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# Washington Hospital

More information, shorter scan times

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## About Washington Hospital Center

Washington Hospital Center is the largest private hospital in the nation's capital. The not-for-profit Hospital Center, flagship facility of the MedStar Health system, is licensed for 907 beds and, on average, operates at near capacity. Health services in primary, secondary and tertiary care are offered to adult, pediatric and neonatal patients. Founded in March 1958 when three specialty hospitals merged into one, the Hospital Center shares a 47-acre campus in Northwest Washington, D.C., with three other medical facilities. It consistently ranks among the nation's top hospitals as measured by entities such as U.S. News and World Report, Money, Consumer Checkbook and Solucient.

## More information, shorter scan times.

Ultrasound patients will now spend less time at their appointments and get a more confident diagnosis thanks to state-of-the-art technology and a versatile new imaging protocol being used at Washington Hospital Center. The **LOGIQ® 9** ultrasound system and **LOGIQworks™** ultrasound workstation from GE Healthcare along with GE's **Volume Imaging Protocol (VIP)**, can allow doctors to perform precise advanced imaging in less than half the time of conventional imaging. The technology also reduces the likelihood that a patient will need to return for additional scans.

The LOGIQ 9 system is designed for abdominal, gynecological, neonatal, vascular and small parts imaging. LOGIQworks is an ultrasound IT solution that uses GE Healthcare's exclusive LOGIQ software and proven Centricity™ multi-modality DICOM workstation to give you a single, integrated system. VIP is a method of scanning on a LOGIQ console which uses volume data sweeps which can image an entire organ in a matter of seconds. This data is sent via DICOM to a LOGIQworks workstation, enabling 3D "virtual rescan" in any plane of the raw data volume set. Typically, with VIP, the exam involves one breath hold, one sweep, and a simple push of a button, and the system acquires all pertinent information, as a volume 3D raw data set.

Four LOGIQ 9 units and one LOGIQworks station have been installed at Washington Hospital. Purchasing the LOGIQ products and adopting VIP in 2005 was "a huge step forward," said Michael Smith, M.D., the Hospital Center's radiology ultrasound director. "Previously, it took 30 to 40 minutes to perform an ultrasound exam. Many exams can now be completed in less than 15 minutes, significantly reducing the length of the exam for our patients, subsequently reducing patients' wait times and opening more slots for appointments. It's all positive for the patient and the caregiver."

In addition to the speed of the scans, GE's revolutionary Volume Imaging Protocol allows real-time reconstruction of previously stored three-dimensional information. On the LOGIQworks workstation, radiologists can manipulate the images anytime, even after the patient has gone home. That is not possible with traditional ultrasound techniques. "We can navigate and reconstruct the actual raw ultrasound data that was collected, allowing physicians views of the anatomy that are not obtainable in traditional 2D scanning," said Smith. "We can rotate, zoom, measure, colorize, and obtain multiple views of any organ without having the patient in front of us. If we see something interesting or questionable, we can virtually rescan by re-examining that volume of information in real time on the LOGIQworks. There's less need for the patient to wait or to be brought in for repeat scans if other views are needed."

VIP also provides a number of non-traditional views never realized with traditional 2D ultrasound. Multi-planar view, allows clinicians to compare several different perspectives of an organ at once. For example, coronal (C) plane viewing can allow visualization of the imaging plane parallel to the skin which cannot be seen using conventional 2D ultrasound. Because the data is stored and can be recalled and analyzed at any time, the virtual rescan technology enables the Hospital Center to provide patients with multiple expert opinions without calling them back for several office visits. "We can make clinical decisions with unprecedented confidence," said Dr. Smith.

LOGIQ 9 and LOGIQworks in combination with VIP adds tremendous value in this environment of clinical excellence. The Hospital Center is the only facility in the Washington metropolitan area, and one of a few hospitals on the East Coast, using VIP in their radiology department. The Washington Heart program at the center is a national leader in the research, diagnosis and treatment of cardiovascular disease. The neurosciences program offers the full range of surgical and minimally-invasive treatment and operates the only JCAHO accredited primary stroke center in the District. The Washington Cancer Institute provides the latest in cancer treatment and therapies and access to cutting-edge clinical trials.

