Nobel Clinician - Quick Guide

Step #1 - Diagnostics
Make impressions of both the upper and lower arches using custom trays. Care should be taken to capture the complete palate as well as buccal and lingual vestibules. If using alginate or hydrocolloid, the impressions should be poured within five minutes to ensure accuracy. Record a bite registration using a rigid bite registration material. Take photographs of the patient for the lab to use as reference.

Step #2 - Radiographic CT Guide
To properly design your case, it is necessary to fabricate a laboratory processed Radiographic CT Guide. This guide is custom made to anatomical contours simulating the ideal position of each tooth being restored. The Radiographic CT guide should be verified intra-orally to ensure proper fit prior to CT scans. A rigid bite registration should be made intra-orally at a slight opening of 2-4mm to allow for separation between the upper and lower arches in the Nobel Clinician software.

Step #3 - CT Scans with the Radiographic CT Guide
Refer the patient to an X-Ray lab for CT scans. The patient will need to bring the Radiographic CT Guide, bite registration, and RX to the x-ray lab for a two-part CT scan. The Nobel Clinician protocol should be indicated on the x-ray lab RX. Send a copy of the CT scans (CD, USB Drive etc.) to the laboratory for Nobel Clinician case planning.

Step #4 - Nobel Clinician Planning
The case will be planned using the Nobel Clinician software according to the prescription provided. If the planning is done at the laboratory, the case file can be emailed to the specialist and restoring clinician for further review. If guided surgery is planned for the case, proceed to step #5.

Step #5 - Guided Surgery
Nobel Clinician offers CAD/CAM guided surgery stents for precise, flapless placement of Nobel Biocare implants. The Nobel Guide protocol requires specialized tools designed to work with a specific drilling protocol. For questions about the tools necessary, please contact Nobel Biocare to speak to the local surgical representative.
CT Scan Protocol

X-Ray Lab Technician:
The following details are required with completing the CT scan for the Nobel Clinican software. If you have any questions about the information listed, please contact Ryan Haupt at 714-529-9792 prior to completing the scan(s).

1. The CT device should be set to scan at a minimum of 10 seconds at .4 voxel slices for both the patient scan and appliance by itself scan.
2. First scan the patient with the clear acrylic appliance intraorally. Use the bite registration provided to stabilize the appliance.
3. In addition to the scan of the patient with the intraoral appliance we need another scan of the intraoral appliance by itself. This scan should be done on a foam pad without the bite registration. Be sure to set the scan to start below the appliance to capture the complete detail.
4. Provide the dicom data sets for both the patient and appliance (2 sets of dicom data) on a CDROM.

Please mail a copy of the CDROM to the doctor and Haupt Dental Lab

Haupt Dental Lab
1220 E. Birch Street Suite 201
Brea, CA 92821
(714) 529-9792
Radiographic Guide Quick-Guides

A reminder and checklist for design of a Radiographic Guide for NobelGuide™

Dear NobelGuide™ doctor,

Good Radiographic Guide design is essential to a successful treatment plan and restorative outcome with NobelGuide™.


These are intended to aid you in the proper design of the Radiographic Guide and Radiographic Index for your future NobelGuide™ cases. Print extra copies to share with your restorative doctors and dental labs.

These Quick Guides would also make an excellent hand-out for your next study club and could also be used at a lunch-and-learn to help educate your staff on what to expect during the course of treatment so they are better able to support your patients.

But wait, there’s more!

If you would like to present information on Radiographic Guide design to your study club or restorative doctors, then this PowerPoint is for you! A complete, one-hour module with details on Radiographic Guide design for the fully and partially edentulous case, including three videos will help to explain the proper way to prepare a Radiographic Guide and Radiographic Index. With excellent images and thorough speakers notes, this is a “ready-to-give” presentation or you can supplement it with your own materials and experiences.

Please drop me an e-mail listed below and I will promptly drop one in the mail to you*.

If you have any questions regarding NobelGuide™ or Procera® software, please feel free to contact Technical Support at 1-888-725-7100 or e-mail to technical.support.us@nobelbiocare.com.

