



Removable Partial Denture Considerations in Mandibular Prosthetics

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Mandibular resection results in defects that may preserve mandibular continuity or may result in discontinuity defects.



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These are further subclassified by Cantor and Curtis:

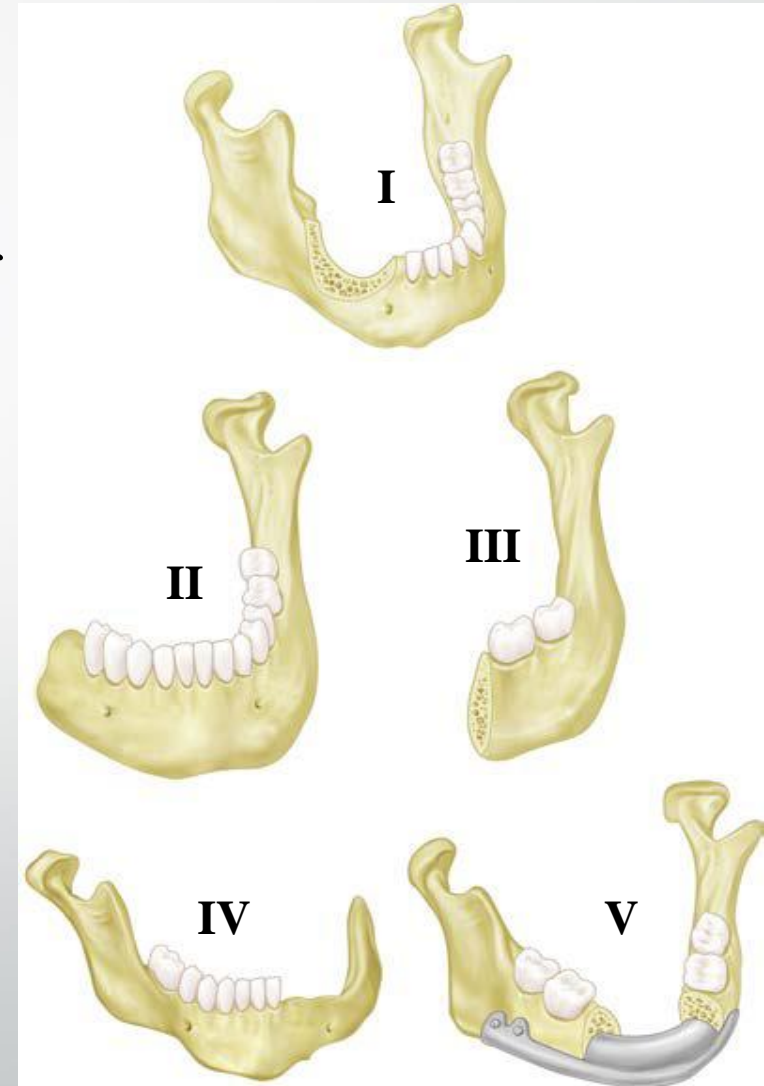
Class I: radical alveolectomy with preservation of mandibular continuity.

Class II: lateral resection of the mandible distal to the cuspid.

Class III: lateral resection of the mandible to the midline.

Class IV: Lateral bone and split-thickness skin graft.

Class V: Anterior bone and split-thickness skin graft.



