MVC Data in Action

Exploring Organizational and System-Level Insights through MVC Custom Analytics

Presented by:
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Beth Wendt, DO, Vice President of Clinical Operations and Medical Director of Quality and Accreditation at McLaren Macomb

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Agenda

- Background on MVC Custom Analytics

- Member Custom Analytic Request: McLaren Macomb

    - Report Results

    - Presentation by Dr. Beth Wendt, VP of Clinical Operations / Medical Director of Quality & Accreditation, McLaren Macomb

- Other Opportunities for Custom Analytics

- MVC Unblinded Data: Timing to Home Health

- Q&A

Background on MVC Custom Analytics

What Are Custom Analytic Reports?

- Customizable reports using MVC claims data to help inform members' specific questions and interests

- Outputs used to drill down within a member's patient population

- Available to MVC members and healthcare systems upon request

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Why Pursue an MVC Custom Analytic Report?

Member Benefits	MVC Benefits
Receive data **focused** on your unique **interests**	Learn member's **interests** and **values**
Helps **reveal key insights** from the data and **inform decision making**	Creates opportunity to **explore claims** data in **novel ways**
Earns **MVC engagement points for P4P** after returning feedback to MVC	Feedback **informs enhancements of** MVC engagement and analytic offerings

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Custom Report Process

Typically takes **3-4 weeks** from submitting online request to receiving the final report

A GUIDE TO

Custom Analytics

SETTING EXPECTATIONS FOR THE MVC CUSTOM REQUEST PROCESS

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STEP 1

Share your ideas for a custom request with MVC staff via email or during a meeting.

STEP 2

Attend an initial meeting with an MVC Analyst to narrow scope and answer any questions.

STEP 3

MVC Analyst prepares the data, following up with clarifying questions as needed.

STEP 4

MVC provides your completed custom report and answers any questions about the findings.

STEP 5

MVC follows up after receipt of the report to collect your feedback about its usefulness and impact.

How to get the most VALUE from MVC custom analytic reports

The key is thoughtful preparation!

Identify key questions and interests within your organization or health system

Review available data and identify gaps / opportunities	Consult stakeholders and experts

↓

Determine which questions can be explored using claims data

Consult with the MVC analytic team to set expectations and determine what is possible using claims

↓

Leverage MVC to help fulfill data needs

Communicate intended use case with MVC	Provide MVC feedback after receiving completed report

McLaren Macomb Request for MVC Custom Analytics

McLaren Macomb's Questions & Goals

Part 1:

McLaren Macomb's Question:
What does specialist participation in the CHF and COPD populations look like?

McLaren Macomb's Goal:
Identify gaps based on specialist participation and identify opportunities for streamlining protocols for these populations

Part 2:

McLaren Macomb's Question:
How many days after index discharge from hospital do CHF and COPD patients receive their first Home Health service?

McLaren Macomb's Goal:
Learn what is happening within the Home Health process and identify opportunities for intervention and improvement

Components of McLaren Macomb's Final Custom Report

CHF Total Episode Payments
Stratified by patient readmission status

CHF Post-Discharge Care Utilization
Stratified by type of post-discharge care

Exploratory Analysis of Specialist Participation
Stratified by provider specialty

Other components included in the original report that this presentation will not cover:
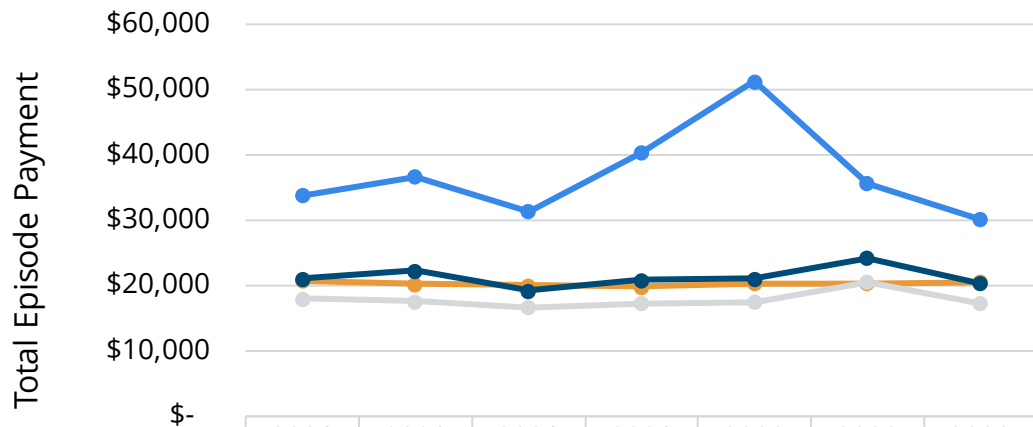- Same metrics as above within COPD patients
- Days to Home Health or SNF due to low case counts within the CHF population

