



We designed and implemented a multimodality US training program specifically for the use of surface US for central and peripheral vascular access for CRNAs” Bortman et al (2019).

Abstract:

Ultrasonography (US) proficiency has become a desirable skill for anesthesia providers. It is commonly used in the perioperative arena for establishing peripheral and central vascular access. Establishing intravenous access is one of the most common procedures performed by Certified Registered Nurse Anesthetists (CRNAs) as frontline anesthesia providers. However, there is no structured US training program for CRNAs for vascular access at our institution. We designed and implemented a multimodality US training program specifically for the use of surface US for central and peripheral vascular access for CRNAs. The course was conducted over 2 days and consisted of an online self-paced didactic component, integrated proctored hands-on workshops, and a posttraining examination to quantify knowledge gain. Twenty-five CRNAs attended the course, with significant improvement in knowledge (pretest mean (SD) score = 59.13% (15.74%) vs posttest mean score = 70.0% (9.43%), $P = .03$). Two weeks after the course, each participant reported that they attempted 1.46 (1.56) ultrasound-guided vascular access procedures on average. Therefore, it is feasible to design short, focused, multimodality training programs for proficiency in the use of surface US for obtaining venous access. The CRNA’s proficiency in US is likely to improve efficiency, patient experience, and safety.

You may also be interested in...

Ultrasound-guided placement of a midline catheter

Safety of ultrasound-guided placement of PICC performed by neurointensivist

Ultrasound-guided central venous catheter placement through the axillary vein

Reference:

Bortman, J., Mahmood, F., Mitchell, J., Feng, R., Baribeau, Y., Wong, V., Coolidge, B., Bose, R., Gao, Z., Jones, S. and Matyal, R. (2019) Ultrasound-guided Intravenous Line Placement Course for Certified Registered Nurse Anesthetists: A Necessary Next Step. *AANA Journal*. 87(4), p.269-275.

