Case Study: Sharp and Children's MRI Center, LLC

Sharp and Children's MRI Center, LLC was founded in 1986 by Sharp HealthCare and Rady Children's Hospital, and San Diego Imaging Medical Group (SDI) to provide comprehensive diagnostic imaging for children and adults. The MRI Center is dedicated to providing the highest levels of service in a relaxed, caring, and supportive environment. It has become one of the few diagnostic imaging centers in the San Diego area to offer the comfort of anesthesia for both infants and children. Unlike open or standing MRI devices, its conventional imaging technology provides first-time high quality image results. The MRI center is an accredited facility by the American College of Radiology.

Sharp and Children's MRI Center is located within Sharp Hospital Campus	*Sharp and Children's MRI Center 7901 Frost Street San Diego, CA 92123*	*MRI Center's Patient Registration Room*	*Dr. Russell Low is the Medical Director and Board Certified in Diagnostic Radiology*

Customer's Need for Speed

On the last evening of RSNA 2008, Dr. Russell Low was ambling its outer boundaries and encountered KJAYA Medical. He was very impressed with a demonstration in which VoXcell® rapidly retrieved huge data sets over an Internet connection that also provided advanced 3D manipulation.

Back at Sharp, Dr. Low's fundamental and most frustrating problems were exemplified by the long lag-times inherent in retrieving studies such as a 971-image MR study, using a cable modem connection and pre-existing diagnostic viewing, which took no less than 8 minutes. Dr. Low had experimented extensively using various compression settings but retrieval times had remained totally unsatisfactory. Time constraints provided impractical barriers to radiologists and referring physicians accessing diagnostic studies remotely, on-demand.

In Dr. Low's mind, VoXcell® presented itself as an opportunity to improve patient care by providing any physician with a web access to diagnostic quality views of medical scans.

Technical Analysis

KJAYA Medical's initial challenge was to integrate seamlessly in to the MRI center's workflow. This needed to be done without permission of, interaction or interference with, the work of the then existing Picture Archiving and Communication Systems (PACS) systems. The integration also required security and privacy of Protected Healthcare Information (PHI) to stay safeguarded.

From May through August 2009, KJAYA Medical fully developed all prerequisite systems and completed integration. Simultaneously, KJAYA developed its web based universal router with the ability to interface with any and all DICOM compliant PACS. Using KJAYA's router, Dr. Low thereafter selected complex desired cases from pre-existing PACS and viewed those studies using VoXcell®. KJAYA's team continued to work closely with Dr. Low to implement his every clinical application requirement.

As the relationship progressed, KJAYA Medical's analysis concluded that then-existing bandwidth performance and then-existing MRI center environment storage capabilities had limitations that would have led to significant capital expenditures needed to expand Sharp MRI center technical resources.

VoXcell® – the Solution

In May, 2010 KJAYA Medical proposed its Managed RIS PACS 3D platform to be used to facilitate Sharp MRI center in meeting its current and planned medical imaging expansions. Dr. Low test drove KJAYA's web portal from the comfort of his home, using a standard cable modem. His reaction to KJAYA performance, "It is incredibly fast!"

Benefits

Mr. Keith Prince (CEO of Sharp MRI Center) and Dr. Russell Low visited KJAYA's data center location in San Diego, California. They were impressed by the security and privacy afforded by the *SAS 70 Type II* audited facility.

Utilizing KJAYA's *Cloud* infrastructure could eliminate onsite hardware equipments as well as contributing to total redundancy solutions, unlimited storage, and archiving capabilities.

Additionally, VoXcell is cleared as a diagnostic device via FDA 510K number K081215 and is accessible on-demand anytime, anywhere there's web access.

Sharp and Children's MRI center has decided to use KJAYA Medical's centralized platform, beginning September 2010.

KJAYA
M3DICAL

One Stamford Plaza
263 Tresser Boulevard, 9th Floor
Stamford, CT 06901
www.kjayamedical.com