

CASE STUDY - Marlette Regional Hospital

INFINITT Cardiology Suite with integrated Corridor4DM software Enables Remote Reading of Nuclear Medicine Studies at Marlette Regional Hospital

Marlette Regional Hospital (Marlette, Michigan) is a critical access hospital located in the heart of the Thumb Region of Michigan. Getting it's start as a community hospital, MRH has been caring for residents in the region for over 60 years, expanding their range of health services and state-of-the-art technologies, with medical imaging playing an important role in patient care.

Marlette is committed to using the latest technology, and ensuring patients and providers receive accurate and timely test results, close to home. MRH implemented the INFINITT PACS in their Radiology department in September of 2009. From there, they added our turnkey service plus INFINITT Cardiology Suite, INFINITT RIS, and INFINITT Mammo PACS. In 2016, Marlette was looking for a Nuclear Medicine application that would assist physicians with their assessment of a patient's cardiac health, all within INFINITT's Cardiology viewer.



THE CHALLENGE

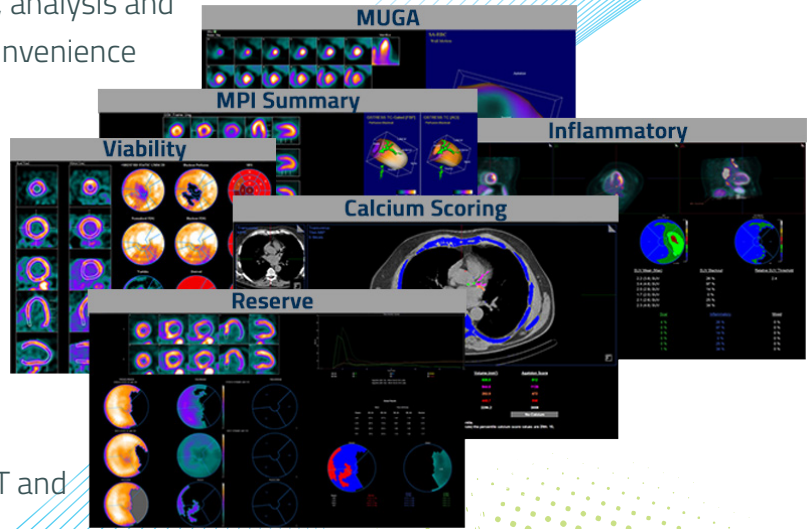
One of the biggest challenges Marlette faced in their Cardiology department was the need for the Cardiologist or Radiologist to read Nuclear Medicine studies on a dedicated, onsite workstation. When reading remotely, they would have to interpret the studies based solely on screenshots provided by the technologists, without the ability to manipulate the data. As a result, there were times they would have to ask the technologist to reprocess the study, leading to a significant drop in technologist productivity.



Another problem was that all processing was done on the same computer that acquired the study, so it became a bottleneck when trying to do processing and acquisition at the same time. They wanted an application that would enable them to review Perfusion, Function, Viability, Flow, Inflammation and Calcium data from within the Cardiology PACS, and to report and sign off with electronic signature.

THE SOLUTION

INFINITT Cardiology Suite is a comprehensive software package that integrates all cardiovascular data into one solution, streamlining image management, analysis and reporting. The web-based system offers the convenience of remote viewing and approval. An advanced integration with INVIA's Corridor4DM enables Nuclear Cardiology post processing, review and reporting capabilities from any workstation. Physicians are able to quantify, review and report on EKG's, Myocardial Perfusion, Function, Viability, Amyloidosis, Sarcoidosis, MUGA, Myocardial Blood Flow & Reserve, and Calcium Scoring studies for SPECT and PET datasets.



Corridor4DM's highly configurable interface provides physicians the ability to modify screens and workflows, as well as to build their own clinical workflows to streamline image interpretation.

THE RESULTS

Dr. Huffaker, the leading cardiologist at MRH has been pleased with the convenience. "I can read from anywhere-- my home computer and the computers in either of my two office locations-- with the web client that is provided. Being able to read remotely from anywhere is very valuable," he explained.

According to Rebecca Vislosky, Diagnostic Imaging Manager at MRH, the integration of Corridor4DM with INFINITT Cardiology Suite also streamlined their results and reporting for greater reproducibility and compliance with ICANL standards. The structured report allows the tech to fill in some of the report and this helps to cut down on reading time. Results files and reports archive to INFINITT Cardiology Suite for easy access. More study information is available to the reader due to the greater volume of data that can be sent, stored and recalled from the reading workstation.



In addition, the integrated solution allows for reader manipulation at reading workstations, freeing up tech time and eliminating the bottleneck at the Nuclear Medicine acquisition workstation.

"Image quality and attenuation correction are great. Being able to read remotely and manipulate the data if needed is very beneficial," added Tyre Jones, MD, Radiologist at MRH.