

Objective

To assess the self-awareness of third-year pharmacy students regarding their performance on Objective Structured Clinical Examination (OSCE) performance, utilizing a standardized selfassessment tool

Background

- The final iteration of the Skills Development courses was restructured into an Advanced Pharmacy Practice Experience (APPE) Readiness course.
- This course is composed of 5 OSCEs with pre-specified APPE-Readiness criteria that must be passed to successfully pass each OSCE, to then advance to APPEs.
- As such, OSCEs provided a good opportunity to measure and assess student self-awareness in accordance with Center for the Advancement of Pharmacy Education (CAPE) domain 4.1, which defines self-awareness as a core competency metric.

Methods

Survey Tool

- Following each of the 5 OSCEs, a self-awareness survey was disseminated and completed by the students (Figure 1).
- The survey was based on a previously published, simple, standardized self-assessment tool¹ for completion by a pharmacy learner after an OSCE that was shown to be to be reliable and valid for overall learner performance.
- The questions were based on the APPE-readiness criteria evaluators used to determine if a student "passes" or "requires remediation".

Analysis

aculty investigators reviewed responses to the survey for trends of self-awareness in OSCE performance ("nailed it!" or "need more practice") and applied statistical analysis to assess correlations with actual OSCE performance. For students in the "require remediation" group, investigators assessed improved perception from the original OSCE to the remediation OSCE. Remediation Lastly, logistic regressions were used to analyze whether student self-perceptions differed by question type and OSCE.

Implementation of a Pharmacy Student Self-Assessment Tool in an APPE-Readiness Course

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Figure 1. OSCE Self-Awareness Survey Example

APPE readiness criteria	Self-assessment	
For professionalism, I felt	I nailed it!	🛛 I need mor
For the following skills, I felt		
Determine the appropriateness	I nailed it!	🛛 I need mor
of drug therapy and/or vaccine	I nailed it!	🛛 I need mor
therapy	I nailed it!	🛛 l need moi
 2b) Use clinical reasoning to 		
justify clinical recommendation		
For clinical knowledge, I felt	I nailed it!	🛛 I need mor
For interpersonal communication, I felt	I nailed it!	I need mor

Briefly describe why you feel you nailed it or need more practice?

Key

Only OSCE 1 and 5 contained a singular self-awareness survey question that had a significant association between students perceiving they need more practice and actual requirement for Findings remediation (**Figure 2**)

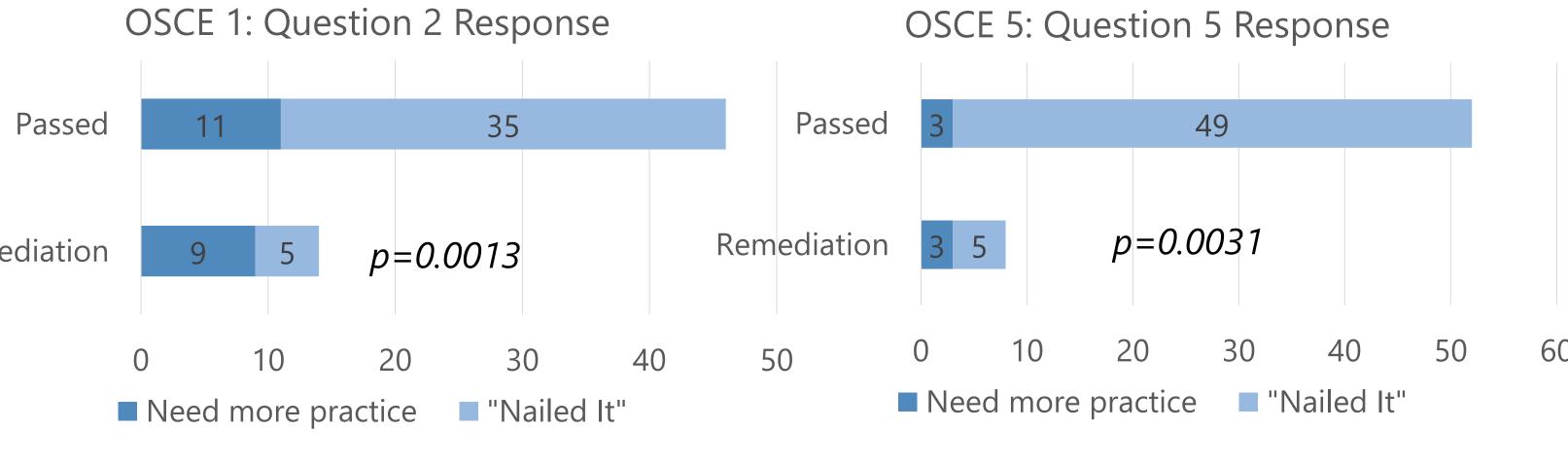
> Only OSCE 1 and OSCE 4 had a significant association in improved perception of performance following remediation of those respective OSCEs (Figure 3)

