

## LEADING WITH PRECISION: CARDIOVASCULAR INNOVATION AT TRINITY HEALTH SAINT ALPHONSUS



### SAINT ALPHONSUS REGIONAL MEDICAL CENTER & BIOME PARTNERSHIP

Trinity Health Saint Alphonsus Regional Medical Center (SARMC) excels in providing comprehensive cardiovascular care through their commitment to high-quality patient outcomes, driven by an engaged and proactive leadership team. Their dedication to excellence has positioned them as a top decile performer across multiple cardiovascular metrics. SARMC has invested in a suite of Biome's modules, including PCI, Transcatheter Valve Therapy, Chest Pain MI, and Cardiac Surgery, enhancing their ability to deliver data-driven care across the cardiovascular service line (CVSL).

### ENGAGEMENT & OBJECTIVES

Our partnership with SARMC is centered around enabling accurate, timely data insights, improving clinical outcomes, and reducing operational burdens through Biome's advanced analytic tools and performance improvement team. This collaboration emphasizes robust performance improvement, as demonstrated by SARMC's impressive performance in key metrics and their focus on continual improvement. By centering on patient outcomes, this partnership has driven robust annual improvements, resulting in:

- Hundreds of patients positively impacted
- Nearly 200 bed days saved
- \$900K in contribution margin improvement.

### AT A GLANCE

Saint Alphonsus Regional Medical Center partners with Biome Analytics to achieve top-decile cardiovascular performance, leveraging data-driven insights to elevate patient care and drive meaningful operational improvements.



**Saint Alphonsus**

A Member of Trinity Health

### ABOUT SAINT ALPHONSUS HEALTH SYSTEM

Saint Alphonsus Health System is a Catholic, faith-based ministry and not-for-profit health system serving the state of Idaho, eastern Oregon, and northern Nevada communities with 4 hospitals, 1 regional rehabilitation hospital, and 595 licensed beds. The Saint Alphonsus Health Alliance is the Health System's Clinically Integrated Network (CIN) and is comprised of 3,409 employed and independent providers. Saint Alphonsus Health System and Health Alliance provide advanced specialty and sub-specialty services including neurosciences, women's and children's, orthopedics, oncology, cardiovascular, primary care, general surgery, emergency and trauma, virtual care, and pediatrics.

### ABOUT BIOME

For over 10 years, Biome has been partnering with ambitious healthcare centers who want to maximize clinical, financial, & operational performance across the service line. Our mission is to provide health systems with leading solutions that enable robust performance improvement projects & optimize value of care.

## SARMC'S EXEMPLARY FRAMEWORK FOR PATIENT-CENTERED CARE

### Outstanding Performance Metrics

Through their resolute dedication to exceptional patient care, Trinity Health Saint Alphonsus Regional Medical Center (SARMC) has achieved top decile performance across key cardiovascular measures. SARMC excels in average length of stay, readmissions, and complication rates for cardiac surgery and demonstrates outstanding results in PCI measures, including observed-to-expected bleeding, cardiac rehab referrals, and length of stay. Additionally, they maintain top decile performance in TAVR measures for length of stay, mortality, and vascular complication rates.

### Leadership & Team Engagement

With an incredibly engaged quality team, strong administrative and physician leadership, SARMC fosters a collaborative, data-driven environment.

**“Biome is the ultimate tool to align the incentives between physicians and administrators. It allows transparency in the volume, outcomes and cost of our cardiovascular programs and a targeted approach to achieving an efficient and high quality service line.”**  
~ Dr. Joe Walsh

## STRATEGIC IMPROVEMENTS & COLLABORATIVE OUTCOMES



### Enhanced Documentation & Data Accuracy

Biome's support has been instrumental in improving SARMC's accuracy in documentation across both registry and administrative data. Significant improvements include capturing STS risk scores for TAVR, identifying rapid extubation opportunities, and capturing operator data for PCI.



### Accreditation Support and New Measures

In alignment with SARMC's commitment to excellence, we developed 20 new measures tailored to support chest-pain MI accreditation. These metrics provide a structured approach for tracking quality improvement, directly benefiting patient care through targeted accreditation initiatives.



### A-Fib Measure for CABG Procedures

To better understand the impact of atrial fibrillation (AFib) procedures on CABG outcomes, Biome collaborated with SARMC to develop new cardiac surgery AFib-related measures. These insights offer a more comprehensive view of procedure impacts on AFib data.



### Co-Management and Tracking Enhancements

Biome's Performance Manager supports SARMC in tracking key measures such as same-day discharge based on patients' distance from the hospital. This significantly reduces administrative workload, streamlining the tracking process across SARMC's CVSL and co-management measures.



### Quantifiable Outcomes and Financial Impact

The improvements across the CVSL at SARMC have saved approximately 180 bed days and contributed to a \$900K margin improvement. Improvements include appropriate DRG capture for TAVR and reduced length of stay across cardiac surgery procedures.

## STRATEGIC IMPROVEMENTS & COLLABORATIVE OUTCOMES CONTINUED



### **Concurrent Data Submission for Real-Time Analysis**

By supporting concurrent data submission, SARMC can access timely analytics, enhancing decision-making and clinical responsiveness through near-real-time data abstraction.



### **Cost Data Analysis for TAVR and PCI**

SARMC has received in-depth analyses on TAVR and PCI cost data, allowing for precise tracking of supply and device utilization to ensure accurate cost management and improve contribution margins.



### **Shared Best Practices and Continuous Improvement**

Through Biome's vast network, SARMC benefits from shared best practices across other high-performing sites. This collaborative approach facilitates continuous improvement and supports SARMC's position as a leader in cardiovascular care.

## CASE STUDY RESULTS & IMPROVEMENTS

### **Outpatient PCI Same Day Discharge:**

Enhances patient convenience, reduces hospital resource use, and lowers healthcare costs while maintaining high standards of post-procedural safety and care quality.

- Improved by 9%
- Baseline: 61.8%
- Measurement Period: 70.5%

### **New Measures Built to Support Accreditation & Performance Improvement Efforts:**

- 25

### **Documentation Improvements**

- Capture of STS Risk Score
- TAVR Procedure Location
- PCI Operator Capture
- PCI Bleeding O/E

## LONG-TERM VISION & FUTURE EXPANSION

The partnership between SARMC and Biome continues to evolve as we explore new measures and identify high-yield opportunities for enhancing patient care. Together, we are committed to expanding SARMC's capacity to provide exceptional cardiovascular services and achieve sustained performance improvements.

### **Discover the Future of Cardiovascular with Biome's Advanced Analytics Platform**

Elevate your cardiovascular care with Biome's cutting-edge analytics platform, integrating clinical, operational, and financial data to enhance efficiency and patient outcomes. Join leading health systems utilizing Biome to improve care standards, speed up treatment times, and achieve significant cost savings. Contact us to revolutionize your CVSL and prepare for the future of healthcare: [info@biome.io](mailto:info@biome.io)