

GE Healthcare

# Get To The Heart Of Your Cardiology Workflow

Only with Centricity<sup>®</sup> CARDDAS Xi<sup>2</sup>





## Centricity® CARDDAS Xi<sup>2</sup> – Your Cardiology Clinical Workflow Enabler

Centricity® CARDDAS Xi<sup>2</sup> is a comprehensive array of tools that serve as the focal point for all data and information management within the cardiology department.

From streamlining workflow, tracking inventory stock and creating clinical reports to running clinical and administrative queries on department data, Centricity® CARDDAS Xi<sup>2</sup> functions as a robust bridge between cardiology modality devices (invasive, non-invasive, ultrasound) and the healthcare information system, ensuring efficiency and accurate diagnoses.

In addition, Centricity® CARDDAS Xi<sup>2</sup> is built upon a modular architecture, giving it great adaptability to work the way you do so that you can focus on what matters most – your patients.

### What Can Centricity® CARDDAS Xi<sup>2</sup> Do For You

Centricity® CARDDAS Xi<sup>2</sup> comes with numerous features that help you and your healthcare organization navigate through today's complex cardiology workflow with ease.

Its capabilities as a cardiology IT hub spans myriad tasks from patient management, workflow management, department management to documentation and reporting management, allowing clinicians and hospital administrators alike to work with improved productivity and efficiency.

With Centricity® CARDDAS Xi<sup>2</sup>, you are assured of a robust, reliable platform for your clinical workflow.

### Hear What Our Satisfied Customers Have To Say!

#### Tesseikai Neurosurgical Hospital

Tesseikai Neurosurgical Hospital was founded 20 years ago as a neurosurgical hospital in Shijonawate City, Japan. Although Tesseikai Neurosurgical Hospital serves as the city's main medical facility with 305 beds, it is best known for its Neurosurgical and Circulatory Organs departments, which were created only recently.

## Challenges

As modern medicine become increasingly specialised, the hospital needed to keep updated in terms of modern medical technology in order to deliver quality medical care to its patients.

However despite using advanced GE medical instruments and associated network environments in daily practice, the hospital still needed to centralise the management of accumulated data for ease of access and administration.

Additionally, Tesseikai Neurosurgical Hospital needed to upgrade its workflow with a more user-friendly database system in order to best align itself with the internationally popular concept of a “heart center network” for specialised circulatory organ treatment.

## Solution

Centricity® CARDDAS Xi<sup>2</sup> offers a digital workflow that allows Tesseikai Neurosurgical Hospital to deliver highly specialised cardiology diagnoses based on the vast quantities of data that have been accumulated using advanced instruments and networks.

Furthermore, Centricity® CARDDAS Xi<sup>2</sup> permits the centralised management of data by coupling all GE medical instruments, allowing the hospital to construct a network encompassing all of the instruments required in a circulatory organ department to form an ideal cardiology diagnostic system.

## Results

By adopting the Centricity® CARDDAS Xi<sup>2</sup> system, Tesseikai Neurosurgical Hospital has not only improved its cardiology administration, diagnosis and treatment workflow but also refined its team medicine approach in the highly specialised treatment of circulatory organ disorders.

Even with limited staff members along the workflow chain in Tesseikai Neurosurgical Hospital's Circulatory Organ Department, Centricity® CARDDAS Xi<sup>2</sup> has proven its mettle consistently, showing that while the face of medicine changes rapidly, the strategic deployment of technology can allow doctors to keep up with the pace and come up tops in the delivery of quality medical care.

## Kanoya Heart Centre

Established in October 2006 by Dr. Hidekazu Arai, the Kanoya Heart Center aims to deliver quality medical care similar to service levels in large hospitals at major Japanese cities while contributing positively to a healthy and sustainable future through cardiac disease treatment in Osumi. To date, the Kanoya Heart Centre is a state-of-the-art heart centre structured specially around the needs of cardiac patients who look for specialized treatment with high quality levels.

## Challenges

Dr. Hidekazu. Arai wanted to set up a heart center that offers Percutaneous Coronary Intervention (PCI) to patients in rural Osumi.

In doing so, Dr. Arai had to figure out a management system where he was the only doctor working with a small number of staff without compromising on medical service quality.

*“Centricity® CARDDAS Xi<sup>2</sup> allows us to perfect our team approach to medicine by giving our doctors the ability to view the various modality images through a centralised network regardless of whether they are in the hospital, enabling a comprehensive diagnosis of the patient's clinical condition.”*

- Dr. Akihiro Shirasaka

Additionally, Dr. Arai had to contend with medical staff who were generally untrained in specialized circulatory organ treatment.

## Solution

Centricity® CARDDAS Xi<sup>2</sup> offers a digital workflow that allows Dr. Arai's Kanoya Heart Center to operate with a reduced number of staff yet offer specialized medical services at comparable quality to larger hospitals.

Furthermore, the Centricity® CARDDAS Xi<sup>2</sup> system allows all information to be shared amongst the Kanoya Heart Center's co-medical staff, compensating for their lack of prior experience in circulatory organ treatment and accounting for an accelerated pace of skill acquisition.

## Results

In essence Centricity® CARDDAS Xi<sup>2</sup> allowed Dr. Arai to reduce labour costs and maximise space efficiencies through the innovative use of IT.

