

Heart Failure Transitional Care Service Slashes 30-day Readmission and Mortality

Rates: a Single Center Experience (HF-TCS Study)

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BACKGROUND

•Transitional care services (TCS) improve clinical outcomes in HF

- Best practices have yet to be defined.

•1-year data from an intensive TCS program

METHODS

•HF-TCS Team: 3 HF-trained nurse practitioners

- Utilize Epic EHR to develop a system list of inpatients with HF
- Review chart to confirm 1° HF diagnosis
- Official consultation to identify gaps in care
- Advise the primary team
- Offer follow-up with HF-TCS program

•HF-TCS Program: intensive transitional care program

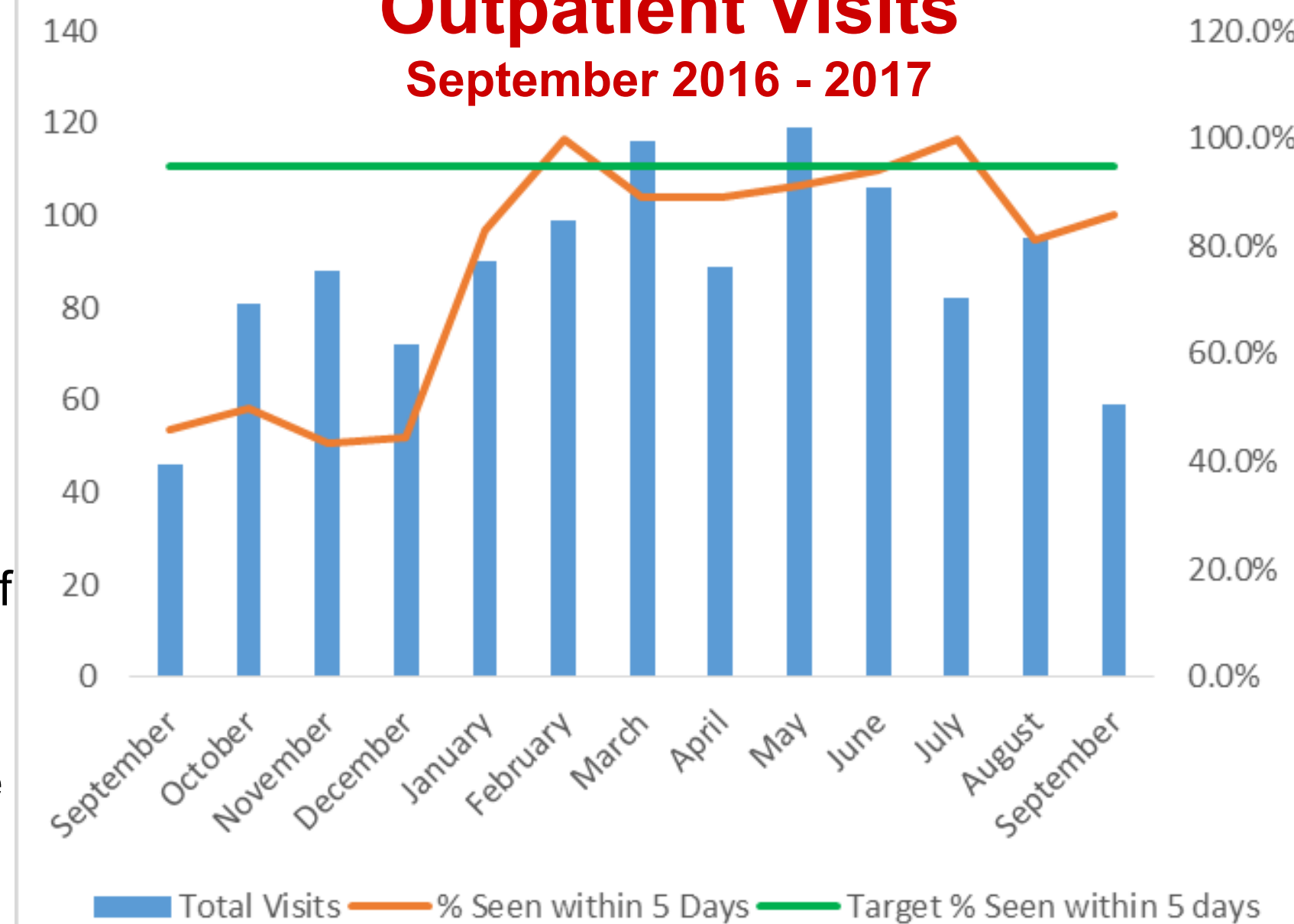
- 2-day phone call
- 5-day office visit
- Additional follow-up as needed (30 days - 90 days)
- Dedicated 24/7 call line staffed by HF-TCS Team

