



## NEWTON-WELLESLEY HOSPITAL

### **Department Adds New MR Upgrade August 2009**

Newton-Wellesley Hospital's Radiology Department has successfully completed its MRI upgrade. The new Signa HDx 1.5 T MR upgrade from GE Healthcare delivers highly detailed images of the human body with increased speed, better resolution and unique applications. This upgrade offers the MRI Department one of the most advanced diagnostic tools for helping physicians obtain accurate diagnosis to provide optimal patient care.

"This advanced technology provides shorter exams and greater comfort for patients, while providing higher diagnostic confidence for doctors," says Dave Marchione, Director of Radiology at NWH.

With this significant upgrade to the GE Signa scanner, the MRI Department now offers two state-of-the-art MRI scanners, a 1.5 tesla GE Signa HDX and recently upgraded 1.5 Tesla Siemens Magnetom Avanto scanner, with both magnets providing the newest applications and technologies.

"The Hospital has demonstrated a firm commitment to state-of-the-art technology and service since we took over the MRI program last July," says Jeffrey Greenberg, Medical Director of MRI. "This new MRI upgrade complements the recently performed upgrade on the 1.5 Siemen Magnet and gives our Department two highly advanced units with the most up-to-date applications. As a radiologist, the capabilities and image quality available from these units provides me with a great deal of confidence when interpreting these examinations."

The GE Signa HDx 1.5t is one of the most advanced MR systems available. The streamlined exams increase patient comfort, while the superb image quality delivers outstanding results. The upgrade allows the MRI Department to:

- Obtain high-resolution brain images even in active patients
- Image both breasts simultaneously in one exam, one visit
- Provide 3D imaging of the liver through all of its phases in one patient breath-hold
- Produce renal MRA studies without contrast in patients with renal dysfunction.
- Create vascular MRA studies with high temporal resolution
- Produce superior 3D-volume, high-resolution brain images in one-third the time of conventional scans
- Produce higher resolution spinal and large joint imaging with better visualization
- Assess small joint articular cartilage with greater detail

“I am thrilled that we now have the latest MRI applications designed to deliver more spatial and temporal resolution of 2D and 3D MRI studies available at the Hospital. The team is working hard to tailor these new applications to serve the clinical service communities that make NWH such a center of excellence,” says Dan Silverstone, Associate Medical Director of MRI. “For example, the new multichannel coils dedicated to imaging of specific joints will markedly improve resolution in all orthopedic studies - especially in small joints of the elbow, wrist, hand and foot.”

The Hospital has also invested in new Sentinelle Breast MRI equipment. This specialized breast MRI equipment gives our patients added comfort and access to advanced technology while establishing Newton-Wellesley Hospital as one of the current leaders in breast MRI imaging. With all the recent advancements in technology, the Hospital recognizes the importance of implementing advanced technology to achieve optimal care for our patients.

“The addition of our new breast MRI equipment demonstrates Newton Wellesley’s commitment to remaining at the forefront in providing the most advanced technology to our patients,” says Semine, MD, Chief of Breast Imaging and Medical Director of the Auerbach Breast Center. “This will enhance our ability to provide the best possible breast MRI images while, at the same time, optimizing patient comfort. We will also further improve our ability to perform MRI-guided procedures.”

If you have questions or would like more information, please contact Jil Perlmutter at 617-243-6069 or Ian Quinn at 617-243-5294.