A Formal Case-based Peer Assisted Learning Session in Undergraduate Medical Curriculum: Malaysian Medical Students' Thoughts and Beliefs

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Introduction

Peer-assisted learning (PAL) is increasingly used in higher education as an academic support system. Several benefits of this approach have been reported (Khalid et al, 2018). Most of the studies have focused on peer tutoring of junior students by senior students or peer leaders teaching students at the same level (Burgess, McGregor & Mellis, 2014). We used a model where all the students were at same level and received equal opportunity to be involved in collaborative learning and teaching their peers as a shared responsibility.

Aim

The **Aim** of the study was to assess the effectiveness of peer led group activity in improving problem solving skills. This was measured in terms of student satisfaction and their perception of how useful the learning activity was.

Research Questions:

- 1. Does collaborative problem solving session and peer teaching enable students to achieve the intended learning outcomes?
- 2. How best can we facilitate sessions to improve student satisfaction and learning?

Methodology

Mixed Methodology

Quantitative

Questionnaire

Purposive Sampling

- Stage 3 M.B.,B.S students during Women's health Rotation
- n=67

Data Analysis

Statistical analysis

Qualitative

- Free text comments
- Focus group discussion (FGD)

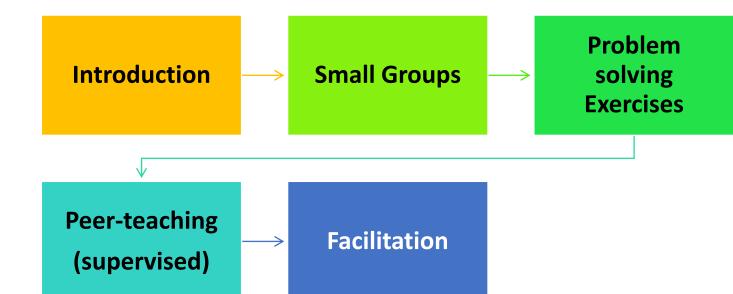
Purposive sampling

- Stage 3 M.B.,B.S students during Women's health Rotation
- n=5 for FGD
- n=67 for free text comments

