

### OBJECTIVE

- To develop a tool to evaluate student perceptions of near-peer-assisted learning (NPAL). Specifically:
  - Perceived effectiveness
  - o Relationships with near-peer teachers
  - o Overall general value

### BACKGROUND

- NPAL is defined as junior students receiving training by students one or more years their senior within the same curriculum or level of education.<sup>1</sup>
- NPAL is utilized in a variety of allied health education programs, including pharmacy, medicine and nursing.<sup>2</sup>
- Despite frequent use in allied health education, there is a significant lack of validated tools to assess NPAL outcomes and impact. 1,3-9

### METHODS

Online Survey

 Likert scale survey developed using published literature on NPAL use within allied health education. 1,3-6

Quality Measures

- Content validation by content experts and a psychometrician.
- Face validation via cognitive interviews with APPE students.
- Darticipante
  - P1 students with NPAL exposure provided by P4 students.
    Conducted in pharmacy practice lab.
- articipants Conducted in pharmacy practice ia
- Data
- Duplicate attempts removed prior to de-identifying survey responses.
- Two reverse-score items included in survey.
- Cronbach's Alpha coefficient (α) to assess reliability and internal consistency.
- Construct validity performed using Exploratory Factor Analysis (EFA).

\*The authors have no conflicts to report in relation to this work.

# Development of a Tool to Systematically Assess Student Perceptions of Near-Peer-Assisted Learning

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# RESULTS

5.7

1.6

1.1

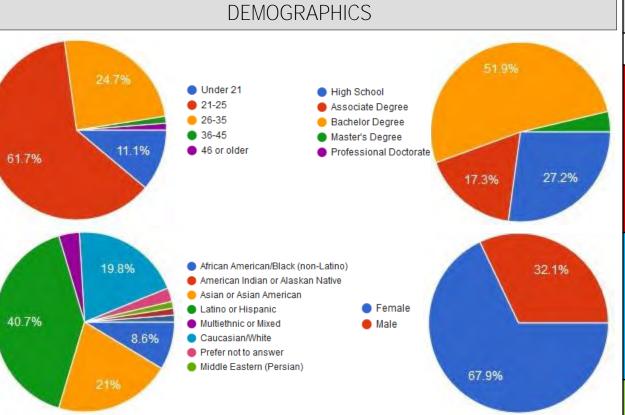
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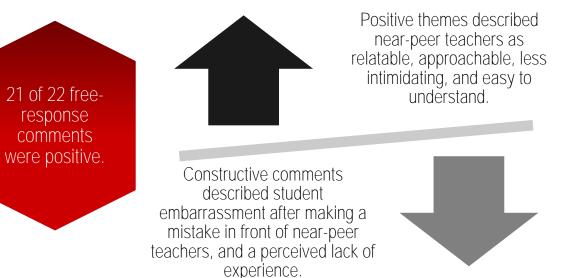
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### INTERNAL CONSISTENCY AND RELIABILITY

Domains Assessed	Cronbach's alpha	Median	Mode
Effectiveness	α=0.84	4	5
Relationships with Near-Peers	α=0.61	5	5
General Value	α=0.82	4	4
Survey Overall α=0.86			

FREE RESPONSE ASSESSMENT



### SURVEY QUESTIONS Mean (SD) Responses n = 81/88 (92% response rate) 4. Being taught by a near-peer provides a safe learning environment. 4.4(0.6)5. I feel comfortable asking a near-peer teacher questions about class 4.4 (0.6) 6. Near-peer teachers relate to me well since they have recently been in 4.4 (0.8) my situation. 7. \* Being taught by a near-peer is an intimidating experience. 4.4 (0.6) 8. \* I learn better from a traditional faculty member than a near-peer 2.8 (0.9) 9. Near-peer-assisted learning was a valuable experience to me 4.2 (0.6) 10. Near-peer-assisted learning experiences are a positive addition to our 4.4 (0.7) curriculum. 4.2 (0.8) 11. I would benefit from more near-peer-assisted learning experiences. 12. Please add any other comments you have about near-peer-assisted N/A learning. (limit 150 characters). Items were on a 5-point Likert scale (SA=5, A=4, N=3, D=2, SD=1); \* Denotes a reverse-scored item.

0.5

0.6

0.7

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### CONCLUSIONS

- The reliability and validity findings indicate that our survey can be utilized to systematically evaluate student perceptions of NPAL.
- Educators may use this tool to help guide use of NPAL in allied health education.
- Further research on NPAL is needed to establish areas for optimal curricular placement and overall impact on learner outcomes.

### DISCUSSION

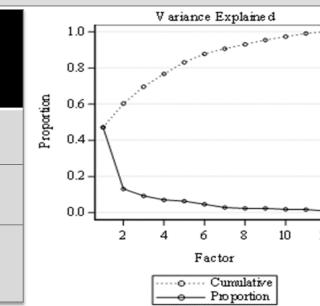
- When utilized to assess NPAL experiences, survey results can yield insights on strengths and opportunities. For example, constructive comments from our free-response assessment can inform future development of near-peer teachers in our courses.
- Although commonly used, there remains a significant lack of research on how to optimize NPAL use in pharmacy education.
   Assessments of student perceptions may serve as a springboard in evaluating this area, but more research is needed.
- Future research should work to identify ideal curricular placement of NPAL. For example, it is possible that students prefer NPAL for some learning situations, but not others.<sup>10</sup>

## REFERENCES

• For citation list, please scan this code:



### VALIDITY: EXPLORATORY FACTOR ANALYSIS



A simple structure resulted from the EFA, with most items having a large loading on the first factor and small loadings on the other factors.

Reverse-score items were distinguished with the highest loading on the second factor, which is expectable.

3 of 12 factors were retained by the MINEIGEN to account for 69.6% of the total variance.