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Total Episode Payments (CHF)

Stratified by patient readmission status

Trends in Risk-Adjusted, Price-Standardized CHF Total Episode Payments, Overall and by Readmission Status (McLaren Macomb, 2021 - Q3 2022)

	2021 Q1	2021 Q2	2021 Q3	2021 Q4	2022 Q1	2022 Q2	2022 Q3
MVC All	$20,733	$20,250	$20,053	$19,848	$20,380	$20,323	$20,548
McLaren Macomb Overall	$21,101	$22,302	$19,185	$20,822	$21,022	$24,187	$20,312
Readmitted*	$33,799	$36,690	$31,366	$40,328	$51,184	$35,590	$30,075
Not Readmitted*	$18,023	$17,593	$16,657	$17,276	$17,473	$20,572	$17,308

*Among McLaren Macomb CHF episodes

Post-Discharge Care Rates (CHF)

Stratified by type of post-discharge care component

*Examples of OP Other: *E&M, Imaging, Tests, DME, Procedures, Unclassified (ambulance, chemo, other drugs, misc.)*

Post-Discharge Care Utilization Rates Among Patients with CHF (McLaren Macomb, 2021 - Q3 2022)

Y-axis: Post-Acute Care Utilization Rate (0% - 70%)

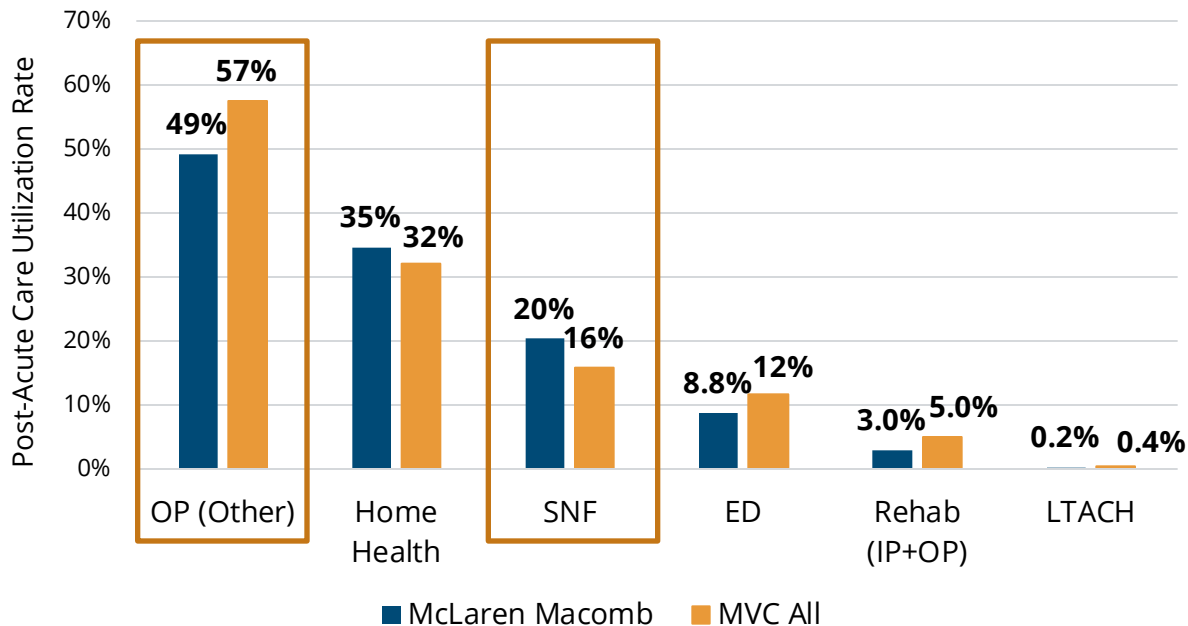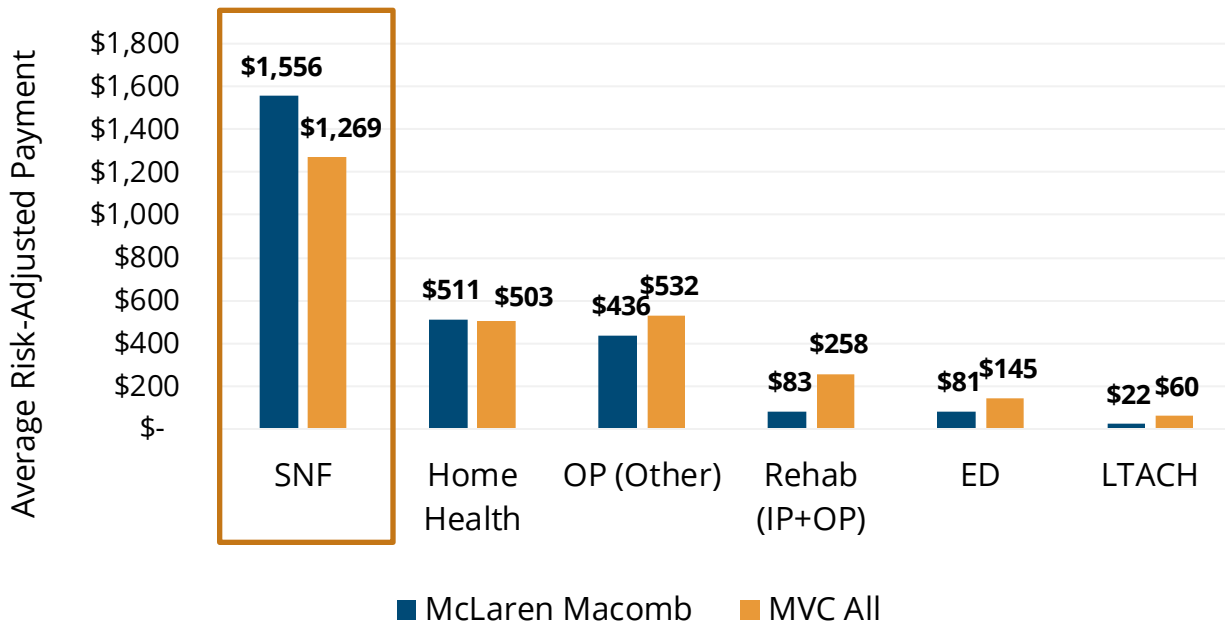| Category	McLaren Macomb	MVC All
OP (Other)	49%	57%
Home Health	35%	32%
SNF	20%	16%
ED	8.8%	12%
Rehab (IP+OP)	3.0%	5.0%
LTACH	0.2%	0.4%

Legend: ■ McLaren Macomb ■ MVC All

Post-Discharge Care Cost (CHF)

Stratified by type of post-discharge care component

*Examples of OP Other: *E&M, Imaging, Tests, DME, Procedures, Unclassified (ambulance, chemo, other drugs, misc.)*

Average Risk-Adjusted Post-Discharge Care Payments Among Patients with CHF (McLaren Macomb, 2021 - Q3 2022)

Average Risk-Adjusted Payment

Category	McLaren Macomb	MVC All
SNF	$1,556	$1,269
Home Health	$511	$503
OP (Other)	$436	$532
Rehab (IP+OP)	$83	$258
ED	$81	$145
LTACH	$22	$60

