on all operations, but is required on the conduit placement
- The program can decide which operations to code it on
- It is important to include on the transplant operation only

Answer #7

28-yr old patient s/p TOF repair returns for conduit placement. Postop, the patient experienced a cardiac arrest requiring ECMO cannulation and ultimately a VAD was placed. Transplantation was performed and the patient discharged home 60-days post-conduit placement.

Which operation should the preoperative factor of diabetes get coded?

- It can be coded on all operations, but is required on the conduit placement
- The program can decide which operations to code it on
- It is important to include on the transplant operation only

All fields for INDEX operations are still required

Non-Index ACHD OPTIONAL Limited Dataset Scenario 2

A 20-year-old patient with history of TOF repair at your facility arrives with hemodynamic instability. CT surgery cannulates for ECMO. The patient experiences a stroke and care is withdrawn.

Question #1

A 20-year-old patient with history of TOF repair at your facility arrives with hemodynamic instability. CT surgery cannulates for ECMO. The patient experiences a stroke and care is withdrawn.

Does the patient have an index operation during this episode of care?

- Yes, all patients have an index operation in the database
- No, the patient did not have an index operation

Answer #1

A 20-year-old patient with history of TOF repair at your facility arrives with hemodynamic instability. CT surgery cannulates for ECMO. The patient experiences a stroke and care is withdrawn.

Does the patient have an index operation during this episode of care?

Yes, all patients have an index operation in the database

No, the patient did not have an index operation

- *Not all patients will have an index operation during their episode of care*
- *Index operations can only be ootype (1) CPB Cardiovascular or (2) No CPB Cardiovascular*

Question #2

A 20-year-old patient with history of TOF repair at your facility arrives with hemodynamic instability. CT surgery cannulates for ECMO. The patient experiences a stroke and care is withdrawn.

Do you enter the ECMO cannulation into the CHSD?

- No, the patient did not have an index operation
- Yes, all operations performed by a cardiac surgeon should be entered

Answer #2

A 20-year-old patient with history of TOF repair at your facility arrives with hemodynamic instability. CT surgery cannulates for ECMO. The patient experiences a stroke and care is withdrawn.

Do you enter the ECMO cannulation into the CHSD?

- No, the patient did not have an index operation
- Yes, all operations performed by a cardiac surgeon should be entered

All cases done by a surgeon on your Schedule A are entered, regardless of age, procedure, otype, etc.

Question #3

A 20-year-old patient with history of TOF repair at your facility arrives with hemodynamic instability. CT surgically cannulates for ECMO. The patient experiences a stroke and care is withdrawn.

The patient's existing demographic record in your database is version 3.41 – is this required to be updated?

No

Yes

Answer #3

A 20-year-old patient with history of TOF repair at your facility arrives with hemodynamic instability. CT surgery cannulates for ECMO. The patient experiences a stroke and care is withdrawn.

The patient's existing demographic record in your database is version 3.41 – is this required to be updated?

No - *technically not required on any operations; however, the demographic version must be 3.22 or greater*

Yes

Question #4

A 20-year-old patient with history of TOF repair at your facility arrives with hemodynamic instability. CT surgery cannulates for ECMO. The patient experiences a stroke and care is withdrawn.

The patient required intubation & underwent CPR prior to ECMO cannulation. Should these be coded as preoperative factors?

- Yes, all preoperative factors should be coded on all cases
- No, it is up to the program whether to capture preoperative factors on non-index ACHD operations

Answer #4

A 20-year-old patient with history of TOF repair at your facility arrives with hemodynamic instability. CT surgery cannulates for ECMO. The patient experiences a stroke and care is withdrawn.

The patient required intubation & underwent CPR prior to ECMO cannulation. Should these be coded as preoperative factors?

- Yes, all preoperative factors should be coded on all cases
- No, it is up to the program whether to capture preoperative factors on non-index ACHD operations

Note: Preoperative Factors: select Yes / select Other / free text "non-index op"

Non-Index ACHD OPTIONAL Limited Dataset Scenario 3

A 20-yr old patient with undiagnosed CHD (no previous surgical history) arrives with hemodynamic instability. CT surgery cannulates for ECMO. The patient experiences a stroke and care is withdrawn.

Question #1

A 20-yr old patient with undiagnosed CHD no previous surgical history arrives with hemodynamic instability. CT surgery cannulates for ECMO. The patient experiences a stroke and care is withdrawn.

Does this non-index operation get entered into the database?

