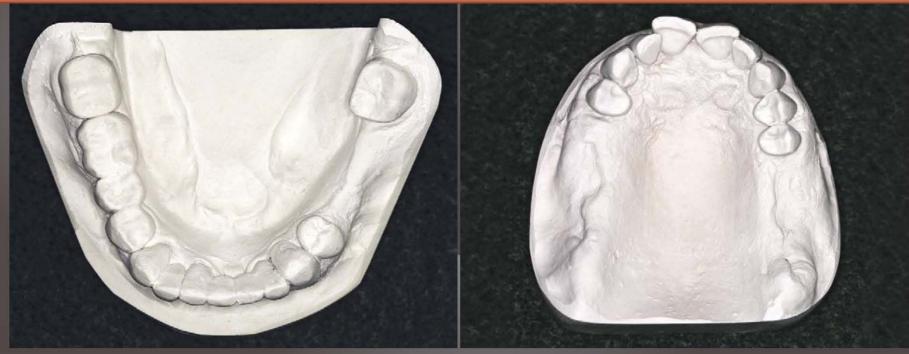
Design of Cr/ CO RPD

What is the type of support of your case !!!

- Tooth Supported (CL III, CL IV)
- Tooth Tissue Supported (CL I, CLII)



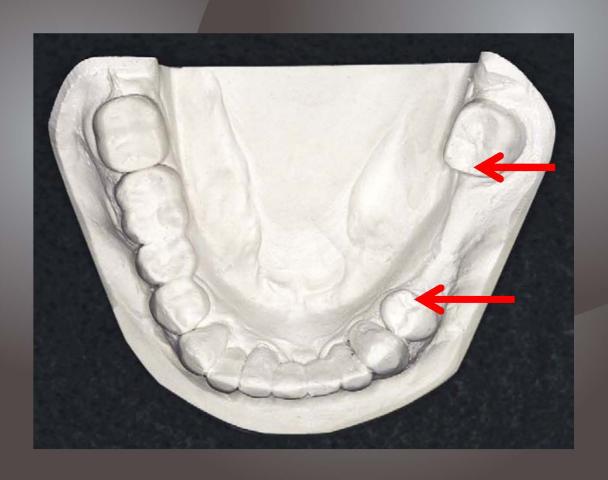
CL III

CLI

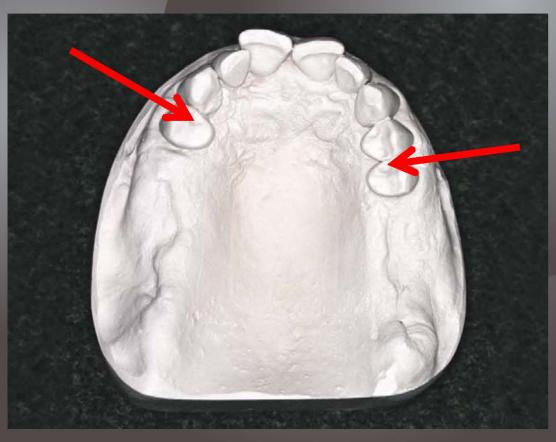
Design Sequence

- 1. Rests
- 2. Major Connector
- 3. Minor Connectors
 - Embrasure Minor Connectors
 - Gridwork Minor Connector
 - Proximal Plate Minor Connector
- 4. Direct Retainers & Stabilizing Components
- 5. Indirect Retainers
- 6. Denture Base

• Tooth Borne RPD: place rests adjacent to edentulous space (both ends)

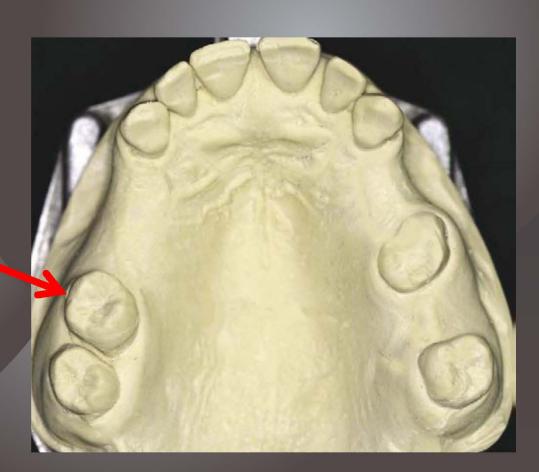


• Tissue/Tooth Borne RPD: mesial rest are preferred, but distal rest may be used when there is a large restoration on the mesial side.