Regards,

Brian Volken
Implant Technical Marketing Manager
brian.volken@nobelbiocare.com

* Radiographic Design Module CD offer is valid only for currently licensed owners of NobelGuide™ Procera® Software.

If you believe you have received this newsletter in error or do not wish to receive any further information by e-mail or fax in the future, please contact me at (714) 282-4816 or brian.volken@nobelbiocare.com and you will be removed from this list.
Fully Edentulous
A successful NobelGuide™ procedure begins with the creation of a properly and carefully designed Radiographic Guide. The Radiographic Guide will communicate the desired restorative outcome to the entire treatment planning team before the surgery begins. Refer to the NobelGuide™ Concept Manual for complete instructions for use.

Step One – Design Ideal Prototype Restoration

Fully edentulous prototype restoration checklist
You may use the patient’s existing denture if the criteria below can be met. If not, duplicate the denture in clear acrylic and adjust as necessary.

- Teeth are proper size, shape & length
- Occlusion and vertical dimension are properly established
- No metal components
- Sufficient thickness (2.5 – 3mm)
- Buccal flanges of sufficient length to place gutta percha markers and to support Guided Anchor Pins
- Excellent fit to soft tissue
- Hard reline only-no soft reline
- No radio opaque components or coating (no barium sulfate)

Step Two – Add gutta percha markers

Radiographic marker size and location

- 6 to 8 gutta percha markers
- Place half lingual and half buccal
- Place on varying horizontal planes
- Place on flange, below gingival plane of the teeth
- Use a #6 or #8 round bur to a depth of 1mm
- Keep markers spherical in shape, no larger than illustrated.
- Fill flush with gutta percha

Gutta percha radiographic marker dimensions:

1 - 1.5mm
1mm

Step Three – Make Radiographic Index

Make a bite registration intraorally

- Use a stiff, radiolucent bite registration material
- Cover complete arch
- If teeth are missing in opposing arch, fill edentulous space(s) with index material to make contact with alveolar ridge.

Step Four – CT Scan

Patient presents to imaging center with:

- Radiographic Guide
- Radiographic Index
- Training on proper placement of Radiographic Guide and Index
- Optional: Staff member accompany patients until Imaging Center proficient with scan.

Patient Instructions:

- Bite firmly and evenly
- Breathe through nose
- Do not move
- Relax lips

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Partially Edentulous

A successful NobelGuide™ procedure begins with the creation of a properly and carefully designed Radiographic Guide. The Radiographic Guide will communicate the desired restorative outcome to the entire treatment planning team before the surgery begins. Refer to the NobelGuide™ Concept Manual for complete instructions for use.

Step One – Design Ideal Prototype Restoration

Partially edentulous prototype restoration checklist

- Teeth are proper size, shape & length
- Occlusion and vertical dimension are properly established
- No metal components
- Sufficient thickness (2.5 – 3mm)
- Cover full palate if appropriate
- Add at least 4 inspection windows to ensure proper seating upon insertion
- Do not add acrylic to occlusal/incisal surfaces of areas to be restored
- Buccal flanges of sufficient length to place gutta percha markers and support Guided Anchor Pins (if required)
- No radio opaque components or coating (no barium sulfate)

Step Two – Add gutta percha markers

Radiographic marker size and location

- 6 to 8 gutta percha markers
- Place half lingual and half buccal
- Place on varying horizontal planes
- Place on flange, below gingival plane of the teeth
- Use a #6 or #8 round bur to a depth of 1mm
  Keep markers spherical in shape, no larger than illustrated.
- Fill flush with gutta percha

Step Three – Make Radiographic Index

Make a bite registration on the articulator.

- Open the incisal pin 3 to 5mm
- Ensure no overlap of incisal or posterior occlusion
- Use a stiff, radiolucent bite registration material
- Cover complete arch
- If teeth are missing in opposing arch, fill edentulous space(s)
  with index material to make contact with alveolar ridge.

Step Four – CT Scan

Patient presents to Imaging Center with:

- Radiographic Guide
- Radiographic Index
- Training on proper placement of Radiographic Guide and Index
- Optional: Staff member accompany patients until Imaging Center proficient with scan.

Patient Instructions:

- Bite firmly and evenly
- Breathe through nose
- Do not move
- Relax lips

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