

Michigan Structural Heart Consortium (MISHC)

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ACC Quality Summit 2023



Who we are

What we do

What you can take home

How we can help



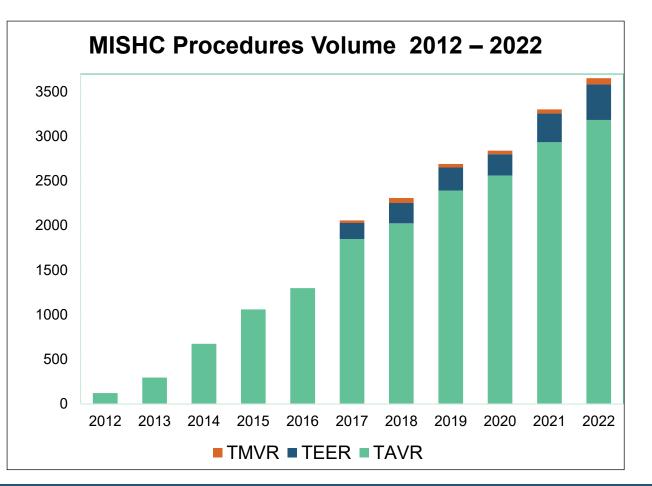
What is MISHC?



The Michigan Structural Heart Consortium is a quality improvement project designed to emphasize lifetime management and improve quality of care and outcomes in patients who undergo transcatheter valve procedures

Over 130 interventional cardiologists and cardiothoracic surgeons from 30 hospitals across Michigan that collaborate in MISHC, collecting data on >3500 procedures annually

MISHC is a collaboration between the Michigan Society of Thoracic and Cardiovascular Surgeons Quality Collaborative (MSTCVS-QC) and the BMC2 PCI Cardiovascular Consortium





MISHC Transcatheter Structural Heart Sites





Meetings and Committees

MISHC participation is voluntary, the focus is on sharing, mentoring, educating and creating a	
culture of quality and collaboration at all levels to decrease practice variability across the state	÷

- TAVR and mitral focused physician meetings with national speakers provide education and mentoring with challenging case presentations geared toward meeting topic
- Coordinator meetings focus on definition and goal understanding, procedural education and QI projects



Structural heart coordinator meetings bring mid-level providers together for educational speakers, mentoring and best practice creation



Annual Collaborative meetings where the entire structural heart team, quality, administrative and abstracting team members are invited



Publication committee and physician best practice special committees



Deliverables

TAVR, M-TEER and TMVR Reports – mirror TVT definitions for national comparison

- Discharge level, 30 day and 1 year follow up, and M&M reports with hospital and collaborative columns
- Highlight MISHC goals, CMS requirements, and outcomes which are also included as blinded site graphs

End of year TAVR

- 3-year reports for expanded data trending
- End of year 3-year risk adjusted reports for mortality, stroke, transfusion, contrast induced nephropathy, bleeding/vasc comps, and readmissions

Annual report findings spreadsheet

• Highlight QI opportunities and goal performance





Report Findings Spreadsheet

2022 Q2 - 2023 Q1 R4Q TAVR	Collaborative	Site #5	
Discharges:	3284	154	
Goals:			
Echo Post-Procedure ≥95%	99.0%	100.0%	
30 Day Follow Up ≥95%	90.2%	100.0%	
1 Year Follow Up ≥95%	89.1%	100.0%	
Bleeding/Vasc Comps ≤2%	3.2%	5.7%	
Transfusion ≤7%	5.3%	7.4%	
KCCQ:			
KCCQ @ Baseline	98.1%	100.0%	
KCCQ @ 30 D	84.9%	100.0%	
KCCQ @ 1 Y	71.6%	98.6%	
			Pt is alive, and 30 day KCCQ Summary Score is at leas
			45 and did not decrease by more than 10 points from
Survival with Sustained QOL	72.2%	80.3%	pre-procedure
Details:			
EPD Deployed	40.7%	0.0%	
Shared Decision Making	78.3%	100.0%	
Cardiac Rehab prior to DC	80.0%	100.0%	
Pacemaker	8.3%	7.4%	
Stroke - all types	1.6%	1.2%	
CIN	2.5%	2.6%	
Valve Related Readmission 30 D	0.5%	1.2%	
Non-Valve Readmission 30 D	8.8%	10.1%	