• If the tooth is severely weakened periodontally than move the rest to the next tooth.

Tooth severely weakened periodontally



• Avoid placing rest on amalgam restorations. It is better to redesign the partial denture to avoid these restorations.



Types of Rest

A. Occlusal rest: placed on molars and premolars. This rest is the most preferred and should always be used if possible.



B. Cingulum rest: placed on anterior teeth. A canine is preferred over an incisor and when a canine is not present, multiple rests over several incisor teeth are placed.



C. Incisal rest: placed on incisal edge of anterior teeth. The incisal rest is rarely used.



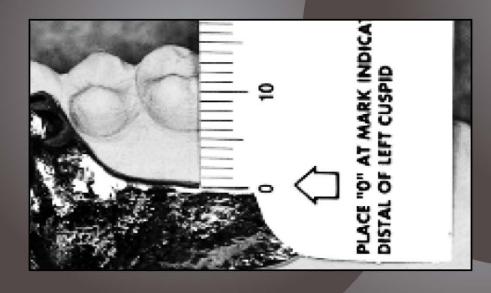
a. Assess tori (maxillary & mandibular), height of floor of mouth, and frenal attachments. These will affect the type of major connector selected.

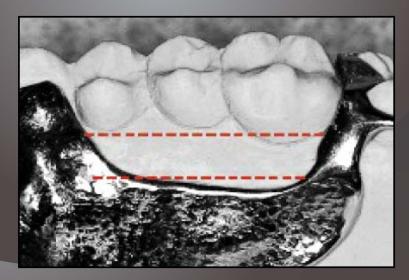


b. Major connectors should have smooth continuous contours that flow into other elements of the partial denture.



c. The borders of the maxillary major connector should be placed a minimum of 6 mm away from and parallel to the gingival margins.

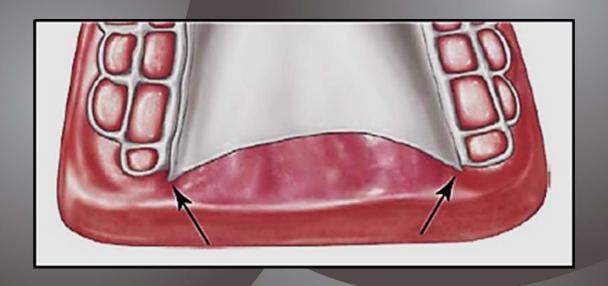




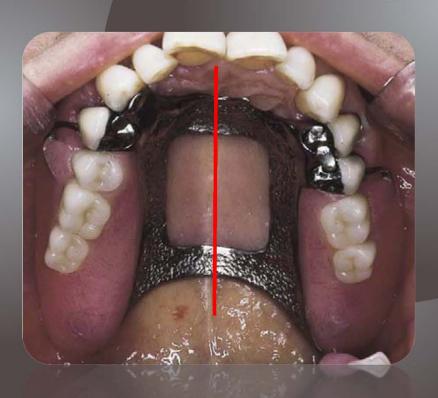
C. The borders of the mandibular major connector, should be a minimum of *4 mm below* the gingival margin.



d. The posterior extensions of a maxillary distal extension framework should point to the hamular notches



e. All maxillary major connectors should cross the midline at a *right angle* rather than on a diagonal and anterior border follows the valleys between rugae



Mandibular Major Connectors types:

- Lingual Bar: Whenever possible.
- Lingual Plate:
 - High floor of the mouth
 - Presence of tori
 - High frenum



