



Partnering in data-driven innovation with **Miami Cardiac & Vascular Institute**

At a glance

- 11-hospital network
- 125,000 patients per year
- 11 heart services offered
- 7 vascular services offered
- Centralized enterprise deployment of Philips Cardiology Informatics
- Cerner electronic health records

Key clinical metrics

Miami Cardiac & Vascular Institute monitors over 100 clinical metrics on a monthly basis. The metrics are grouped into four categories:

- Quality
- Financial
- Throughput
- Supply management

A culture of collaboration

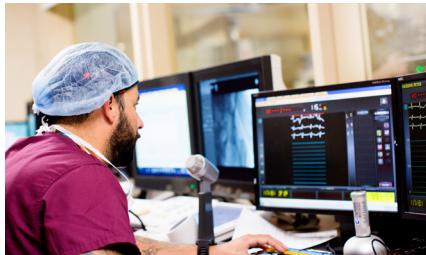
Miami Cardiac & Vascular Institute at Baptist Health South Florida was founded on a commitment to less invasive therapy, multidisciplinary team care and transparency. It provides integrated, patient-centered cardiac and vascular care with a focus on minimally invasive procedures. “To build a strong, collaborative team requires rethinking the way clinical specialties work together. We’ve taken great steps to break down silos across the health system,” says Carol Melvin, Chief Operating Officer at the institute.

Putting data first puts patients first

“The primary reason we are successful in running this volume is because we take a data-first approach,” Melvin says. “One method to building strong teams

is to make data transparent to everyone and create an environment where they can discuss the findings. Daily, weekly and monthly reports generated by Philips [IntelliSpace Cardiovascular](#) and [Xper Information Management with Xper Flex Cardio](#)

have a direct effect on improving quality and performance. Using Xper, an interventional cardiologist can look at turnaround data and discover that the procedure teams are taking longer than others even though they have the same staff," Melvin explains. "Cardiologists can talk to each other about the data, learn new techniques and build on each other's skills." The team was also able to look at prep time for transcatheter aortic valve replacement (TAVR) procedures and



Data from Xper:

- On-time starts
- Add-on case rate
- Prep time
- Physician wait time
- Procedure time
- Post time
- Recovery time
- Turnaround time
- Cases after 5:00 pm
- Cancellation rate
- Procedure room utilization
- Pre- and postcare utilization
- Callback procedure rate
- Throughput



"Philips understands the care we're providing and has incredible cardiology solutions that allow us the flexibility to be nimble."

Carol Melvin, Chief Operating Officer,
Miami Cardiac & Vascular Institute

benchmark it against other facilities. The data revealed that they had bottlenecks. They were able to take steps to get patients ready in a more timely way without impacting the quality of care. "We used to do two TAVR procedures a day, now we do three by 3:00 pm."

Faster diagnosis

Detailed clinical findings in Philips IntelliSpace Cardiovascular can also be queried and analyzed. Structured reports for echocardiograms can be searched to find the number of patients who have significant aortic stenosis. "IntelliSpace Cardiovascular helps physicians' workflows so they can make faster diagnostic decisions based on insights and accomplish their treatment and diagnostic tasks in one system," Melvin says.

Finding solutions together

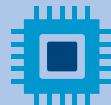
"Data must be usable, accurate and actionable," explains Melvin. "That leads to better efficiencies and better patient care." At the institute, teams start by understanding data first and use that to guide solutions, rather than invest in equipment and then try to understand the data. "Philips fine-tunes solutions for each healthcare enterprise. They understand the care we're providing and have incredible cardiology solutions not being addressed by other vendors. That allows us to be nimble." Partnering with Philips, the institute's approach to data usage and governance is key to their future growth and their primary mission: improving the patient experience, better health outcomes, improved staff experience and lower cost of healthcare.

Four pillars for a successful analytics strategy



Data

- Information management foundation
- Data governance
- Data standardization



Technology

- Appropriate technology platform



People

- Organizational structure and role definitions
- Centers of excellence
- Involvement of operational leaders



Process

- Information as an enterprise asset
- Standardization of workflows
- Adoption

Results are specific to the institution where they were obtained and may not reflect the results achievable at other institutions.

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