



More confidence, greater efficiency

Survey demonstrates value of CX50 on technically difficult patients

Background

Bedside echocardiography is a valuable tool for managing critically ill patients in the ICU. However, a significant number of ICU patients are technically difficult to image and obtaining high quality ultrasound images can be challenging. Many conditions can make a patient technically difficult to image: being on a ventilator, being obese, having pulmonary disease that compromises breath-holding, being post-thoracotomy, and the inability to be positioned optimally. The Philips CX50 CompactXtreme ultrasound system was developed to address the challenges of performing echocardiography on these patients.

Method

Yanick Beaulieu, MD, and his colleagues at Hôpital du Sacré-Cœur (Montreal, Quebec) assessed the value of the Philips CX50 ultrasound system in performing focused echo exams on technically difficult patients. The critical care physicians completed a brief survey each time the CX50 was used for a technically difficult exam in which they recorded their perceptions of the value of the ultrasound images. Twenty-three surveys were completed.

Results

The physicians reported that the CX50:

- Provided improved clinical value when compared to other compact ultrasound systems (96% of the reported cases)
- Changed the diagnosis or management of the patient (77% of the reported cases)
- Increased diagnostic confidence (91% of the reported cases)
- Improved the efficiency of the exam (95% of the reported cases)
- Decreased exam time (87% of the reported cases)

PHILIPS

Conclusion

The CX50 is well-suited for bedside echo of technically difficult patients in the ICU and was judged to provide greater clinical value than other compact ultrasound systems for bedside echocardiography.

Compact, lightweight and highly maneuverable

Philips CX50 ultrasound system provides optimal image quality for technically difficult echo exams. Features include:

- PureWave transducer technology for exceptional tissue detail and enhanced far field resolution
- A variety of transducers, including: S5-1, X7-2t (TEE), L12-3, and C5-1
- iScan 2D and iScan Doppler, to optimize images at the touch of a button
- Temp ID, which assigns a temporary identification when rapid assessment is crucial (patient information can be entered after the exam)



Because of its premium image quality, the CX50 system is the ideal choice for imaging your critically ill patients.

“About forty percent of the patients in our ICU are technically difficult, and rarely is there only one reason. Anything that hinders the ultrasound signal going through the patient – bone, air, fat, or even items like chest tubes – can make an exam technically difficult.”

Yanick Beaulieu, MD, is a cardiologist and intensivist at Hôpital du Sacré-Cœur in Montreal, and assistant professor in the department of medicine at the University of Montreal. He is also the director of Ultrasound Education for CAE Healthcare, a company developing cutting-edge learning tools and innovative simulation solutions for healthcare education, with a special emphasis on critical care ultrasound education. Dr. Beaulieu is recognized worldwide as an expert on ultrasonography in critical care.



Yanick Beaulieu, MD

Hôpital du Sacré-Cœur is a 554-bed medical center affiliated with Université de Montréal. The critical care unit has 35 ICU beds. Twelve physicians with varied backgrounds, including cardiology, internal medicine, anesthesia, surgery, and pulmonology, comprise the critical care team.



Hôpital du Sacré-Cœur

“Having high quality images is an advantage in terms of physician confidence, reduced time to diagnosis, and expediting care.”

Please visit www.philips.com/CX50



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