Lingual Bar

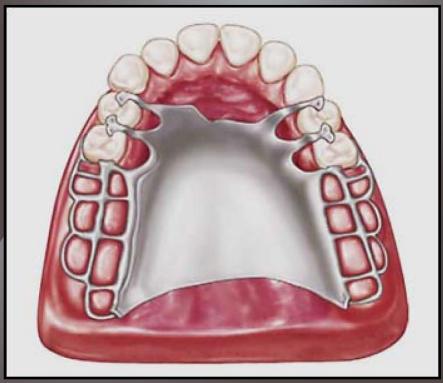


Lingual Plate

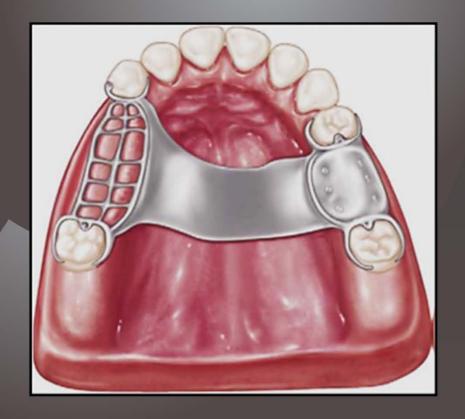
• Combination anterior and posterior palatal strap may be used with any Kennedy classification, but most frequently in Classes II and IV.



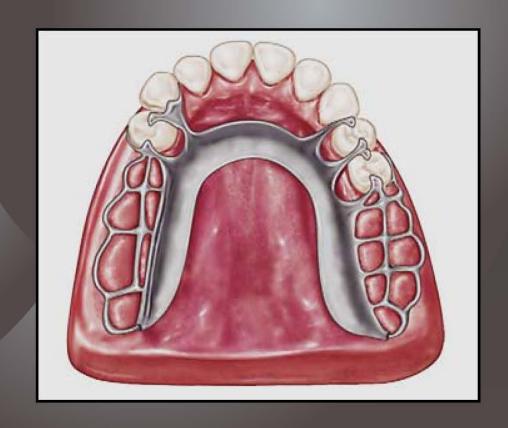
• Palatal plate is used most frequently in Class I situations in which only some or all anterior teeth remain.



• Single palatal strap is mostly used for bilateral edentulous spaces of short span in a tooth-supported restoration as in Class III situations.

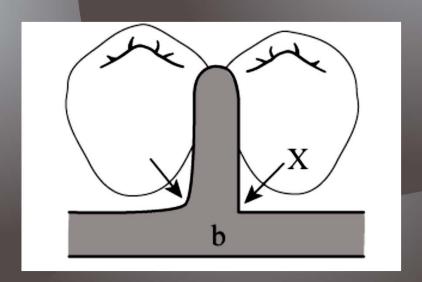


• U-shaped use indicated when a large inoperable palatal torus that extends posteriorly.



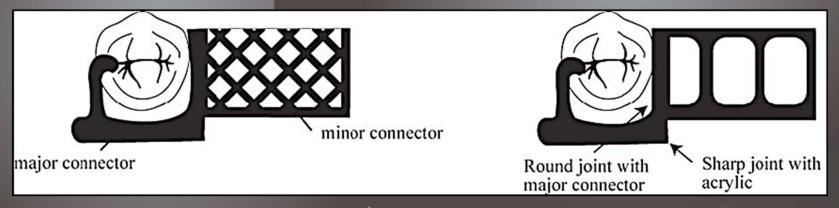
A. Embrasure Minor Connectors:

Minor connectors should join the major connector at a right angle and cover as small an area of tissue as possible.



B. Gridwork Minor Connector:

•Form: This can be in the form of a mesh or lattice. The lattice is preferred more.

