



Society of Thoracic Surgeons

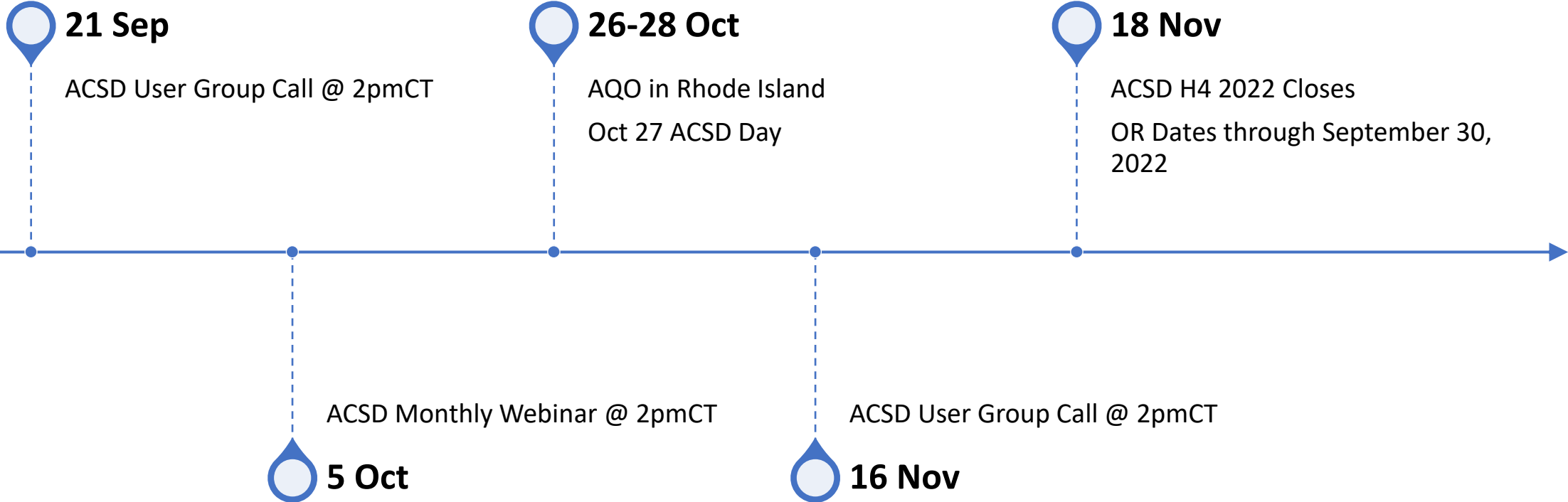
Adult Cardiac Surgery Database:
User Group Call

September 21, 2022

Agenda

- Welcome and Introductions
- STS Important Dates
- Special Presentation:
- Perfusion Navigator with Susan Wagner
- Q & A

Important Dates



Harvest 2022 Dates

ACSD					
Harvest	Close	Opt-Out	Includes procedures performed through	Report Posting	Comments
H1 2022	February 25	March 1	December 31, 2021	Spring 2021	Star Rating
H2 2022	May 27	June 1	March 31, 2022	Summer 2022	
H3 2022	August 26	August 30	June 30, 2022	Fall 2022	Star Rating
H4 2022	November 18	November 22	September 30, 2022	Winter 2022	



