



Cardiac Rehab Hospital-Level Report

Hospital A

Reporting Period: 7/1/17 - 6/30/20



Cardiac Rehab Hospital-Level Report

What is this report?

The Michigan Value Collaborative (MVC) has partnered with the Blue Cross Blue Shield of Michigan Cardiovascular Consortium (BMC2) and the Michigan Society of Thoracic and Cardiovascular Surgeons (MSTCVS) to equitably increase participation in cardiac rehabilitation for all eligible individuals in Michigan. This report provides measures of your patient population's participation in cardiac rehabilitation (CR) based on administrative claims data from MVC. Cardiac rehabilitation is a highly valuable secondary prevention program for patients who have had a heart attack, chronic stable angina, chronic heart failure, or have undergone a percutaneous coronary intervention, heart valve repair or replacement, or coronary artery bypass procedure. Cardiac rehabilitation has been shown to reduce the risk of all-cause and cardiovascular-specific mortality, reduce the risk of hospital readmissions, and improve functional status and quality of life¹⁻⁵. Despite these benefits, this report shows that Michigan currently falls short of the 70% participation goal set by the American College of Cardiology (ACC), American Heart Association (AHA), and Million Hearts⁶. For more information about the benefits of cardiac rehab and resources for improving enrollment, please see the Million Hearts Cardiac Rehabilitation Change Package⁷.

What is the patient population, and how are cardiac rehab rates calculated?

Patients in MVC's PCI, CABG, TAVR, SAVR, CHF, and AMI episodes from 7/1/2017 to 6/30/2020 are eligible to be in this report. All patients were insured by plans from Medicare FFS, BCBSM PPO Commercial, BCBSM Medicare Advantage, Blue Care Network (BCN) HMO, BCN Medicare Advantage, or Michigan Medicaid. The eligibility threshold was set at 20 cases over the reporting period, and hospitals that did not meet this threshold for a certain procedure will not receive a page of cardiac rehab metrics on that condition. The collaborative to which your hospital is being compared is composed of all other hospitals that met the 20 case count threshold for that particular condition. It is possible to receive a report page that reflects 0% CR utilization. CR variables were derived from administrative claims based on Current Procedural Terminology codes (93797 and 93798), Healthcare Common Procedure Coding System codes (G0422 and G0423), and revenue center code 943. Inpatient deaths and discharges to hospice are excluded from the denominator. The AMI page reflects only medically-managed AMIs; AMIs with PCI are included on the PCI page.

How do I use this report?

- Discuss with your local cardiac rehab team(s)
- Identify champions for this cause at your institution
- Compare to your own institutional data

References

1. Heran BS, Chen JM, Ebrahim S, Moxham T, Oldridge N, Rees K, Thompson DR, Taylor RS. Exercise-based cardiac rehabilitation for coronary heart disease. *Cochrane Database Syst Rev*. 2011 Jul 6;(7):CD001800. PMID: PMC4229995
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3. Taylor RS, Long L, Mordi IR, Madsen MT, Davies EJ, Dalal H, Rees K, Singh SJ, Gluud C, Zwisler A-D. Exercise-Based Rehabilitation for Heart Failure: Cochrane Systematic Review, Meta-Analysis, and Trial Sequential Analysis. *JACC Heart Fail*. 2019 Aug;7(8):691-705. PMID: 31302050
4. Anderson L, Thompson DR, Oldridge N, Zwisler A, Rees K, Martin N, Taylor RS. Exercise-based cardiac rehabilitation for coronary heart disease. *Cochrane Database Syst Rev* [Internet]. John Wiley & Sons, Ltd; 2016 [cited 2021 Jan 25];(1). Available from: <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD001800.pub3/abstract>
5. Rejeski WJ, Foy CG, Brawley LR, Brubaker PH, Focht BC, Norris JL 3rd, Smith ML. Older adults in cardiac rehabilitation: a new strategy for enhancing physical function. *Med Sci Sports Exerc*. 2002 Nov;34(11):1705-1713. PMID: 12439072
6. Thomas RJ, Balady G, Banka G, Beckie TM, Chiu J, Gokak S, Ho PM, Keteyian SJ, King M, Lui K, Pack Q, Sanderson BK, Wang TY. 2018 ACC/AHA clinical performance and quality measures for cardiac rehabilitation: report of the American College of Cardiology/American Heart Association Task Force on Performance Measures. *Circ Cardiovasc Qual Outcomes*. 2018;11:e000037. doi: 10.1161/HCQ.0000000000000037
7. Centers for Disease Control and Prevention. *Cardiac Rehabilitation Change Package*. Atlanta, GA: Centers for Disease Control and Prevention, US Dept of Health and Human Services; 2018.



