Implementing Structured Bedside Ultrasound Curriculum For Internal Medicine And Med-Peds Resident Education: A Single Center Experience

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Introduction

• Resident Education in Point of Care Ultrasonography.

• Program Directors [1].

• Medical students and Internal Medicine residents [2].
Introduction

• Guidelines and Curriculum

• Prior studies with workshops.

• Literature suggests [3][4].
Aims and Hypothesis

• To assess whether a structured POCUS training course is effective in improvement of image acquisition and retention of skills and knowledge in Internal Medicine and Med-Peds Residents.
Methods

- Nine Internal Medicine
- Two Med-Peds.
- Marshfield Clinic Sim Lab.
Methods

POCUS Curriculum

- Basics
- Cardiac
- Pulmonary
- Abdominal
- MSK
- Procedural
Methods

- Pretest
  - US Basics
  - Cardiac
  - Cardiac
  - Pulmonary

- Review Session
  - Abdominal
  - Musculoskeletal
  - Procedural

- Posttest

September to January
Methods

Skills Assessment
- PLAX, PSAX, Apical and Subcostal

Knowledge Assessment
- 42 questions.
Methods

- Pretest: Seven Residents
- Posttest: Four Residents
- T-test
Results - Grade

Average Pre and Post Grade

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Axis Title
## Results - Time

### Average Pre and Post Time

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P-value: 0.7768, 0.9513, 0.922, 0.289
## Results - Knowledge

**Average Pre and Post US Knowledge Test Scores**

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**P-value**

0.068
Discussion

- Results show improvement in skills and knowledge.
- The results are encouraging.
- Power Analysis was done for future sample size.
- Limited by small sample size
Future Plans

• Continue same study to increase sample size.

• Possible collaboration with other centers.
References


Thank you
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