Awareness of Cast Partial Denture as a Treatment Option among South Indian Population.

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Abstract:

Aim:
To assess the awareness among the patient about the cast partial denture as a treatment option for partially missing teeth.

Background:
Dental awareness and the access to preventive dental care have contributed significantly to a decreasing rate of tooth loss, the demand for removable prosthodontic treatment remains high due to low economic population.

Material and method: A total of 50 patients of age group 30 to 60 reported to saveetha dental college were included in this study. There were 26 females and 24 males. The selection criteria include partially edentulous patient who have undergone treatment for replacement of partially missing teeth, on basis of a self-explanatory questionnaire to assess the patient's reason to replace missing teeth, knowledge about partial dentures and awareness about cast partial denture.

Result:
The survey shows only 65% of patients were aware of cast partial denture, 75% of patients preferred cast partial denture as treatment option after getting dentist opinion. Patient reported 60% of them are good in Aesthetics 90% of are better in comfortability and functionality.

Conclusion:
The results of this survey among a selected sample of dental patients showed that the majority of the questioned subjects were not aware about cast partial denture, their uses, advantages and disadvantages. Hence the patients should informed about various removable prosthesis options and their merits and demerits.

Keyword: cast partial denture, temporary partial denture

INTRODUCTION:
Oral hygiene is important to such an extent that it can hinder a person’s ability to work and concentrate on his routine. Missing tooth is one of the most important factor which causes distress and some time devastating affect the person’s quality life. Replacement of missing teeth by dental prosthesis depends upon multiple factors, among those factors awareness of the patients regarding dental prosthesis is one of the very important factor. Broadly speaking Prosthodontics treatment has two main categories i.e. either removable prosthesis or fixed prosthesis. Improved knowledge and awareness in the patients undergoing prosthodontic treatment can help these patients to select more appropriate dental prosthesis for them. Requirements such as esthetics and functional comfort are considered more important in selection of prosthesis and also replacement of anterior is considered more important than posterior teeth by some patients. Young aged patient are more interested to have implant supported prosthesis rather than conventional prosthesis.(1) With the advent of implant supported dental prosthesis, there has been also an increase in the demand of fixed prosthodontic options. In prosthetic dentistry, patients do not want to wear a removable partial denture due to various reasons like fear of becoming loose or coming out, swallowing, hygiene and convenience. Any such pre perceptions regarding any treatment modalities should be identified and strategic planning for that particular patient at the end should allay all his/her fears. Every patient needs to be educated with determination till he does not understand his partial edentulous situation. On the other side, removable partial dentures are now used frequently incase where fixed prosthodontics is not indicated, the treatment of choice is usually the cast partial denture (CPD).(2) The aim of this survey is to assess the awareness among the patient who have undergone treatment for replacement of partially missing teeth about cast partial denture.

METHODOLOGY:
A total of 50 patients of age group 30 to 60 reported to saveetha dental college were included in this study. There were 26 females and 24 males. The selection criteria include partially edentulous patient who have undergone treatment for replacement of partially missing teeth, on basis of a self-explanatory questionnaire to assess the patient's reason to replace missing teeth, knowledge about partial dentures and awareness about cast partial denture.

Questionnaire:
1) When did you lose your teeth?
   a) 6 months back.
   b) 1 year back.
   c) 5 years back.
   d) more than 5 years.
2) How did you lose your teeth?
   a) Trauma.
   b) Caries.
   c) Periodontal disease.
   d) Intentional- to improve appearance.
3) Why do you think lost teeth to be replaced?
   a) Appearance
   b) Mastication
   c) Proper speech
   d) Preserve the health of remaining teeth

4) Did you meet your dentist immediately after you lose your teeth?
   Yes/ No

5) Are you aware of removable and fixed prosthesis?
   Yes/ No

6) Which prosthesis do you prefer?
   Removable prosthesis
   Fixed prosthesis

7) Why do you prefer fixed prosthesis?
   a) Aesthetics
   b) Comfort
   c) Maintenance
   d) Dentist’s opinion

8) Why do you prefer removable prosthesis?
   a) Immediate need to replace teeth
   b) To avoid operative time
   c) Economic
   d) Anxiety
   e) Dentist’s option

9) Do you have previous experience with removable denture if yes, what prosthesis?
   Yes/ No. If yes……………………………………..

10) Is this your first replacement?
    Yes/ No

11) What was the reason for replacement?
    a) Loss of retention
    b) Irritation
    c) Broken denture
    d) Aesthetic

12) Are you aware of cast partial denture?
    Yes/ No

13) Do you prefer/accept cast partial denture as replacement option?
    Yes/ No

14) If yes why do you prefer cast partial denture?
    a) Can replace many teeth
    b) Strong enough
    c) Better retention
    d) Doctors opinion

15) How was your comfortable with cast partial denture?
    (Good/ Better/ Best) (Good: 8, Better: 9, Best: 10)

16) How was your aesthetics with cast partial denture?
    (Good/ Better/ Best) (Good: 8, Better: 9, Best: 10)

17) How was your function with cast partial denture?
    (Good/ Better/ Best) (Good: 8, Better: 9, Best: 10)

RESULT:
The data collected from questionnaires were analysed and the following results were obtained and presented in form of pie chart.

PIE-CHART 1:

Time of partially edentulous condition

- Less than one year: 25%
- Between 1-2 year: 40%
- More than 2 year: 35%

Preference for Fixed and Removable prosthesis.

- Fixed prosthesis: 45%
- Removable prosthesis: 55%
PIE-CHART: 3 Reason for preferring Removable prosthesis

Reason for preferring Removable prosthesis

- Economic 70%
- To avoid operative time 10%
- Dentist opinion 15%
- Anxiety 5%

PIE-CHART: 4 Awareness about cast partial denture

Awareness about cast partial denture

- Yes: 35%
- No: 75%

PIE-CHART: 5 Reason for preferring cast partial denture

Reason for preferring cast partial denture

- Dentist opinion 75%
- Strong enough 10%
- Better retention 10%
- Can replace many teeth 5%

Pie chart: 6 Comfortability with cast partial denture

Comfort

- Good: 80% (Grade: 8)
- Better: 10% (Grade: 9)
- Best: 10% (Grade: 10)

Pie chart: 7 Aesthetics with cast partial denture

Aesthetics

- Good: 60% (Grade: 8)
- Better: 30% (Grade: 9)
- Best: 10% (Grade: 10)

Pie chart: 8 Functionality with cast partial denture

Function

- Good: 80% (Grade: 8)
- Better: 10% (Grade: 9)
- Best: 10% (Grade: 10)
DISCUSSION:
Rehabilitation of a partially dentate patient is an important form of dental treatment that is expected with competence from every qualified dentist regardless of the place/school of training. For a cast partial denture to be successful for a patient, the practitioner has to show determination in terms of making his patients understand benefits of such treatment option like long span edentulous areas, especially involving the posterior segments require adequate tooth support. There are many ways to determine patient’s knowledge and awareness. In this study a self designed questionnaire was used for this purpose to determine patient’s knowledge and awareness about cast partial denture. (3)

CONCLUSION:
The results of this survey among a selected sample of dental patients showed that the majority of the questioned subjects were not aware about cast partial denture, their uses, advantages and disadvantages. So there is a need to make patient aware of various removable prosthesis options and their merits and demerits with emphasis on cast partial denture.

REFERENCE:
1) CAST PARTIAL DENTURE-A NON-MOTIVATED TREATMENT OPTION IN THE PRESENT ERA Khurshid Mattoo 1, Shujaurrahman 2, Lakshya Yadav 3. 2015