

A Comparison of the Patient's Satisfaction after Receiving Complete Denture Prostheses Fabricated by Under-Graduate and Post-Graduate Students

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ABSTRACT

Background: The purpose of this study was to compare patient's satisfaction after receiving complete denture prostheses fabricated by under-graduate students and post-graduate students.

Materials and Method: In this study 60 completely edentulous patients were randomly selected who received complete denture prostheses. Based on fabrication of complete denture prostheses by under-graduate students and post-graduate students, they were divided into two equal sub groups: Group A and Group B, each group having 30 participants. The participant's perception regarding the newly constructed prostheses were recorded using a questionnaire through Visual Analogue Scale (VAS).

Result: In this study, the result showed that the participants with complete denture fabricated by post-graduate students, 50% of participants gave totally satisfied (9-10) score for chewing ability, stability and retention, speech and general satisfaction whereas none of the participants with complete denture fabricated by under-graduate students gave totally satisfied (9-10) score.

Conclusion: The present study concluded that the participants with complete denture prostheses fabricated by post-graduate students were more satisfactory as compared to the participants with complete denture prosthesis fabricated by under-graduate students.

Keywords: Complete Denture, fabrication, students.

INTRODUCTION

Edentulism has a deep impact on the quality of life affecting individual's physiological, biological, social and psychological state. It can also cause a state of depression due to disturbances in speech, aesthetics, mastication and a feeling of inferiority¹.

Despite the development of dental implant therapy over the last few decades, conventional complete

denture still remains the most common treatment of choice for fully edentulous patients in a developing country like India. Hence, there is increased need for successful conventional complete denture fabrication².

The aim of the present study was to compare patient satisfaction after receiving complete

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Table 1: Distribution of psychological factors of complete denture prostheses fabricated by under-graduate students.

Score	Unsatisfied (1-2)	Somewhat satisfied (3-4)	Neutral (5-6)	Satisfied (7-8)	Totally satisfied (9-10)
Comfort	0%	0%	63.33%	23.33%	3.33%
Speech	0%	3.33%	53.33%	66.66%	6.66%
Stability and retention	0%	3.33%	43.33%	53.33%	0%
Chewing ability	0%	3.33%	46.66%	43.33%	6.66%
General satisfaction	0%	6.66%	36.66%	63.33%	3.33%

Table 2: Distribution of psychological factors of complete denture prostheses fabricated by post-graduate students.

Score	Unsatisfied (1-2)	Somewhat satisfied (3-4)	Neutral (5-6)	Satisfied (7-8)	Totally satisfied (9-10)
Comfort	0%	0%	0%	53.33%	46.67%
Speech	0%	0%	0%	46.67%	53.33%
Stability and retention	0%	0%	0%	50%	50%
Chewing ability	0%	0%	3.33%	50%	46.67%
General satisfaction	0%	0%	0%	50%	50%

denture prostheses fabricated by under-graduate students and post-graduate students.

MATERIALS AND METHOD

The study was carried out on 60 completely edentulous patients (35 male and 25 female) who received complete denture prostheses, from the Department of Prosthodontics, Crown & Bridge-Work and Oral Implantology, Faculty of Dental Science, Dharmsinh Desai University, Nadiad. The participants were divided into two equal groups of 30 participants each. Group A comprised of completely edentulous patients who had complete denture prostheses fabricated by undergraduate students. Group B comprised of completely edentulous patients who had complete denture prostheses fabricated by post-graduate students. The purpose of the study was first explained to each patient and written informed consent was obtained in a language which the patient can read and understand. Participants were asked to fill the given questionnaire. The participant's perception

regarding the newly constructed prostheses were recorded using Visual Analogue Scale (VAS). In Visual Analogue Scale, score (1-2) was unsatisfied, (3-4) was somewhat satisfied, (5-6) was neutral, (7-8) was satisfied and (9-10) was totally satisfied³. The data was collected and the obtained data was analysed by using t- test.

RESULTS

Table I and II, shows the calculated scores for the complete denture prostheses that were fabricated by under-graduate and post-graduate students.

This score was based on comfort, speech, stability & retention, chewing ability and general satisfaction.

The results shows that in the participants who received complete denture prostheses fabricated by under-graduate students, 18 participants had given neutral (5-6) score in comfort (63.33%) and 12 participants had given neutral score in chewing ability (46.66%).19 participants in speech

(66.66%), 15 participants in stability and retention (53.33%) and 18 participants in general satisfaction (63.33%) had given satisfied (7-8) score.

Also, the result shows that in the participants who received complete denture prostheses fabricated by post-graduate students, 16 participants had given satisfied (7-8) score in comfort (53.33%) and 15 participants had given satisfied score in chewing ability (50%). 16 participants in speech (53.33%) and 15 participants in stability and retention (50%) and general satisfaction (50%), had given totally satisfied (9-10) score.

DISCUSSION

Patient satisfaction has been the ultimate goal in any dental treatment. For patient receiving complete denture prostheses, many factors have a combined role in achieving his/her satisfaction. An efficient mastication, good aesthetics, comfortable speech and comfort in function are the factors in patient satisfaction. Therefore, successful treatment outcome, patient's perception about their satisfaction is important.

In a study done by Marinus AJ⁴, on determinants of dissatisfaction with dentures, the results showed that satisfaction with dentures for most patients is individually determined and for dentist and patient it is often unpredictable.

Michael Robert Fenlon et al⁵, also conducted a study in which they stated that quality of the mandibular residual alveolar ridges, retention and stability of the mandibular dentures, accuracy of reproduction of retruded jaw relationship and patient adaptability were powerful determinants of patient's satisfaction with new complete dentures.

Previous studies focused on patient satisfaction but it's clinical application and comparison between different operators was not done. Hence, this study was conducted to compare the differences between patient satisfaction after receiving complete denture prostheses fabricated by under-graduate and post-graduate students^{1,2,6,7,8}.

CONCLUSION

The present study concluded that the participants with complete denture prostheses fabricated by post-graduate students were more satisfactory as

compared to the participants with complete denture prostheses fabricated by under-graduate students.

CONFLICTS OF INTEREST

The authors declare they have no potential conflict of interests regarding this article.

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