We aimed to develop a global rating scale (RS) for assessment of UGVA competence based on opinions on the content from ultrasound experts in a modified Delphi consensus study” Primdahl et al (2016).

**Abstract:**

**INTRODUCTION:** Peripheral vascular access is vital for treatment and diagnostics of hospitalized patients. Ultrasound-guided vascular access (UGVA) is superior to the landmark technique. To ensure competence-based education, an assessment tool of UGVA competence is needed. We aimed to develop a global rating scale (RS) for assessment of UGVA competence based on opinions on the content from ultrasound experts in a modified Delphi consensus study.

**METHODS:** We included experts from anesthesiology, emergency medicine and radiology across university hospitals in Denmark. Nine elements were drafted based on existing literature and recommendations from international societies. In a multi-round survey, the experts rated the elements on a five-point Likert scale according to importance, and suggested missing elements. The final Delphi round occurred when >80% of the experts rated all elements ≥4 on the Likert scale.

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RESULTS: Sixteen experts consented to participate in the study, one withdrew consent prior to the first Delphi round, and 14 completed all three Delphi rounds. In the first Delphi round the experts excluded one element from the scale and changed the content of two elements. In the second Delphi round, the experts excluded one element from the scale. In the third Delphi round, consensus was obtained on the eight elements: preparation of utensils, ergonomics, preparation of the ultrasound device, identification of blood vessels, anatomy, hygiene, coordination of the needle, and completion of the procedure.

CONCLUSIONS: We developed an RS for assessment of UGVA competence based on opinions of ultrasound experts through a modified Delphi consensus study.

Reference:


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