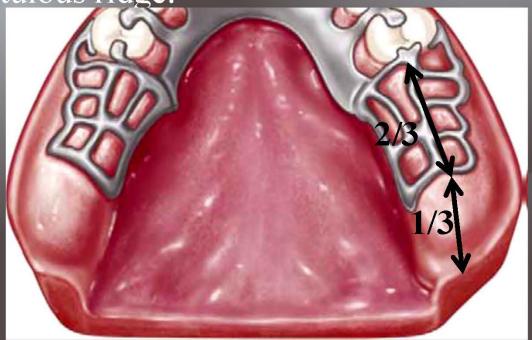


Mesh Gridwork

Lattice (ladder) Gridwork

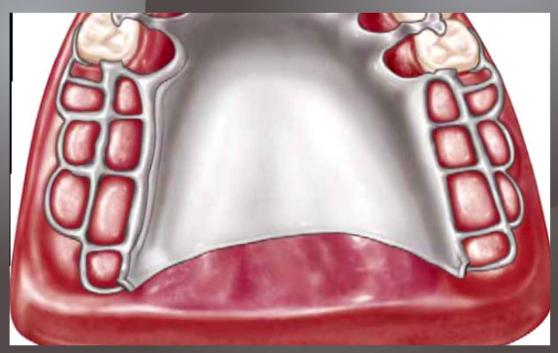
B. Gridwork Minor Connector:

- Extension in CLI & II cases:
- For the mandibular distal extension base, it should extend posteriorly about two-thirds the length of the edentulous ridge.



B. Gridwork Minor Connector:

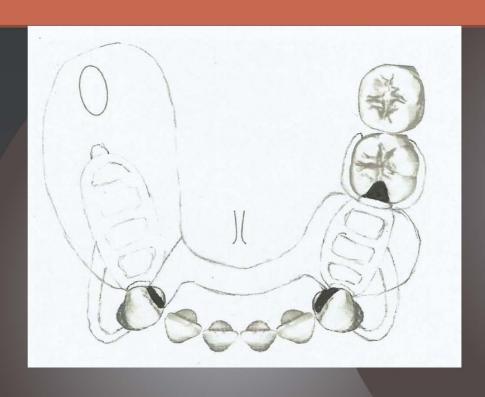
- Extension in CLI & II cases:
- For the maxillary distal extension base, it should extend the entire length of the edentulous ridge.