•Quasi-experimental study design (n=410)

- Intervention group: accepted HF-TCS program
- Comparison group: declined HF-TCS program
- 1-year data: September 2016 – 2017

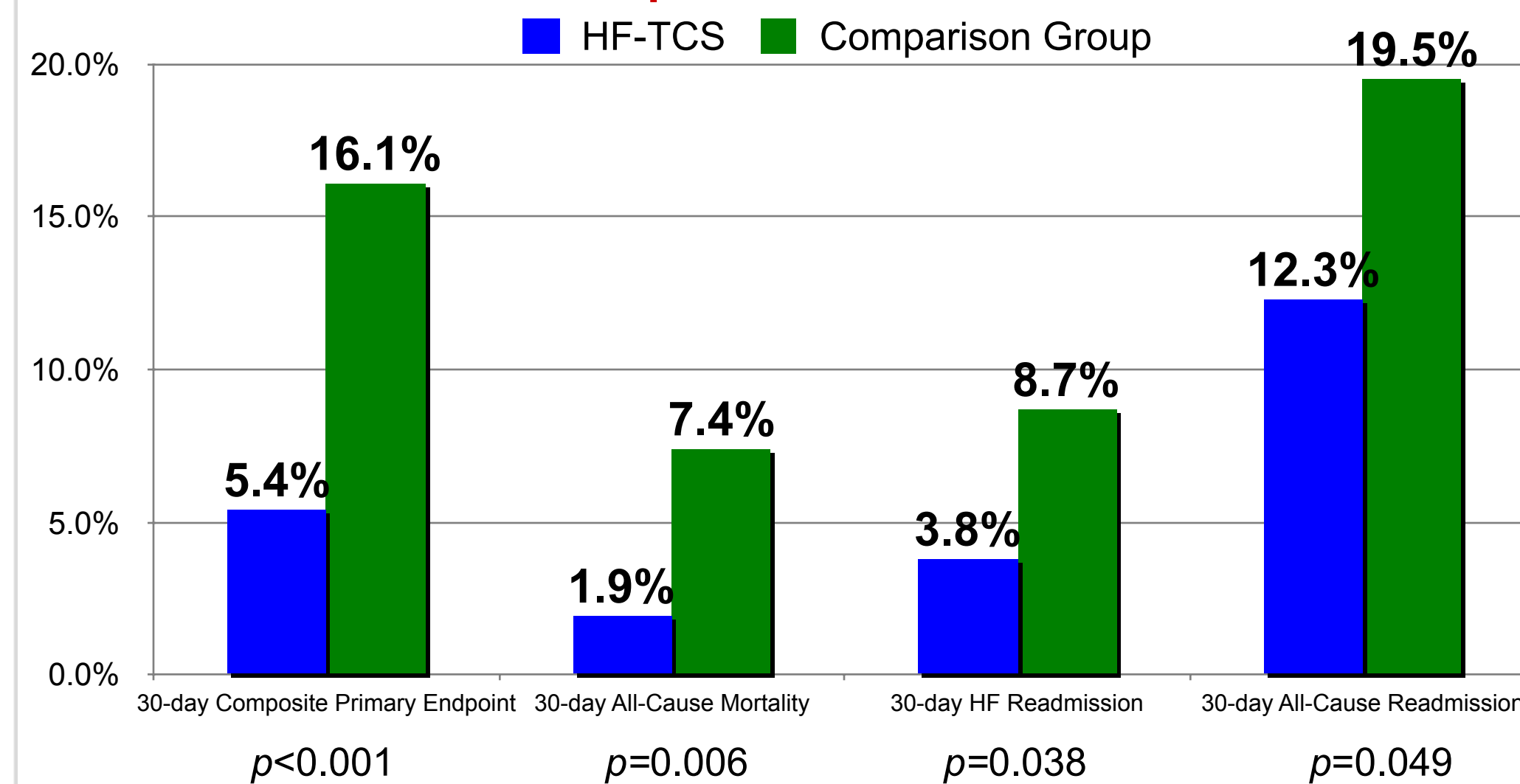
Outpatient Visits

September 2016 - 2017



Clinical Outcomes

September 2016 - 2017



RESULTS

- Intervention group: 261 (63.7%) patients
- Comparison group: 125 (36.3%) patients
- Completed 2-day phone call: 93%
- Average office visit time: 4.9 days

