Introduction to Removable Partial Dentures.

Components & functions of a removable partial denture.

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Ref: McCraken’s Removable partial prosthodontics.
Stewart’s Removable Prosthodontics.
Consequences of tooth loss
Consequences of tooth loss

1. Esthetics
2. Speech
3. Drifting, tilting, over eruption
4. Loss of masticatory efficiency
5. Loss of vertical dimension
6. Deviation of mandible
7. Loss of alveolar bone
Indications
Indication of RPD

1) Long span edentulous area.
2) No abutment teeth posterior to edentulous area.
3) Reduced periodontal support.
4) Need for cross-arch stabilization.
5) Excess bone loss within the residual ridge.
Indication of RPD

6) Physical or emotional problem.

7) Aesthetics of primary concern.

8) Immediate need to replace extracted teeth.

9) Patients desire.

10) Unfavourable maxillomandibular relationships.
Contraindications
Contraindication of RPD

1) Age of patient (Young patient).
2) Sensitivity to alloy.
3) Length of edentulous span is less.
4) Parafunctional habits.
Terminologies
Terminologies

- Abutment,
- Retainer,
- Height Of Contour, Undercut Area, Suprabulge & Infrabulge
- Extracoronal & Intracoronal Retainers, Guide plane
- Intracoronal Retentive Assemblies [Patrix & Matrix],
- Tooth Supported Prosthesis,
- Tooth-tissue Supported Prosthesis,
- Tissue Supported Prosthesis,
- Metal Frame Work / Cast Framework
Terminologies

I. **Abutment**: is a tooth, a portion of tooth, or a portion of an implant that serves to support and/or retain prosthesis.
Terminologies

I. **Retainer**: any type of clasp, attachment, device, etc., used for fixation, stabilization, or retention of prosthesis.

Ref: Removable partial prosthodontics. By McCracken’s, 11Ed. P.7-8.
Terminologies

I. **Height of contour**: a line encircling a tooth, designating its greatest circumference at a selected position determined by dental cast surveyor.

Terminologies

I. **Undercut**: the term used when used in reference to an abutment tooth, is that portion of tooth lies between the height of contour & the gingiva.

Terminologies

I. Retainer: Two types

I. **Guide plane**: two or more vertically parallel surface of abutment teeth shaped to direct a prosthesis during placement & removal.

Terminologies

1) Tooth supported Prosthesis

2) Tooth – Tissue supported Prosthesis

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Terminologies

1) **Metal Frame Work for RPD**: Base metal alloys are used commonly, & principle contains is *nickel, chromium & cobalt*. Some are nickel free alloy & nickel contain alloys.
F. Components of RPD
Components of RPD

A. Major connector
B. Minor connector
C. Direct retainer
D. Indirect retainer
E. Denture base
F. Artificial teeth
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Summary
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A. RPD are the prosthesis which extends the partial edentulous phase to its maximum limit to avoid complete edentulism.

B. This can happen only if we have sound knowledge about the principles, method of fabricating it.
Thank you.

Every new beginning comes from some other beginning’s end.