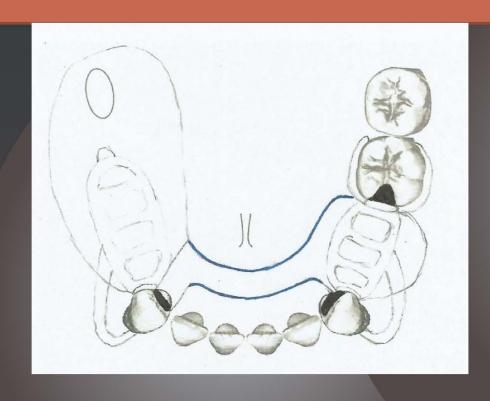


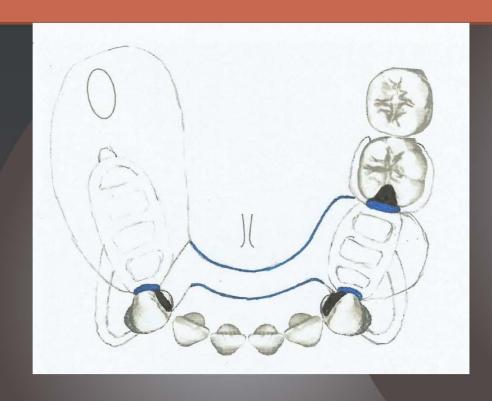
Co/Cr RPD Design

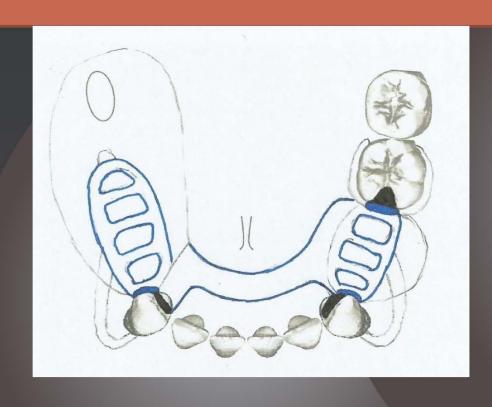
Examples

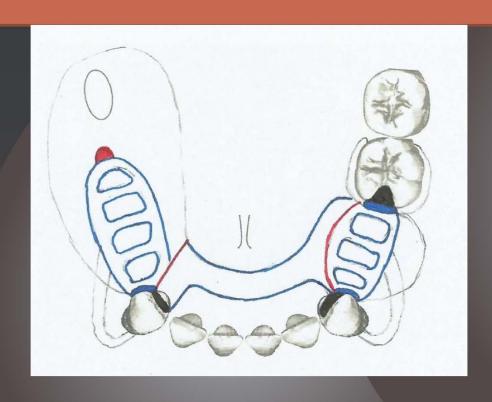


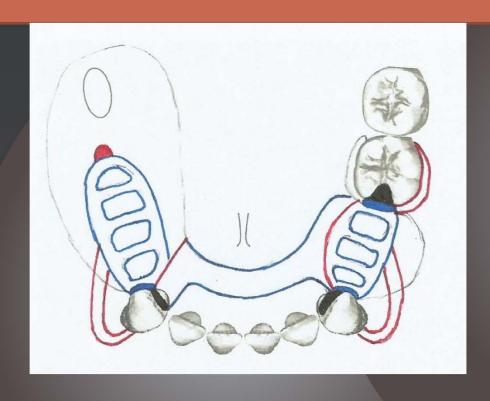


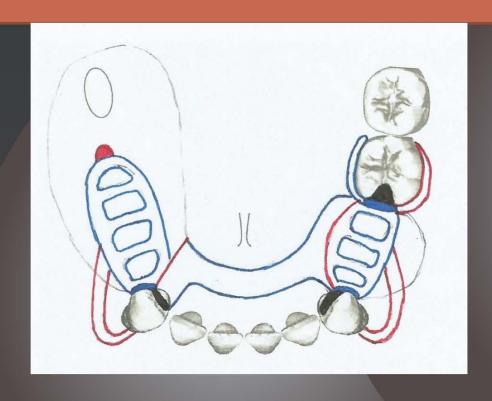


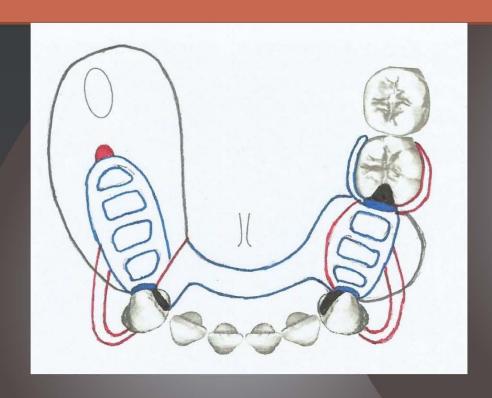