Cardiac Rehab After AMI - Hospital A

Figure 1: Collaborative-Wide CR Use Within 1 Year

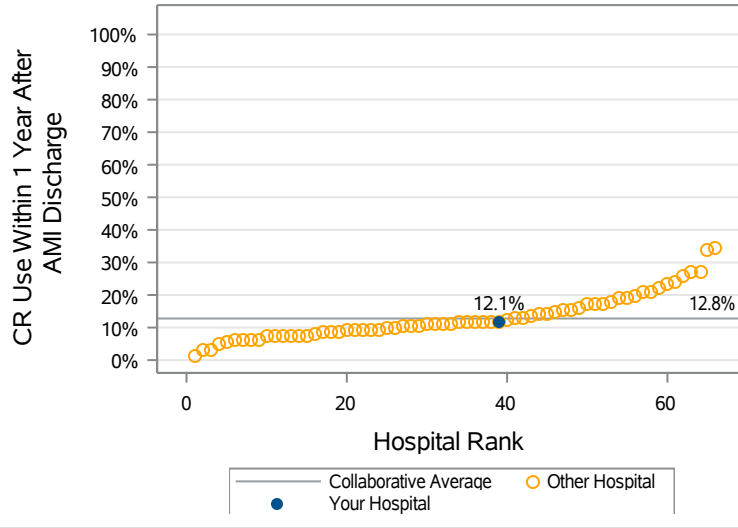


Figure 2: Quarterly Trends in CR Use Within 1 Year

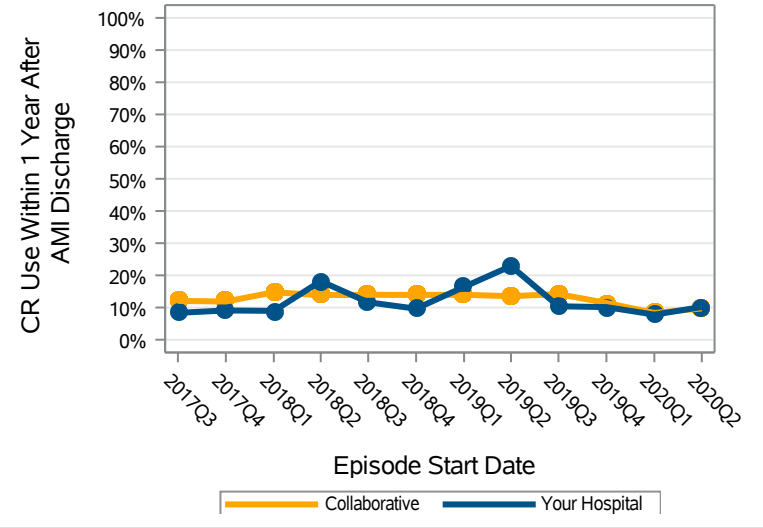


Figure 3: Mean Days to First CR Visit (Among CR Utilizers)

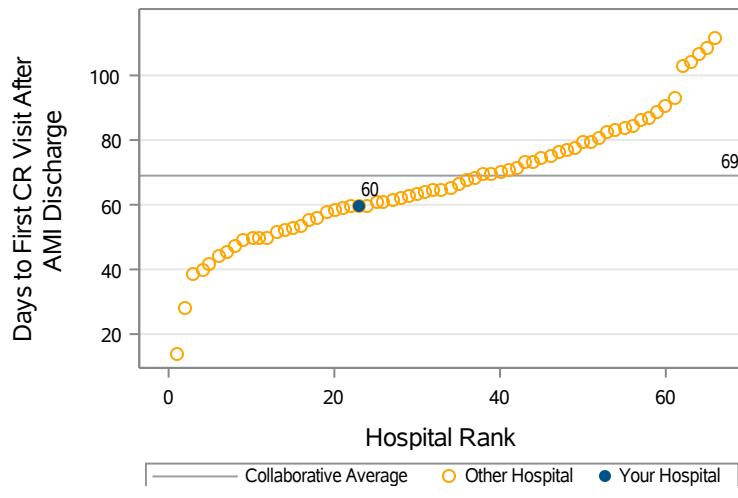
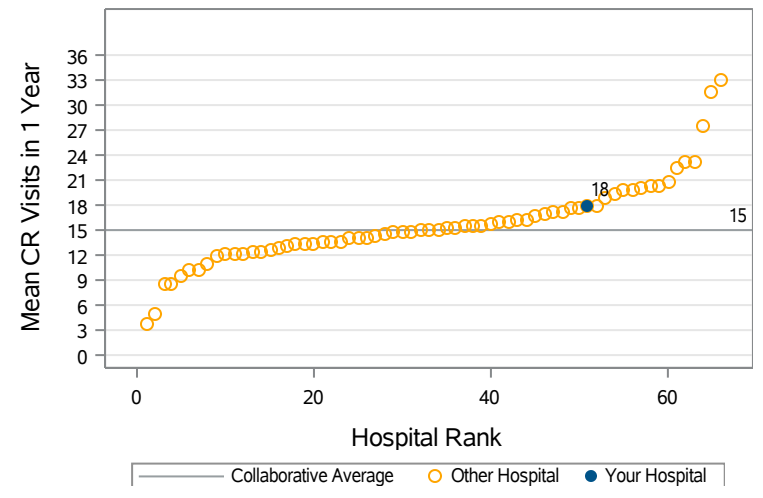