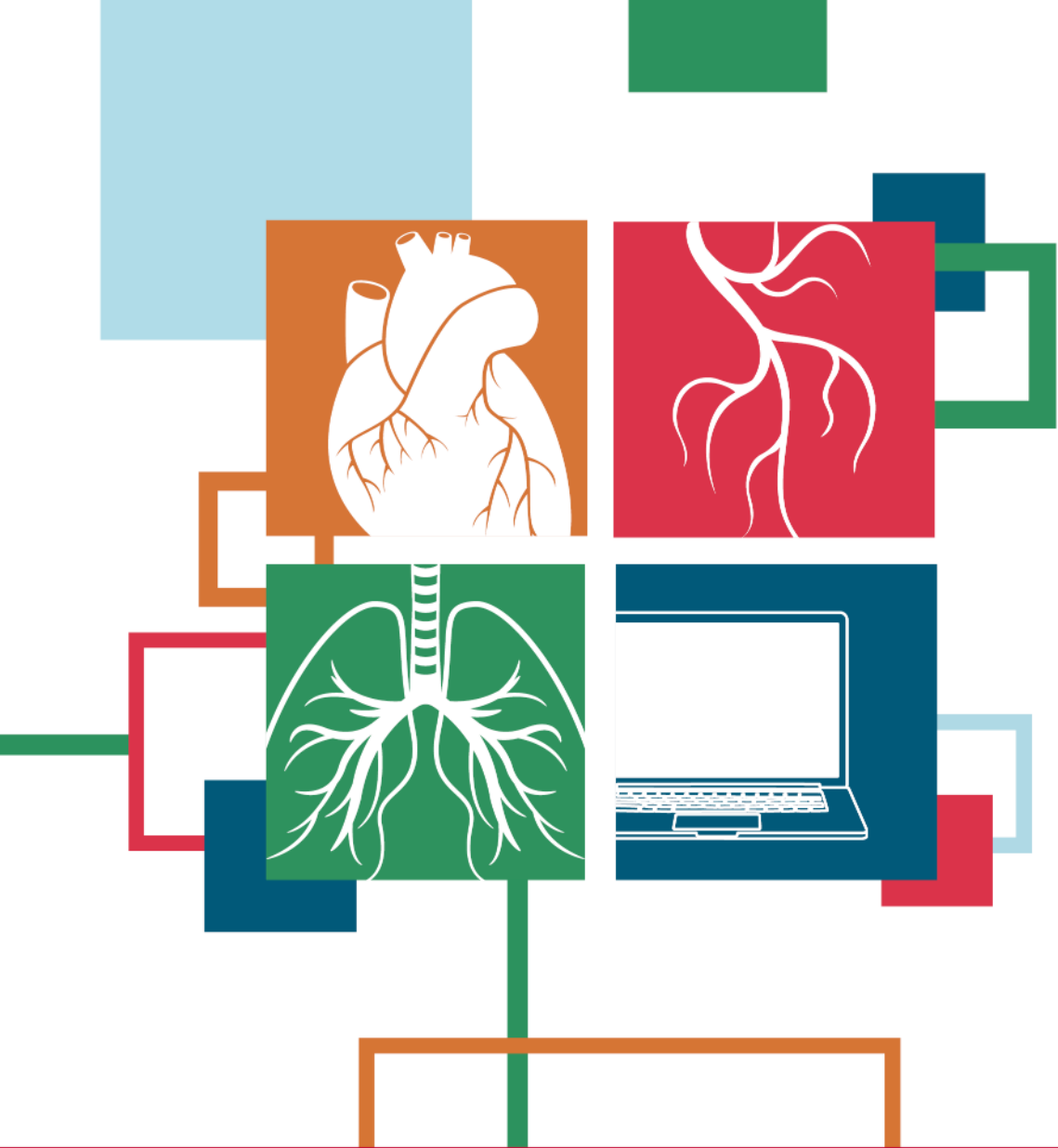
STS Updates

Harvest 3 data in analysis

September Training Manual Posted

Email STSDB@sts.org for contact updates

AQO Registration OPEN!!!



ADVANCES IN QUALITY & OUTCOMES: A Data Managers Meeting

October 26-28, 2022 ■ PROVIDENCE, RHODE ISLAND



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ADVANCES IN QUALITY & OUTCOMES: A Data Managers Meeting

October 26-28, 2022 ■ PROVIDENCE, RHODE ISLAND

AQO Registration is OPEN.

Receive Early Bird Registration Pricing through Friday, August 26.