Data Analysis

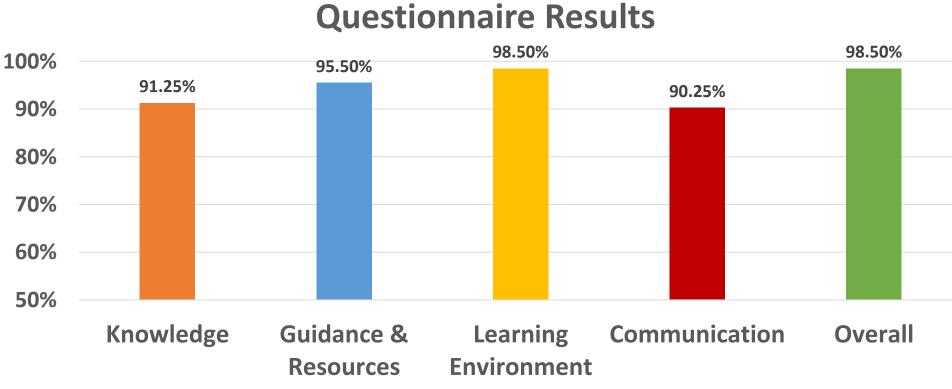
Thematic analysis

Methods: PAL Session



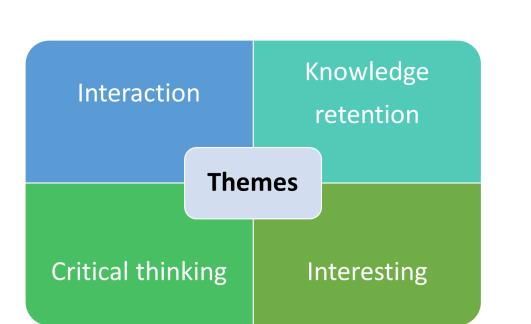


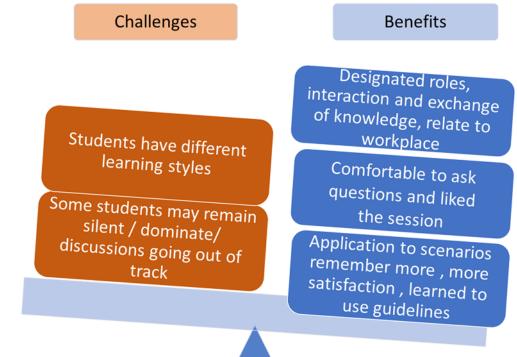
Results



Thematic analysis

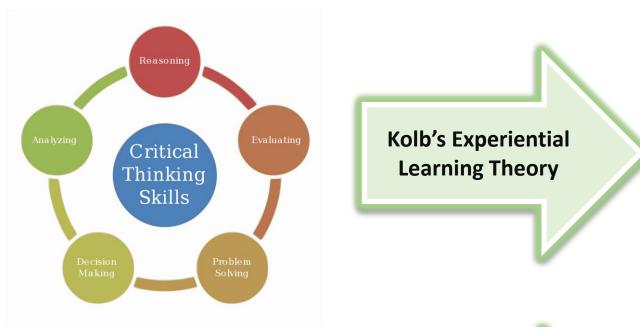
Reflections



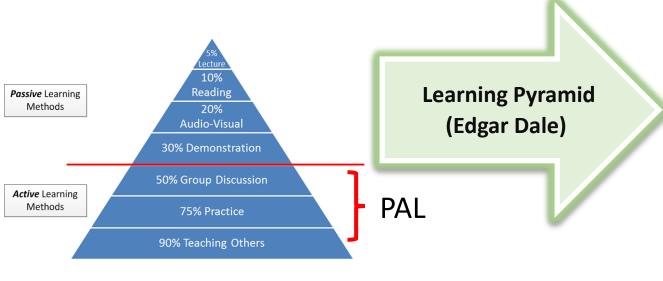


Discussion

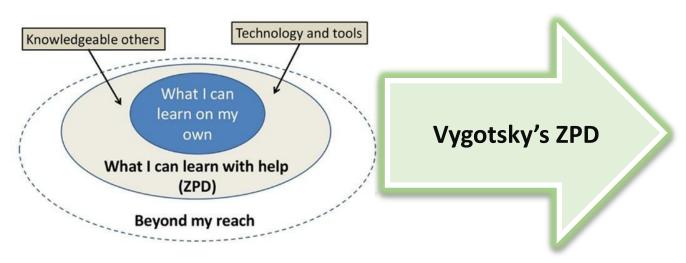
Vygotsky's Social Constructivist Theory Collaborative learning
Knowledge is coconstructed with the
social context of the
learners. Peers interact
and assist one another
to learn different
academic ideas.



Effective learning can be seen when the learner progresses through the cycle of learning, reflecting, conceptualizing and experimenting.



Group discussions, practicing and teaching others lead to higher levels of knowledge retention. PAL supports all these active learning methods.



Learning environment
Fostering the right
learning environment
enables effective and
enjoyable learning and
increases student's

confidence.

Conclusion

- Students identified many benefits of PAL.
- They perceived PAL as a great opportunity to learn and improve their study skills.
- Interactions in the class made learning more **effective and enjoyable**.
- Discussions of cases promoted critical thinking and knowledge retention.
- Overall, the student's feedback shows an excellent satisfaction rate and a valuable learning experience in a safe environment.

Future Implications

- More opportunities to participate in similar PAL sessions might encourage students who have different learning styles to engage in discussions and improve their confidence.
- Implementing and evaluating the impact of PAL in **different modules** might provide more robust data to use in other educational settings.

References

Burgess, A., McGregor, D. & Mellis, C. (2014). Medical students as peer tutors: a systematic review.

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4237985/

Khalid, H., Shahid, S., Punjabi, N.& Sahdev, N.(2018). An integrated 2-year clinical skills peer tutoring scheme in a UK-based medical school: perceptions of tutees and peer tutors.

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