Figure 4: Mean Number of CR Visits Within 1 Year (Among CR Utilizers)



Reporting period: Index episodes from 7/1/17 - 6/30/20 Note: Some episodes in Q1-2 2020 are not completed out to one year, only 90 days.

Report generated: 10/19/21

Payers included: Medicare FFS, Michigan Medicaid, BCBSM PPO Commercial, BCBSM Medicare Advantage, Blue Care Network (BCN) HMO, BCN Medicare Advantage

Cardiac Rehab After CHF - Hospital A

Figure 1: Collaborative-Wide CR Use Within 1 Year

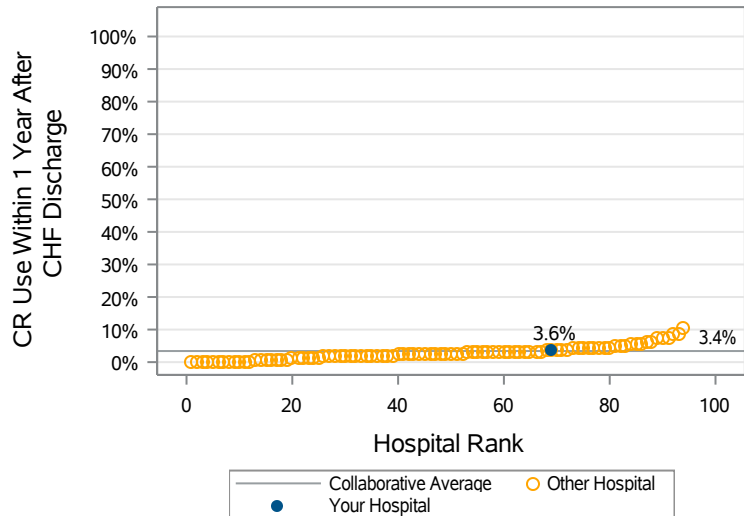


Figure 2: Quarterly Trends in CR Use Within 1 Year

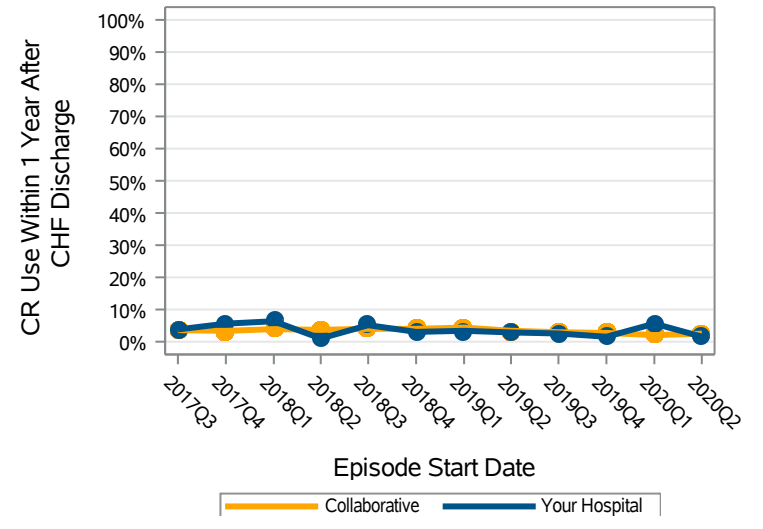


Figure 3: Mean Days to First CR Visit (Among CR Utilizers)