STS MEMBER	Early Bird (August 26, 2022)	Standard
One Track	\$550	\$650
Two Tracks	\$900	\$1,100
Multi-Day (Three Tracks)	\$1,150	\$1,450
Virtual Pass	\$300	\$300

NON-MEMBER	Early Bird (August 26, 2022)	Standard
One Track	\$650	\$750
Two Tracks	\$1,100	\$1,300
Multi-Day (Three Tracks)	\$1,450	\$1,750
Virtual Pass	\$400	\$400



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Thursday, October 27, 2022 – Adult Cardiac

In Person

Virtual Pass

• In-person sessions with live Q&A	✓	
• On-demand content (available mid-October)	✓	✓
• Recorded archive of in-person sessions (available mid-November)	✓	✓
• Breakfast, lunch, and refreshment breaks	✓	
• Personal interactions and networking with peers	✓	
• Networking Reception with speakers, vendors, and colleagues	✓	
• Face-to-face time with exhibitors	✓	
• Complete exhibitor listing	✓	✓
• Exhibit Hall giveaways and Passport to Prizes	✓	
• AQO Hot Topics Webinar (in January)	✓	✓
• Digital conference materials (PowerPoint presentations, handouts, and case scenarios)	✓	✓
• Opportunity to view and vote on your favorite e-poster	✓	✓
• Continuing Education/CEU Credits	✓	✓
• Explore the sights and sounds of Providence, Rhode Island	✓	

The Virtual Pass
will
NOT
have live
streaming



**The Society
of Thoracic
Surgeons**

**ADVANCES IN QUALITY & OUTCOMES:
A Data Managers Meeting**
October 26-28, 2022 ■ PROVIDENCE, RI



- Educational sessions and social events will take place at the Rhode Island Convention Center (1 Sabin St, Providence, RI 02903).
- A block of rooms have been reserved at the Omni Providence Hotel (1 West Exchange St., Providence, RI 02903). The special AQO group rate of \$259, plus state and local taxes, is guaranteed through **Tuesday, October 4**, or until the group block is sold out.
- [Reserve online](#)
- Call 401-598-8000. Be sure to reference “AQO” or “Advances in Quality and Outcomes.”



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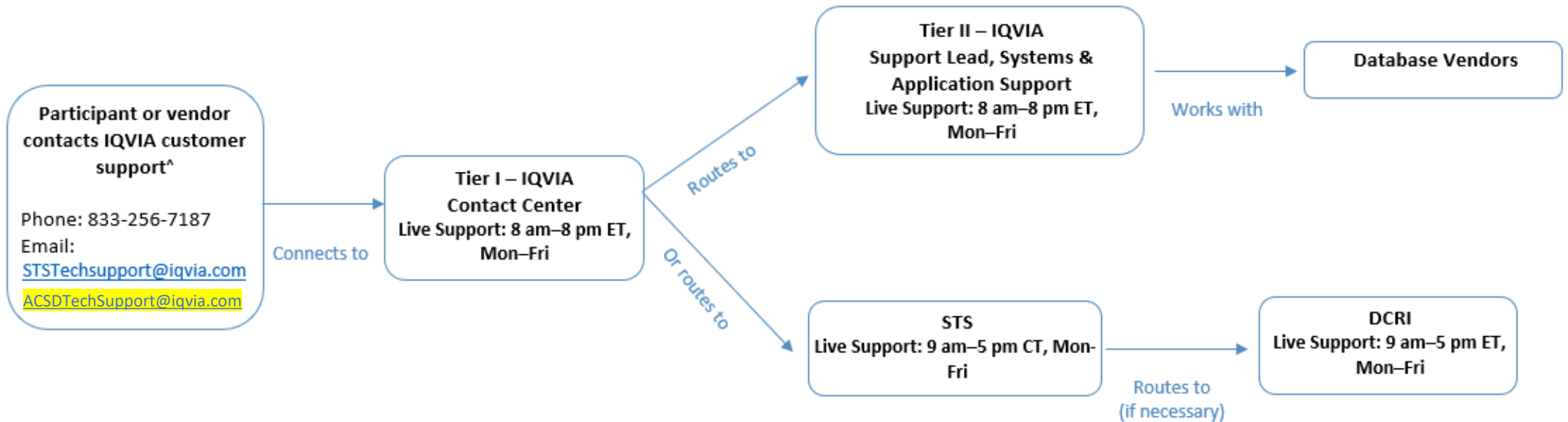
Preliminary Program Topics

- Aorta/Arch/Debranching
- AVR with Annular Enlargements
- MV Procedures
- CABG Anastomoses
- Devices: VAD, ECMO, Impellas
- Databases in Value Based Care
- TVT Registry
- Cath/Echo

AQO is Going Green!