- HF-TCS clinical outcomes:
 - 66% reduction in composite endpoint: mortality + HF readmission
 - 74% reduction in all-cause mortality
 - 56% reduction in HF readmissions
 - 37% reduction in all-cause readmissions

- HF-TCS cost:
 - Intervention group during HF-TCS: \$2.3 million
 - Intervention group after HF-TCS: \$1.1 million
 - Comparison group: \$1.0 million

- HF-TCS contribution margin:
 - Annualized reduction in AC readmission cases: 38
 - Annualized potential gain in CM: \$168,944

CONCLUSIONS

•Intensive TCS programs can dramatically reduce 30-day readmissions and mortality for patients admitted with HF

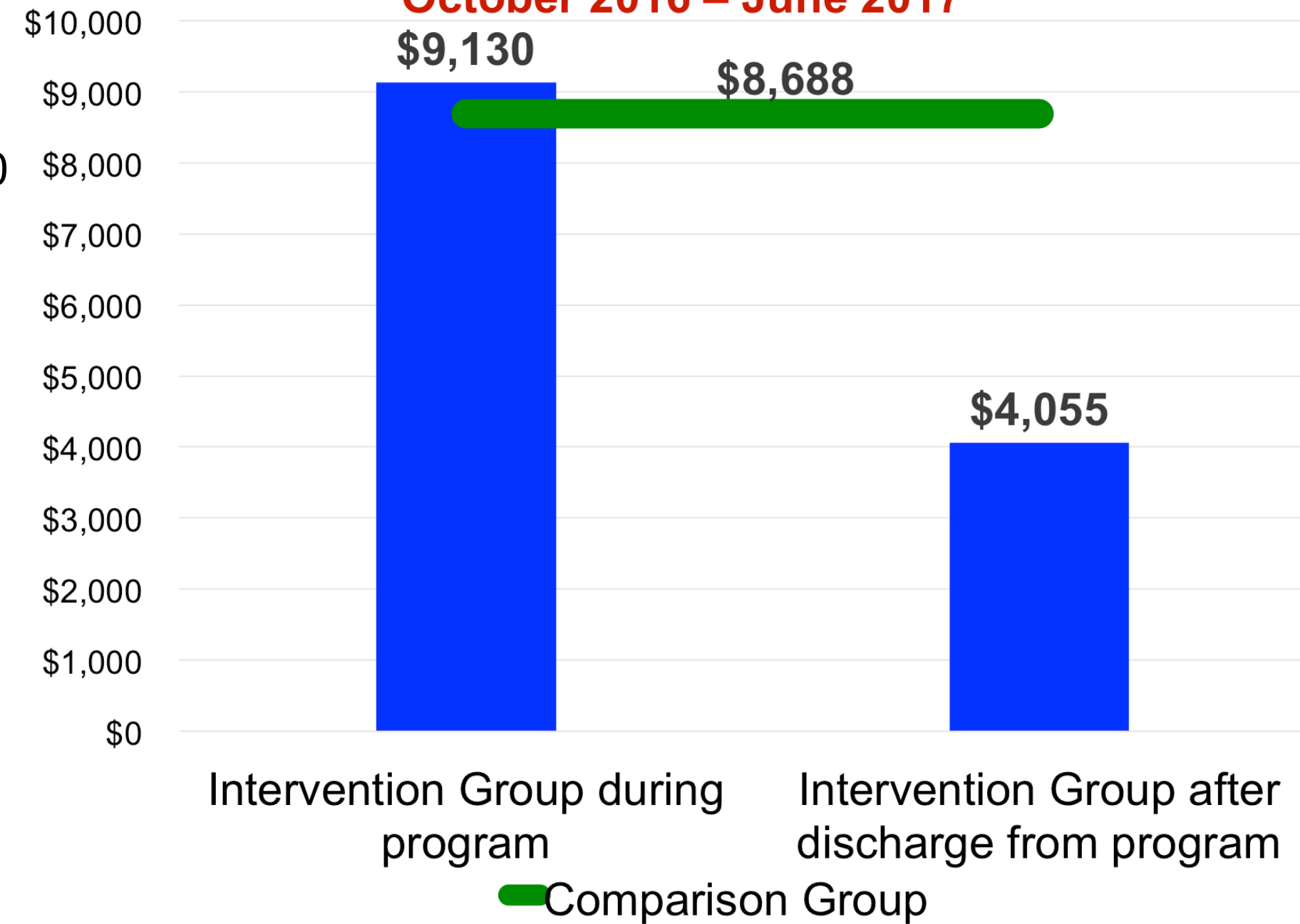
•Our data contributes to growing body of evidence needed to define best practices