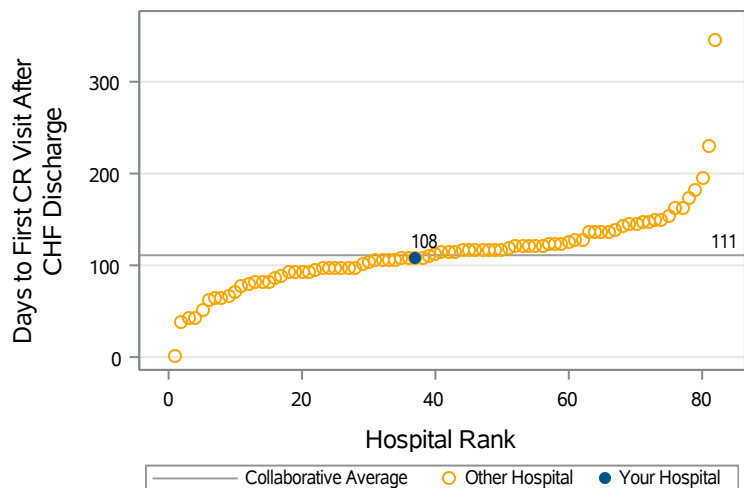
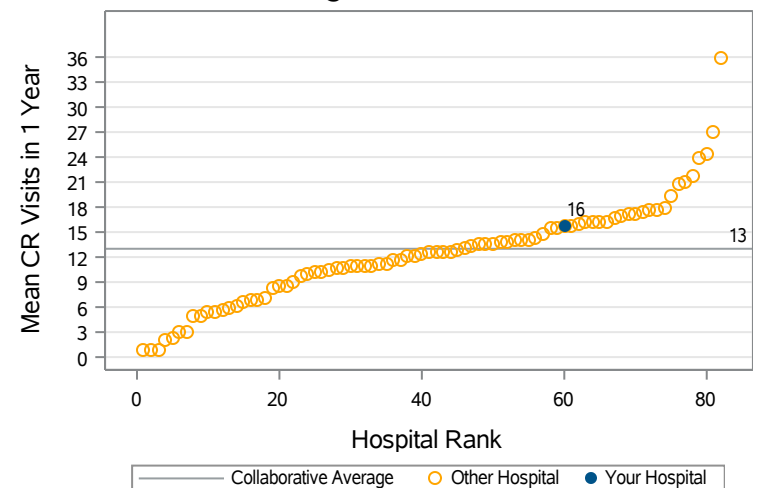


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Cardiac Rehab After SAVR - Hospital A

Figure 1: Collaborative-Wide CR Use Within 1 Year

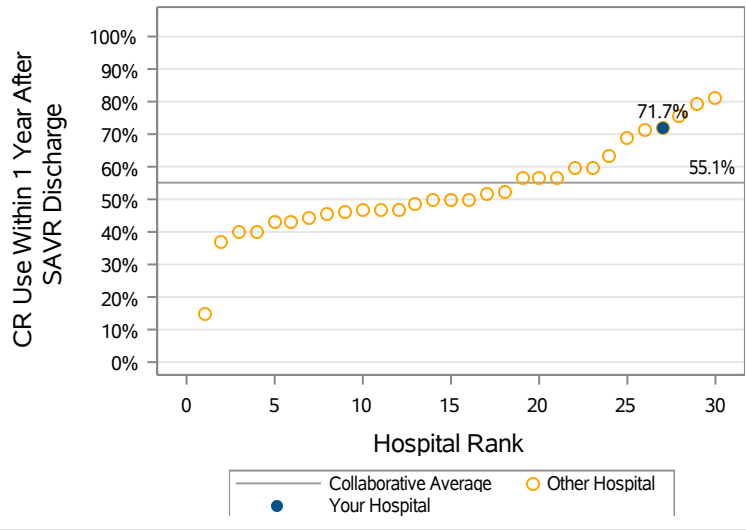


Figure 2: Quarterly Trends in CR Use Within 1 Year

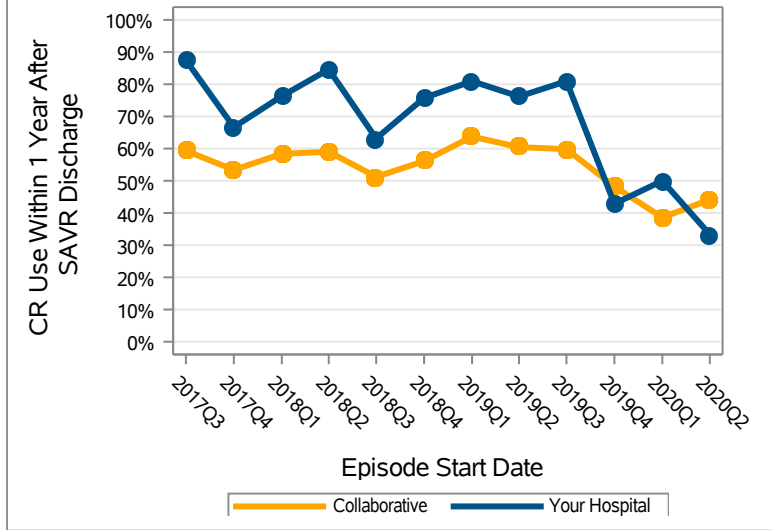


Figure 3: Mean Days to First CR Visit (Among CR Utilizers)

