MACH7
TECHNOLOGIES

Yuma Regional Medical Center Solves Diagnostic Challenges through Reconstructed PACS

YUMA REGIONAL
MEDICAL CENTER

Yuma, AZ is the sunniest place in the world, with an average of just six cloudy days annually. With this amount of sun and its warm, dry climate, it's no wonder Yuma is an increasingly popular destination for retirees to stay during winter months or year-round. Called "snowbirds" by locals, their presence creates unique challenges for hospitals and care facilities, like Yuma Regional Medical Center. Getting a patient's medical history and prior images is not always easy, especially when their medical home could be located in another state or even Canada. Yuma's PACS and other diagnostic imaging systems were no longer able to keep up with their patients' needs, and they began looking for innovative solutions. They found that solution with Mach7.

The challenges

Yuma Regional Medical Center's PACS and other diagnostic imaging systems were no longer able to keep up with their patients' unique needs, so they were looking for a unique solution. Fortunately, Mach7 was able to provide the solution that addressed current and forecasted challenges for this growing regional medical center, which included:

Improving image access

Yuma's large population of snowbirds made it difficult to share patient records with doctors across state and even country lines. This barrier meant patients often didn't have easy access to their medical data from Yuma when they returned home for the summer. Was there a way of enabling access to patient health data by doctors outside of the enterprise?

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The flexibility that Mach7 has provided us is finally letting us do the things that we've always wanted to do, as far as patient portals, transferring images, and being able to store studies from outside facilities goes. It's all really nice.

– Danny Ponce, Enterprise Imaging Analyst

> " The thing about Mach7 that we really like is that they're very responsive with support, whether it's over the phone, through submitting a ticket online, or even sending an email directly to our assigned engineer that works with us every day.

– Ali Sangerman, Enterprise Imaging Analyst

Reducing bottlenecks
Yuma had an influx of CDs from many different facilities and found uploading all of them using their existing system a tedious, time-consuming process which created a bottleneck in patient care delivery. Was there a faster, more effective way to import the data from CDs into their system?

Decreasing costs
Yuma required many separate workstations to handle their CDs because of the amount of time it took to import them. With each workstation requiring periodic maintenance, taking up space, drawing power, and needing specialized software specific to capturing modalities to read the images, ongoing costs to the system were high. Was there a way to consolidate importing workstations and decrease costs?

The solution and results

Diagnostic solutions powered by the Mach7 platform were implemented at Yuma Regional Medical Center, with the goal of resolving all challenges and building a foundation for the organization to support its growth and evolving needs. With Mach 7 diagnostic solutions, including Universal Workstation Access and our VNA along with reconstructing their PACS, the organization recognized the following outcomes:

1. Cost savings. CDs are no longer required to transfer images from a modality to a workstation, and modalities no longer require specific software for the images captured to be read. In addition, image storage, access and retrieval were streamlined, decreasing redundancies and physical space needed for workstations and storage.

2. Increased productivity. With universal workstation access, workflows and image interpretation are streamlined, and bottlenecks virtually eliminated.

3. Improved patient care and provider satisfaction. With access to images at any workstation in the enterprise as well as on mobile devices, all providers on the patient care team are armed with the information and images they need to treat the patient when and where needed. As a result, providers are now able to share and access data readily, decreasing frustration, increasing productivity and improving patient outcomes.

> " After implementing Mach7, we're able to give physicians access to images via their iPads and mobile devices at the hospital, at home, or wherever they're on call. Being able to get ahold of them and have them access the images really speeds up the time of care for the patient.

– Brian White, PACS Administrator