STS National Database:

ACSD Monthly Webinar

February 7, 2024





Agenda

Welcome and Introductions

STS Updates

Frailty Project



STS Updates

Febraury Training Manual Posted

Beta Blocker Data Collection

H 4 Reports Released

H1 Closes on February 23, 2024



Important Dates



7 Feb. 2024

ACSD Monthly Webinar @ 2pmCT



13 Feb. 2024

ACSD Webinar – Preparing for Harvest Close



23 Feb. 2024

Harvest 1 Close (OR Dates through December 31, 2023)



6 Mar. 2024

ACSD Monthly Webinar @ 2pmCT

Updates to the ACSD Executive Dashboard for the missingness to be released

10 Feb. 2024

ACSD STS DB Quality
Improvement Series/Beta
Blocker @ 2pmCT

21 Feb. 2024

Harvest 1 Opt-out Ends

27 Feb. 2024

Harvest 2024 Dates

2024 Harvest

Term	Harvest Submission Window Close	Opt-Out Date	Includes Procedures Performed Through:	Report Posting	Comments
Harvest	2/23/2024	02/27/2024	12/31/2023	Spring 2024	Star Rating
Harvest 2	5/24/2024	05/28/2024	3/31/2024	Summer 2024	
Harvest	8/23/2024	8/27/2024	6/30/2024	Fall 2024	Star Rating
Harvest	11/22/2024	11/26/2024	9/30/2024	Winter 2024	



Data Submission Open is continuous for all harvest terms. Submission Close occurs at 11:59 p.m. Eastern on the date listed.



Collection of Frailty Data in the STS National **2024** Databases: What's Coming







Moritz C. Wyler von Ballmoos, MD, PhD, MPH, FACC, FAHA System Chair, Cardiovascular & Thoracic Surgery Physician Executive Lead, Heart & Vascular Service Line Texas Health Resources





Disclosures

Consultant/Proctor: Medtronic, Boston Scientific





Summary:

- 1. Why frailty is so important
- 2. What metric & data collection were chosen & why
- 3. Technical aspects of frailty data collection
- 4. Timeline for implementing frailty assessment into ND
- 5. Questions





Important Aspects: Frailty Assessment

- Elderly & frail is fastest growing demographic in North America
- Frailty is common among cardiac & thoracic surgery patients
- Frailty is more common in elderly, but is a condition independent of biological age and therefore an independent risk
- Frailty associated with prolonged hospitalization, morbidity & mortality





Medicare-Linked STS ACSD Dataset

Isolated CABG, isolated AVR, AVR/CABG; n= 294,672 (Segal et. al CBFi)

Risk increase after STS PROM adjustment: 30-day outcomes

Death	Prolonged Ventilation	Stroke	Renal failure	None-home discharge
x 2.0	x 4.0	x 2.3	x 3.1	x 4.8