■ McLaren Macomb ■ MVC All

Components of McLaren Macomb's Final Custom Report

CHF Total Episode Payments

Stratified by patient readmission status

CHF Post-Discharge Care Utilization

Stratified by type of post-discharge care

Exploratory Analysis of Specialist Participation

Stratified by provider specialty

Discharge Dispositions

Stratified by cardiac specialist consultation status

Proportion of 7-Day Follow-Up

Performed by a cardiac specialist

30-Day Readmission Status
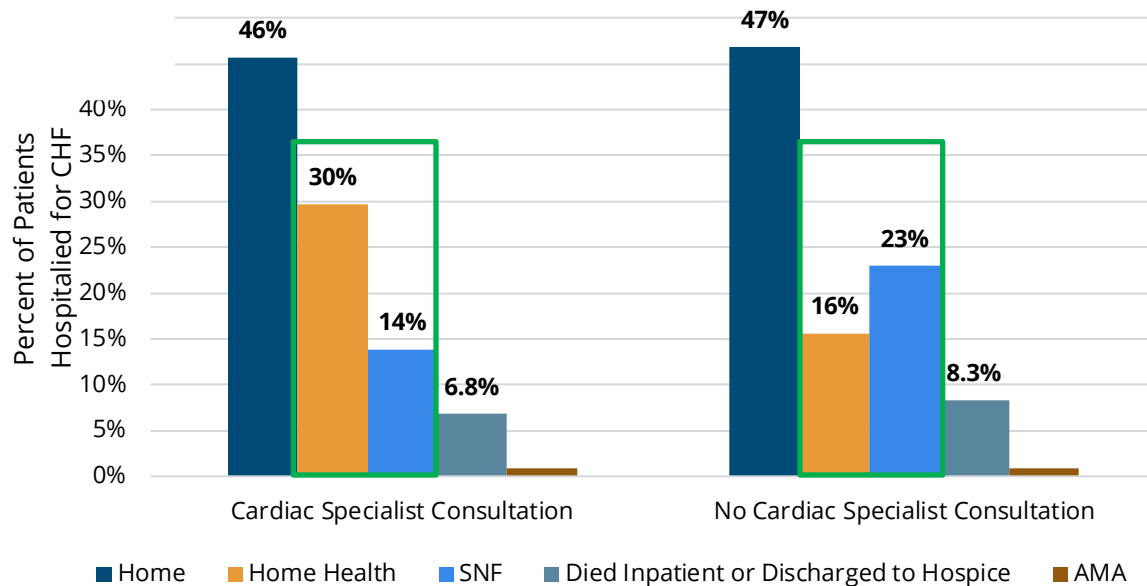
Stratified by cardiac specialist consultation status
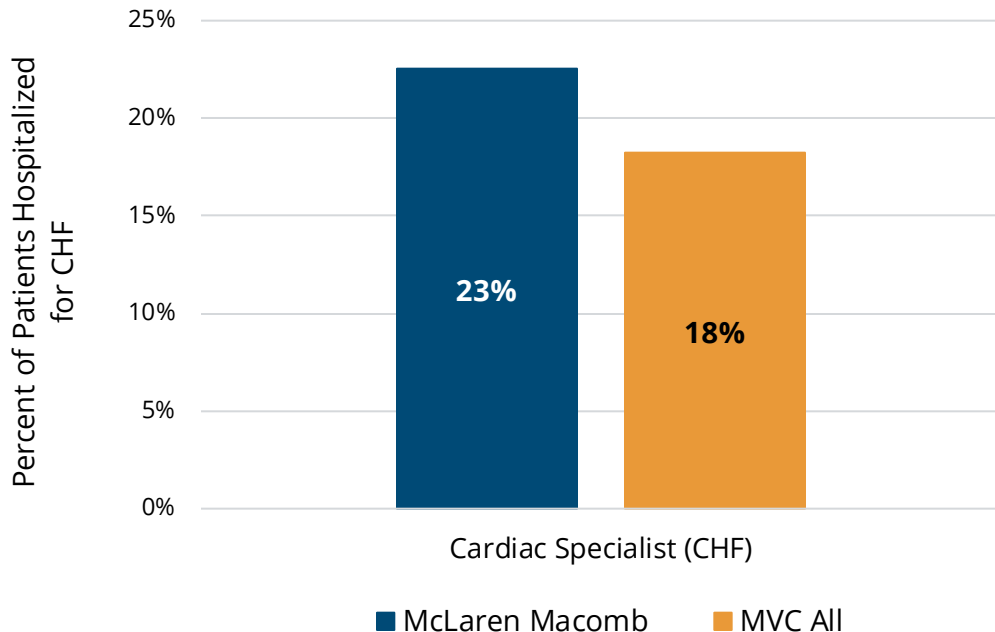
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Proportion of 7-Day Follow-Up (CHF)

