

Characterization of A Complete Denture : A Case Report

Abstract:

Characterization is a process in which the character or collective qualities of a person are introduced in complete denture either by modification of teeth or by modification of denture bases, to make it more natural for that person, characterization of complete denture is necessary to give the denture a leaf like appearance, to make it appear more natural this case report reviews various principles in an effort to produce a natural appearing denture

Key-words: Complete denture, Characterization, Teeth, Denture

Introduction:

According to the glossary of prosthodontic term “denture characterization is modification of a colour of denture base and teeth to produce a more leaf like appearance” as said by Frush and Fisher the environment of the teeth is important as the tooth itself. thus the elements that must be considered in denture esthetic are teeth and their supporting denture base.

Case Report:

A patient aged 55 years reported to dental clinic with his two and half year old ill fitting dentures, patient was not happy with his dentures and wanted the replacement.



On examination it was found that the denture was ill maintained and had a suction tube in maxillary complete denture for retention. the lower denture was missing.

ORAL EXAMINATION:

On examination patient had :

Maxillary:

Ovoid Arch Form Mandibular:

Tapering Arch Form:

Both the arches had high well rounded ridges, and no tori was present. after the examination it was decided to fabricate a new denture for the patient, keeping the esthetic and functional criteria, we took his facial photographs and old photographs were used for esthetic consideration.

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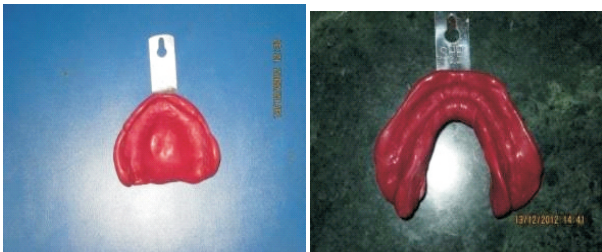
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Procedure:

- 1) Impression of maxillary and mandibular arches were made using impression compound.



- 2) **Special tray with spacer :** Maxillary : Boucher design
Mandibular: conventional boucher
- 3) Secondary impression was made using zinc oxide eugenol paste
- 4) Master cast poured with dental stone
- 5) Tentative jaw relation & teeth selection was done shade (a2 26)
- 6) Teeth arrangement was done in class 1 molar relation
Charecterization was done in 2 ways for this patient.
 - A) By the modification of teeth
 - B) by tinting of denture bases
- A) **Teeth arrangement:**
 - 1) Grinding the incisal edges : reshaping og incisal edges and mesiodistal diameter was done in both maxillary and mandibular arches.



- 2) Rct treated tooth : we used the darker colour tooth compared to other tooth in maxillary arch to show the characterization
- 3) Gingival tissue recede with age ,selecting a long tooth contouring wax to show gingival recession then staining a b it to give a natural appearance.



- 4) Crowding in lower anterior was given to provide natural appearance.
- 5) Rugae formation.



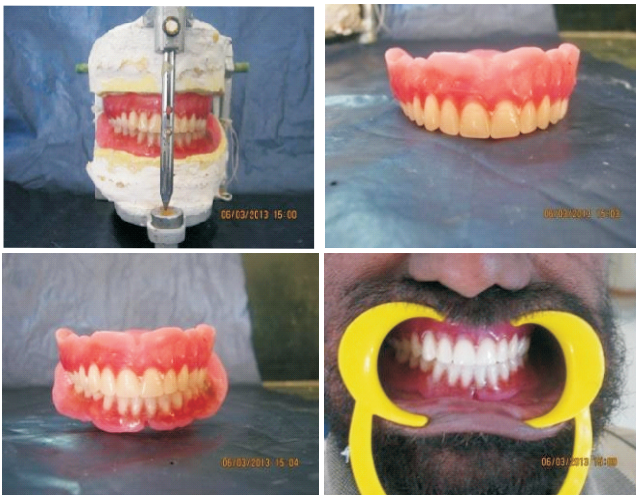
B) Tinting of Denture Bases:

Wax The Anterior Flange And Performed Gingival Charecterization(Festooning).

Stippling was done with the help of tooth brush bristles in try in stage ,after dewaxing separating media was applied to both the member (upper and lower) of flask.

Technique:

Clear heat cure acrylic was taken in appropriate amount then heat cure stains were added into this, alloed it to come in dough stage, these tints were applied area (attached gingival, interdental area, rugaue and the palatal region to show smokers palate), nw place a minimal amount of monomer to wet the powder, allow it to stand for 15 sec before tilting of flask, packed the remaining part with pink colour heat cure acrylic resin, curing , lab remounting ,and polishing of denture was done using pumice and rag wheel.



Conclusion: complete denture fabrication not only replaces the missing teeth but also restores esthetic, phonetics and function ,characterization of complete denture is necessary to give the denture a leaf like appearance to make it appear more natural every denture should be characterized according to particular patient ,rather than doing a pearl like arrangement of artificial teeth our esthetic aim is the production of anatomic characterization present before the extraction of teeth.

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