

Early Clinical Exposure in Pre-clinical Prosthodontics –

Inception of a New Approach



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Background

State

 Pre-clinical **Prosthodontics** (PCP) curriculum falls short of adequately preparing students due to lack of patient contact

Gap

A single Indian study has investigated the impact of Early Clinical Exposure (ECE) on performance of dental students in the subject of PCP using videos

Future State

Introduction of ECE in clinical demonstrations complete denture patients can help to mitigate existing problem

Aim

To assess the impact of introduction of ECE on knowledge and understanding of second year dental students in the subject of PCP

Objectives

- 1. To introduce ECE in the subject of PCP in second year
- 2. To assess the impact of ECE on the knowledge and understanding of students
- 3. To explore perception of students and towards the ECE program

Methodology

Prospective Non-randomized Interventional Study among Second Year Dental Students

of Study tools and Informed Consent Preparation Document

Institutional Ethics Committee Approval

Faculty and Student sensitization

Pilot study (n=8)

Recruitment of patients (n=5) and Study Participants (n=50)

Pre-MCQ test (validated MCQs after item analysis)

Introduction of Early Clinical Exposure (ECE):

Demonstration of complete denture steps of border molding and jaw relation to each of the five student groups on a patient

Post-MCQ test: One week after the completion ECE

Students' Perception: Survey questionnaire

Faculty Perception (n=2): In-depth interviews

Results

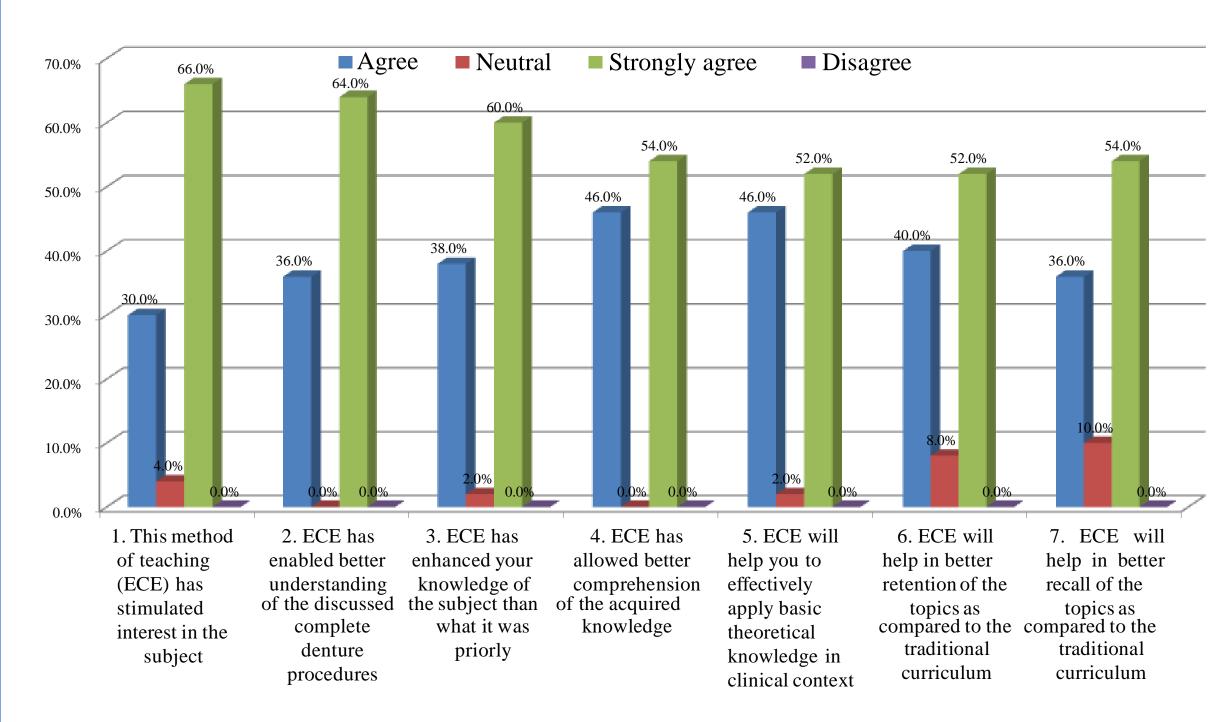
Comparison of pre- and post-MCQ test mean scores

