

# Florida Hospital Celebration Health Imaging Center



## About Florida Hospital Celebration Health Imaging Center

The Florida Hospital Celebration Health Imaging Center (Celebration, Florida, USA) provides a full range of high quality imaging services. Through strategic relationships with the world's leading technology providers like GE, the Center provides the very latest technologies and procedures at the leading edge of patient care.

The Center conducts more than 750 ultrasound examinations per month on average, using 2 LOGIQ 9 and 1 Voluson system, as well as the LOGIQworks workstation from GE. The Florida Hospital has a total of five LOGIQ 9 and three Voluson systems shared between 7 campuses. The Center uses no film and operates in an all-digital format to optimize the speed and quality of the diagnostic care they provide to patients.

## Imaging Center reduces exam time by 60% using Volume Ultrasound

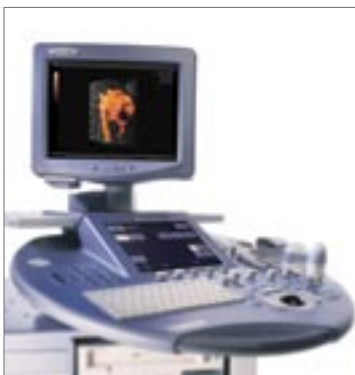
The Celebration Health Imaging Center recently conducted a study using a unique Volume Imaging Protocol (VIP) in a variety of cases including breast, testicular, thyroid, pelvic, renal and abdominal exams. The Center used VIP with 30 patients and compared the exams to traditional scan techniques, resulting in 60 to 70% lower exam times in all cases, according to JP Moreland, Senior sonographer with Celebration Health.

*“One Saturday I scanned 26 cases by myself, which normally takes three technologists to do in the same time. I completed five ICU portable exams in 20 minutes. In addition to the speed of the exam, I was able to demonstrate some pathology in the cine images that I was unable to see well during the real time scan.”*

“In a best-case scenario, the ability to increase patient volume by 50% or more could lead to a significant potential increase in revenue,” states Sally Grady, Director of Imaging Services

## Eliminating questions

In addition to improving exam efficiency, the VIP demonstrated significant clinical benefits, according to Brad Uricchio, M.D., Medical Director for Celebration Health Imaging. “The technique produced a dynamic, real-time look that virtually eliminated any questions of missed information,” he says. “Historically, the radiologist had to depend on the sonographer’s impression and trust that all pertinent images were taken. With VIP, the information obtained is substantially more comprehensive.” As a result, the Center radiologists requested fewer re-scans, Uricchio concludes.





According to Sally Grady, Director of Imaging Services, the raw data technique enabled Celebration Health Imaging Center to:

- Reduce ultrasound study time by 60 to 70%
- Increase radiologists' confidence in the quality of the exams
- Reduce the number of re-scans
- Decrease the potential for stress-related injuries among ultra-sonographers
- Improve staff and patient satisfaction

### **Saving time, increasing satisfaction**

The speed of the Volume Imaging Protocol was noticeable even to the patients, says John Moreland. "Many remarked on how incredible it was to have their exams completed so quickly." The speed and ease of VIP studies enabled sonographers to spend more time with patients and offer an increased level of personal service to the patient says Sally Grady. It also gave them more time to prepare for pending examinations and complete study follow-through. All of these outcomes, translate into improved customer service and satisfaction.

### **Addressing job-related injuries**

Although not measured directly, the study also suggests that VIP may play a role in decreasing the potential for work-related injuries among sonographers. "This is a huge problem," says Moreland. "Studies show that 8 out of 10 sonographers suffer stress related job injuries during their careers, and half are unable to return to the profession. Older sonographers are particularly vulnerable." Reducing the length of exams by 60 to 70% may help sonographers avoid injury and help imaging centers, like Celebration, to reduce the costs and loss of quality associated with replacing experienced staff members.

### **Demonstrating complexity with 3D reconstruction**

The Center uses GE's LOGIQworks workstation to analyze and manage ultrasound exam data. For the first time, LOGIQworks makes 3D a practical tool for ultrasound. One touch of a button enables the transmission of raw image data from the LOGIQ 9 system into the workstation, and reformats the information into volumetric presentations that are intelligible to the referring physician or surgeon.

Combining the workstation's 3D reconstruction tool with the VIP technique further increased diagnostic confidence, according to Grady. "Using our virtual scan capability to pan through the volume of information enabled us to demonstrate areas of complexity even more completely. We had many more angles to work with than would have been possible in a conventional study." Grady also points out that a VIP study gives the ability to not only play a cine sweep of the organ, but includes frame-by-frame images as well.

\*Actual revenues and costs will vary depending on your specific operating costs, numbers and types of procedures performed, and reimbursement amounts. Third party reimbursement amounts and coverage policies for specific procedures will vary by payer and by locality, as well as by type of provider entity.

LOGIQworks is a powerful new workstation that integrates GE's exclusive raw data processing and a proven Centricity multi-modality workstation to provide high-performance processing and image review.

## **GE Healthcare**

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