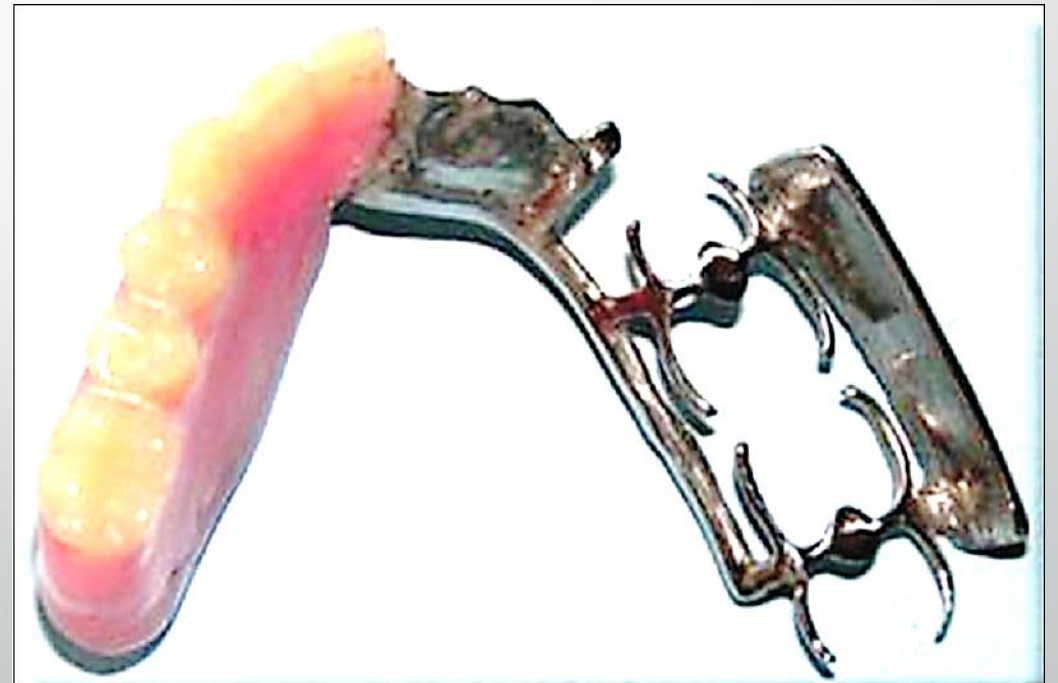
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Resection prostheses are those prostheses provided to patients who have acquired mandibular defects that result in loss of teeth and significant portions of the mandible.



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All framework designs should be dictated by basic prosthodontic principles of design.



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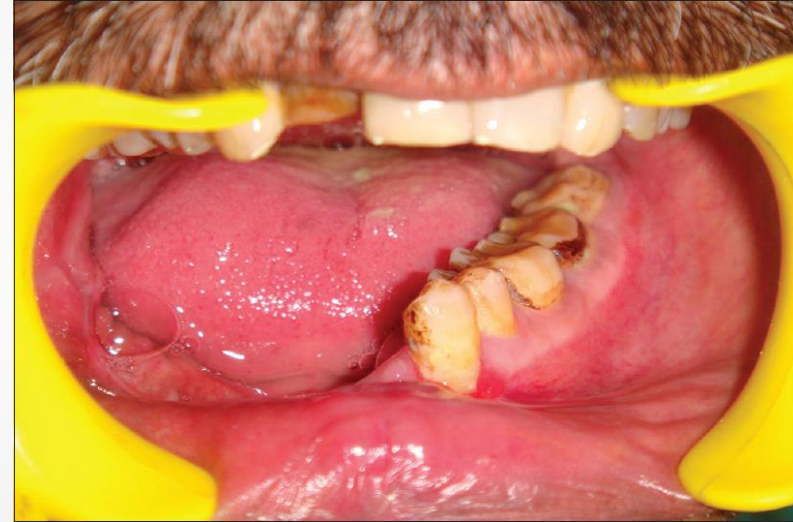
These include broad stress distribution, cross-arch stabilization with use of a rigid major connector, stabilizing and retaining components at locations within the arch to best minimize dislodging functional forces, and replacement tooth positions that optimize prosthesis stability and functional needs.



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Modifications to these principles are determined on an individual basis and are greatly influenced by unique residual tissue characteristics and mandibular movement dynamics.

Type I Resection



In a type I resection of the mandible, the inferior border is intact with normal movements. The major difference between this situation and a typical edentulous span is the nature of the soft tissue foundation.

Type I Resection

The denture-bearing area may be compromised by closure of the defect with the use of adjacent lining mucosa (which can reduce the bucco-lingual width), or by the presence of a split-thickness skin graft.



Type I Resection

If the defect is unilateral and posterior, the framework would be typical of a Kennedy Class II design, taking into account whatever modification spaces may be present.



Type I Resection

When the marginal resection is in the anterior area, the design may be more typical of a Kennedy Class IV design.



Type I Resection

Anterior marginal resections sometimes include part of the anterior tongue and floor of the mouth. With loss of normal tongue function, the remaining teeth are no longer retained in a neutral zone, and as a result, they often collapse lingually because of lip pressure. If this occurs, the use of a labial bar major connector may be necessary.

