Cardiac Rehab Referral-After the Click

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No Disclosures



Learning Objectives



Understand the impact referring and receiving sites have on timely access to Cardiac Rehab



Demonstrate *Data Perspective* and how it can potentially impact our decision making



Understand how the delivery of QUALITY Cardiac Rehab impacts participation and adherence



Million Hearts Focus Areas (1)



System Change



Referrals



Enrollment and Participation



Adherence



Cardiac Rehabilitation Change Package (Second Edition) | Million Hearts®

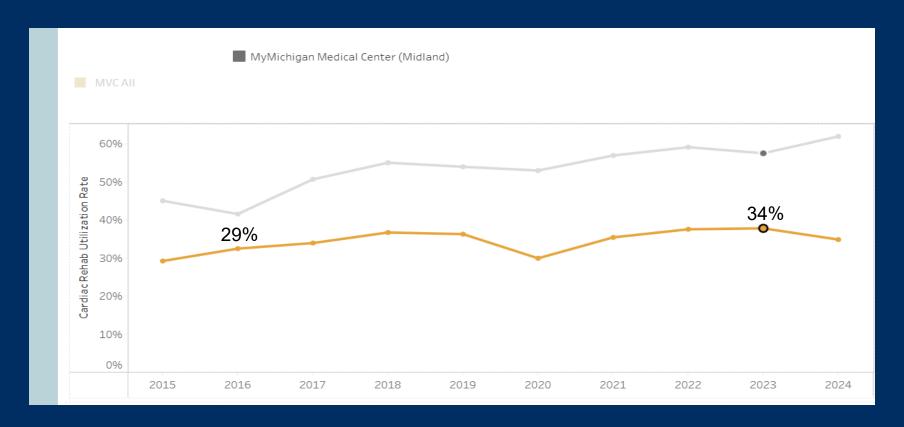


Referrals BMC2 2019 (PCI Only)

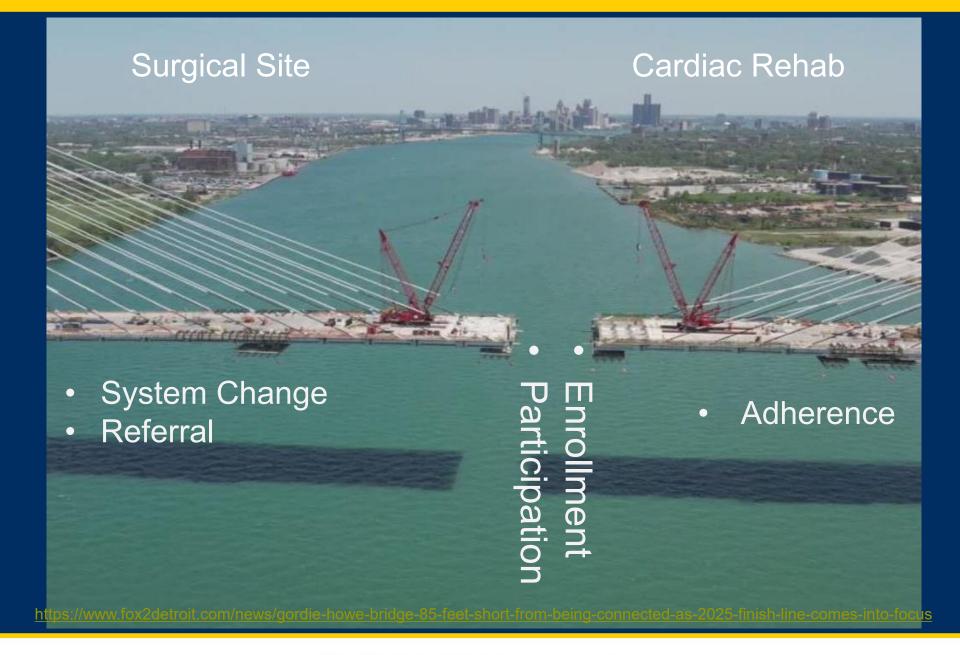
	Collaborative		Hospital			
•		Denom	Pct.	n	Denom	Pct
Cardiac Rehabilitation Referral	5,101	5,573	91.5%	184	185	99.5%
Surgical Consult	109	203	53.7%	1	1	100.0%
Same Day Discharge	595	3,552	16.8%	18	84	21.4%
Current Smoker	1,389	6,090	22.8%	64	199	32.2%
Smoking Cessation Counselling	1,259	1,351	93.2%	63	64	98.4%



Participation Trend MVC Trends (PCI only)