Site Visits

Annual chart review of all data fields from all time periods, base and 30 day and 1 year follow up

Exit interview with structural heart team

Discuss chart review findings, report findings, goal progress, QI projects, opportunities for improvement, report distribution for both TVT and MISHC reports, future expectations

Follow up with a site visit letter summarizing findings, QI opportunities and future plans

Challenging cases for the physician meetings and site highlight topics for the MISHC newsletter are frequently discovered in the exit interview



Successes

- Strong relationships have been built between the collaborative members and with the coordinating center
- New coordinator definition and expectations training
- Meet with new sites as they are planning to open their structural heart program
- Meet with coordinators to review QI presentations and projects prior to presenting to SH team
- Partnering sites that have accomplished similar challenges or are working on the same QI metric
- Sharing challenging cases for education, documentation templates, order sets
- Best practice protocol workgroups encompass physicians or structural heart coordinators from across the state that volunteer to share their resources and develop guidelines for the state





MISHC.org

QUALITY IMPROVEMENT	consensus at the tim should not be consic professional opinion
PERFORMANCE INDEXES	TAVR
CALCULATOR	Groin Bleed zip file
EXTERNAL RESOURCES	Radial and Ulnar Ble
	Management of Blo
	Timeout for TAVR
	TAVR Nephropathy
	<u>Vascular Access Ma</u> Valve Replacement
	TAVR Peri-Procedu
	Antithrombotic The
	MISHC TAVR Read
	Post-TAVR Conduc
	Mitral Valve Proced

MISHC best practice protocols are based on consortium-wide me of publication. Protocols will be updated regularly, idered formal guidance, and do not replace the n of the treating physician.

with Multiple Resources

leed zip file with Multiple Resources

ood Loss and Transfusions Following TAVR

anagement in Percutaneous Transcatheter Aortic

ural Care Pathway

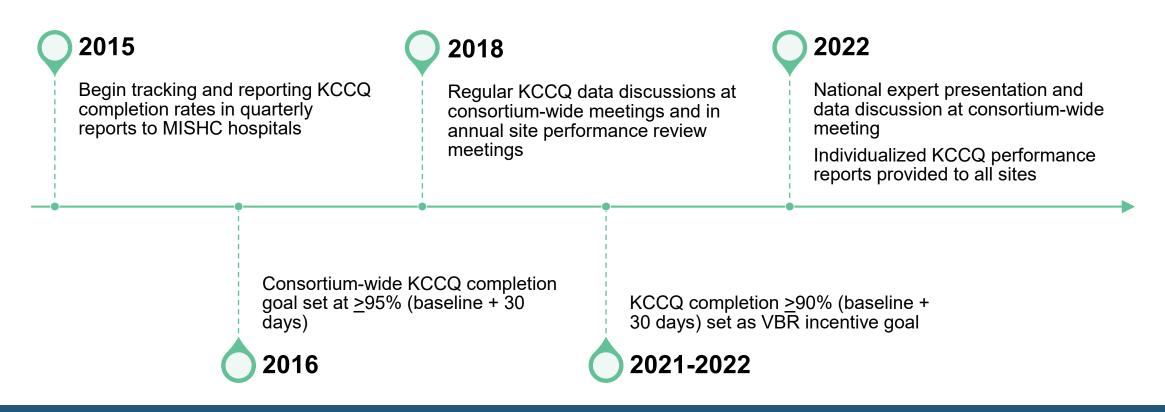
erapy Post-TAVR

dmission Prevention

iction System Abnormalities

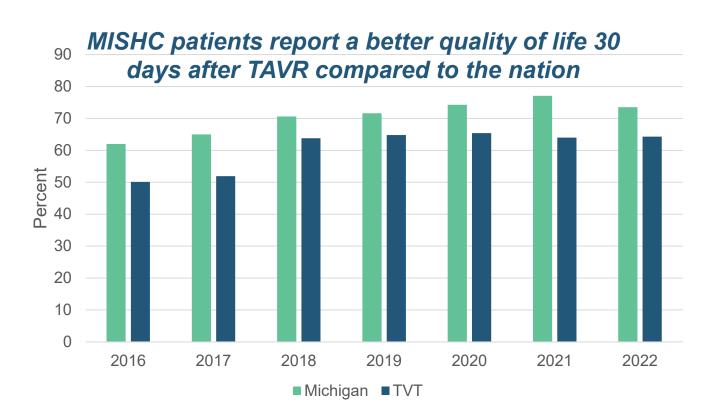
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MISHC Collaborates to Improve Collection and Documentation of the KCCQ at baseline, 30 days, and 1 year follow up



