

Acrylic Removable Partial Denture (RPD)

Acrylic removable partial denture (RPD) is a versatile dental prosthesis that can be used to artificially supply teeth and associated structures in a partially edentulous arch. Made from acrylic resin, it can be easily inserted and removed. An acrylic RPD consists of an acrylic resin denture base, artificial teeth, and wrought wire clasp or cast clasps. There are several types of acrylic partial dentures, all of which are of a temporary nature. They are designed to be used for a short time and are usually constructed as a part of the total prosthodontic treatment, requiring supportive care.



Types of Acrylic RPD

A- Temporary partial denture

A dental prosthesis is to be used for short intervals for *esthetics, mastication, occlusal support or convenience* or to *condition the patient to accept an artificial substitute for missing natural teeth until more definitive prosthetic therapy can be provided.*

There are three types of temporary partial denture:

1. Transitional partial denture.
2. Interim partial denture.
3. Treatment partial denture.

1. Transitional partial denture

A removable partial denture is a temporary prosthesis that provides immediate benefits. Artificial teeth can be added as natural teeth are lost, and the denture can be replaced after post-extraction tissue changes, ensuring a seamless transition.

Indication

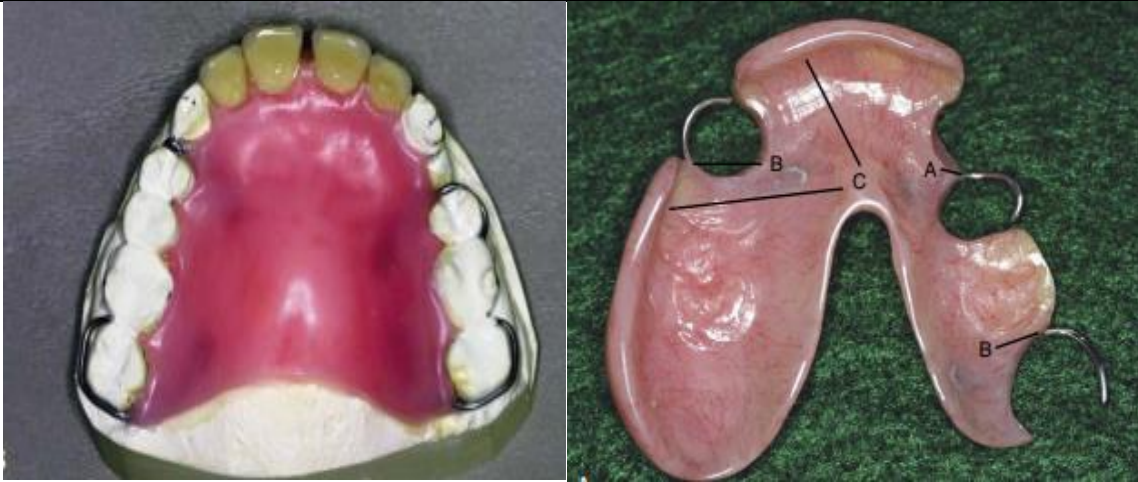
It is given when some or all the remaining teeth have a periodontally poor prognosis, but immediate extraction of all teeth is not indicated for physiological and psychological reasons.



2. Interim partial denture

The dental prosthesis given to the patient is not suitable for definitive treatment (at that time). The interim denture is worn till the patient becomes suitable for definitive treatment. It is used as an intermediate therapy until the permanent prosthesis is fabricated

Acrylic RPDs play a crucial role in maintaining oral health. When a space results from recent extractions or traumatic tooth loss, it is usually prudent to maintain it while the tissue heals. In younger patients, the space should be maintained until the adjacent teeth have reached sufficient maturity to be used as abutments for fixed restorations or so that *an implant can be placed*. In adult patients, space maintenance can *prevent undesirable migration and extrusion of adjacent or opposing teeth* until definitive treatment can be accomplished.



Indications

1. When age, health or lack of time precludes a more definitive treatment.
2. A fixed prosthesis cannot be given to a young patient with an anterior edentulous space because the pulp chambers of the adjacent abutment are large.
3. It can also be used in young patients with a posterior edentulous space, where a fixed prosthesis cannot be used for the above reason.
4. In people (geriatric or others) with health limitations cannot undergo lengthy appointments.
5. For economic reasons.
6. For someone who had an expected tooth loss and wants a denture within a short period.

3- Treatment acrylic partial denture

A dental prosthesis treats or conditions the tissues that support and retain a denture base.

Indications

- 1- As a vehicle to carry tissue treatment material.
- 2- To increase or restore the vertical dimension temporarily.
- 3- As a splint following oral surgical procedures.
- 4- As a night guard, protect the teeth from trauma due to oral habits.

B- Immediate denture

An immediate denture is “a complete denture or removable partial denture fabricated for placement immediately after the removal of natural teeth.

Indications

- 1- Maintenance of a patient's appearance.
- 2- Circumoral support, muscle tone, vertical dimension of occlusion, jaw relationship, and face height can be maintained. The tongue will not spread out as a result of tooth loss.
- 3- Less postoperative pain will likely be encountered because the extraction sites are protected.
- 4- It is easier to duplicate (if desired) the natural tooth shape and position.
- 5- Adaptation is more straightforward.
6. Speech and mastication are rarely compromised, and nutrition can be maintained.



Indications or Uses of the Acrylic Partial Denture

- 1- Esthetics.
- 2- Space maintenance.
- 3- Prevent migration or over eruption after extraction.
- 4- Maintenance of occlusal relationship.
- 5- Conditioning the teeth and oral structure.
- 6- Conditioning the patient.