

6. Appendix

6.1 Appendix A

6.1.1 Chair-side modification of an existing lower denture into an overdenture supported by Novaloc® Abutments

For an existing **well-fitting** and **well-functioning** lower complete denture, the **Novaloc® Retentive System** can be used in a chair-side procedure.

Caution: It is a prerequisite however, that the lower complete denture does not need to be relined by a **dental technician**.



Place white Mounting Collars on each Novaloc® Abutment. The Mounting Collars are used to block out the area surrounding the abutments.

Caution: If the Novaloc® Mounting Collars do not completely fill the space between the mucosa and the Matrix Housings any remaining undercuts must be blocked out to prevent resin flowing under the Matrix Housings. This can be accomplished by stacking two or more Mounting Collars or a custom sized and pierced piece of rubber dam.

Then place a Matrix Housing with white Mounting Insert onto each Novaloc® Abutment, leaving the white Mounting Collar beneath it.



Prepare the lower complete denture to accommodate the Novaloc® Matrix Housings. Hollow out the existing denture base in the areas of the Novaloc® Matrix Housings with handpiece and resin bur.

Note: Novaloc® Processing Spacers can be used instead of Matrix Housings to create the space needed in the denture.



Use wash impression silicone to confirm adequate clearance between the Matrix Housings and the denture base.



Insert the lower complete denture into the patient's mouth and check the clearance. The Matrix Housings fixed on the abutments should not touch the denture base. Reconfirm adequate space using wash impression silicone. Adjust the denture base until seated passively in occlusion without touching the Matrix Housings.



Prepare the recess in the lower complete denture with monomer. Protect areas where you don't want the resin with a thin layer of petroleum jelly.



Fill the hollowed area with self-curing PMMA resin to polymerize the Matrix Housings in the denture.

Apply a small amount of acrylic resin to the recess of the denture base and around the Matrix Housings. Insert the lower complete denture into the oral cavity.



Once the lower complete denture is properly seated, maintain the patient in full occlusion while the acrylic sets.



Once the resin has cured, remove the lower complete denture from the mouth and discard the white Novaloc® Mounting Collars. Put the lower complete denture in hot, but not boiling, water. Place it in a pressure pot when available.



After final curing, remove any excess acrylic and finish the denture base.

Exchange the Mounting Inserts for the final Novaloc® Retention Inserts and insert the final overdenture into the patient's mouth. For details see brochure *Basic Information on the Straumann® Novaloc® Retentive System for Hybrid Dentures* (490.115).

6.2 Appendix B

6.2.1 Preparation for lab-side modification of an existing lower denture into an overdenture supported by Novaloc® Abutments

If the lower complete denture's fit is inadequate (poor adaptation to underlying tissue) after surgery and major adjustments are necessary, indirect relining of the mandibular denture is necessary. This means that relining and insertion of Novaloc® Matrix Housings incl. Mounting Inserts are performed by the dental technician immediately after border mold impression-taking. Lab-side relining has to be planned in advance with your dental technician.



Place a Novaloc® Forming/Fixing Matrix onto each Novaloc® Abutment.



Hollow out the existing denture base in the areas of the Novaloc® Forming/Fixing Matrices with handpiece and resin bur.



Use wash impression silicone to confirm adequate clearance between the Matrix Housings and the denture base.



Insert the lower complete denture into the patient's mouth and check the clearance. The Matrix Housings on the abutments should not touch the denture base. Reconfirm space using wash impression silicone. Adjust the denture base to seat passively in occlusion without touching the Matrix Housings.



Prepare the lower complete denture for **border mold impression technique**.

- Remove any undercuts from the denture base.
- Check for peripheral extensions and if necessary (optional) adjust them with thermo-plastic materials (border molding).
- Dry the inner surface of the mandibular denture with alcohol and apply the corresponding adhesive.



Take a reline impression.

Apply polyether impression material to the internal aspect of the lower complete denture, and take a reline impression with the patient in occlusion.





Once the impression material has cured, remove the lower complete denture with the Novaloc® Forming/Fixing Matrices from the mouth. If the Novaloc® Forming/Fixing Matrices did not remain inside the impression, carefully reseat them into the relined impression.

Send the mandibular denture to the dental technician to reline it, integrate the Matrix Housings and convert it into an overdenture. After having received the final overdenture from the **dental technician** exchange the Mounting Inserts for the final Novaloc® Retention Inserts and insert the final overdenture into the patient's mouth. For details see brochure *Basic Information on the Straumann® Novaloc® Retentive System for Hybrid Dentures* (490.115).

Straumann North American Headquarters

ifu.straumann.com

Straumann USA, LLC

60 Minuteman Road

Andover, MA 01810

Phone 800/448 8168 (US) • 800/363 4024 (CA)

Fax 978/747 2490

www.straumann.us • www.straumann.ca