Direct Near Peer Teaching Among First Year Medical Students During a Pandemic



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Background

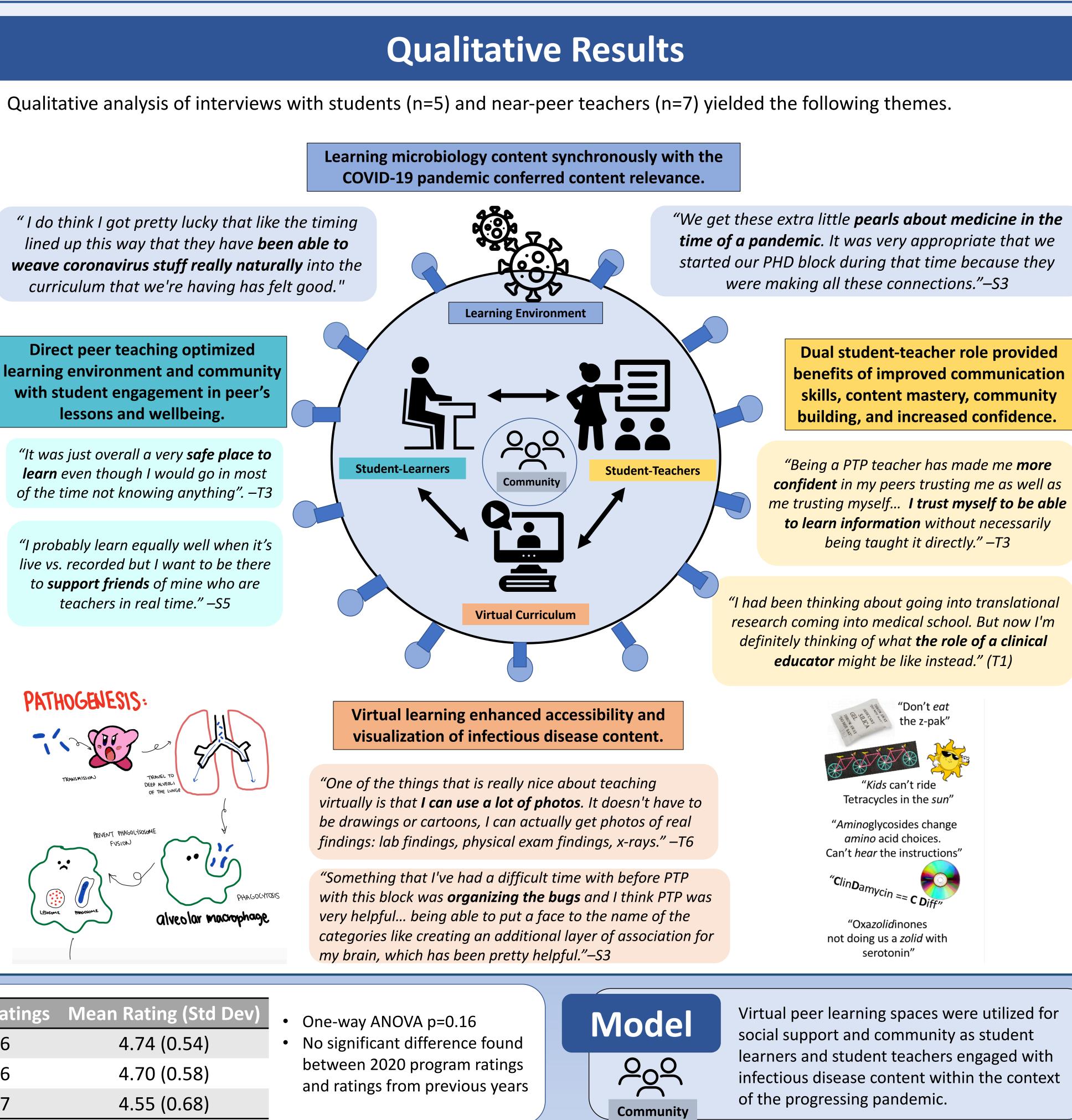
- Near-peer teaching (NPT) is increasingly utilized in undergraduate medical education.
- At our institution's NPT program, Peer Teaching Program (PTP), teachers are recruited and trained during the final block of first year, simultaneously learning and teaching Immunology and Microbiology to classmates.
- This year, in-person teaching and training were conducted virtually due to the COVID-19 pandemic.
- The aim of this study was to \bullet understand how near-peer teaching in a newly virtual curriculum impacted first year student experiences learning infectious disease content.

lessons and wellbeing.

teachers in real time." –S5

Methods

- Semi-structured one-on-one interviews with student-teachers and student-learners were conducted after their microbiology block.
- Interviews were recorded, transcribed, coded and analyzed to identify themes as informed by constructivist grounded theory.
- Mean 2020 NPT program student rating was compared to prior years using a one-way ANOVA.



	Year	# of Ratings	Mean Rating (Std Dev
Quantitative	2020	66	4.74 (0.54)
Results	2019	66	4.70 (0.58)
	2018	67	4.55 (0.68)

Virtual peer learning spaces were utilized for social support and community as student learners and student teachers engaged with infectious disease content within the context



Discussion

The shift to virtual direct peer teaching in our NPT program during the Covid-19 pandemic presented an opportunity for creative virtual teaching strategies and increased lesson accessibility via recordings.

- Students were supportive of receiving lessons from their direct peers, and utilized the virtual space to foster social community.
- Unexpectedly, virtual lessons were perceived as non-inferior to inperson lessons, prompting consideration of virtual sessions permanently in the future.
- The memorization-based nature of infectious disease content makes it well-suited for the re-structuring and creative teaching strategies offered by virtual NPT programs, benefitting both learners and teachers.

Conclusion

Findings from this study support the use of virtual near-peer teaching programs in infectious diseases medical education.

Limitations

- Limited sample size
- Lack of qualitative data available from prior years for comparison
- Quantification of coded themes not performed

Acknowledgements

Thank you to our 2020 cohort of PTP teachers and coordinators who rose to the challenge of adapting PTP to the COVID-19 pandemic.