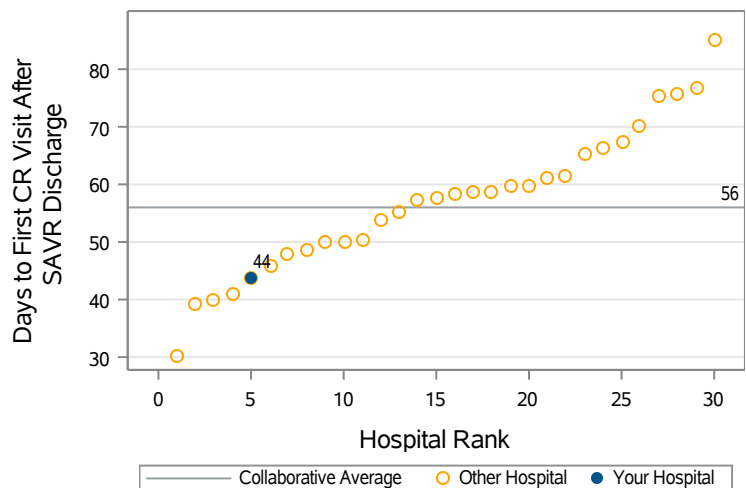
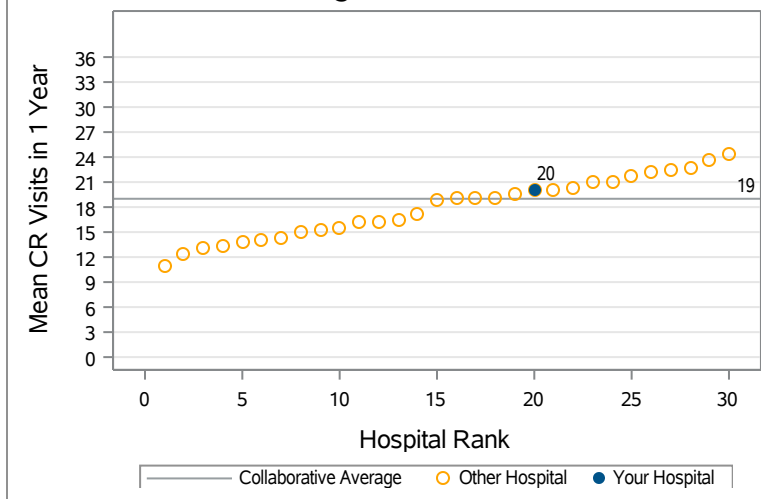


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Cardiac Rehab After TAVR - Hospital A