IQVIA's Support Plan

Please include your Participant ID (PID) in all communications with STS and IQVIA



^ Inquiries received outside live support hours will require a 24-hour turnaround window (i.e., one business day) for responses.





Development and Implementation of Perfusion Navigator



Susan Wagner, RN
Clinical Quality Analyst – Cardiovascular Health
Stanford Health Care

September 2022

Stanford Health Care CVH Quality

- **Stanford Health Care located in Palo Alto, CA and Stanford Health Care Tri-Valley in Pleasanton, CA**
- **STS Annual Volume SHC 1000 cases; Tri-valley 175**
- **4 Data abstractors/quality analysts**
- **SHC 9 surgeons; Tri-Valley 2 surgeons**

Background

- **July 2017 SHC began participating in the STS Adult Cardiac Anesthesia Module via v2.9**
- **With the implementation of v4.2.2, came the addition of more perfusion fields, increasing the need for more comprehensive documentation.**
- **The need for “one stop shop” perfusion documentation became apparent**

Development and Implementation of Perfusion Navigator

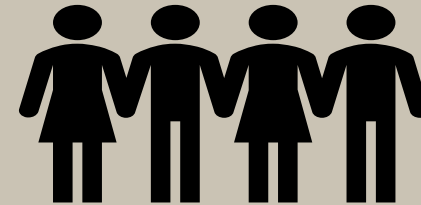
Problem

- Missing or difficult to find perfusion documentation
- Knowledge deficit by abstractors of perfusion terminology and workflow

Development and Implementation of Perfusion Navigator

Identify
Stakeholders

- Manager of Clinical Operations CVH
- Perfusion Lead
- STS Data Manager
- IT EPIC Specialist



Development and Implementation of Perfusion Navigator

Implementation

- Procure perfusion champion
- Communication between perfusion and abstractors essential
- Abstractor education regarding perfusion workflow
- Perfusion education on data needed and definitions of those fields

Development and Implementation of Perfusion Navigator

IT/Epic Implementation

- Development of perfusion flowsheet in EPIC-auto-populates with fluid volume totals
- Epic timers activated to enter events-recording and calculating CPB, CCT and other times

Development and Implementation of Perfusion Navigator

Outcomes/ Benefits

- Documentation streamlined to one location/no double charting
- Readily accessible perfusion documentation
- Greatly improved accuracy and decreases missingness of data
- **SAVES TIME!!**

Perfusion Intake and Output

Intake	
Albumin 25% (mL) - Perfusion	—
Albumin 5% (mL) - Perfusion	—
Amicar (5G/20mL) - Perfusion	40
Amiodarone (mL) - Perfusion	—
Calcium Chloride (mL) - Perfusion	10
Cardioplegia Crystalloid (mL) - Perfusion	894
Heparin (mL) - Perfusion	48
Lidocaine (mL) - Perfusion	—
Magnesium (mL) - Perfusion	4
Methylene Blue (mL) - Perfusion	—
Mannitol (12.5G/50mL) - Perfusion	50
Mannitol (20G/100mL) - Perfusion	—
Normal Saline (mL) - Perfusion	—
Normosol (mL) - Perfusion	1600
Neosynephrine (mL) - Perfusion	6
Potassium Chloride (20meq/50mL) - Perfusion	—
Solumedrol (mL) - Perfusion	—
Bicarbonate (mL) - Perfusion	50
Vasopressin (mL) - Perfusion	—
Lactated Ringer (mL) - Perfusion	—
Cardioplegia Total - Perfusion	1117
(Retired) Output	
Cell Saver Volume Loss (mL) - Perfusion	363
Cell Saver Plasma Loss (mL) - Perfusion	251
Hemoconcentration (mL) - Perfusion	450
OTHER	
RAP/VAP (ml)	500