Closing the Gap

- Multi-Facet problem
 - Operational
 - Inconsistent referral management process/expectations
 - Unintended/unknown hidden barriers between referral and enrollment
 - Data Perspective
 - Clinical
 - Variability in Cardiac Rehab quality (2)



What's in a referral



Indicating **Phase II/Outpatient** Cardiac Rehab



Contains an indicated **Dx** for Cardiac Rehab



Signed or Co-signed by MD/DO



CMS Dx

- An acute myocardial infarction
 - within the preceding 12 months
- Coronary artery bypass surgery
- Current stable angina pectoris
- Heart valve repair or replacement
- Percutaneous transluminal coronary angioplasty (PTCA) or coronary stenting
- A heart or heart-lung transplant
- Stable, chronic heart failure



Referring Site



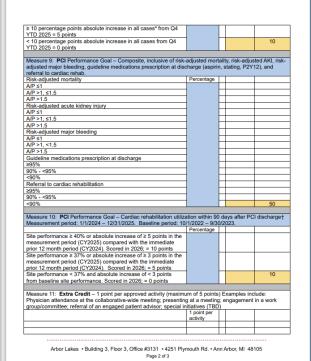
https://www.mlive.com/lions/2021/12/qb-jared-goff-back-at-detroit-lions-practice-as-team-continues-to-play-it-safe-with-illness-issues.htm



Scorecards

BMC2:Cardiac rehab referral – numerator includes discharges with documented cardiac rehabilitation referral. The denominator includes all discharges with a successfully treated lesion discharged alive to home.

BMC2 Pay (P4P)) Sco	recai	°d
PCI			
2026 BMC2 Collaborative Quality Initiative Pe	rformance	Index So	corecard
1 Of Oiles		Points	Points
A BOLL OF BUILDING		Earned	Possible
Measure 1: PCI Meeting Participation – Clinical Lead	Yes/No		
PCI Virtual Physician Meeting – 2/26/26	163/140	+	
PCI Annual In-Person Collaborative Meeting – 4/11/26		_	
PCI In-Person Physician Meeting – 9/26/26			
Total Meetings Attended:			
Attended 2-3 meetings = 10 points			10
Attended 1 meeting = 5 points			
* '			
Measure 2: PCI Data Coordinator Expectations and Participation			
	Yes/No		
Submitted 2 QI project forms			
Cases were submitted on time			
Peer review uploads were completed on time			
Submitted report distribution attestation			
	Yes/No		
PCI Recurring Virtual Coordinator Meeting – 1/22/26			
PCI Annual In-Person Coordinator Meeting – 4/10/26			
PCI Annual In-Person Collaborative Meeting – 4/11/26 PCI Recurring Virtual Coordinator Meeting – 7/23/26			
PCI Recurring Virtual Coordinator Meeting – 1/23/26 PCI Recurring Virtual Coordinator Meeting – 11/5/26			
Total Meetings Attended:		+	
Meets all expectations = 10 points			10
Meets most expectations = 10 points Meets most expectations = 5 points			10
micels most expediations – 5 points			
Measure 3: PCI Physician Peer Review of assigned cases for pro-	cedural indicat	ions & techn	ical quality
	Percentage		T .
Reviewed and submitted 100% of PCI cases = 10 points	, in the second		
Reviewed and submitted < 100 PCI cases = 0 points			10
Measure 8: PCI Performance Goal – Use of IVUS / OCT^ for ster 1/1/2026 – 6/30/2026. Baseline period: 1/1/2024 – 12/31/2024.		Measurem	ent period:
	Percentage		
≥ 60% in EITHER all cases OR ≥ 75% in cases involving the left			
main coronary artery, in-stent re-stenosis, or stent thrombosis = 10 points			





MISHC TAVR 2025 VBR Metrics

		Measures	Measurement Period	Target Performance
	1	Increase referral to cardiac rehabilitation after TAVR	1/1/2024 - 6/30/2024	≥90%
1	2	Increase rate of mean gradient documentation at TAVR 1 year follow up	1/1/2024 - 6/30/2024	≥75%
:	3	Site-specific measure	1/1/2024 - 6/30/2024	Site-specific

- . MISHC TAVR uses a site level scoring model to measure performance
- . The site average must meet the target for 2 of 3 measures for practitioners to be eligible for VBR. Eligible practitioners may receive up to 103% of the Standard Fee Schedule
- Practitioners may receive an additional 102% of the Standard Fee Schedule for performance >1 COL/BMC2 PCL or MSTCVS-OC: total = 105%)
- . The measurement period uses 2024 data and will be paid out in 2025.

