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LEVERAGING CLOUD-CENTRIC TECHNOLOGY IN THE ASC/OBL SETTING:

SCIMAGE PICOM365 WITH INTEGRATED HEMODYNAMICS



WHITE PAPER

In partnership with:

ScImage[®]

Three programs share outcomes of using ScImage's PICOM365[®] cardiology suite integrated with Fysicon's QMAPP[®] in their ASC/OBL settings.



LEVERAGING CLOUD-CENTRIC TECHNOLOGY IN THE ASC/OBL SETTING: SCIMAGE PICOM365 WITH INTEGRATED HEMODYNAMICS

SYNOPSIS

ScImage's PICOM365® Cloud-based cardiology suite provides organizations custom workflows, vendor-agnostic interoperability, and cost-effective options to manage rapidly advancing imaging modalities and to support growth and geographic expansion. An industry-leading enterprise image management provider for over 27 years, ScImage recognized the needs of the growing ambulatory surgical center/office-based lab (ASC/OBL) market and now offers a game-changing solution: a fully integrated hemodynamic system within the PICOM365 CVIS/CPACS through a partnership with Fysicon (a Canon company).

The Fysicon QMAPP® is the most compact, advanced hemodynamic measurement system in the world, with all the functionality provided by the legacy hemodynamic systems present in many labs across the country, and it is available at a much lower cost point. Integration with the ScImage PICOM365 cardiology suite creates a seamless cloud-based solution for workflow, clinical data and image management and sharing, as well as structured reporting, archiving, electronic medical record (EMR) integration, billing and analytics. The Fysicon QMAPP amplifier's compact design is comparable in size to a ream of office paper. It connects at the table with a single cable and provides NIBP, thermodilution cardiac output, end tidal CO₂, two temperature channels, SpO₂, up to four invasive pressure channels, integrated FFR, 12-lead EKG and up to 32 bipolar electrophysiology (EP) channels. The amplifier does not require forced cooling so there is no airflow and no noise.

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The system's workflows are highly customizable to accommodate cardiac, vascular and EP procedures in the interventional suite and allows the lab manager to perform advanced analytics, like stent and device utilization, case times, room turnaround, dosimetry, fluoro time and many other metrics. It is also native to Windows 10, an advantage that anyone who works with complex interventional labs can appreciate with a clean, simple, customizable interface.

Paired with the PICOM365 Cloud cardiology suite, ScImage's capacity to integrate with any hemodynamics solution in the market as well as offer a complete "all-in-one" package has positioned ScImage as a frontrunner amid the current surge of de novo ASC, OBL and hybrid ASC/OBL projects, providing a fully integrated solution for interventional suites.





TOPIC OVERVIEW

In November 2019, the Centers for Medicare and Medicaid Services issued its final rule on percutaneous coronary intervention (PCI) in the ASC setting by approving the addition of six CPT codes to the ASC Covered Procedures List for CY2020. In the 2020 final rule three new separately payable coronary interventions and three associated add-on procedures were added. EP device implant and peripheral vascular work has been provided in the ambulatory setting for some time and adding coverage for PCI has changed the landscape for

interventional cardiovascular care in the U.S. by further expanding access and providing care at lower costs in the ambulatory setting for Medicare beneficiaries. Although reimbursement for these PCI procedures is up to 50% lower than in the hospital outpatient cardiovascular interventional lab setting, it has generated a surge of investment in de novo ASCs and hybrid ASC/OBLs with interventional suites in 2021, by a variety of stakeholders.

VALUE PROPOSITION

As new ambulatory interventional programs emerge across the country, owners and investors are seeking the most integrated, cost effective solutions available to help manage overhead and efficiency, while maintaining the high level of safety and quality needed to provide diagnostic and interventional cardiac, EP and peripheral vascular procedures. Traditionally, purchasing a CVIS/CPACS and hemodynamic system for an interventional suite has been complex, costly and piecemeal. ScImage has eliminated these barriers by offering a cloud-centric, scalable, fully integrated solution with reasonable pricing for interventional suites in the ambulatory setting.

The ScImage PICOM365 cardiology suite integrates with Fysicon QMAPP to create a seamless cloud-based solution for workflow management, clinical data and image management and sharing, structured reporting, PACS, EMR integration, billing and analytics. Unlike many outdated hemodynamic systems, the integrated hemodynamic system runs in a Windows 10 environment and provides a simple, customizable user interface. The PICOM365 architecture is built upon a security-first mindset that features a highly secure, end-to-end encryption of data – at rest and in transit.

