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B&B DENTAL GUIDED SURGERY CHECKLIST

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PATIENT:

STEP 1 DIAGNOSIS

Diagnosis is the first important step to performing a guided surgery treatment using the B&B Dental system.

There are a few checks that a clinician "ABSOLUTELY" must make:

Mouth opening

A practical method to evaluate if the spaces available are adequate consists in inserting a guided surgery drill in the handpiece and trying to gain access to the oral cavity. (Please note that guided surgery drills are 9 mm longer than those used in conventional surgery)

Bone thicknesses

Always check the thicknesses available and determine whether an anatomical support structure is available for the (radiological and surgical) templates

Distance between teeth

The overall dimensions of the sleeves to be inserted range from 6.5 mm for the 4.2 mm sleeve to 7.0 mm for the 5.5 mm sleeve

Presence of metals in the oral cavity

The presence of small metal restorations in the oral cavity is generally not a problem. However, metals are known to cause an annoying scattering effect, which is why creating a radiological template is always recommended.

STEP 2 IMPRESSION

The accuracy of the impression, as we know, is vital for a successful outcome. This is why we differentiate between partial and full edentulous patients:

Partial edentulous patients

Use two-component silicones (base and light) and allow the proper curing times, avoid alginates

Full edentulous patients

Use polyether based materials (such as Impregum), compress the mucous membranes well, allow the proper curing times, or use alginates (if you have nothing else) cast immediately

Intraoral impression

It can only be used if the radiological template is not needed (see step 6 matching)

STEP 3 RADIOLOGICAL TEMPLATE

The radiological template is essential for the correct matching of DICOM and model:

Partial edentulous patients

Use a rigid thermoplastic base 1 to 1.5 mm thick

Full edentulous patients

Use a base and stabilising rim made of light-curing resin.

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It is recommended to always use a wax-up or denture to create the radiological template in order to identify a correct emergence profile of the implant and improve the aesthetics of the final restoration, and place the radiopaque markers in the following positions:



- 1** One in retroincisal area in cingulate area, if any crowns are present, move it to the palate area
- 2** Two on the vestibular surfaces of the canines
- 3** Two on the vestibular surfaces of the canines

Before taking the CAT scan, ensure that the radiological template is properly positioned in the oral cavity and instruct the patient on how to position it. IF THE PATIENT NEEDS TO GET THE SCANDONE AT A DIFFERENT CENTRE, HAND THEM THE "CBCT REQUEST FORM" AND INSTRUCT THEM ON HOW TO POSITION THE RADIOLOGICAL TEMPLATE CORRECTLY.

STEP 4 CAT SCAN IMAGES

To obtain an easily usable and clearly viewable image, set up the Cone-Beam machine as follows:

1. DICOM Standard
2. 0.3 to 0.6 mm slice
3. 8 cm FOV
4. No anti-scattering filter
5. No stitching system

Double scan system: can only be used for full edentulous patients.

STEP 5 DOCUMENTATION AND MATERIALS REQUIRED TO ACTIVATE

THE CASE

Before we can proceed, we need:

- DICOM Standard CAT scan**
- physical or STL model**
- physical or STL radiological template**

STEP 6 MATCHING AND PLANNING

There are two different matching techniques:

- **Radiological template:** For full edentulous patients or if metals are present in the oral cavity (crowns, bridges, large amalgam restorations)
- **Dental landmarks or intraoral impression:** If the patient has teeth arranged

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in such a way that they can be used as landmarks (e.g. 2 canines and 2 molars) and there is no metal present, then the DICOM can be aligned with the teeth.

You can choose to use our expertise to complete your case or handle it fully independently.

If you would like B&B Dental to manage your project, you will need to fill out and sign the "B&B DENTAL GUIDED SURGERY FORM".

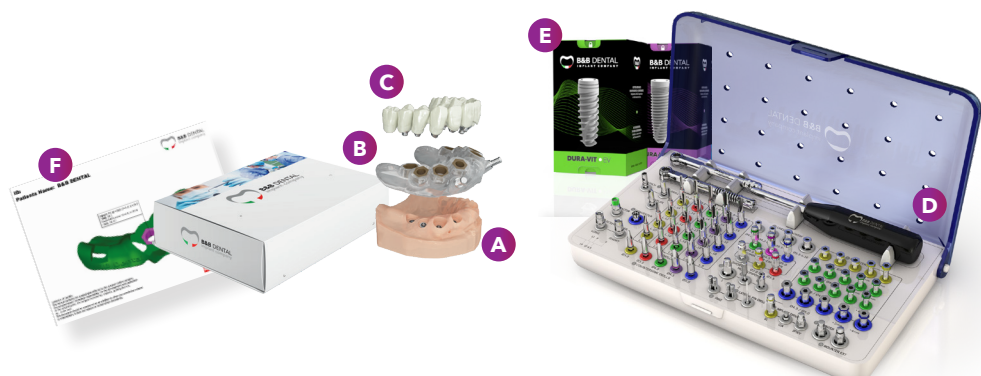
STEP 7 SURGICAL TEMPLATE AND MODEL

The surgical template is moulded only after the project is accepted in writing by submitting the authorisation to proceed with the application completed and signed by the clinician. You can also request the prototype model with analogs and a milled multilayer PMMA provisional for immediate loading

STEP 8 SURGERY

You are now ready for the surgery and you will receive all the material you requested well in advance!

- A** MODEL (with analogs)
- B** SURGICAL TEMPLATE
- C** PROVISIONAL (with prosthetic pillars)
- D** SURGICAL KIT for rent
(if you don't own a kit)
- E** IMPLANTS (on request via e-mail)
- F** SURGICAL REPORT (with implant, drill and offset information)



For information or technical support: lab.guided@bebdental.it