Performed by a cardiac specialist*

*Specializations included: *Cardiovascular Disease, Clinical Cardiac Electrophysiology, Interventional Cardiology, Pediatric Cardiology, Advanced Heart Failure and Transplant Cardiology, and Nuclear Cardiology*

Percent of CHF Episodes that Received Follow-Up from a Cardiac Specialist within 7 Days Post-Discharge (CHF, 2021 - Q3 2022)
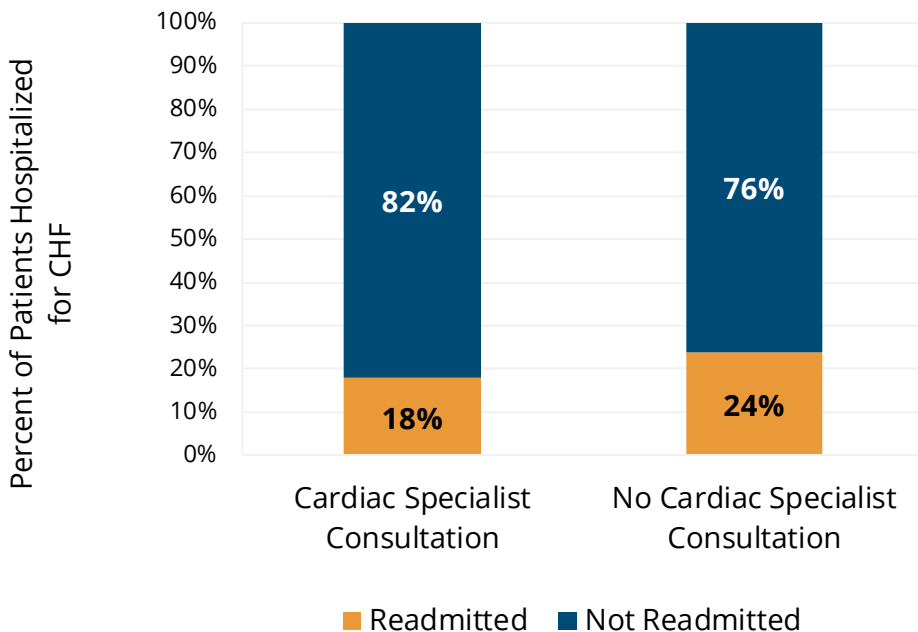

Chart: Y-axis labeled "Percent of Patients Hospitalized for CHF" ranging from 0% to 25%. X-axis labeled "Cardiac Specialist (CHF)".
- McLaren Macomb: 23%
- MVC All: 18%

Legend: ■ McLaren Macomb ■ MVC All

30-Day Readmission Status

Stratified by cardiac specialist* consultation status

*Specializations included: *Cardiovascular Disease, Clinical Cardiac Electrophysiology, Interventional Cardiology, Pediatric Cardiology, Advanced Heart Failure and Transplant Cardiology, and Nuclear Cardiology*

Specialist Consultations During Index Stay at McLaren Macomb and 30-Day Readmission Status, (CHF, 2021 - Q3 2022)

Percent of Patients Hospitalized for CHF

	Cardiac Specialist Consultation	No Cardiac Specialist Consultation
Not Readmitted	82%	76%
Readmitted	18%	24%

■ Readmitted   ■ Not Readmitted

DRILLING DOWN:

Why were readmission rates lower among McLaren Macomb patients who had an inpatient consultation with a cardiac specialist compared to those who did not?

Exploring Potential Drivers

Possible reasons why readmission rates were lower in this group that MVC can explore through claims data

MVC could not assess all due to low case counts

Quicker Home Health?

Greater Follow-Up Rates?