•Future research:

- Long term clinical outcomes
- Patient-centered outcomes
- Cost-effectiveness analysis

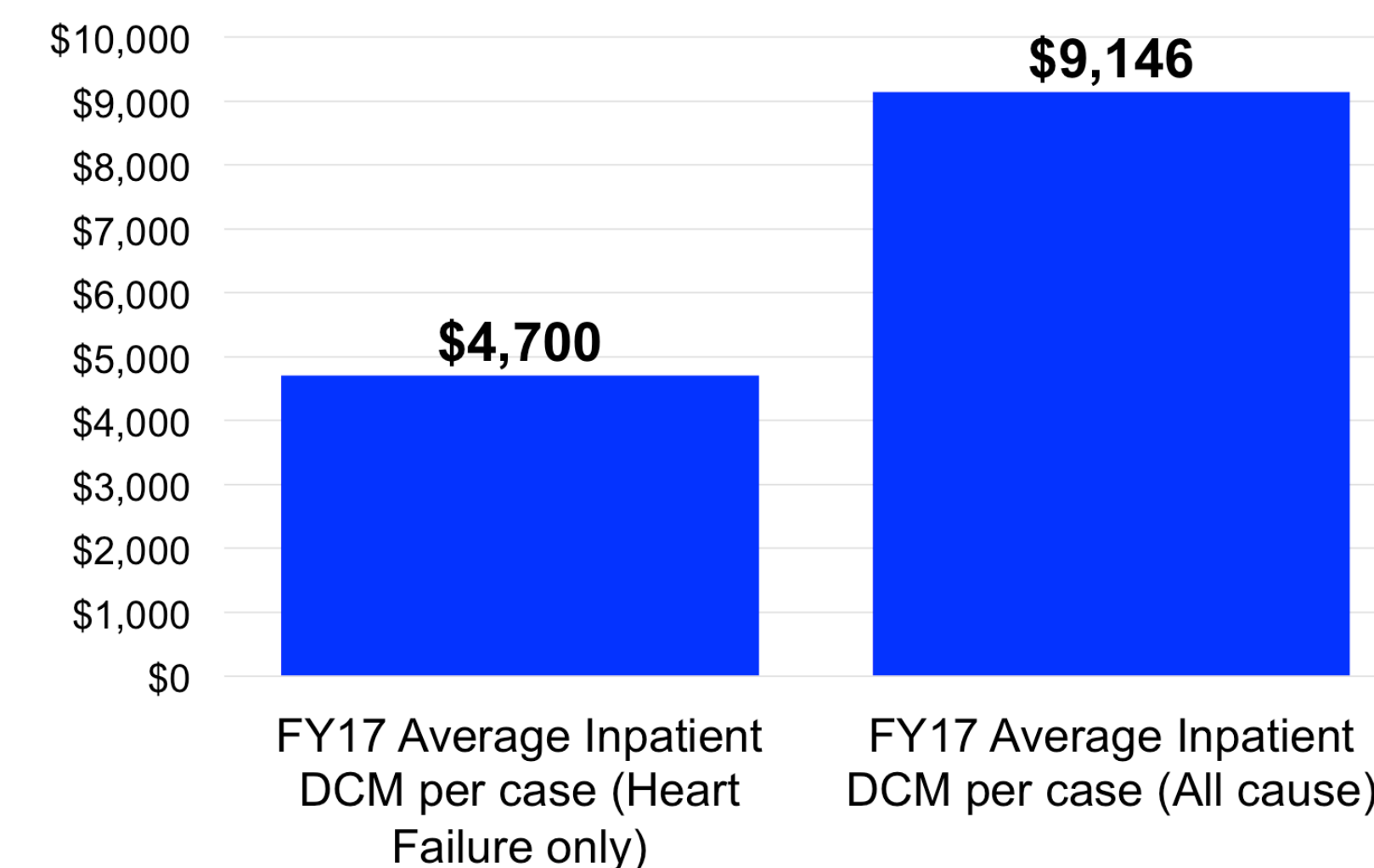
Average Cost Per Patient

October 2016 – June 2017



Average Contribution Margin Per Case

October 2016 – June 2017



The reduction of all-cause readmissions for the Intervention group allows the annualized opportunity of 38 new case admissions, at a higher average Contribution Margin per case.