



MCSQI DATA MANGEMENT TENETS

Goal: Create best practice guidelines to improve the quality and efficiency of STS data documentation, abstraction, and reporting processes for Maryland Cardiac Surgery Programs.

STS Surgeon Champion

- Identify a Surgeon Champion who is either the MCSQI surgeon board member or a delegated surgeon from each cardiac surgery program.
- Support the STS data manager and the STS data collection and reporting process.
 - Review STS Outcome Metrics –National, Regional & Local Benchmarking
 - Meet with data managers at least monthly and serve as an educational resource for abstraction and clarification
 - Support the development of enhanced data collection tools
 - Act as a liaison to surgeons, clinical providers, informatics team, and leadership
 - Support professional development for data managers, including their attendance at STS AQO annual meetings, MCSQI data manager meetings and educational workshops.
- Endorse and communicate the MCSQI value to hospital administration and surgical colleagues. Disseminate MCSQI Annual Reports, quality improvement and research initiatives, publications, and practice protocols through the quality leadership chain.
- Be a change agent by reviewing and sharing data across multi-disciplinary teams (Perfusion, OR, Anesthesia, APP, CVSICU and CV Nursing teams, etc.) to identify opportunities for quality and process improvements.

Informatics Support: EMR Documentation & Data Extracts

- Incorporate STS fields in EMR documentation (Cardiac Surgery H&P, Brief OpNote, Operative Note, Anesthesia and Perfusion documentation, CVICU Intensivist Admission Note, Discharge Summary) to support STS data abstraction and STS audits performed by the STS and the Maryland Healthcare Commission.
- Periodically review and update Cardiac Surgery Documentation: H&P, OpNote, and Discharge Summary templates and Surgeon worksheets to ensure STS data elements are included and current with corresponding STS versions.
- Effectively use available technology and reporting tools to abstract, track, share, and audit STS data.

Data Management Quality Practices and Goals

- Develop an educational slide deck or reference guide of key STS data and definitions to share with the Cardiac Surgery Team.
- Create and maintain a Source of Truth document to identify primary and secondary sources for data abstraction, per hospital.
- Review monthly STS ACS FAQ updates with Surgeons and Clinicians to discuss changes and improve documentation to reflect these updates.



MCSQI DATA MANAGEMENT TENETS

- Attend and participate in quarterly meetings with key stakeholders (Surgeons, Residents, APPs, Data Managers, Anesthesia, Perfusion, CV OR & ICU Teams, etc.) to review data metrics, documentation issues, and quality improvement initiatives.
- Develop Standard Operating Procedures and Optimization Strategies for STS data abstraction, cleaning, data management and reporting.
 - Develop Data Management, Quality / Harvest Checklist for STS data utilizing:
 - IQVIA Quality Reports
 - IQVIA Operational Reports
 - IQVIA Library – Other Resources Sections
 - STS Vendor Reporting Tools
 - CRISP (HIE) Access
 - Michigan Data Checker
 - EMR Reports
 - Validate IQVIA Report Metrics with vendor reporting tools when possible.
 - Validate STS Public Reporting.
 - Review materials to maintain STS content education.
 - STS IQVIA updates
 - STS Training Manual
 - STS FAQ Summary Document
 - STS Registry Website: Additional Resources
 - Develop collaborative relationship with Care Team impacting STS data collection to provide education of STS definitions, documentation compliance and establish a “go to clinical colleague” when questions arise.
 - Develop collaborative relationship with peer Data Managers within your program, within MCSQI and Data Managers within the STS community.
 - Perform Data Manager internal audits for inter-rater reliability assessment when applicable.
- Explore STS Data Manager educational opportunities and training.
 - STS Monthly Educational Webinars
 - STS Data Manager Mentorship Program
 - STS AQO National Meetings
 - STS Data Manager Task Forces
 - MCSQI Data Manager Meetings and Workshops
 - MCSQI Bi-annual Meetings, QI, and R&W Committee Meetings
 - MCSQI Quality and Research Projects
- Meet annually with program leadership to evaluate Data Manager workload and review data management responsibilities to ensure adequate FTE resources are available for data abstraction, entry, cleaning, and reporting requests.