Specialty Follow-Up?
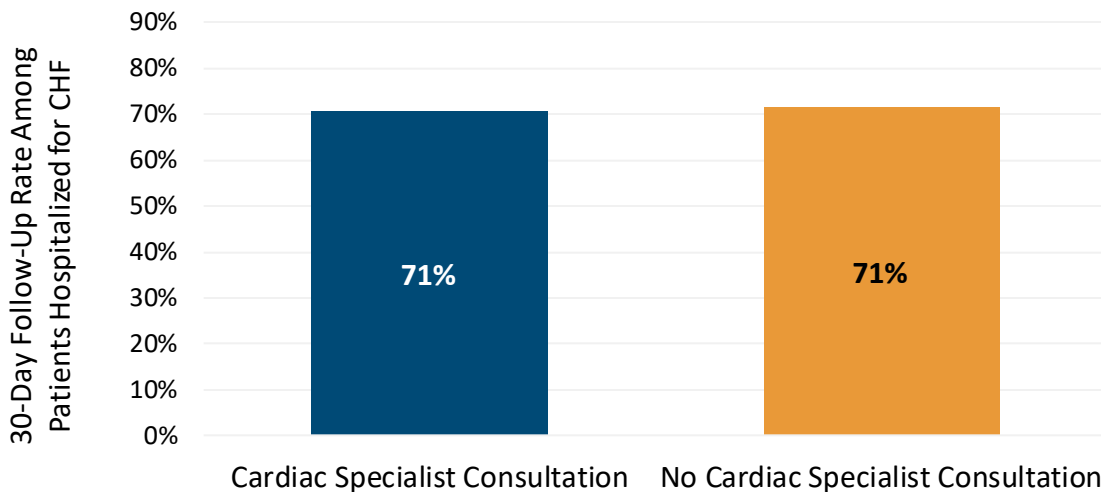
Quicker Follow-Up?

30-Day Follow-Up Rates

Stratified by cardiac specialist* consultation status

*Specializations included: *Cardiovascular Disease, Clinical Cardiac Electrophysiology, Interventional Cardiology, Pediatric Cardiology, Advanced Heart Failure and Transplant Cardiology, and Nuclear Cardiology*

The proportion of CHF patients eligible for follow-up who had an inpatient consultation with a cardiac specialist

79%
Cardiac Specialist Consultation

21%
No Cardiac Specialist Consultation

Which of these groups had greater follow-up rates?

30-Day Follow-Up Rate Among Patients Hospitalized for CHF

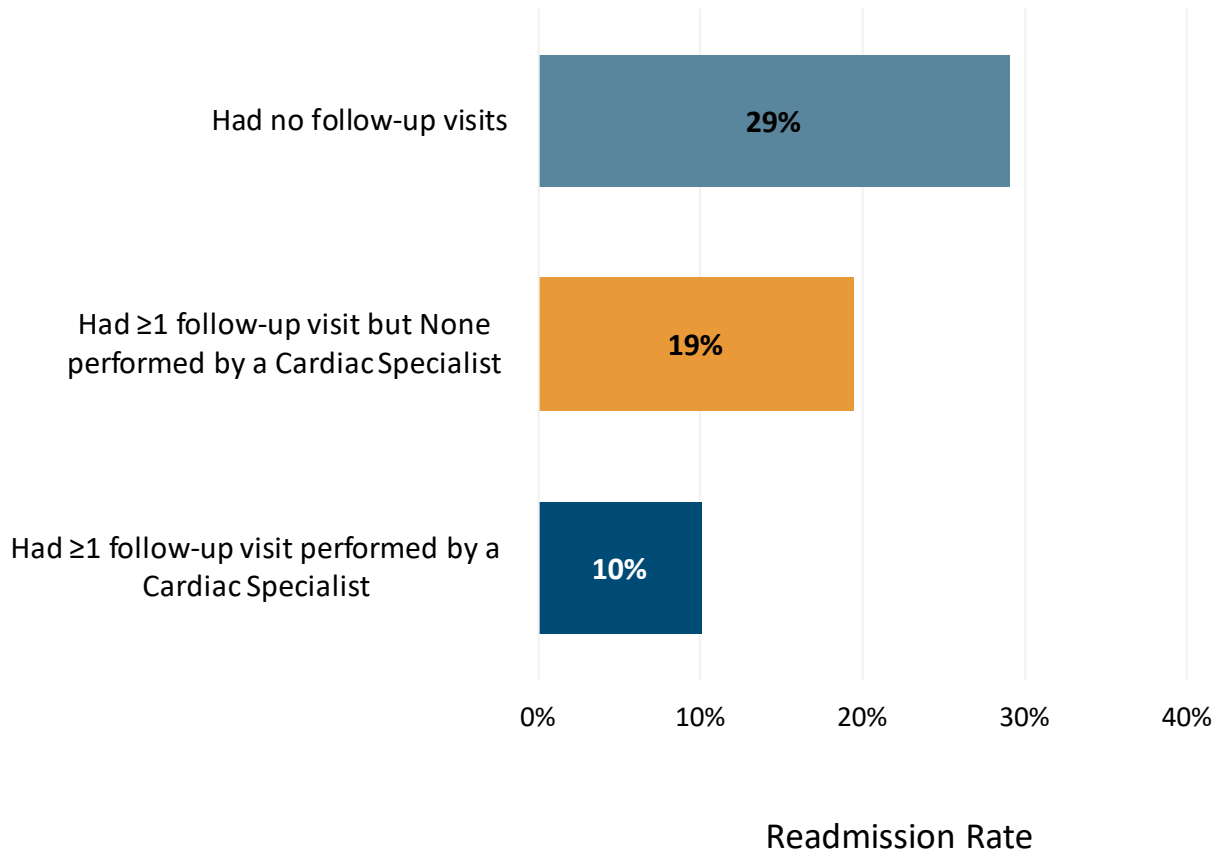|	
Cardiac Specialist Consultation	71%
No Cardiac Specialist Consultation	71%

