

GE Healthcare

Hybrid Endourology Solution – a better way.
Maximize Underused Space with
Mobile, MultiUse Technology.



An Historic Hospital Finds a Better Way.

With space at a premium, the Wyckoff Heights Medical Center staff could not afford to use one of their seven surgical suites for urology procedures alone. They found a better way to maximize their space and their time by replacing their outdated room and fixed urology table with mobile, multi-use equipment.

Wyckoff Heights Medical Center has been serving patients in Brooklyn, New York, since 1898. This 350-bed acute care facility has seven surgical suites in which approximately 50 surgeons perform about 4,200 procedures every year. The perioperative services staff consists of 30 people from registered nurses to operating room (OR) techs. However, until two years ago, one of their seven OR suites had severely limited uses. Because the room contained fixed urology equipment, they could only use the room for urology procedures.

Eileen McClean, Director of Perioperative Services at Wyckoff Heights, described the old room. "We had a table that was fixed to the floor," she said. "The X-ray equipment was fixed to the table so it couldn't move." The fixed urology equipment gave the staff access to only one side of the table and one side of the room. In addition, McClean said that even with the fixed equipment, the team still needed additional equipment, such as video equipment, to perform urology procedures. "So essentially by the time we had the patient in the room and the table and all the other equipment, we had no space in the room," she said.

"In two weekends, it was ready"

Two years ago, the hospital team decided to replace the outdated fixed urology equipment with modern, mobile, multi-use equipment. They selected a hybrid endourology solution from the GE Healthcare Surgery Business (GE OEC) that includes an OEC 9900 Elite C-arm, a NuBOOM M2 High Definition visualization system, and an IDI imaging table. Fran Heaney, Chief Operating Officer of Wyckoff Heights Medical Center, said, "When we decided that we needed new equipment, I actually made several trips to other institutions to look at the GE OEC and NuBOOM Solution and I was very impressed with the equipment. We then sat down as a group and decided that for flexibility in the room and versatility in the OR, this [equipment] would be the way we would go."

Careful planning led to smooth and speedy installation. "The planning process took a little bit of time," said Heaney. "We got

together with the surgeons, the urologists, GE OEC, our own engineering department, and plotted out how much time it would take for each phase: removing the present equipment, for the new equipment to be delivered, and the installation. We set a target date, and we planned our work to be done on the weekends. And we made our target without any problem."

McClean was impressed by the limited impact on the OR operations, "The impact was actually a very positive one because we didn't have to close any rooms. We didn't have to close this room down, even." The team completed the installation during two weekends: on the first weekend, they removed the old equipment, and on the second weekend, they prepared the walls, ceiling, and floor for the new equipment and then installed the new equipment.

"In two weekends, it was ready," said McClean.

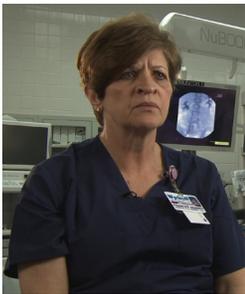
New Solution Doubles Room Utilization

The impact of the new solution has been dramatic and positive. According to Heaney, "Prior to the installation of the new room, the utilization in this particular room was running at about 40 percent. With the installation of this new equipment, we're up to about 80-85 percent utilization."

"Now," Heaney said, "We're able to do many types of procedures from orthopedics to urology to vascular. And if need be we can also use the room for procedures that don't require X-ray." McClean agreed, "Now I can put anything in this room." It also increases flexibility greatly. McClean said, "I can move cases around during the day. If a case is running late in one room and I have space in here and the surgeon is available, I can swing it over to this room."

The new solution has been positive for the surgeons working in the hospital. Dr. Mohan Badhey, Chief of Vascular Surgery and Head of the Vascular Laboratory at Wyckoff Heights, said, "With the new equipment, more and more specialties are using this room and performing more and more procedures, especially a lot of endourologic procedures, which are done better in this environment than before."

McClean said that the new flexibility has been very good for surgeons from practices where multiple surgeons are working in the hospital on the same day, “Now we can have two or three rooms for them to work in, so we can schedule more patients. Surgeons can get in and get out earlier, and it’s better for the patients because we can get them in and out much earlier.”



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— Fran Heaney,
Chief Operating Officer, Wyckoff Heights Medical Center

“My staff loves it!”

“It’s easy to transition between the variety of cases that we do in this room from urology to laparoscopy to endovascular surgery,” said Dr. Gerard Balthazar, one of the chief residents in medical surgery at Wyckoff Heights Medical Center, “It’s very easy to change from hour to hour.” He also said, “The versatility of the room allows for more variety of laparoscopic and open thoracic and abdominal surgeries.”

The ease of transition is especially helpful for the nursing and technical staff. According to McClean, “My staff also likes it because they don’t have to bring extra equipment into the room anymore. Since we removed the fixed equipment from the room, we certainly have a lot more space, and having the boom and the monitors mounted gives us a lot more floor space.”

“My staff loves it!”

—Eileen McClean,
Director of Perioperative Services,
Wyckoff Heights
Medical Center



NuBOOM Monitors Help Surgeons Provide Great Care

The high-resolution monitors on the NuBOOM have increased the visualization ability of Wyckoff Heights’ surgeons during procedures. Badhey said that the monitors “are almost like a 3-D image,” and that the convenience and precision of the equipment “makes our job much easier than it was before.” Balthazar said, “The ability to adjust the screens on the fly allows us to have more versatility and more mobility in our work. If we have to change our angle of approach, we can easily do that by changing the position of the monitors.”

Badhey also commented that the monitors can make patients more comfortable, “I think the mobility of the setup is very important in the sense that it makes the procedures very convenient [to do], and at the same time the patients are at ease with the view of the procedure.”

In addition, since Wyckoff Heights is a teaching hospital, the monitors improve the quality of education for students and residents. “The nursing staff, the teaching staff, they all have a better view of the procedure and details of the procedure,” said Badhey. Balthazar agreed, “The quality of the details certainly adds to our education.”

“The ability to adjust the screens on the fly allows us to have more versatility and more mobility in our work.”

— Gerard Balthazar,
Chief Resident in Medical Surgery,
Wyckoff Heights Medical Center



“I would like to use this room all the time.”

“If given a choice, I would like to use this room all the time,” said Badhey. “I would gladly recommend this to other people.”

“If given a choice I would use this room all the time!”

—Mohan Badhey,
Chief of Vascular Surgery and
Head of the Vascular Laboratory,
Wyckoff Heights Medical Center



Heaney agrees. “I would highly recommend this equipment to anyone looking to change their room. I definitely see such a difference between the fixed equipment and the GE OEC that I would never want to go back to fixed equipment. And I think this is the solution and the wave of the future.”

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Healthcare Re-imagined

GE is dedicated to helping you transform healthcare delivery by driving critical breakthroughs in biology and technology. Our expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, and biopharmaceutical manufacturing technologies is enabling healthcare professionals around the world discover new ways to predict, diagnose and treat disease earlier. We call this model of care “Early Health.” The goal: to help clinicians detect disease earlier, access more information and intervene earlier with more targeted treatments, so they can help their patients live their lives to the fullest. Re-think, Re-discover, Re-invent, Re-imagine.

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