Perfusion Summary

Perfusion Summary	
Highest Glucose on CPB	183
Highest IntraOp Glucose	—
Autologous Blood Units - mL (Cell Saver)	225 mL
Lowest HCT Post CPB	—
Lowest IntraOp Temperature	—
Temperature Probe Location	Bladder
Lowest IntraOp HCT	—
Lowest IntraOp HGB	—
Lowest CPB HCT	29
Lowest CPB HGB	9.4
Endoscopic Vein Harvest Total Time (Minutes)	—
Vein Prep Total Time (Minutes)	—
Radial Artery Harvest Total Time (Minutes)	30 Minutes
Radial Artery Prep Total Time (Minutes)	15 Minutes
Cardiopulmonary Bypass Total Time (Minutes)	84 Minutes
Perfusion Strategy	Planned CPB
Aortic Occlusion	Aortic Crossclamp
Left Heart Bypass	No
Aortic Cross Clamp Total Time (Minutes)	48 Minutes
Max Core Temp during rewarming	36.5 °C (97.7 °F)
Highest Arterial Outflow Temp	36.5 °C (97.7 °F)
Selective Antegrade Perfusion Utilized	No
Selective Retrograde Perfusion Utilized	No
Cerebral Perfusion Type	—
Antegrade Cerebral Perfusion Total Time (Minutes)	—
Cooling Time prior to Circulatory Arrest(Minutes)	—
Retrograde Cerebral Perfusion Total Time (Minutes)	—
Circulatory Arrest Used	No
Total Time Circulatory Arrest Used (Minutes)	—
Cardioplegia Method	Antegrade
Cardioplegia Solution Type	Blood
Type ?	DelNido
Number of Arterial Cannulation Insertion Sites	1
Number of Venous Cannulation Insertion Sites	1
OTHER	
Arterial Cannulation Site 1	Aortic
Venous Cannulation Site 1	Right Atrial

Perfusion Perspective/ Goals

- **Global documentation improvement for all perfusion cases**
- **Streamline documentation, eliminate duplication**
- **Buy-in from all perfusion staff with goal of 100% utilization**
- **Collaboration with IT to create Epic improvements necessary for implementation.**
- **Automate some of the data collection to prevent user input errors**

Current State Perfusion Navigator

- **Perfusion Summary and Intake and Output located on one Epic Screen**
- **Temporary secondary documentation under MEDIA tab**
- **Accessible to both SHC campuses**

Next Steps

- **Ongoing evaluation of tool for effectiveness and compliance**
- **Consider mapping appropriate fields to STS vendor tool to decrease on abstraction time and increase accuracy of data entry**

Acknowledgements

**Thanks to
CVH STS Quality Team
Perfusion Services
and Epic IT Support**

Questions

For additional information/questions contact:

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Manager of Clinical Operations, Cardiovascular Health

cparsons@stanfordhealthcare.org

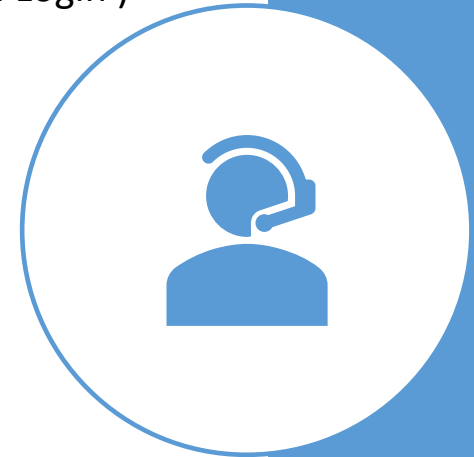
Susan Wagner, RN

Clinical Quality Analyst (STS), Cardiovascular Health

swagner@stanfordhealthcare.org

Resources

- [STS National Database Webpage](#)
- ACSDTechSupport@IQVIA.com (Uploader, DQR, Missing Variable, Dashboard, Password and Login)
- Phone Support: 1-833-256-7187
- [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



Contact Information

- Carole Krohn, Sr. Clinical Manager, STS National Database
 - CKrohn@sts.org
 - 312-202-5847
- Database Operational Questions
 - STSDB@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!