The ease of use of Centricity® CARDDAS Xi<sup>2</sup> also allows Dr. Arai to carry out staff training even whilst on the job, greatly reducing the learning curve for Kanoya Heart Center staff.

However the most critical benefit that Centricity® CARDDAS Xi<sup>2</sup> delivered was human-friendly IT that boosts the efficiency of the doctor such that more quality time can be spent with patients, which ultimately translates to the improved patient service that Dr Arai is looking for by setting up the Kanoya Heart Center.

The success of Kanoya Heart Centre's Centricity® CARDDAS Xi<sup>2</sup> deployment was also firmly evident in the fact that the Center not only showed a steady increase in patients within two months of its official inauguration, but also turned around its operations fully to become profitable in the same period.

*"I have never heard of any other centers attaining profitability in just two months. Most are still pumping money into the operation at that stage. This is proof that both initial and ongoing employment costs have been successfully reduced through the adoption of Centricity® CARDDAS Xi<sup>2</sup>"*

- Dr. Hidekazu Arai

## Centricity® CARDDAS Xi<sup>2</sup> Features At A Glance

### Patient Management

- Delivers a comprehensive view of the cardiac history of your patients. Combined with a highly scalable architecture, Centricity® CARDDAS Xi<sup>2</sup> is infinitely open to all of the current and future possibilities of PACS.
- Drill-down through the exam history to previous cardiac examinations, exam findings, and reports.
- Consolidate all patient information, including critical patient alerts, medical history, demographic information and a comprehensive phone log for all patient-related communications.
- Launch third-party web applications with a configurable patient context-sensitive URL link.

### Workflow Management

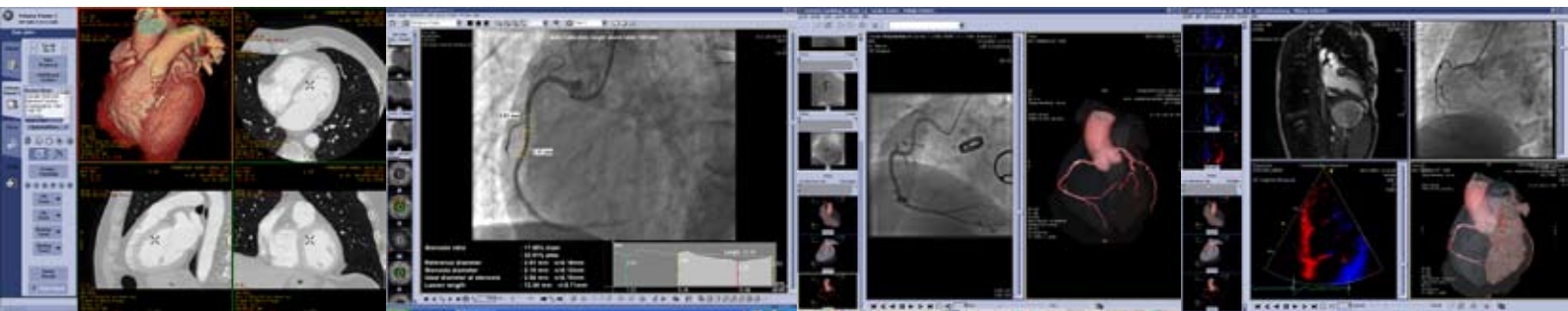
- Enjoy scalable and flexible workflow management.
- Experience flexible exam level management.
- Boost efficiency with HL7, XML, and custom Import and Export modules.
- Leverage intuitive usability through GE Common User interface design.
- Optional admissions level management module.

## Documentation and Reporting Management

- **Documentation** - Select from an array of Centricity® CARDDAS Xi<sup>2</sup> clinical modules for comprehensive documentation across the entire cardiology department – including invasive, non-invasive, and echo cardiology modalities.
- **Flexible Documentation Content** - Maximize data content and workflow flexibility by defining which clinical forms and ordering best suit the department's requirements. Select from clinical interfaces for automated form population. Data may also be manually entered for information such as clinical history or risk factors.
- **Reporting Flexibility** - Create unlimited report templates, pulling ANY information from the database into a comprehensive patient report. Additionally, reports can be published to GE's Centricity® Web, for viewing anywhere within the hospital.

## Department Management

- **Scheduling** - Manage patient appointments, staff, resources, room availability, and staff meeting with greater efficiency.
- **Inventory Management** - Expand beyond tracking supply use in the department, with order creation, delivery confirmation and low-stock level indicators. Combined with GE's Mac-Lab or Cardiolab IT offering, the inventory module becomes a powerful tool to automatically capture and record materials used by serial number in the inventory database.
- **Query Builder** - Create complex queries easily with multiple data dependencies and filters, which can be saved and rerun. This powerful option allows access to ANY data in the entire database.



## Centricity® CARDDAS Xi<sup>2</sup> – Minimum System Requirements

### Client

- **Hardware** - 2.0 GHz processor, 512 MB RAM, 20 GB HDD, 100 MBit network connection.
- **Software** - Windows® 2000 / XP Professional.

### Server

- **Hardware** - 1.0 GHz Intel® Xeon® processor, 1 GB RAM, 18 GB RAID for operating system with RAID or data disks. Small 18 GB / Medium 36 GB / Large 72 GB / Extra large 90 GB.
- **Software** - Windows® 2000 Server or Windows® 2003 Server / Enterprise Edition, Gupta® SQL DB.

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