Wadi El-Neel Hospital sees the full picture

TelePax solution helps improve patient care, and cut costs

The Hospital

Wadi El-Neel Hospital (WNH) is recognized as one of the largest healthcare provider in Middle East.

WNH operates, annually, about 800 kidney transplantations, 178 liver transplantation, and hundreds of Endoscopic nephrectomy.

Each year, more than 120,000 patients use WNH’s comprehensive acute care and outpatient services.

Medical Imaging

Wadi El-Neel Hospital (WNH) makes full use of advanced medical imaging technologies, including Magnetic Resonance Imaging (MRI), 16-slices CT, Catheterization lab, ultrasound, and conventional radiography.

Outside the Radiology department, WNH utilizes other medical technologies including Ultrasound in Ob/Gyn, Endoscopes and Microscope, and Ophthalmology units.

Project Objectives

Professor Dr. Hassan Sabry, Managing Director at WNH, remarks: “Our primary objective in installing the PACS was to improve the sharing of images between different medical teams, by making it possible to call up existing images on computer terminals throughout the hospital.”

Mr. Naguib El-Hadidy, Chief Technology Officer at WNH, adds: “The final goal is to have a single electronic record for each patient, enabling medical staff to access all information and images rapidly and easily.”

Mr. Mohammad Saed, the Technical director at WNH, remarks: “We selected Healthy-IT because its solutions was the most compelling one considering services, training, complying with international standards, in addition to the added-value services.”

The solution

WNH selected Healthy-IT solutions because WNH wanted to work with a company that specialized in PACS and displayed a commitment to providing customer service.

In Healthy-IT, WNH found a flexible, affordable Web-based PACS that integrated tightly with their existing (HIS/RIS) information system.

WNH radiologists using TelePax suite have realtime access to see the status of studies performed at the different locations, sorted by various metrics such as location, department, modality, and even individual device.

The Result

Healthy-IT proved the best fit because of its proven capability of integration, and capability to provide WNH physicians with a Web-based PACS that easily scales as their needs demand.

WNHs’ imaging services transformed from encumbered with restriction, to empowered with choices and flexibility, all fueled by Telepax™ suite.
Project Factsheet

The Challenge
Wadi El-Neel Hospital (WNI) need for a streamlined image management system came to the forefront due to the recent expansion of their existing Outpatient.

The Right Solution
Healthy-IT was selected because its solutions was the most compelling, services, training, complying with international standards, in addition to the added-value.

Healthy-IT provided a complete suite of products and services that allows physicians and healthcare professionals to manage, access and visualize medical images from several specialties, such as neurology, orthopedics, and cardiology, across an entire enterprise.

The benefits
“With PACS, doctors can use any terminal they choose to analyze any type of image, which is a major advantage.” says Professor Dr. Intesar Shokry, Head of Radiology department at WNI.

Professor Dr. Ahmad Abdul-Aziz, the Head of Catheterization Department at WNI, says: “Some procedures require several daily scans to check the progress of treatment. The TelePaxSM makes the images available much more rapidly, helping our medical staff to get the information they need in time.”

Professor Dr. Ibrahim Moustafa, head of Endosurgery department, says: “The TelePaxSM solution is very reliable and easy to manage, and the workstations offer great performance.”

Customer care
To ensure smooth daily operations, Healthy-IT provides full customer support through the PNMA system, a dedicated resident engineer, in addition to the online support that is available from Healthy-IT at any time by entering service tickets via a secure website or via a dedicated

PACS server
A cluster of two IBM servers (xSeries 356) running the TelePax-Store™ is the core of PACS system, handling all requests of the DICOM network. The core system is fully redundant and load-balanced.

Core Storage
Patients’ studies, images, and information are stored on IBM SAN storage system connected to all server-clusters to ensure high-availability and fast access.

IBM TotalStorage 6TB Tape Library is installed to provide a solid backup of all images and information.

Acquisition
As part of the total solution, acquisition stations was provided for the non-DICOM modalities.

A TelePax-AQS™ application is used for the acquisition process, providing Modality worklist, and integration with hospitals’ HIS/RIS system.

A film digitizer (www.icad.com) is provided for scanning old films.

Viewing
IBM IntelliStation, with full set of Medical monitors (3MP), running the TelePax-DVS™ application, Professional edition as the diagnostic viewing station.

For diagnosis, Medical monitors are provided by both Barco (www.barco.com) and Planar (www.planar.com) in reading rooms.

Image Distribution
TelePax-Web™, the web-based PACS, is used across the hospital for image distribution, providing fully-featured diagnostic tools.

TelePax-Web™, is running on a cluster of two IBM servers xSeries 346 with direct-access to images on the core storage, and allowing physicians to use regular PC and Internet Explorer to access their studies and images.

More Information
For more information about TelePax suite, please visit www.telepax.info
For more information about training programs, please visit: www.pacsacademy.org
For more information about Healthy-IT LLC, solutions, and services, please visit www.healthy-it.com

Disclaimer
- Healthy-IT, the Healthy-IT logo, TelePax, and the TelePax logo are trademarks of Healthy-IT.
- All other trademarks are held by their respective owners and are used in an editorial fashion with no intention of infringement.
- Healthy-IT and other companies are separate companies and each is responsible for its own products. Neither Healthy-IT nor any of them做出 any warranties, express or implied, concerning the others’ product.
- Healthy-IT diligently strives to provide as accurate information as possible, but shall not be responsible for any typographical error.
- All customer examples cited represent how some customers have used Healthy-IT products and the results they may have achieved.
- Actual environmental costs and actual performance characteristics may vary depending on individual customer configurations and conditions.
- This publication is for general guidance only, and not considered as technical sheet.
- Photographs may show design models.

© Copyright Healthy-IT LLC. 2007 All Rights Reserved.

USA Office
#208
2 Wisconsin Circle, Suite 700
Chevy Chase, MD 20815
Fax: (301) 285-8556

MENA Office
Block J, Area 8
Nasr City Free Zone, Cairo, Egypt
Bus: +20 (2) 8678 8702
Fax: +20 (2) 8679 8899

www.healthy-it.com