Risk increase after STS PROM adjustment: 1-year outcomes

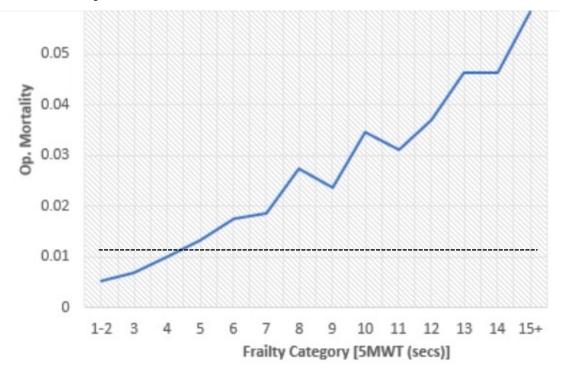
Death	Readmission
x 2.8	x 1.9

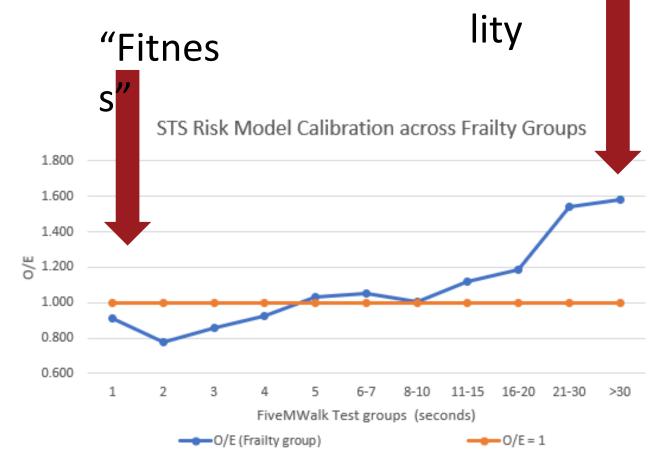




The Problem of Not Adjusting for Frailty

5 years of CABG Data ACSD:







Vulnerabi



The Problem of Not Knowing Frailty In Our Patients

No standardized frailty assessment of all patients

=

1. Shared decision-making is based on incomplete information

2. Risk models & risk-adjusted performance metrics are incorrect



Requirements: STS Frailty Test/Measures

Low effort & high yield

Robustly validated

Agnostic to diagnosis/procedures



Clinical Frailty Scale

- inpatient/outpatient
- patients in wheelchair/bed
- by proxy
- etc.

Timed chair rises



Frailty Data to Be Collected in STS ND

- Clinical Frailty Scale: ADL, IADL, general health, stamina, activity
- Timed chair rises (stand up from sitting position 5 times without using arms; <15s;
- >15s; unable to complete exercise)
- Data collection completed by a clinician (RN/APP/MD) with the patient preoperatively





Data Collection Form

The Society of Thoracic Surgeons **Adult Cardiac Surgery Database Frailty Supplement Data Collection Form**



For all STS ACSD cases starting with OR dates of April 1, 2024

Patient Information			
Participant ID:	Patient ID:		
Record ID:	Date of Surgery:		
Frailty Assessment			
Indicate the following activities your patients' need any	help with from another person:		
(select all that apply)			
Exclude activities that the patient never had to do before	e or had always relied on someone else to do		
•	•		
☐ Getting dressed			
☐ Taking a bath or shower			
☐ Eating/Drinking			
☐ Walking Around			
☐ Getting in/out of bed			
☐ Patient does not need help with any of these			
	1		
Indicate the following activites your patient needs any he (select all that apply)	elp with from another person:		
(Select all triat apply)			
Exclude activities that the patient never had to do before	e or had always relied on someone else to do:		
Going shopping for groceries or clothes			
Preparing their own meals (including planning and co	oking full meals)		
☐ Doing housework (including heavy housework)	and the other state of the state of		
☐ Taking their own medication (including preparing and right time)	taking the right dose at the		
☐ Handling their own money (including writing checks a	nd naving hills)		
□ Patient does not need help with any of these			
Does your patient have problems with logical reasoning	or memory (cognition)?		
□ No			
☐ Mild impairment (forgetful of recent events; repetitive questioning; more socially			
withdrawn than used to be)			
☐ Moderate or severe impairment (more than mild imp	airment)		
In general, would you say your patient's health is:			
□ Excellent			
□ Very good/Good			
□ Pair/Poor			

STS National Database Trusted. Transformed. Real-Time.

The Society of Thoracic Surgeons **Adult Cardiac Surgery Database** Frailty Supplement **Data Collection Form** January 21, 2024



