Stackable Guide Solutions

Bone Reduction Guide Package

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Stackable Guide Solution

A Bone Reduction Guide is a bone supported stackable guide that allows for resection, implant insertion, and provisional positioning.[1]

As these are considered complex cases, Implant Concierge® recommends a Virtual Implant Planning (VIP) meeting.

Components Include:

- The **Delivery Guide** or dental reference part is designed to intimately fit onto the existing teeth for terminally dentate cases, if present. This guide contains inspection windows that allow you to anatomically verify that the Delivery Guide is accurately seated.
- The **Base Guide (Bone Reduction Guide)** is your foundation guide and is used to perform bone reduction surgery. All other guides and provisional appliances are designed to connect to this guide. It must fit intimately to the bone and will include the female connection and anchor pin sleeves.
- The **Implant Surgical Guide** includes metal sleeves which provides the direction and depth control for each implant osteotomy. The male connectors fit into the Bone Reduction Guide.
- The **3D Printed Model** allows you to stage the delivery of the different guides and visually see the planned reduction level of bone.

Delivery Guide [#1]

Bone Reduction Guide [#2]

Implant Surgical Guide [#3]

3D Printed Model

[1]Provisional positioning not included in the Bone Reduction Guide package. If provisional design is requested, additional information (ie. occlusion scan, post-operative prosthetic situation stl., etc.) will be required, and it is necessary to provide the files in the same relative reference system.

Step-by-Step

Deliver Bone Reduction Guide

1. Follow the instructions of your personalized surgical protocol as each case may have unique scenarios (tooth extraction, flap extension) prior to delivering the Bone Reduction Guide.

2. Reflect the soft tissue from the alveolar bone extending apically to allow the Bone Reduction Guide to properly seat.

3. OPTION 1:
   - Extra-orally, Connect Delivery Guide [#1] to Bone Reduction Guide [#2].
   - Position Delivery Guide [#1] and Bone Reduction Guide [#2] onto anatomy.
   - Utilize anatomical verification windows to ensure Delivery Guide [#1] is fully seated.

   OPTION 2:
   - Intra-orally, seat Bone Reduction Guide onto anatomy [#2]
   - Connect Delivery Guide [#1] utilizing the verification windows to ensure it is fully seated.

4. Verify that the Bone Reduction Guide [#2] intimately fits to the bone.

5. Drill Anchor Pin osteotomy.

6. Insert Anchor Pin until it reaches depth.

7. Repeat for each Anchor Pin site alternating from side to side.

Soft Tissue Reflection

Connect Delivery Guide to Bone Reduction Guide

Option 1: Position Bone Reduction Guide

Option 2: Position Bone Reduction Guide

Deliver Anchor Pins

Extractions and Alveoplasty

1. Carefully remove Delivery Guide [#1] from the Bone Reduction Guide (BRG) [#2], leaving BRG in the mouth.
2. When applicable, extract teeth as indicated on the surgical protocol.
3. Reduce the alveolar crest until level with the contour of the Bone Reduction Guide [#2].

Note: During the bone reduction process, minimize contact with the bone reduction guide.

Remove Delivery Guide

Bone reduction completed

Implant Osteotomies and Placement

1. Connect Implant Surgical Guide [#3] to Bone Reduction Guide [#2]. Confirm proper fit between the two guides and if [#3] it doesn't fully seat, remove the guide and re-evaluate bone reduction.
2. Carefully review and follow surgical protocol. Always follow implant manufacturer guidelines.

Note:

- Fully guided cases will allow implant placement through the guide as indicated on the surgical protocol.
- Partially guided cases will require removal of Surgical Guide [#3] before placing implants.
- If the implant is placed sub-crestal, bone profiling around the implant shoulder may be required to fully seat the abutment.

Connect Implant Surgical Guide

Surgical Protocol

Add-On Services

Provisional Design

- **Wax-Up Design Service**
  Wax-up design for prosthetically driven implant placement.
- **Provisional Design**
  The provisional design including the male connector is provided in .STL format to print in-house or at a local laboratory.

  Note: Only available if Wax-Up has already been completed by Implant Concierge or your local laboratory.

Premium Connectors

Implant Concierge offers the possibility to upgrade the connectors to our stackable guide solutions.

Note: Each individual case may be evaluated with your case coordinator to identify if these connectors are the most suitable option for your guide.

Required Files

- .STL files: extended impressions including flange portions that are not expected to be affected by changes during surgery.
- DICOM dataset: as less artifacts (or noise) as possible means better results, both for bone crest segmentation (resection guide cases) and for .STL matching.

For more information visit ZimVie.eu

ZimVie US Corp LLC
4555 Riverside Drive
Palm Beach Gardens, FL 33410
Tel: +1-561-776-6700
Fax: +1-561-776-1272
dentalCS@ZimVie.com

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EU Medical Device Classification: Class I. The Surgical Guides are used to guide the surgical drills in orientation and depth, according to the RealGUIDE software planning, or to perform guided osteotomies according to the Doctor's planning. The products here shown are not eligible for reimbursement in France.

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