COLVER selection process

For a practitioner to be eligible for CQI VBR, they must:

- Meet the performance targets set by the coordinating center
- Be a member of a PGIP physician organization for at least one year
 Have contributed data to the CQI's clinical data registry for at least two years, including at least one year of baseline data

A physician organization nomination isn't required for CQI VBR. Instead, the CQI coordinating center will determine which practitioners have met the appropriate performance targets and will notify Blue Cross. Each physician organization will notify practitioners who will receive CQI VBR, as it does for other specialist VBR

Arbor Lakes - Building 3. Floor 3. Office #3131 - 4251 Plymouth Rd. - Ann Arbor, MI 48105



Action Required "Referrals"

Phase I – Inpatient – Consult Orders

Order Requisition

Patient Care

Order: Cardiac Rehab Phase I Eval and Treat (Inpatient)

No Signature / NPP Order

Referral Details

Medical Service: Cardiac Rehab (External)

Referral Reason: post TAVR Codified Reason: Z95.2 s/p tavr

Refer from Provider:

Refer from Location;

Referral Written Date: 08/11/2025 Requested Start Date: 08/11/2025

Priority: Routine

Instructions to Staff: please send to MyMichigan Alpena cardiac rehab.

Authorizing Provider:

PA-C



Ambulatory referral to Cardiac Rehab

Diagnosis: Chest pain, unspecified type (R07.9); Unstable angina pectoris (CMS/HCC) (I20.0)

Referred to:

Priority: Routine

Referral Type: Rehabilitation - Outpatient

Referral Reason: Specialty Services Required



Other "Referral" Methods

- Discharge Summary/Notes
- Inpatient Face Sheet

Comments:

This patient has been referred for Cardiac Rehabilitation and has expressed interest in enrolling in your CR Program.

Attached is patient's contact information. Please contact the patient regarding enrollment.

Please note: All requests for written MD referral and/or medical records need to be obtained from the patient's physicians and we have provided their contact information as well.

Thank you

- Patient provided site information
 - Walk-ins
 - Patient calls



Outbound Referral Delivery

Internal

- Fully Electronic?
- Contain all required components?
- Dedicated staff managing referrals?

External

- Who is sending out external referrals?
 - Inpatient
 - Cardiac Rehab
- Contain all required components?
 - Different from internal?
- CR site selection process?
- Delivery method
 - Electronic
 - Fax (Batched)
 - Mail
 - Having the patient call local CR



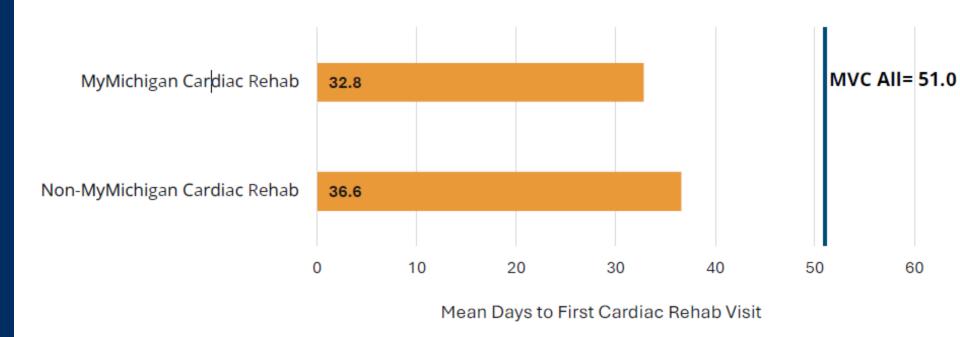
Where are your patients receiving CR

Table 2. Distribution of CR Locations Utilized by Patients Discharged from MyMichigan Medical Center Midland for any MiCR Main 5 Condition (July 1, 2021 – June 30, 2024)

NPI Number	CR Location Name	Percentage
1902841414	MyMichigan Medical Center - Midland	30.1%
1568414589	MyMichigan Medical Center - Clare	11.9%
1023097771	MyMichigan Medical Center - Alma	11.6%
1619914652	MyMichigan Medical Center - Alpena	8.4%
1376973149	MyMichigan Medical Center - Midland	7.3%
1235248071	MyMichigan Medical Center - Gladwin	6.9%
1538566765	MyMichigan Medical Center - West Branch	5.5%
		2.8%
		1.7%
		1.5%



Figure 1. Mean Days to First CR Visit for Patients Discharged from MyMichigan Medical Center Midland for any MiCR Main 5 Condition, by CR Location (July 1, 2021 – June 30, 2024)





CR Referring Action Items

- Follow the referrals (internal and external) from the point of creation until the patient is scheduled
- Identify the number of departments and/or individuals (with job titles) that facilitate this process
- Identify the all steps needed and timeline within each stage of the referral process
- Determine if "in-system" referrals are truly all internally processed
- Determine the top 5 CR locations where your patients are receiving CR and % of Internal and External and is there any variance in mean days to 1st CR session between internal and external



Ask this question?