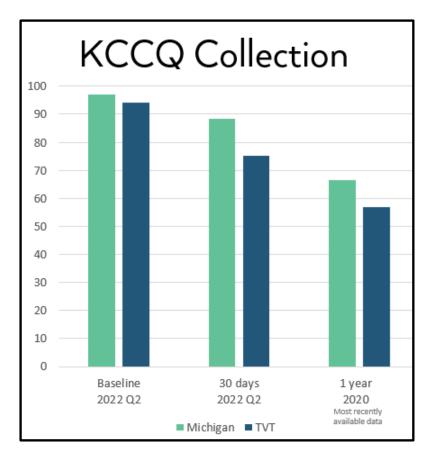


Acceptable QOL @ 30 Days



21% increase

Patient is alive @ 30 days, summary score is >=45, and did not decrease by >=10 point from baseline

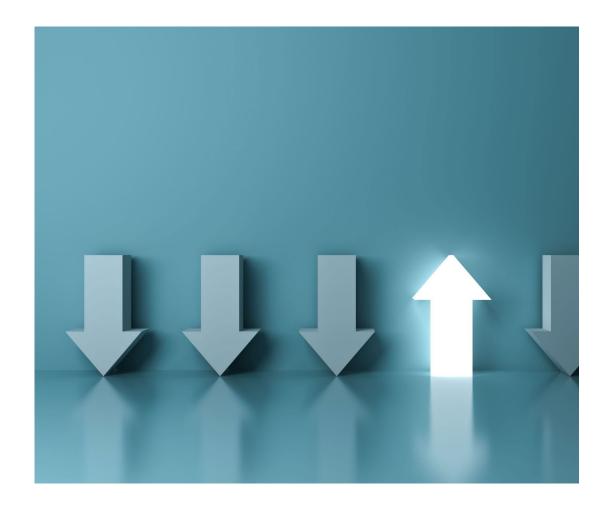


Michigan data is more complete after a multi-year MISHC initiative to improve KCCQ follow up and documentation



Challenges

- Identifying meeting topics that attract both interventional cardiologists and cardiothoracic surgeons
- MISHC Collaborative meeting is partnering with MSTCVS, the STS Michigan collaborative, presenting TAVR/SAVR and STS PCI/CAB data
- Primary focus is lifetime management and highlighting heart team importance
- Location of meetings to ensure best attendance, 2 virtual meetings per year, 1 in person
- Unblinding data
- Added mitral procedures in 2022