Figure 1: Collaborative-Wide CR Use Within 1 Year

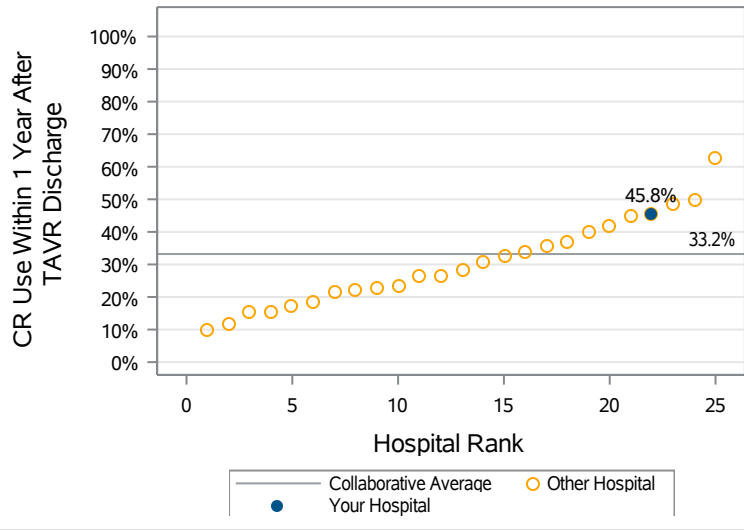


Figure 2: Quarterly Trends in CR Use Within 1 Year

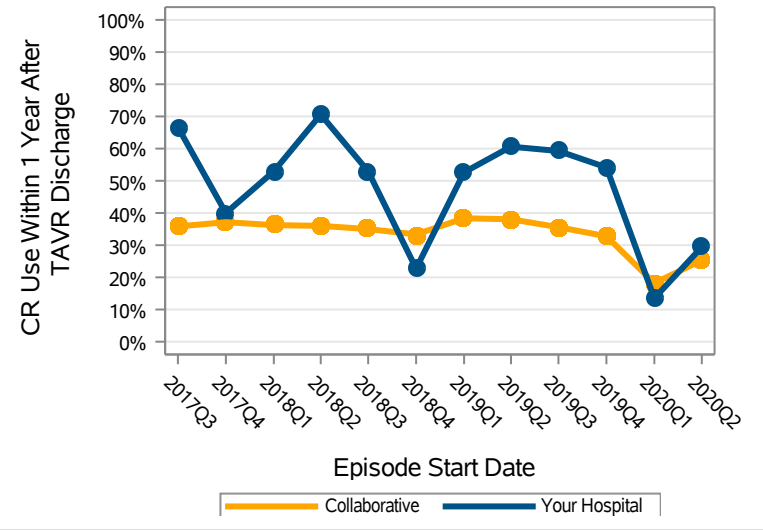


Figure 3: Mean Days to First CR Visit (Among CR Utilizers)

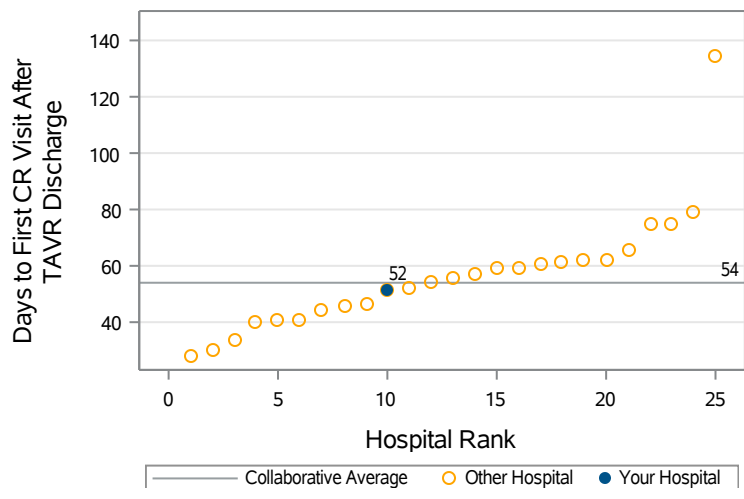
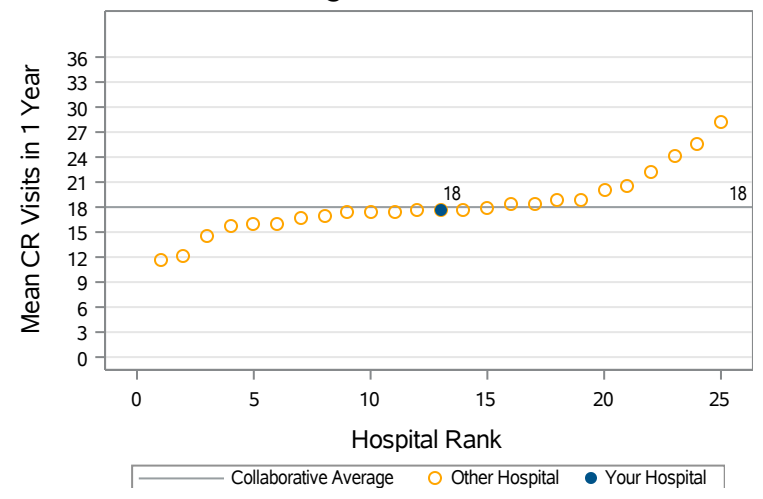


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Cardiac Rehab After CABG - Hospital A

