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Review of simulation model for education of point-of-care ultrasound using easy-to-make tools

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This article **reviews** the current technology, literature, teaching models, and methods associated with **simulation-based point-of-care ultrasound** training. Patient **simulation** appears particularly well suited for learning **point-of-care ultrasound**, which is a required core competency for emergency medicine and other specialties.

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vincing arguments for **using simulation** in **point-of-care ultrasound education**.3–5,8–10Simulation-based **education** protects patients from mistakes and the sequelae of those mistakes.10–12Moreover, it provides training opportunities for rarely performed, high-stakes procedures in a stress-reduced environment such as a pericardiocentesis for car-

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Resident **education** relies more and more on medical **simulation**. 6, 57 For **point-of-care ultrasound education**, Web-based learning and **simulation** technologies are creating the groundwork for change. In addition to enhancing learning and making the educational experience more efficient, **simulation** and Web-based learning have the potential ...

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CONCLUSION: Novices can attain mastery learning levels **using simulation-based ultrasound** training with less than, on average, 2 h of practice. However, we found large variations in the amount of training needed, which raises questions about the adequacy of current volume-based models for determining **ultrasound** competency.