Future Plans



ENGAGING ECHO PHYSICIANS IN MITRAL TEER MEETINGS

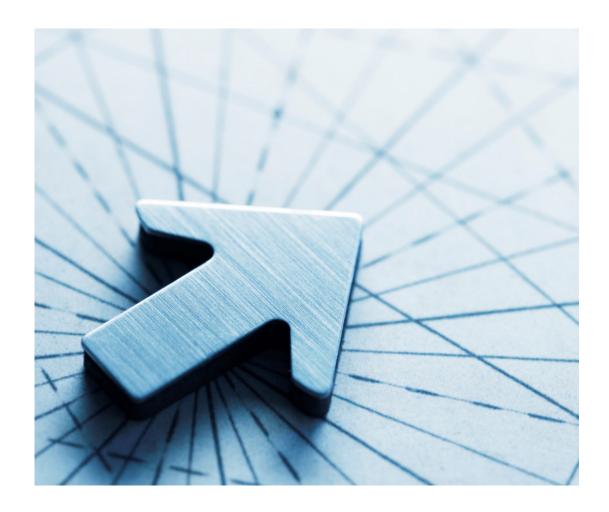
PHYSICIAN LEVEL REPORTS

AUC PEER REVIEW



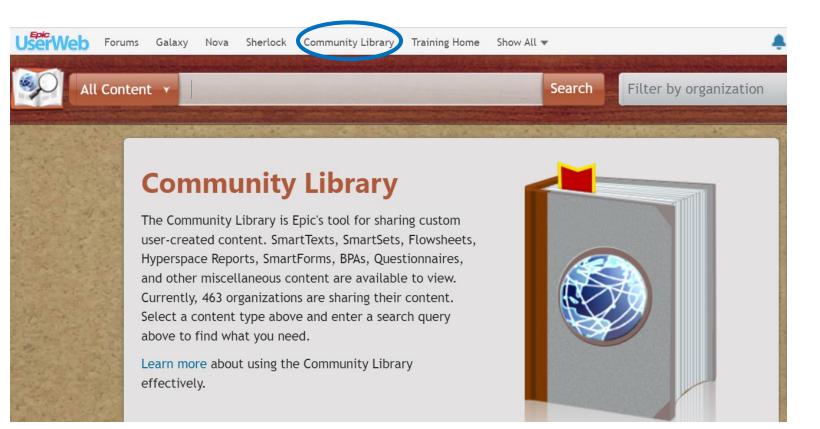
Take home

- Systems can mentor new sites and work with them to ensure requirements are in place prior to performing procedures
- Virtual meetings can be scheduled to discuss quality, processes, challenges
- Physicians can meet virtually to create BPPs, educational meetings, publication review
- Report findings spreadsheets can be used to show goal performance
- Email lists for systems or state, add your email address to the Participant Directory through the Site Profile page on the TVT website, network with others in your state
- Summaries of TVT bimonthly data managers calls and FAQs can be sent to all participating sites, structural heart coordinators
- BPPs available on mishc.org
- Documentation templates





Epic Community Library



Epic community library link: https://signin.epic.com/adfs/ls/?wa=wsignin1.0&wtrealm=https%3a%2f%2fuserweb.epic.com%2f&wct x =rm%3d1%26id%3dpassive%26ru%3d%252F&wct=2015-06-25T16%3a40%3a55Z

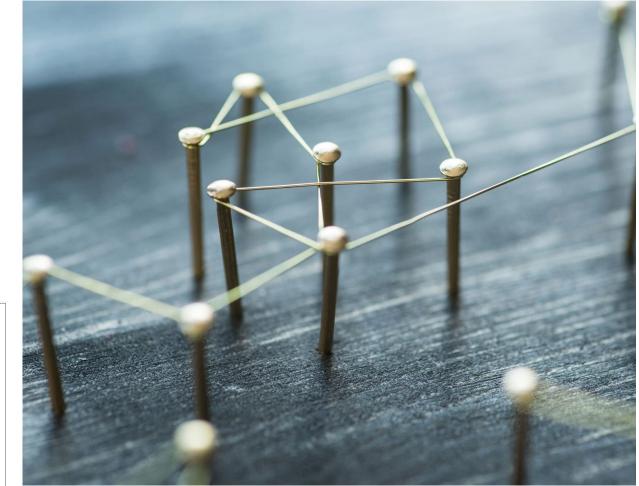


MISHC Coordinators are available to help!

- Mentoring for both data abstractors and structural heart coordinators
- Participate in virtual state or local meetings
- Review QI opportunities, projects and presentations
- Help with website functionality, pull data, review reports

Contact Sheryl Fielding, QR code, or at sfields@med.umich.edu, to be connected to a MISHC team member







Find us at **MISHC.org**

Follow us on social media





ABOUT

QUALITY IMPROVEMENT

COORDINATOR RESOURCES

PUBLICATIONS & PRESENTATIONS

MEMBER LOGIN

NEWS & EVENTS

Q SEARCH

A FOCUS ON QUALITY CARE FOR MICHIGAN CARDIOVASCULAR PATIENTS

The Michigan Structural Heart Consortium is a quality improvement network designed to improve quality of care and outcomes in patients across the State of Michigan who undergo structural heart procedures, including transcatheter aortic valve replacement, mitral valve replacement, and mitral valve repair procedures.