The depth of the value proposition for the combination of the PICOM365 Cloud cardiology suite with the Fysicon QMAPP hemodynamics system becomes very clear in speaking with the clinical leaders in three programs opening de novo ambulatory labs.

Several distinct advantages emerged across all three programs:



A small footprint



Interoperability with simple user interface



Low startup cost with cloud storage



Speed to start up



Service relationships



Data security



A fully integrated solution with remote data and image management across all modalities





PHOENIX HEART Phoenix, AZ



Phoenix Heart, voted number one in cardiology groups by *Ranking Arizona* magazine's Best in AZ Businesses readers' poll, is a leading cardiology group in the greater Phoenix area with five offices, located in Glendale, Goodyear, Anthem and Black Canyon City. Since its inception in 1981, Phoenix Heart has worked to set the gold standard for cardiovascular care in Arizona and beyond. This group of 12 cardiologists has operated an OBL for seven years and is adding a second cardiovascular ASC location, Phoenix Heart Ambulatory Surgery and Electrophysiology, with an interventional suite and a minor procedure room.

Jerry Van Horn, RT (R)(CV), ARRT, the director of both facilities, has extensive experience working in and managing interventional suites. When discussing the group's decision to select an integrated solution with the PICOM365 Cloud cardiology suite and Fysicon QMAPP hemodynamics system, which is a shift from the technology in their OBL, Van Horn notes a number of advantages for the new ASC setting. "Unlike the footprint of the hemodynamics systems we are used to seeing in interventional suites QMAPP is incredibly small, yet it provides the same level of sophistication we see in those larger products. There is substantially less cabling and no noisy ventilators because the amplifier does not require forced cooling." The group purchased a second amplifier for the minor procedure room where they plan to perform

implantable loop recorder implants, transesophageal echocardiograms (TEEs) and possibly generator changes. "We will be able to monitor our patients in that room at the same level as the interventional suite and having the second amplifier creates redundancy to avoid downtime in the interventional suite," Van Horn says.

The PICOM365 cloud-based image management is a definite advantage for Phoenix Heart, supporting remote physician access, interpretation and automated structured reporting from anywhere in the world with rapid, secure image share for the structural heart team and surgical consults. Van Horn welcomes the opportunity to eliminate the use of CDs, which will reduce delays in care and enhance the security of protected health information.

When asked if the group will replace the hemodynamic system in their OBL with QMAPP as it ages out Van Horn notes that it is a definite consideration. "PICOM365 Cloud with integrated hemodynamics is a one-stop shop. Unlike other products you are not having to piecemeal a lab together and we saved an estimated 30% with this integrated solution. That, along with the great service relationships with the ScImage team, goes a long way in making these types of decisions."

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PEAK SURGERY CENTER Avondale, AZ



Peak Heart & Vascular is a multispecialty cardiovascular group servicing Phoenix, Surprise, Glendale, Peoria, Avondale, Scottsdale, Flagstaff and surrounding communities. In collaboration with National Cardiovascular Management the group opened Peak Surgery Center of Avondale in March 2021. The ASC features two 800-square-foot interventional labs and a minor procedure room, with 13 pre-/post-procedure bays.

Will Bozlee, BSN, RN, director of procedural cardiology, describes the PICOM365 cloud-centric platform as an ideal fit for the first of several planned cardiovascular ASC locations. "With the large geographic footprint of our longer-term strategic plan the scalable cloud-based platform and customized workflows are a big advantage. For the scope of this project, the price point

of the integrated PICOM365 with hemodynamics solution was less than half what other vendors were able to offer."

Even though the center has large, spacious rooms, the small QMAPP footprint and interoperability were big selling points for the center's design team. Bozlee notes, "Labs have a lot of equipment and tend to get crowded quickly, so the small size and minimal cabling are an advantage. ScImage's PICOM365 allows us to integrate and store large images and manage the large volume of data associated with diagnostic and interventional cardiology procedures and EP procedures, all with the security and flexibility of a cloud-based workflow that allows our physicians to access data from anywhere."

