

Effectiveness of Short ENT Teaching Video Across Learner Experience Levels

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Introduction

- [Short-format education videos](#) are increasingly used in medical education¹
- Effectiveness may vary based on [learners' prior knowledge and clinical experience](#)
- [Otitis media](#) is common, and understanding its complications is clinically important for medical students and trainees²

Study Aim

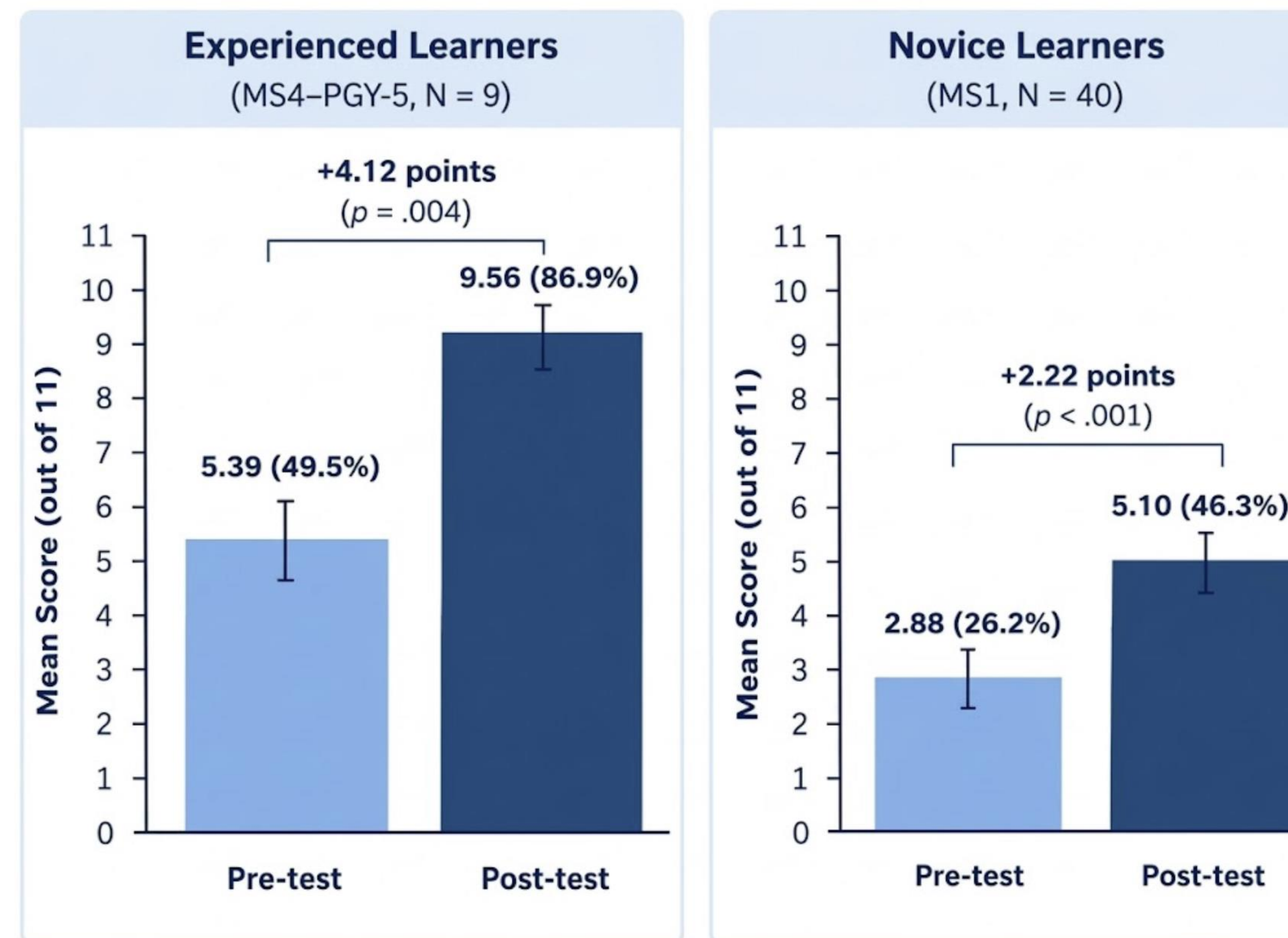
To evaluate the effectiveness of a brief education video on complications of otitis media among learners with varying levels of prior otolaryngology exposure

Methods

- **Design:** [Pre-/post-intervention](#) educational study
- **Intervention:** [7-minute education video on complications of otitis media](#)
- **Participants:** [49 learners](#), ranging from first year medical students to PGY-5 otolaryngology residents
- **Assessment:** [11-point multiple-choice knowledge assessment](#) administered before and after the video
- Study Period: [2023-2025](#)
- **Learner Groups:**
 - **Group 1:** MS4-PGY-5; experienced learners (N=9)
 - **Group 2:** MS1; novice learners (N=40)

Results

Figure 1. Comparison of Pre- and Post-Assessment Performance Among Experienced and Novice Learners



Key Findings

- Both groups demonstrated [significant improvement](#) after the video
- **Group 1:** +4.12 points → **86.9% post-test** (p=.004)
- **Group 2:** +2.22 points → **46.3% post-test** (p<.001)
- [Greater variability](#) and some score regression were observed among [novice learners](#)
- Learners with prior otolaryngology exposure had [higher baseline and post-intervention performance](#)

Discussion

- Brief video instruction can [improve knowledge across different levels of medical training](#)
- The greater improvement among experienced learners may reflect [differences in baseline knowledge](#)
- Novice learners may require additional instruction, reinforcement, or guided discussion to [achieve comparable mastery](#)

Conclusion

- These findings suggest that [short videos may be most effective](#) when used with a broader educational strategy rather as a stand-alone intervention
- Incorporating brief videos into a structured curriculum with [reinforcement may better support novice learners](#)

References

