



Background

- Procedural skills are an essential and practical component of medical education.
- Pre-clerkship medical students receive limited procedural training, which contributes to gaps in confidence and competency.
- Procedural skills training improves pre-clerkship student self-confidence in performing procedures.
- To address the need for early procedural skill exposure, we developed a workshop to provide hands-on instruction for various clinical procedures.

Objectives / Goals

- Evaluate the effectiveness of our workshop on increasing student confidence in performing procedures.
- Identify opportunities for workshop improvement by analyzing quantitative and qualitative participant feedback.

Methodology

- 42 MS1s completed a workshop consisting of 6 stations, each lasting 20 minutes, where they received hands-on instruction from faculty in performing the various procedures.
- Surveys were administered before and after the workshop to assess participants' self-confidence in performing each skill, using a 10-point Likert scale.

Image 1. Incision and Drainage of Abscess Station

- Post-workshop surveys also included questions about the workshop experience, evaluated with a 5-point Likert scale with space for qualitative feedback.
- Self-confidence scores were analyzed using paired t-tests.

Addressing Gaps in Preclerkship Students' Procedural Skills **A Workshop Series with Simulations**

Jimin Kim^{1*}, Tyler Sewell^{1*}, Nitin Prabakaran¹, Morgan Motakef¹, Amna Waqar, M.D.², Bharat Joshi, M.D.², Eric Lee, M.D.², Lisa Danek, M.D.², Nidhi Mehrotra, M.D.², Noreen Pirzada, M.D.², Rashmi Rode, M.D.², Sanjana Bhattarai, M.D.², Roger Zoorob, M.D.², Anjali Aggarwal, M.D.² ¹School of Medicine, Baylor College of Medicine | ²Department of Family and Community Medicine, Baylor College of Medicine



Discussion and Conclusion

- intervention.
- Based on quantitative and qualitative data collected from this pilot workshop, our study suggests changes to current medical educational frameworks.

Limitations

- Workshop participants may have greater interests in procedural skills or prior experiences which may skew workshop outcomes and may not reflect the entire student population.
- The small sample size of medical students from one medical school may reduce the generalizability of the results.

Future Directions

References

• "I liked the ppt parts, visual aids were good for each part." • "This was a very informative and helpful session"

ive same amount of contribution

 Participants showed a significant overall increase in confidence about their procedural skills after our workshop

- Participants positively rated the experience, strongly
- agreeing that the workshop is useful to their future
- practice and is recommended to other medical students.

 We expect that students will demonstrate skill retention during our upcoming follow-up workshop with scores ranging from competent to expert during test out. • Further research will determine how best to support students in their abilities to retain these skills and encourage utilization of these skills in their early careers.