While students perceived poorer performance with less time to prepare, there was no significant differences between actual student performance on OSCEs with time to prepare (3&5) vs. OSCEs with no time to prepare (1,2&4) (**Figure 4**)

Interestingly, all students always perceived success in "professionalism" focused self-awareness questions, regardless of performance (Figure 5)

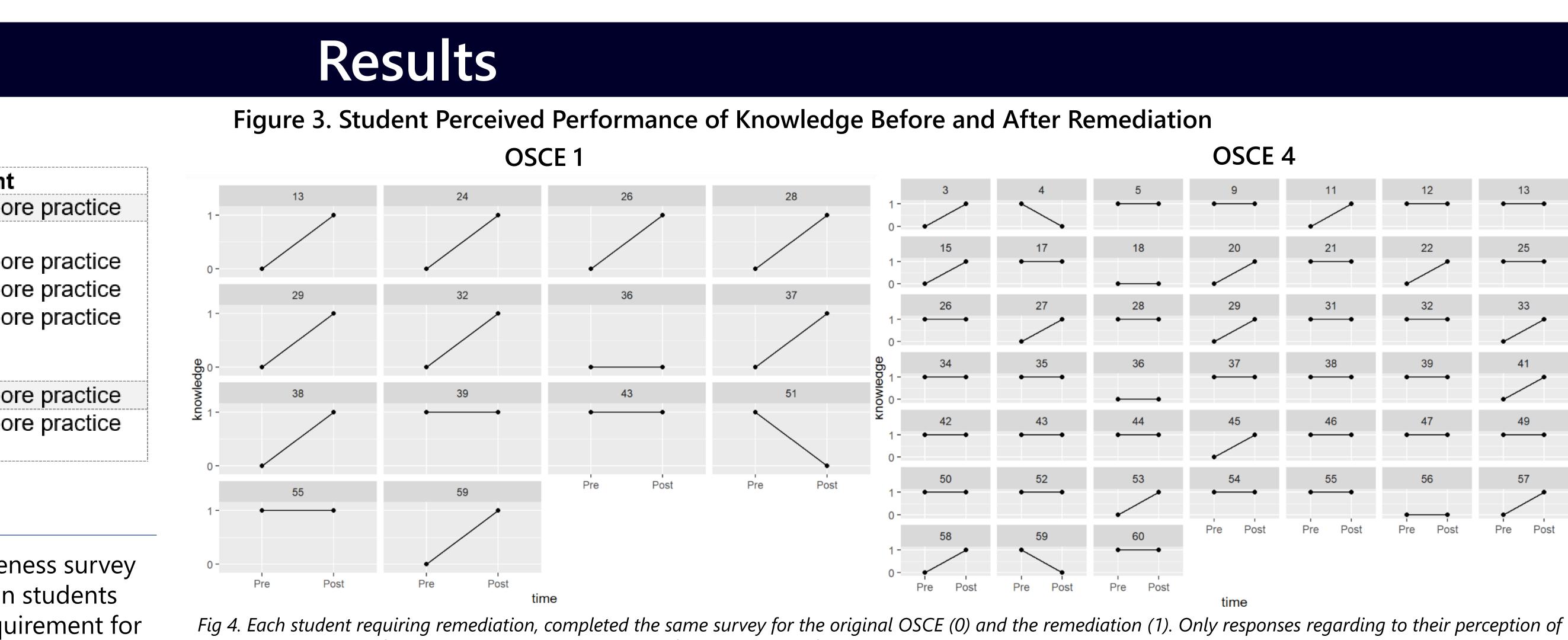
In multiple OSCEs (OSCE 1,3&5) students were more likely to indicate needing more practice in "knowledge" focused self-awareness questions

Figure 2. OSCE Self-Awareness Survey Question Responses Correlating with **OSCE** Performance



OSCE 1 Q2: For determining the appropriateness of drug therapy and/or vaccine therapy? I felt I... OSCE 5 Q5: For interpersonal communication, I felt I...

