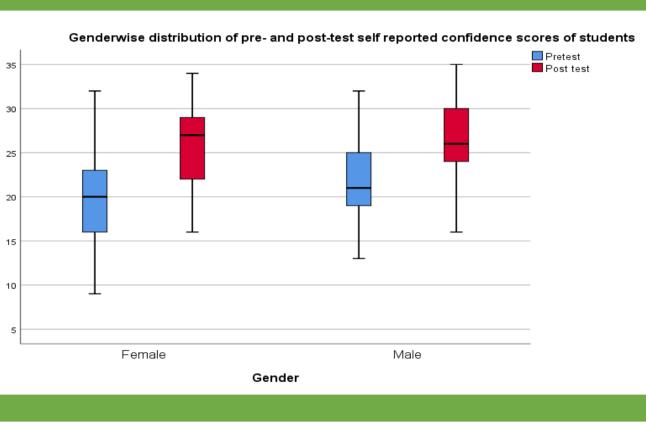
Title: Assessing the Impact of Reciprocal Peer Assessment and Peer Feedback Activities on Medical Students' Confidence in the Pharmacology Exam. Name(s) of Author(s): Dr. Mangesh Bankar, Dr. Sachchidanant Tewari Dept. of Pharmacology, AIIMS, Raebareli.

Background

□ Students struggle with confidence in pharmacology exam due to the complexity of the subject matter Deer assessment involves students actively in the assessment process



Demographic characteristics of the students Percent 32.3% Gender 31 Female 67.7% Male 65 Total 96 100.0% 35.4% 34 Residential status Rural 62 64.6% Urban 100.0% Total 96 37 38.5% Non satisfactor Previous performance 59 61.5% Satisfactory 96 Total 100.0%



Pre- and post-test scores based on the residential status of the studer

• Few studies have assessed the impact of reciprocal peer assessment and feedback (RPAF) on medical students' confidence Hence, this study was conducted to explore the relationship between engaging in RAPF and their 'self-reported confidence levels, specifically in the context of pharmacology exams.

Objectives: Primary objective: to evaluate the effectiveness of the RPAF activities on self-reported confidence levels about the Pharmacology exam.



Comparison of Pre- and Post test self reported confidence scale scores of Students following intervention

	N	Mean	Std. Deviation	Minimum	Maximum				
Pretest	96	21.71	4.847	9	32				
Posttest	96	26.25	4.262	16 ^a	35				
a. Wilcoxan Signed Ranks Test, Z = -6.346, P=<0.001									

Medical Student Perception of Reciprocal Peer Assessment and Peer Feedback activity Questionnaire

Questions	SD	D	Ν	Α	SA		
1. Feedback received was	3. (3.13)	6 (6.25)	27 (28.14)	42 (43.75)	18 (18.75)		
constructive and helpful.							
2. I was prompted to reflect my own	2(2.08)	10 (10.41)	25 (26.04)	41 (42.70)	18 (18.75)		
performance by the RPAF activity							
3. Peer assessment criteria were	1(1.04)	10 (10.41)	31 (32.29)	39 (40.62)	15 (15.63)		
clear and easy to understand							
4. I had no problem in offering	3 (3.13)	17 (17.70)	32 (33.33)	27 (28.13)	17 (17. 71)		
feedback to my peers							
5. I was able to pinpoint my areas of	3 (3.13)	10 (10.41)	19 (19.79)	41 (42.71)	23 (23.95)		
improvement following the activity							
6. RPAF should be used in other	1 (1.04)	7 (7.29)	17 (17.70)	40 (41.66)	31 (32.29)		
subjects as well.							
Student's Perception on RPAF Activity Values in parentheses indicate percentage; N=96; Likert							
scale: SD strongly disagree, D disagree, N neutral, A agree, SA strongly agree							

 Secondary objectives: 1. to explore factors which may influence the baselines confidence scores 2. To know the perceptions of medical students about the RPAF activity

Methodology

- **Study type:** Questionnaire based, pre and posttest design, intervention study
- **Study site:** Dept. of Pharmacology, AIIMS, Raebareli

Study Duration: August 2024- Sept. 2024 **Study population: 96 second** MBBS students

Conclusions:

The RPFA was successful in improving student's confidence levels regardless of any demographic factor.

- Students perceived the RPAF activity well and found it to be a valuable learning experience.

Routine Part completion test conducted

Pre-test in the form confidence questionnaire conducted

Students were sensitized about the RPAF activity

Model Answers were distributed.

Students evaluated the answer sheets in pairs and provided feedback after evaluation

> Post test Confidence questionnaire and Perception questionnaire were administered

□ Further research could explore the longterm effects of reciprocal peer assessment and feedback session on academic performance and overall learning experience.

References

- 1. Roux, C. Holistic curriculum development: Tutoring as a support process. South Afr. J. Educ. 2009, 29, 17–32.
- 2. Ladyshewsky, R. 2001. Reciprocal peer coaching: A strategy for training and development in professional disciplines. Jamison, Australia: Higher Education Research and Development Society of Australia.
- 3. Slavin, R. 1996. Research on co-operative learning: What we know, what we need to know. Contemporary Educational Psychology 21: 43–69.
- 4. Lui W, Devitt A. Using reciprocal peer teaching to develop learner autonomy: an action research project with a beginners' Chinese class. Lang Learn High Educ 2014;4(2):489–505.