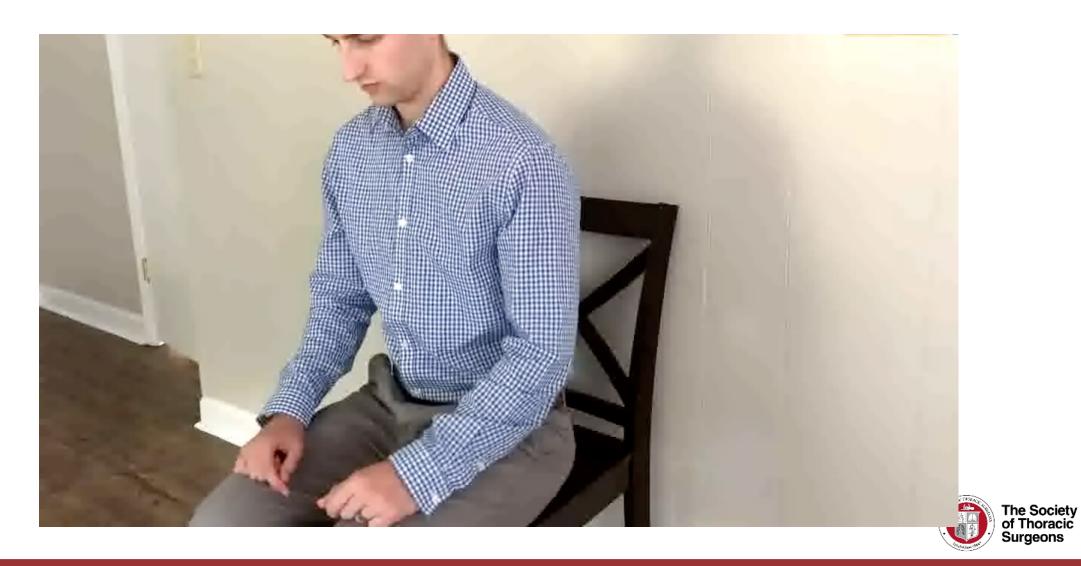
In a typical week, how	often does your patient feel that everything they do is an effort?
☐ Never/Rarely (Not i	more than one day a week)
☐ Sometimes/Occasion	
☐ All the time (5-7 da	
In a typical week, how	often does your patient engage in moderate of strenuous sports or recreational activities:
(I.e., dancing, golfing	without a cart, softball, pickle ball, jogging, swimming, cycling, or other similar activated.
Do not included regula	ar paced walking).
□ Never	
☐ Sometimes/Occasion	onally (1-4 days a week)
☐ Frequently (5-7 day	rs a week)
Indicate how long it ta	akes your patient to perform five timed chair rises from the sitting to standing upright
position without using	g their hands or arms for support:
□ <15 seconds	
□ >15 seconds	
☐ Unable to finish exe	ercise
=	.g., Patient is intubated)