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PICOM365™
ENTERPRISE IMAGING





CARDIOLOGY CONSULTANTS Spartanburg, SC



Cardiology Consultants, P.A. has been providing comprehensive cardiovascular care to patients in upstate South Carolina and western North Carolina since 1972. Certificate of need restrictions have delayed their efforts to open an ASC to provide cardiac cath and PCI. However, they recently opened an OBL where they have a busy peripheral vascular diagnostic and interventional program. In addition to an interventional suite, TEE and minor procedures are performed in a procedure room. Neil Gavel, practice administrator for Cardiology Consultants, describes the decision to choose the PICOM365 cardiology suite with integrated hemodynamics as straightforward and easy to make. “We were able to create redundancies throughout the OBL by placing a QMAPP amplifier in the interventional suite, in the procedural room and in the pre/post-care unit. When a patient moves from one area to another, we simply unplug a cable to transport the patient. When we reconnect the cable the patient information and clinical data flow is continuous. The cost of the hemodynamic system was also much lower than what we saw in quotes from other vendors.”

With the lab’s focus on peripheral vascular procedures, the ScImage team has worked with the interventional cardiologists to enhance

structured reporting and image storage for those procedures, including integration of intravascular ultrasound. “The small footprint and interoperability of the QMAPP hemodynamic system are life savers in our smaller spaces – it’s small, clean and neat without a bunch of cables all over the floor like you encounter in many labs,” Gavel says.

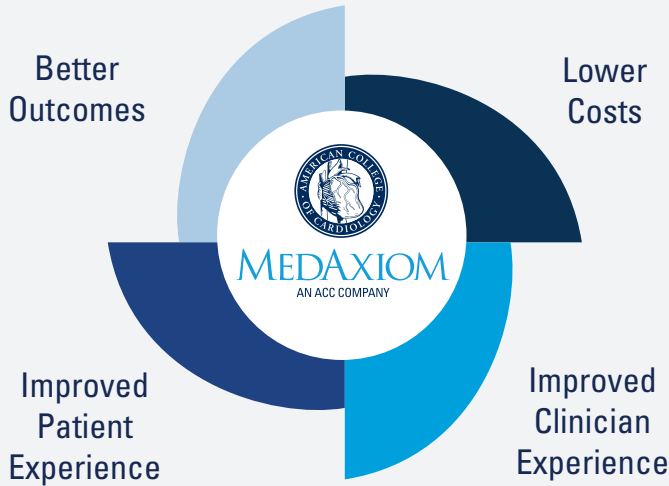
Leveraging the vendor-agnostic features of the PICOM365 Cloud cardiology suite, Gavel notes that transition of cardiac and vascular imaging and reporting was very easy. “The level of expertise and responsiveness from the ScImage team is outstanding. We have had virtually no downtime, updates are remote and seamless with no onsite server maintenance required, and their willingness and ability to customize workflows and structured reporting have also been outstanding. Our cardiologists appreciate using a system that encompasses all invasive and non-invasive procedures as well as the ease of remote access and their ability to quickly and easily share images with referring and consulting physicians. With integrated nuclear post-processing completely in the Cloud, our cardiologists are truly free to read and report from anywhere.”

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QUADRUPLE AIM



CONCLUSION

Careful thought and strategic planning are needed to manage the accelerated shift to ambulatory interventional labs and avoid additional strain on the industry’s efforts to assure intentional, well managed care transitions. De novo design projects provide a clean slate approach to leverage technology solutions in a manner that supports image and EMR data integration – a critical need for achieving the best outcomes for patients. High performing programs like those featured above will lean into the ambulatory shift using the Quadruple Aim as the roadmap for designing ASCs: better outcomes, lower costs, and improved patient and clinician experience. The partnership between ScImage and Fysicon provides an excellent opportunity to leverage an affordable, scalable, integrated technology solution designed specifically for the cardiovascular space. It is designed to support safe, high quality and highly reliable care in ASC/OBL settings. The PICOM365 cloud-centric, highly secure platform supports organizations’ efforts to assure intentional, well managed care transitions, making patient data and images easily available from any location in the world.



ABOUT SCIMAGE Founded in 1993, ScImage remains a private, customer first company with a mission to provide innovative enterprise imaging solutions to the healthcare industry. ScImage’s unique single database PICOM365 enterprise platform delivers end to end imaging workflow for Cardiology, Radiology, Women’s Health, Orthopedics, Ophthalmology and more. Scalable from a single physician practice to a multi hospital enterprise, PICOM365 is customizable and can be delivered on premise, in the Cloud, or as a hybrid. The perfect synchrony created between on site and Cloud resources allows PICOM365 to provide secure VPN less image exchange solutions among legacy silo systems, Cloud users, and various EHR systems.

Learn more at
www.scimage.com.