If the patient walked into the patient selected CR site, would that site be able to start CR today with the referral/documentation we have provided?



Differences in Cardiac Rehabilitation Enrollment by Referral Setting (3)

"Over half (54%) of all patients with in-network referrals ultimately enrolled into CR. Notably, only 40% of patients with inpatient referrals decided to enroll, compared to 70% of patients with outpatient referrals and 60% of those with dual referrals."



Receiving Site



https://a57.foxnews.com/static.foxnews.com/foxnews.com/content/uploads/2023/10/1200/675/Jahmyr-Gibbs-1.jpg?ve=1&tl=1 https://img.apmcdn.org/22688c5761ad14a5ae111493bbbe158c4ef9cddb/widescreen/47db26-20220923-aptopix-commanders-lions-football-webp2000.webp



Inbound Referral

- How are inbound referrals managed?
 - Central Scheduling
 - In-Department
 - Admin Assistance
 - Clinical Staff



Self-imposed barriers

Please provide the following medical records. The patient cannot be admitted to Cardiac Rehabilitation until records are received.				
Discharge summaryETTPatient is scheduled for an ETT on OR please arrange ETT at MGH (imaging/non-imaging) please indicateCurrent lipid profilePertinent diagnostic tests (cardiac cath, ECHO etc)Recent office note				

- Generic (non-clinical) restriction(non-clinical) on timelines for starting Cardiac Rehab
 - 4 wks post procedure
 - After follow up
- Requiring Ordering Physician to sign initial treatment plan
- Requiring patient to be discharged from Home Care



Table 3. Distribution of Index Event Hospital System of Patients Attending MyMichigan Cardiac Rehab Within 90 Days Post-Discharge from Cardiac Care Encounter for any MiCR Main 5 Condition, by Index Condition (July 1, 2021 – June 30, 2024)

Conditions	Proportion of	Distribution of Index Event Location, by Condition		
MyMichigan CR Patients		External	Internal	
AMI	33.4%	33.0%	67.0%	
CABG	19.5%	60.6%	39.4%	
PCI	28.6%	34.6%	65.4%	
TAVR	11.0%	39.9%	60.1%	
SAVR	7.6%	54.4%	45.6%	
Main 5	100%	41.2%	58.8%	



Where are the referrals coming from?

Table 4. Distribution of External Index Hospitals Among Patients Attending MyMichigan Cardiac Rehab Within 90 Days Post-Discharge from Cardiac Care Encounter for any MiCR Main 5 Condition (July 1, 2021 – June 30, 2024)

Hospital Name	Percentage
	27.7%
	20.1%
	16.5%
	10.1%
	9.2%
	3.4%
	2.0%
	1.9%
	1.5%
Other Hospitals	7.7%



Figure 8. Mean Days to First CR Visit of Patients Attending MyMichigan Cardiac Rehab Within 90 Days Post-Discharge from Cardiac Care Encounter for any MiCR Main 5 Condition, by MyMichigan Cardiac Rehab Location and Patient Origin (July 1, 2021 – June 30, 2024)

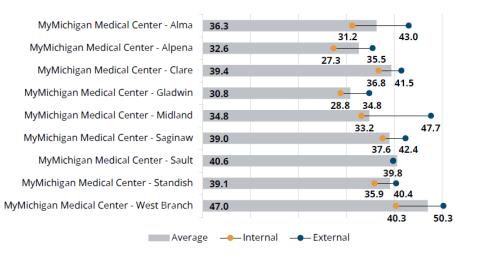
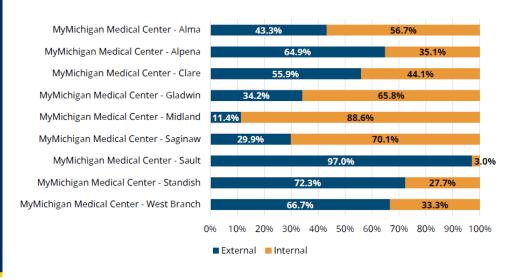


Figure 5. Distribution of Index Event Hospital System of Patients Attending MyMichigan Cardiac Rehab Within 90 Days Post-Discharge from Cardiac Care Encounter for any MiCR Main 5 Condition, by Cardiac Rehab Location