5 Timed Chair Rises





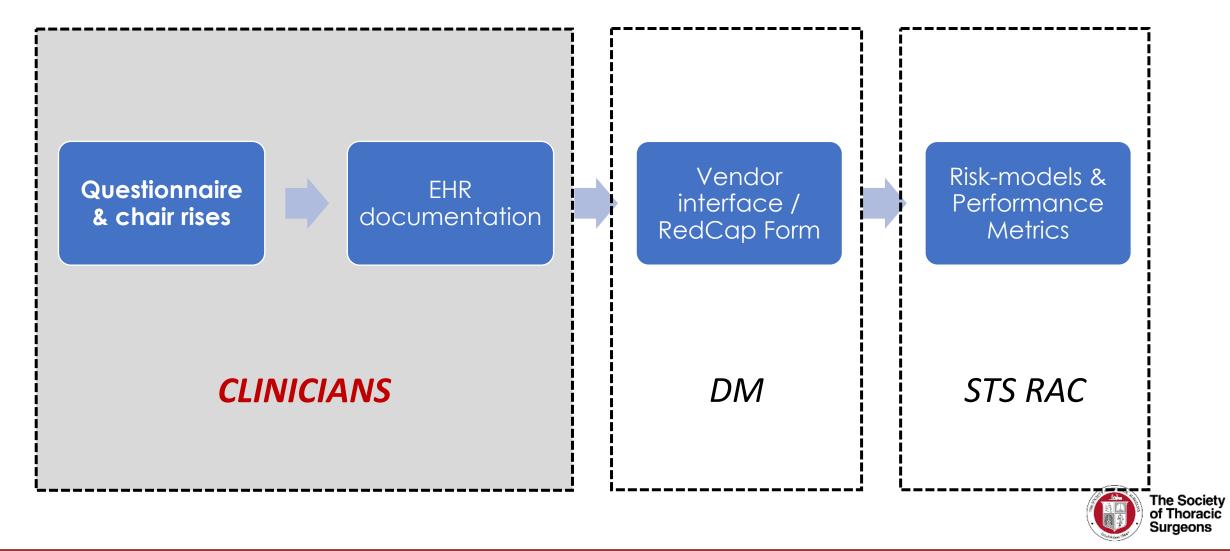
Frailty Data Collection

- Will be using RedCap until the next version upgrade of the databases
- Collaboration with vendors to facilitate data entry





Frailty Data Collection Process







- 1. **Company Data**: Starbucks itself suggests that the average time to complete an order falls within the range of **3 to 5 minutes 1**. This includes the time it takes to prepare the drink and serve the customer.
- 2. **QSR Study**: A study conducted by a Quick Service Restaurant (QSR) found that the typical wait time at Starbucks is approximately **4 minutes and 44 seconds** 1.





Roll-Out Process

ACSD first (GTSD in 2nd stage)

• All cases (not only PROM cases); elective, urgent & emergent cases => every patient going to OR...

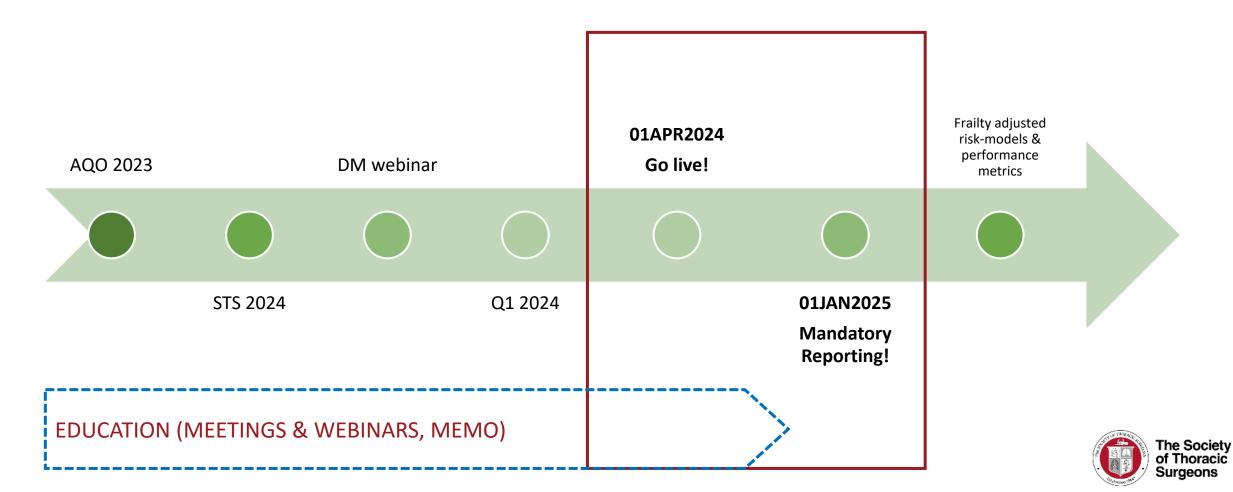
• Go live: 4/1/24

• Mandatory: 1/1/25





Implementation Timeline





Supporting Materials for DM & Participants

- 1. User manual(clinicians)
- 2. Training manual (DM)
- 3. DCF
- 4. Instructional videos

