Methods:
- Needs assessment: Identify gaps in knowledge, skills, attitudes of the learner
- Establish measurable learning objectives
- Develop a self-directed POCUS curriculum consisting of five sequential educational units
  - Simulation Modality: Surgical Science/Simbionix Ultrasound Mentor Male Simulator Platform
  - Interactive Ultrasound Simulator Training Modules: Sonography Basic Skills, extended Focused Assessment with Sonography for Trauma (eFAST) and Rapid Ultrasound for Shock and Hypotension (RUSH) examination.
- Online Video-Based Approach: Core Ultrasound.com 5 Minute Sono Videos
- Include real ultrasound hands-on practice using a task trainer

Potential Impact:
The self-directed, simulator-based curriculum has a variety of applications:
- Undergraduate Medical Education
- Graduate Medical Education
- ECU Clinical Faculty Development
- ECU Basic Sciences Faculty Development
- ECU School of Physician Assistant Studies
- ECU Health

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Evaluation Plan:
Quantitative:
- VR ultrasound simulator student performance metrics
- Post-course faculty rating of ultrasound images obtained by learners performing POCUS on Standardized Patients

Qualitative:
- Student-reported quality pre- and post-course surveys

References: