NuBOOM Mobile Imaging System—flexibility and value.
Optimize and Diversify Limited OR Space with a Flexible Hybrid Solution.
Mobility means versatility, and that means better value.

For Middlesex Hospital, operating room flexibility is a necessity that fixed-base equipment cannot provide. Instead, they chose a combination of mobile equipment based around OEC C-arms and a NuBOOM system, which lets them use their OR for vascular procedures as well as many other surgeries.

One of the top 100 hospitals in the nation (as recognized by Thompson Reuters), Middlesex Hospital is a medium-sized, 260-bed community facility in Middletown, Connecticut. The hospital strives to stay at the forefront of technology and excellence; its Center for Advanced Surgery, which includes vascular surgery, is a prime example.

Among the biggest changes in vascular surgery over the past 10 years has been the “endovascular revolution,” the development of minimally invasive techniques to perform surgery. Joseph Coatti, MD, a vascular surgeon, has been in practice at Middlesex for more than 22 years, long enough to have performed surgeries before, during, and after the endovascular revolution. C-arm systems, he said, are gaining popularity as endovascular procedures became common.

Today, Middlesex uses a C-arm system designed specifically for vascular surgery. “A few years ago we revamped [one of our operating rooms] and made it into a hybrid endovascular suite utilizing the NuBOOM system along with the OEC 9900 Elite unit and our power injector,” Coatti said. The OEC system provides surgeons with good image quality for vascular procedures, and the mobile suite combination of products provides versatility in the cases they are able to accommodate.

Maximize value from limited space with a mobile, hybrid solution.

Among the many decisions Middlesex had to make during the revamp of the suite was whether to purchase fixed-base equipment or mobile equipment. “In current economic climates,” Coatti said, “where hospitals are struggling and trying to get the most productivity out of the money they invest, putting in a fixed-base angio suite in an operating room really limits the use of that room to just our specialty.” Instead, the hybrid suite, which includes a floor-mounted NuBOOM, an OEC 9900 Elite C-arm, and a mobile operating table, is usable by not only vascular surgeons but also surgeons from other sub-specialties.
Middlesex Hospital chose the NuBOOM system over a fixed-base boom system for several reasons:

• Low ceilings limit the utility of ceiling-mounted booms.
• The room is used for procedures other than vascular surgeries.
• The NuBOOM costs less than the fixed-base boom units.

As Coatti said, “The entire system was a fraction of the price of a fixed-base unit and offers much more versatility.” In addition, the mobile system had a fast installation that minimized the room’s downtime: “After the planning phase, installation was quite easy. The room was up and ready to go within just several days.”

See it all—high-definition monitors provide superb images and numerous view options.

Coatti and the other members of the vascular surgery team like the clear, flexible NuBOOM monitors and the way they can help their surgeries run smoothly. Their physical mobility is one positive feature—the monitors move freely when they swivel, extend in and out, or adjust up and down.

The ability to route images between monitors is another favorite feature. “You’re able to dial in the image you want to any of the individual monitors,” Coatti said, “anything from the workstation of the C-arm to PACS images of CT angios, or MRIs to the patient’s vital signs from the anesthesia station. All of those are easily manipulated between monitors with just the touch of a button.”

Image quality is an all-important feature. Coatti said the image quality of the 24-inch high-definition NuBOOM monitors is superb. “When we do cases on large patients who have infrarenal aneurisms, we’re able to visualize the graft and the stents quite effectively and clearly.”

Table-mounted C-arm controls bring the workstation to the surgeon.

The C-arm’s surgeon-friendly design makes the task of controlling the system simple. “The 9900 MD really converts the suite to the equivalent of a fixed-base angio system,” Coatti said. In particular, the table-mounted controls put the system’s functions at the surgeon’s fingertips, eliminating the need to move between the patient and the C-arm workstation.

The table-mounted C-arm controls allow surgeons to perform numerous functions, including the following:

• Adjust the C-arm angle
• Magnify images
• Convert digital subtraction images into roadmaps
• Collimate

“You can basically do all the functions that are from the workstation—right at your fingertips,” Coatti said.

“It makes for an incredibly effective hybrid operating room.”

Coatti and his colleagues are very pleased with the operating suite. “Since we have begun using the system, I am able to do cases more efficiently and effectively ... [The NuBOOM suite] makes for an incredibly effective hybrid operating room.” The suite has provided the hospital with greater value through flexibility, allowing them to use it for many types of procedures rather than leaving it empty when no vascular surgeries are taking place.

In addition, Coatti said, it has helped the growth of the vascular surgery practice at the hospital. “It has improved the growth of my practice and allowed me to generate more cases for myself and the hospital.”
Healthcare Re-imagined

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