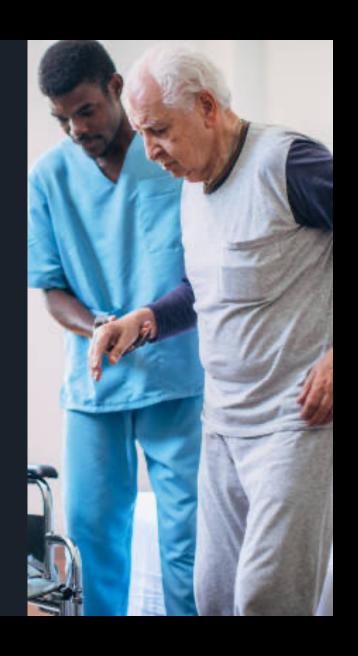






Frailty Data Collect

- Begins April 1, 2024
- Mandatory January 1, 2025
- All Cardiac Surgeries, analyzed and nonanalyzed cases entered into the ACSD
- Data Entry into REDCap Form; will also work with willing vendors



Resources

- STS National Database Webpage
- STSDB_Helpdesk@sts.org (Uploader, DQR, Missing Variable, Dashboard, Password and Login)
- STS National Database Feedback Form
- Resource Documents
 - Contact Information
 - Webinar Information
 - FAQ Document
 - Go-Live Checklist
 - Tiered-level Support Document
 - Training Videos
 - Link to IQVIA
 - ckrohn@sts.org





Open Discussion

Please use the raise-hand function.

Please use the Q&A Function.

We will answer as many questions as possible.

We encourage your feedback and want to hear from you!







Full Specifications **Data Dictionary v5.0**

CathPCI Registry

Element: 4561 Canadian Study of Health and Aging (CSHA) Clinical Frailty **Technical Specification** Short Name: CSHAScale Code System Name Code Missing Data: Report ACC NCDR 1000142381 Harvested: Yes (DDS) Coding Instruction: Indicate the Canadian Study of Health and Aging (CSHA) Clinical Frailty Scale Is Identifier: No Is Base Element: Yes Target Value: The last value prior to the start of the first procedure Is Followup Element: No Supporting Definition: Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User

Code System Name	Code	Selection Text	Definition
ACC NCDR	1000142382	1: Very Fit	CHSA Clinical Frailty Scale 1: Very Fit - People who are robust, active, energetic and motivated. These people commonly exercise regularly. They are among the fittest for their age.
ACC NCDR	1000142383	2: Well	CHSA Clinical Frailty Scale 2: Well - People who have no active disease symptoms but are less fit than category 1. Often, they exercise or are very active occasionally, e.g. seasonally.
ACC NCDR	1000142384	3: Managing Well	CHSA Clinical Frailty Scale 3: Managing Well - People whose medical problems are well controlled, but are not regularly active beyond routine walking.
ACC NCDR	1000142385	4: Vulnerable	CHSA Clinical Frailty Scale 4: Vulnerable - While not dependent on others for daily help, often symptoms limit activities. A common complaint is being "slowed up", and/or being tired during the day.
ACC NCDR	1000142386	5: Mildly Frail	CHSA Clinical Frailty Scale 5: Mildly Frail - These people often have more evident slowing, and need help in high order IADLs (finances, transportation, heavy housework, medications). Typically, mild frailty progressively impairs shopping and walking outside

6: Moderately Frail

7: Severely Frail

9: Terminally III

8: Very Severely Frail

(Known or Diagnosed Pric	OR TO FIRST CATH LAB VISIT)		
Diabetes Mellitus ⁴⁵⁵⁵ :	O No O Yes	Currently on Dialysis 4560:	O No O Yes
CSHA Clinical Frailty Scal	e ^{1 4561} : O 1: Very Fit	O 4: Vulnerable	O 7: Severely Frail
	O 2: Well	O 5: Mildly Frail	O 8: Very Severely Frail
	O 3: Managing Well	O 6: Moderately Frail	O 9: Terminally III

28-Sep-2018

© 2017, American College of Cardiology Foundation people with a life expectancy <6 months, who are not otherwise evidently frail.

() Indicates Diagnostic Cath Data Set (DDS)

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The Society of Thoracic Surgeons

Effective for Patients Discharged April 01, 2018

1000142387

1000142388

1000142389

1000142390

ACC NCDR

ACC NCDR

ACC NCDR

ACC NCDR