30-Day Readmission Rates

Stratified by specialty of performing provider

Specializations included: Cardiovascular Disease, Clinical Cardiac Electrophysiology, Interventional Cardiology, Pediatric Cardiology, Advanced Heart Failure and Transplant Cardiology, and Nuclear Cardiology

Category	Readmission Rate
Had no follow-up visits	29%
Had ≥1 follow-up visit but None performed by a Cardiac Specialist	19%
Had ≥1 follow-up visit performed by a Cardiac Specialist	10%

Readmission Rate

DRILLING DOWN

Why were readmission rates lower among McLaren Macomb patients who had an inpatient consultation with a cardiac specialist compared to those who did not?

CONCLUSION

We're not sure!
Low case counts made it tricky to assess

?

What do you think are the drivers of the lower readmission rates when seen by a cardiac specialist inpatient or during follow-up?

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Data in Action: McLaren Macomb's QI Efforts

Presented by Beth Wendt, DO, VP of Clinical Operations / Medical Director of Quality and Accreditation, McLaren Macomb

Initial Questions and Goals

Part 1:

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McLaren Macomb's Goal:
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McLaren Macomb's QI Efforts

Identify opportunities to lower SNF utilization in the CHF population

- Ongoing weekly multi-disciplinary meetings to address barriers to discharge for encounters with LOS > 7days
- Daily multidisciplinary Rounds to improve communication and facilitate care across the disciplines
- Inpatient Palliative Care Service Line to identify chronic conditions for appropriate disposition

Identify what triggers cardiac specialist when admitted to IM hospitalist

Work with providers to standardize care of CHF patient population

Identify barriers to timely Home Health and develop action plan to overcome barriers

Multi-disciplinary Readmissions Committee driving improvement efforts

Second MVC report request to look closer at ICU usage among COPD episodes

Identifying true opportunities within the data versus population differences

Other Opportunities for
MVC Custom Analytics

Other Conditions to Explore via MVC Custom Analytics

- Commonly requested MVC conditions
  - CHF
  - COPD
  - Joint Replacements
  - Sepsis
  - CABG
- Other MVC Conditions to explore
  - Pneumonia
  - Birthing Outcomes
  - Sepsis
  - PCI
  - And many more...

Other Potential Insights About Continuum of Care Using MVC Data

- How many different hospitals do patients get admitted to? How many different ERs do they visit?

- What type of provider do patients see following an ED visit and what were the outcomes?

- What happened to a group of patients before an index event or ED visit?

- What are the top reasons for readmissions and the timing of readmissions?

Thank you!

What questions do you have?

For questions or to begin the MVC custom analytics process,
email Michigan-Value-Collaborative@med.umich.edu

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