CR Receiving Action Items

- Follow the referrals (internal and external) from the point of receipt until the patient is scheduled
- Identify the methods of receiving referrals
- What % of referrals require additional action
- Identify the number of departments and/or individuals (with job titles) that facilitate this process
- Identify the all steps needed and timeline within each stage of the referral process
- Determine % of Internal and External referrals and is there any variance in mean days to 1st CR session
- Identify your top 5 referring sites



Why Data Perspective Matters

Midland CardioVascular Service

Midland Cardiac Rehab

 Only 30% of patients go to Midland CR 89% of patients in Midland CR are referred from Midland



Why Perspective Matters

Referring (Midland Surgical)

- ~3% of referrals go to Hospital A
 - 45-60 patients annually

Receiving (Hospital A)

- Have no clue what % of their patients come from Midland
- All we know is that there is a <4day difference in days to starting CR for patients then MyMichigan CR.
- This indicates that they are able to process our surgical patients with similar consistency as we do internally!



Take Aways

- Understand all the positions in the Cardiac Rehab Access Playbook
- Review your referral process from start to <u>FINISH</u>
 assessing for barriers and process improvements
- Use your available resources/data
 - All of the data used in the presentation was created by the MVC Analytics Team per request



Variability in Quality Cardiac Rehab (2)

Adherence to Guidelines

· Inconstant guidelines and benchmarking

Data collection

- · Inefficient process of collection
- · Lack of data outside of clinical trials

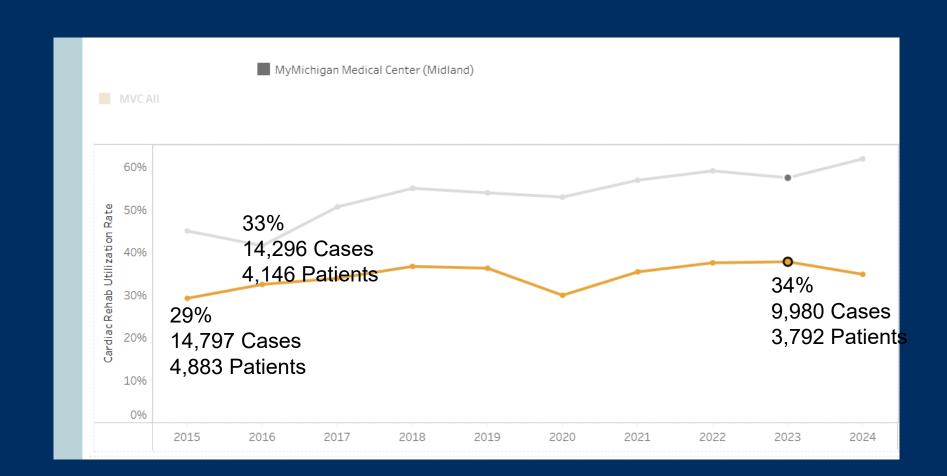
Workforce Challenges

- Turnover
- Staffing levels
- Compensation
- Clinical expertise

Leveraging Technology

Access







Call To Action

"Cardiac rehabilitation can transform patients' lives, especially if it is of high quality and delivered universally. Currently, many CR programs lack systematic data collection processes, and most have varying adherence to established standards, which limits their effectiveness. Ensuring that all patients can access evidence-based, comprehensive CR services is essential. Addressing the inconsistencies in CR delivery is a necessary step to fully leverage its benefits in reducing the global burden of heart disease. The focus should now be on prioritizing quality improvement in CR. The question is not whether we can afford to improve the quality of CR, but whether we can afford not to." (2)



References

- (1) Centers for Disease Control and Prevention. Cardiac Rehabilitation Change Package, Second Edition. Atlanta, GA: Centers for Disease Control and Prevention, US Department of Health and Human Services; 2023.
- (2) Candelaria, Dion PhD, RN; Keteyian, Steven J. PhD; Gallagher, Robyn PhD, RN; Pack, Quinn R. MD, MSc. Cardiac Rehabilitation Quality Matters: Promoting Standards, Optimizing Outcomes. Journal of Cardiopulmonary Rehabilitation and Prevention 45(5):p 308-310, September 2025. | DOI: 10.1097/HCR.000000000000984
- (3)Chen, Kevin MD; DeAngelis, Julianne MS, CCRP, FAACVPR; Antinozzi, Dana MPH; Berkowitz, Julia MD; Kerwin, Joanne PhD; Wu, Wen-Chih MD, MPH. Differences in Cardiac Rehabilitation Enrollment by Referral Setting. Journal of Cardiopulmonary Rehabilitation and Prevention 45(4):p 265-270, July 2025. | DOI: 10.1097/HCR.00000000000000947

