

# Memorial Hermann Manages High Volumes of Imaging Data with IntelShare VNA



"Ambra\* allows us to manage high volumes of image data in the most efficient way possible."

\*Ambra is a previous product name for IntelShare VNA

-David Bradshaw  
Chief Technology Officer  
Memorial Hermann

## Key Metrics



**IntelShare VNA™ connects over 100+ external sending sites to the main campus**



**Business continuity for 2.2 million studies per year**

## Summary

Memorial Hermann is the largest health system in Southeast Texas with over 16 hospitals and 200 specialty facilities. With rapid growth across its wide network, and CDs still acting as a core method of image exchange, Memorial Hermann faced challenges surrounding efficiency and risk. Today, with IntelShare VNA, over 100 external sending sites are connected to its main campus through Gateways, for receiving trauma and general referrals from external PACS systems in real-time. IntelShare VNA has also image-enabled a system-wide EHR and separate outpatient EHRs leading to a reduction in duplicate imaging exams, improved ACO quality metrics, and a preservation of critical patient data across the network. Additionally, business continuity for 2.2 million studies per year in case of PACS service interruption has now become a reality with IntelShare VNA.

## Benefits with IntelShare VNA:

- Access to imaging across wide network through the web
- Cloud VNA acts as imaging back-up in case of PACS failure
- Image-enablement of inpatient and outpatient EMRs
- Improvements in trauma & telestroke time to care delivery

## Overview

- Largest health system in Southeast Texas with 16 hospitals and over 200 specialty facilities
- Over 5,500 affiliated physicians and 24,000 employees
- Level 1 trauma center powering mobile stroke unit
- Largest HIE in region

## Challenges

- Rapid growth from inbound trauma referrals
- Risks associated with on premise image management
- Integration and exchange with outside physicians and patients

## Solution

- Anytime, anywhere access from any Internet connection
- Business continuity for 2.2 million studies per year
- Universal viewer across inpatient and outpatient EMRs
- Improved ACO quality metrics by reducing redundant imaging

# Key Benefits

## Anytime Access & Viewing

Powered by the cloud, IntelShare VNA enables medical image uploads from a myriad of sources. Admissions staff save time with the easy-to-use one-click CD uploader and can automatically upload imaging directly from the EHR. IntelShare VNA also performs both automated and semiautomated processes to match incoming studies to local orders for imaging based on basic patient information.

## Image Enabling EHR

IntelShare has image enabled inpatient and outpatient EMRs including eCW, Cerner, Allscripts, and Epic within the Memorial Hermann network.

“Bridging the gaps between the EHR and other systems is a complicated yet essential piece in the creation of full interoperability between a health system and its ever-growing network.”

-David Bradshaw  
Chief Technology Officer  
Memorial Hermann

IntelShare image-enables industry leading EMR and EHR systems, allowing the unification of patient health records and management of imaging directly from within the patient jacket. In addition, orders involving imaging can be placed, processed, viewed, and completed from within the EMR or EHR.

Memorial Hermann also began sharing images with patients as part of the Medical Image Exchange network (MHIE) initiative, image enabled by IntelShare.

IntelShare has championed the conversation for HIE in the Houston region, by encouraging connectivity and participation between Greater Houston Healthconnect and the MHIE Gateway.

## Cloud VNA

In addition, Memorial Hermann has backed-up over 2.2 million studies per year in the IntelShare VNA, creating the ultimate disaster recovery solution. The cloud-based IntelShare VNA provides a flexible framework over the Internet in which images can be transferred, viewed, and patient imaging and data can be joined together. A system user can then access images in need of emergency from anywhere and anytime, including on mobile devices and tablets.

## Trauma & Telestroke Use Cases

Memorial Hermann is the largest high volume trauma center in the US with thousands of studies generated each week. Patients arriving from outside facilities frequently carried CDs that were lost, broken, or otherwise unreadable, further delaying care.

Today, CDs are almost a thing of the past as Memorial Hermann receives imaging through IntelShare Gateways from over 100 sending sites, putting critical data in physician hands even before the patient arrives.

The John P. and Kathrine G. McGovern Medical School at UTHealth, in partnership with Memorial Hermann - Texas Medical Center and powered by IntelShare's image management platform, unveiled the country's first mobile stroke unit.

A computed tomography CT scanner that is on board the ambulance allows mobile stroke unit teams to quickly assess whether a patient is having a stroke caused by a blood clot, and, if so, administer clotbusting medications.

### About Intelerad

Intelerad is a global provider of medical imaging solutions that help streamline the flow of information while simplifying complex processes and maximizing efficiencies for medical professionals. Intelerad's robust imaging technology empowers confident decision-making, improves access to critical health information, and gets patients the answers they need faster. For more information on Intelerad and its leading technology solutions, visit [intelerad.com](http://intelerad.com) or follow the company on [LinkedIn](https://www.linkedin.com/company/intelerad).