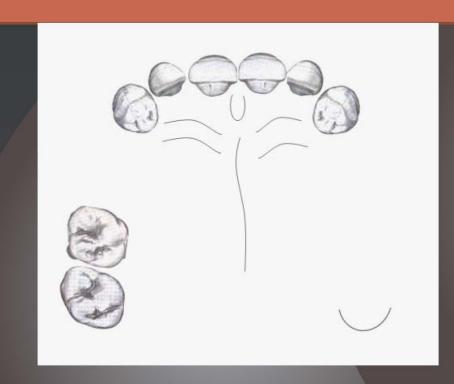


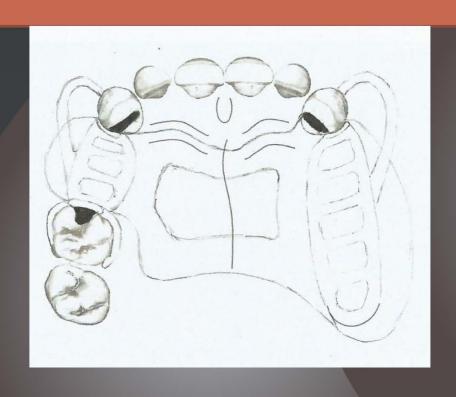


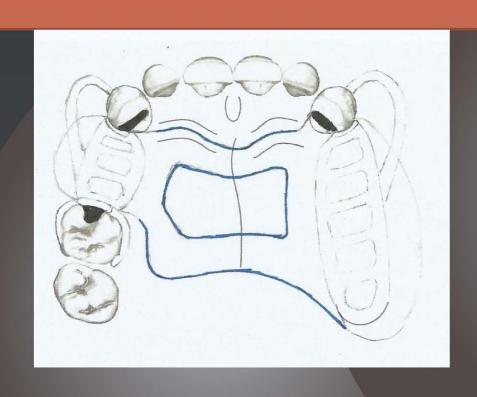


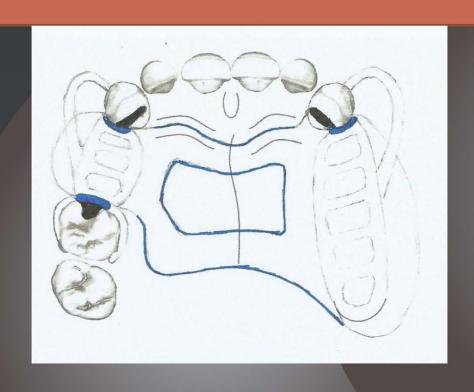


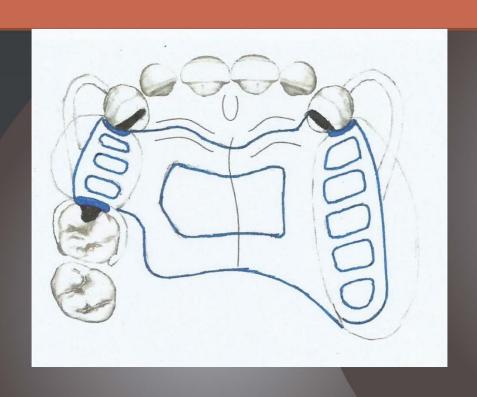


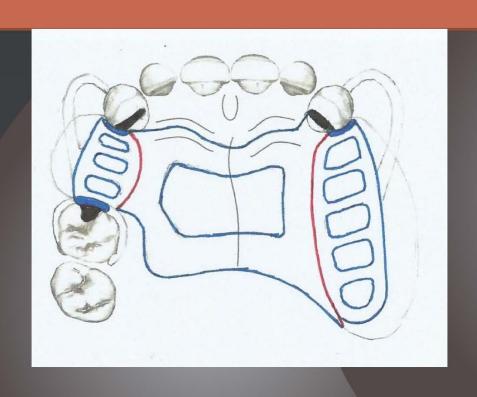


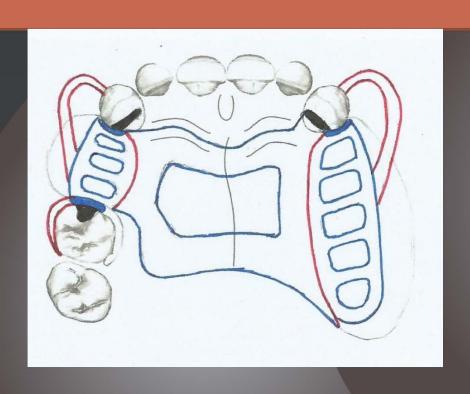


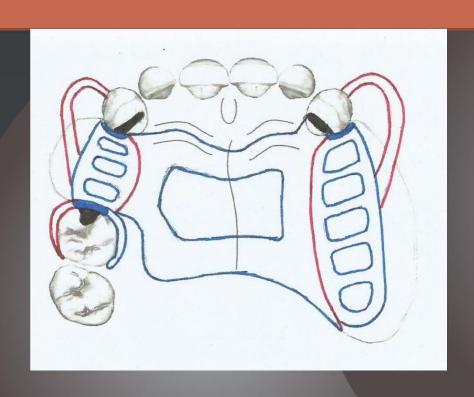














THANK YOU