Figure 1: Collaborative-Wide CR Use Within 1 Year

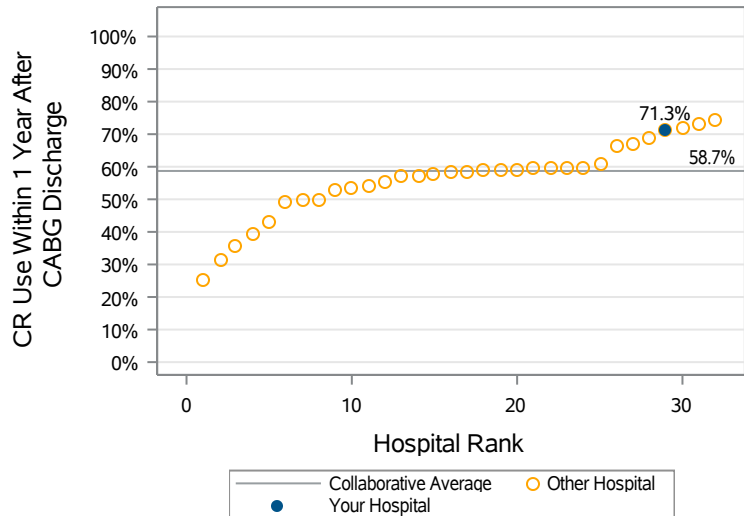


Figure 2: Quarterly Trends in CR Use Within 1 Year

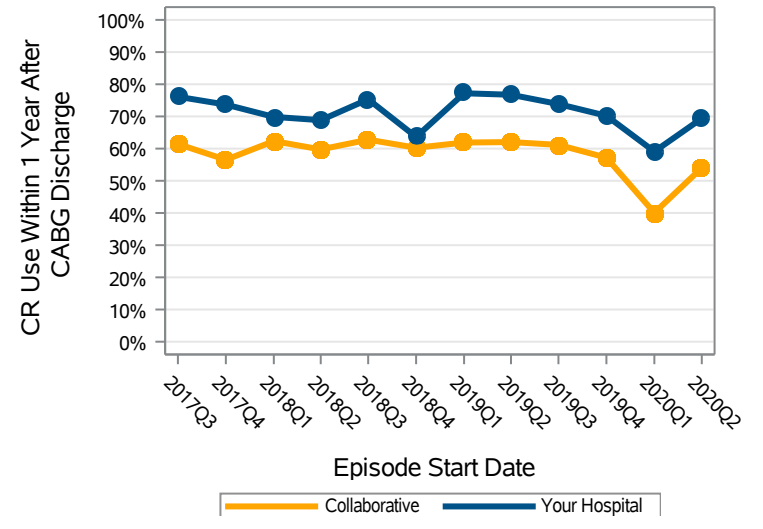


Figure 3: Mean Days to First CR Visit (Among CR Utilizers)

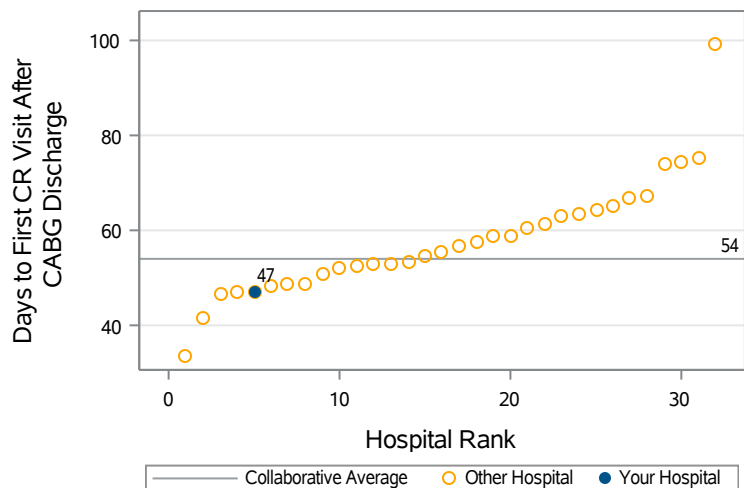
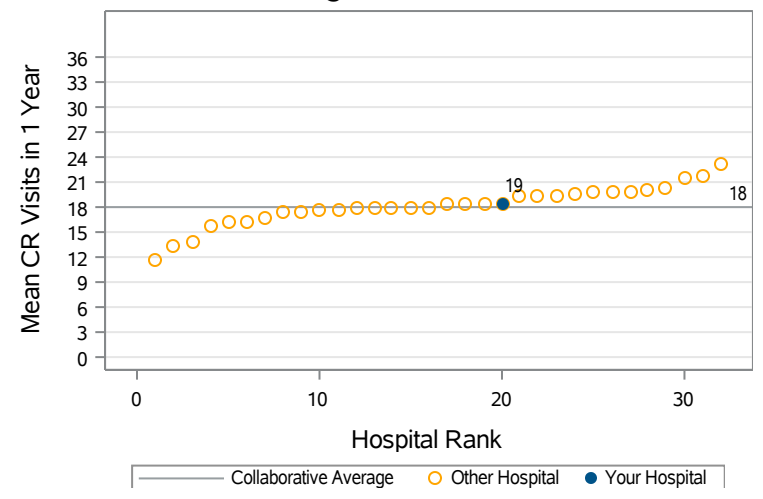


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Cardiac Rehab After PCI - Hospital A