- Yes, all cases are entered
- No, it is not an analyzed case

Answer #1

A 20-yr old patient with undiagnosed CHD no previous surgical history arrives with hemodynamic instability. CT surgery cannulates for ECMO. The patient experiences a stroke and care is withdrawn.

Does this non-index operation get entered into the database?

- Yes, all cases are entered
- No, it is not an analyzed case

All cases done by a surgeon on your Schedule A are entered, regardless of age, procedure, optype, etc.

Question #2

A 20-yr old patient with undiagnosed CHD no previous surgical history arrives with hemodynamic instability. CT surgery cannulates for ECMO. The patient experiences a stroke and care is withdrawn.

Can I code the preoperative factor (230) Shock, Persistent at time of surgery?

- Yes, it is required to code all preoperative factors
- No, the patient does not meet the definition for shock
- Yes, if the program wants to collect preoperative factors on non-index adult operations *and* the patient meets the definition for Shock, Present at the time of surgery

Answer #2

A 20-yr old patient with undiagnosed CHD no previous surgical history arrives with hemodynamic instability. CT surgery cannulates for ECMO. The patient experiences a stroke and care is withdrawn.

Can I code the preoperative factor (230) Shock, Persistent at time of surgery?

- Yes, it is required to code all preoperative factors
- No, the patient does not meet the definition for shock
- Yes, if the program wants to collect preoperative factors on non-index adult operations *and* the patient meets the definition for Shock, Present at the time of surgery

Question #3

A 20-yr old patient with undiagnosed CHD no previous surgical history arrives with hemodynamic instability. CT surgery cannulates for ECMO. The patient experiences a stroke and care is withdrawn.

This patient has never had an operation at my facility. How do I handle the NCAA, Chrom Abn, and Syndromes?

- Complete a demographic record for this patient
- Leave the demographic fields blank
- Complete the other demographic fields, but the NCAA, Chrom Abn, and Syndromes are optional so they can be left blank

Answer #3

A 20-yr old patient with undiagnosed CHD no previous surgical history arrives with hemodynamic instability. CT surgery cannulates for ECMO. The patient experiences a stroke and care is withdrawn.

This patient has never had an operation at my facility. How do I handle the NCAA, Chrom Abn, and Syndromes?

- Complete a demographic record for this patient
- Leave the demographic fields blank
- Complete the other demographic fields, but the NCAA, Chrom Abn, and Syndromes are optional so they can be left blank

Every patient must have a complete demographic record that is demographic version 3.22 or newer

Question #4

A 20-yr old patient with undiagnosed CHD no previous surgical history arrives with hemodynamic instability. CT surgery cannulates for ECMO. The patient experiences a stroke and care is withdrawn.

When I upload my file to IQVIA, the MVR shows the optional fields as missing. How do I handle this?

- IQVIA should be updating their report following this change
- Understand there will be more missing fields reported
- STS will require your vendor to create a report

Answer #4

A 20-yr old patient with undiagnosed CHD no previous surgical history arrives with hemodynamic instability. CT surgery cannulates for ECMO. The patient experiences a stroke and care is withdrawn.

When I upload my file to IQVIA, the MVR shows the optional fields as missing. How do I handle this?

- IQVIA should be updating their report following this change
- Understand there will be more missing fields reported
- STS will require your vendor to create a report

Optional fix for right now. IQVIA reports will not be updated. Vendors not required to make any changes.

Non-Index ACHD *OPTIONAL* Limited Dataset

In Summary -

- ***Optional*** for programs to chose to collect the limited dataset for ***non-index adult operations***
- The IQVIA missing variable report will still report ***all*** missing data
- Pay attention to the ***required*** fields regardless of operation type
- ***Go Live = NOW*** (TM updated in November)

Open Discussion

Please use the
Q&A Function.

We will answer as
many questions as
possible.

We encourage
your feedback and
want to hear from
you!

Upcoming
CHSD
Webinars

Monthly Webinars

- 11/19/24 @ 12pmCT
- 12/17/24 @ 12pmCT

AQO Hot Topics

- 10/22/24 @ 10amCT

Contact Information

Leigh Ann Jones, STS
National Database Manager,
Congenital and General
Thoracic

- Ljones@sts.org

Tech Support
Analysis Report/Data
Submission Questions

- STSDB_helpdesk@sts.org

Database Operational
Questions

- STSDB@sts.org

Congenital STS Database Consultants

- Leslie Wacker lwacker@sts.org
- Chasity Wellnitz cwellnitz@sts.org



STS National Database[™]
Trusted. Transformed. Real-Time.

THANK YOU FOR JOINING!