A Flipped-Classroom POCUS Curriculum For Med-Peds Interns

W. Aaron Manning, MD

BACKGROUND/PURPOSE

- Point-of-Care Ultrasound (POCUS) curricula are an increasingly important component of Med-Peds (MP) residency programs.
- These curricula are time intensive, a barrier to implementation.
- To address this barrier, a novel flipped-classroom POCUS curriculum was developed for MP interns.

METHODS

1. Problem Identification and General needs assessment
2. Targeted needs assessment
3. Goals and measurable objectives
4. Educational strategies
5. Implementation
6. Evaluation and feedback

By the end of this one-year curriculum, MP residents will be able to:
- Describe basic POCUS principles and apply these principles when performing POCUS exams.
- Identify ultrasound findings associated with pulmonary pathologies and pathologic fluid collections, and demonstrate exam techniques used to evaluate a patient for these pathologies.
- Integrate POCUS findings when caring for adult and pediatric patients presenting with dyspnea and pathologic fluid collections.

RESULTS

- All four MP interns have completed three modules, spending an average of 80 minutes interacting with each module.
- Anticipate approximately 24 faculty hours (or 6 half-days, 1.5 per resident) will be spent implementing the curriculum (eg mentored hands-on scanning). As a comparison, the recently developed UCH IM POCUS curriculum requires 120 faculty half-days (2.4 per resident) for didactic instruction and mentored scanning.

EDUCATIONAL OBJECTIVE: To provide MP interns with the knowledge and skills necessary to interpret, perform, and integrate POCUS into their clinical practice to better care for patients.

CONCLUSIONS

- A POCUS curriculum relying on a flipped-classroom approach using an online learning platform is feasible.
- This approach significantly limits the amount of instructor time required, and should be more sustainable than traditional curricula.

Participants completed a pre-course multiple-choice test and OSCE.
- Assessed current R2s at end of their intern year to have comparison group.
- Will conduct post-course focus group to obtain feedback.