Figure 1: Collaborative-Wide CR Use Within 1 Year

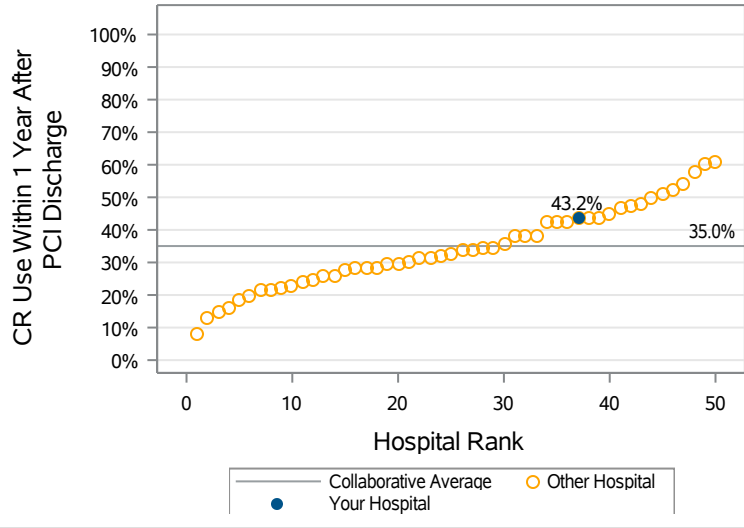


Figure 2: Quarterly Trends in CR Use Within 1 Year

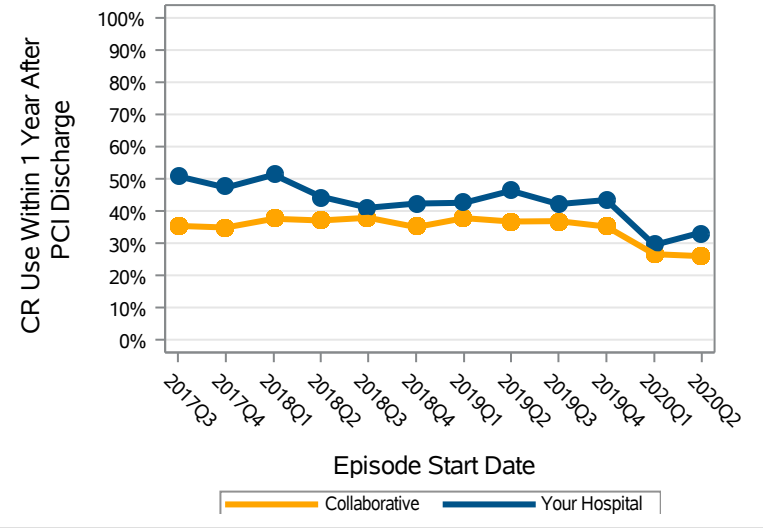


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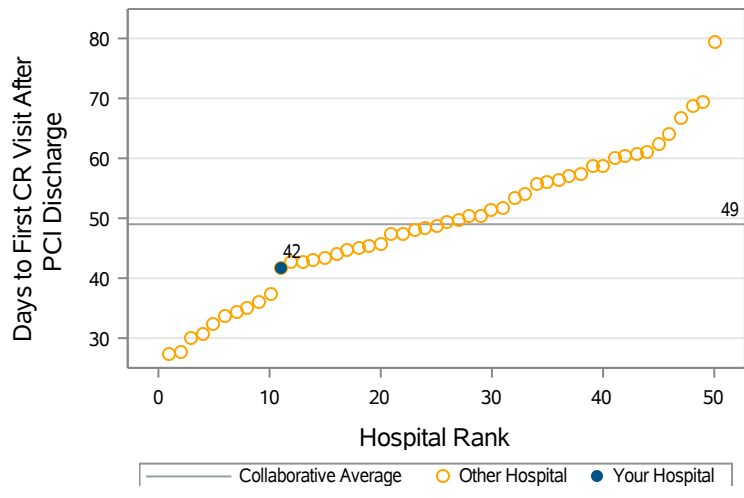
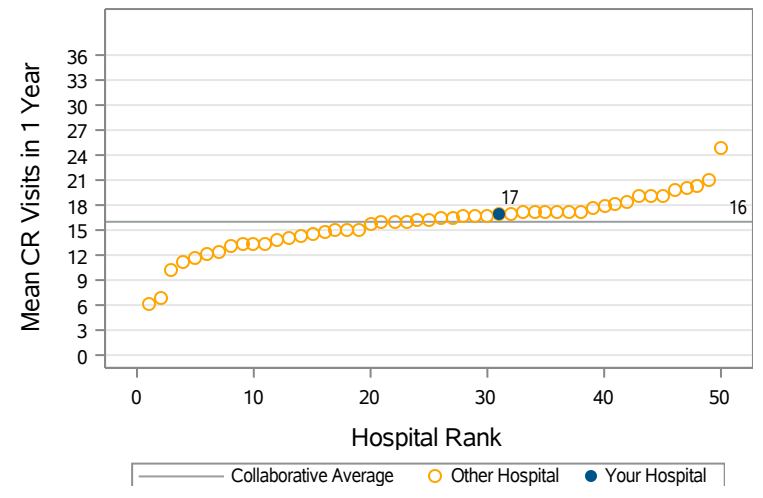


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