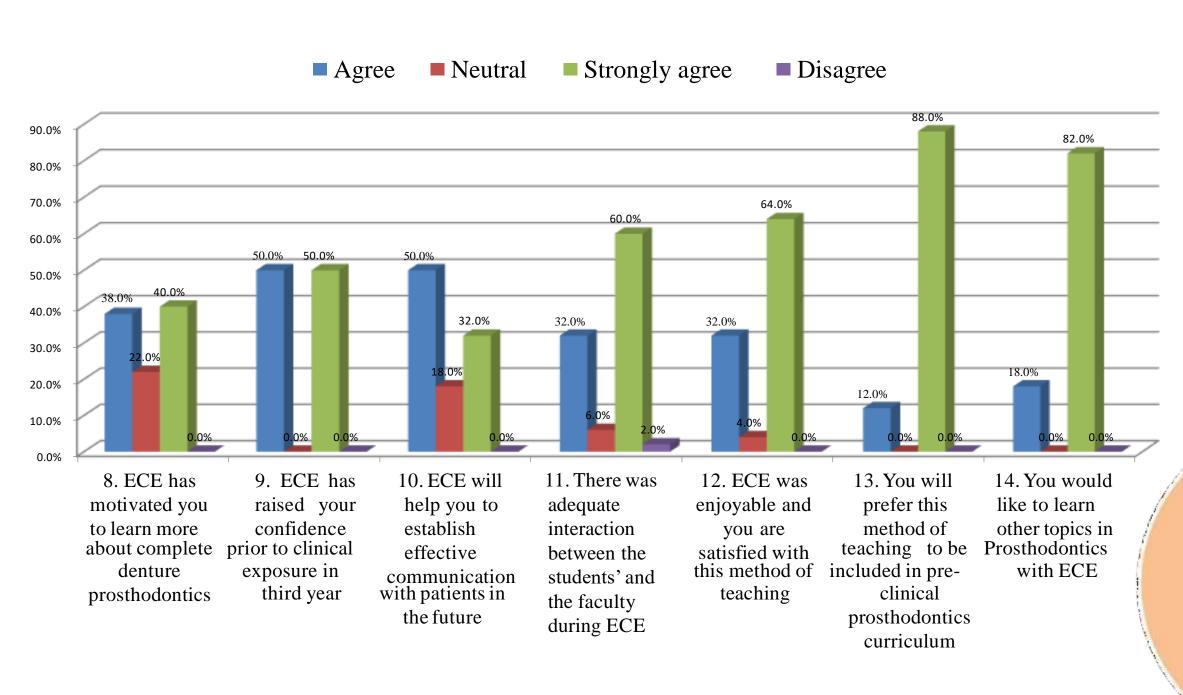
		Mean Score	Std. Deviation	95% Confidence Interval		
				Lower	Upper	p-value* (<0.05)
Over-all	Pre-test	42.96	11.00	-13.17	-9.08	0.001*
	Post-test	54.08	10.09			
Final impression (FI)	Pre-test	22.88	6.85	-7.14	-4.14	0.001*
	Post-test	28.52	6.00			
Jaw relation (JR)	Pre-test	20.08	5.48	-6.74	-4.22	0.001*
	Post-test	25.56	5.44			

The mean over-all, FI and JR score was compared between pre and post-test using paired

*The mean over-all, FI and JR score increased significantly from pre to post-test.

Students' perception towards ECE





Pre-MCQ test



Post-MCQ test



Faculty perception Thematic analysis

Faculty satisfied with ECE experience

Beneficial for students and patients

> Faculty shortage

Time consuming

Increased facultystudent interaction

Use of videoassisted T-L

ECE session



Videos of ECE sessions







Conclusion

ECE was effective in improving knowledge and understanding of complete denture clinical procedures among second year dental students Overall, both the students and faculty were satisfied with the experience

Take home message

ECE can be integrated in the traditional PCP curriculum with appropriate time and manpower allocation

Acknowledgement

References 1. Shigli K, Nayak SS, Sankeshwari B, Fulari D, Chopade S, Wadgave U, Jirge V, Murugaboopathy V. Effectiveness of an Early Clinical Exposure Module on the Performance of Second Year Dental Students - A Randomized Controlled Study. Ann Med Health Sci Res. 2017;7:236-241.

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