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with OSCE Performance: Time to Prepare vs. No Time Predicted probabilities of remediation

Fig 5. Likelihood for remediation was not correlated with less/no time to prepare for an OSCE in comparison to OSCEs that allowed time to prepare

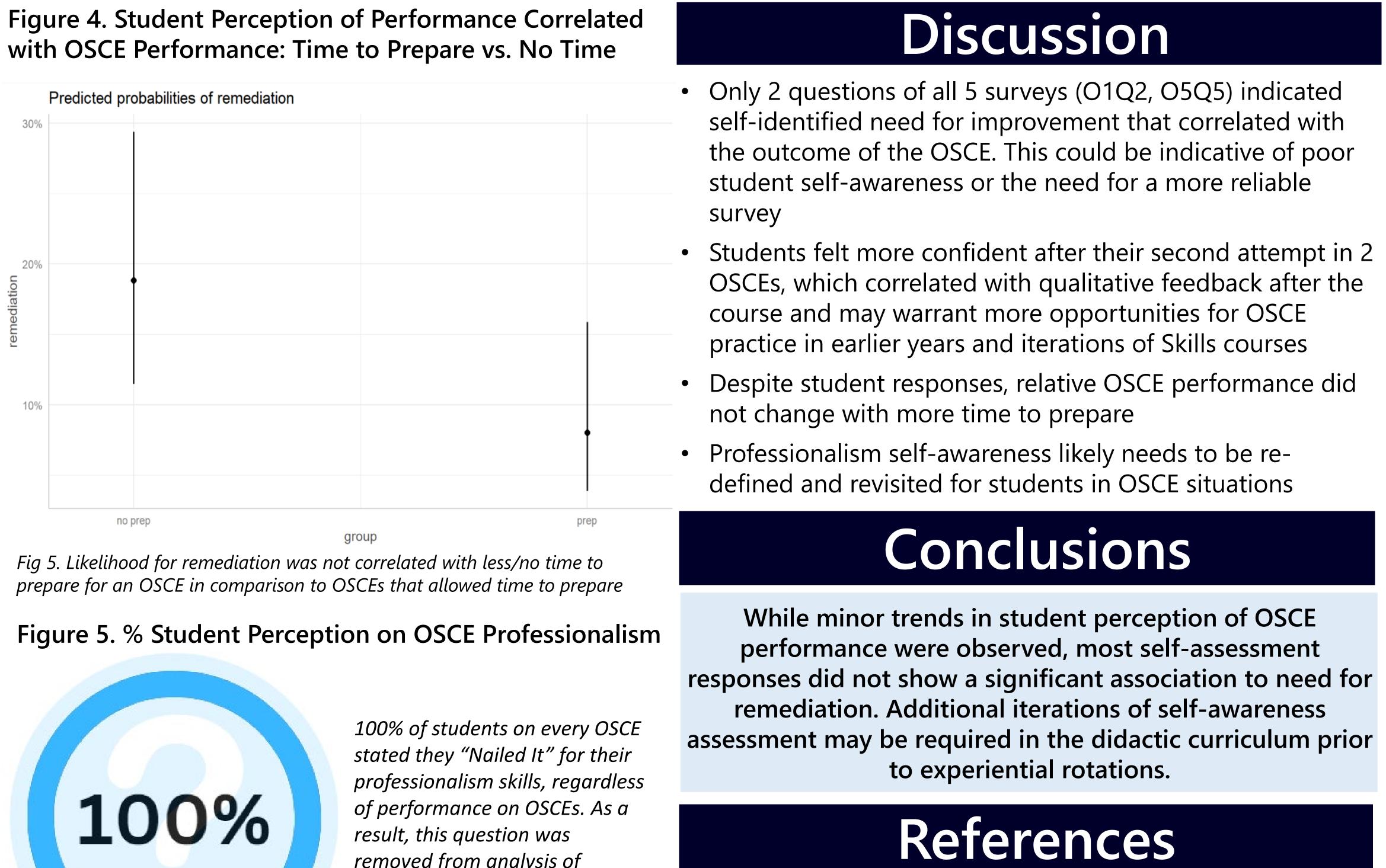
Figure 5. % Student Perception on OSCE Professionalism



100% of students on every OSCE stated they "Nailed It" for their professionalism skills, regardless of performance on OSCEs. As a result, this question was removed from analysis of association with true performance as an outlier.



clinical knowledge performance on OSCE 1 & 4 were significantly changed following remediation.



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The authors declare no potential conflicts of interest with respect to the research presented.