

Enhancing Reproductive Anatomy Education: A Comprehensive Approach Integrating Near-Peer and Reciprocal Peer Tutoring

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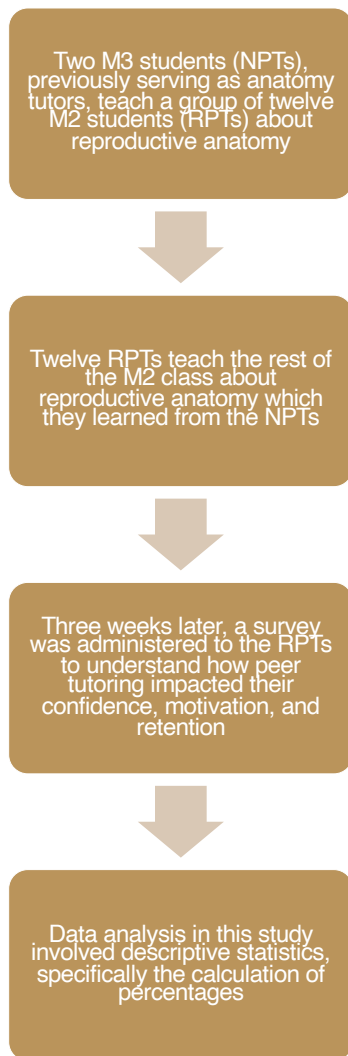
Introduction

- **Near-peer tutoring (NPT):** Tutors are more advanced than tutees, typically offering support in understanding complex concepts¹
- **Reciprocal peer tutoring (RPT):** Students with similar levels of training alternate between tutor and tutee roles, facilitating collaborative learning¹
- Peer tutoring fosters professional development and improves long-term retention of complex medical concepts^{3,4,5}
- Reproductive anatomy is a challenging area for many medical students; Innovative peer tutoring methods may help improve understanding and retention of anatomical structures
- We **hypothesize** that integrating NPT and RPT within the laboratory setting in the reproductive organ system course will enhance student motivation, self-efficacy, and long-term retention of reproductive anatomical structures

Aims and Objectives

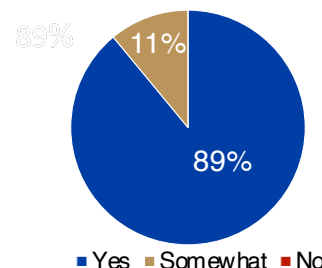
1. **Integration of Tutoring in Anatomy Curriculum:** To integrate NPT and RPT methodologies within the reproductive anatomy lab to enhance student learning outcomes
2. **Create a Supportive Learning Environment:** Promote peer-to-peer mentorship through NPT and RPT strategies
3. **Evaluate Learning Outcomes:** Assess the impact of NPT and RPT on students' motivation, self-efficacy, and retention of anatomical knowledge
4. **Enhance Student Engagement:** Improve student participation and interaction during lab-based activities through collaborative tutoring
5. **Develop a Framework for Future Medical Education:** Provide a model for integrating peer tutoring into other complex areas of the medical curriculum

Methods

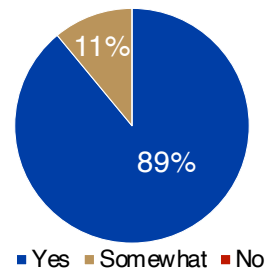


Results

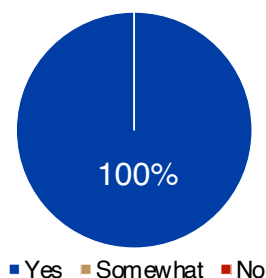
Confidence: Did you feel more confident identifying anatomical structures after the peer tutoring session?



Motivation: Do you think the peer tutoring experience motivated you to learn reproductive anatomy more than self-directed learning?



Retention: Did peer tutoring enhance your personal retention of reproductive anatomy more than self-directed learning?



Conclusions

- The integration of NPT and RPT significantly increased **motivation, confidence, and long-term retention** of reproductive anatomical structures over a 3-week period
- Students engaged in both tutoring roles reported a deeper understanding of anatomical concepts and improved practical application

Implications for Medical Education:

- Peer tutoring is an effective strategy for improving medical students' comprehension of difficult subjects such as reproductive anatomy
- The collaborative approach fosters a supportive learning environment and enhances the retention of complex content

Future Directions:

- Further research should explore the impact of NPT and RPT on **academic performance**, including assessment grades
- Long-term studies should examine the effects on clinical performance, career trajectories, and professional development

Potential Impact:

- NPT and RPT can serve as innovative teaching methods to improve **medical education** and may serve as a model for other areas of medical training

References

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