Original protocol for All-on-4® treatment concept

The All-on-4® treatment concept is a rehabilitation concept that maximizes the use of available bone. The surgical and prosthetic procedures follow a strict protocol including the products to be used. The success of the All-on-4® treatment concept is due to these specific protocols and products, namely NobelSpeedy implants, which have been used with 10 years of follow-up. For the long term follow-up studies supporting the result and the success rate of the All-on-4® treatment concept, please visit nobelbiocare.com or ask your Nobel Biocare representative for references.

The All-on-4® and the All-on-4® with NobelGuide treatment concepts were developed together with Paulo Malo, DDS, PhD, at MALO CLINIC.

Note: In order to improve readability, Nobel Biocare does not use ™ or ® in the running text. By doing so, however, Nobel Biocare does not waive any right to the trademark or registered mark and nothing herein shall be construed to the contrary.

Disclaimer: Some products may not be regulatory cleared/released for sale in all markets. Please contact the local Nobel Biocare sales office for current product assortment and availability.
# Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Introduction</strong></td>
<td></td>
</tr>
<tr>
<td>A proven and successful concept</td>
<td>4</td>
</tr>
<tr>
<td>Conventional versus guided surgery</td>
<td>5</td>
</tr>
<tr>
<td><strong>Conventional surgery</strong></td>
<td></td>
</tr>
<tr>
<td>Quick guide</td>
<td>6</td>
</tr>
<tr>
<td>Treatment planning</td>
<td>7</td>
</tr>
<tr>
<td>Clinical procedure for edentulous mandible</td>
<td>8</td>
</tr>
<tr>
<td>Clinical procedure for edentulous maxilla</td>
<td>11</td>
</tr>
<tr>
<td>Laboratory procedure</td>
<td>12</td>
</tr>
<tr>
<td><strong>Guided surgery</strong></td>
<td></td>
</tr>
<tr>
<td>Optimized implant placement and prosthetic outcome with NobelGuide®</td>
<td>13</td>
</tr>
<tr>
<td>Quick guide</td>
<td>14</td>
</tr>
<tr>
<td>Treatment planning</td>
<td>15</td>
</tr>
<tr>
<td>Clinical procedure</td>
<td>18</td>
</tr>
<tr>
<td>Laboratory procedures</td>
<td>22</td>
</tr>
<tr>
<td><strong>Product information</strong></td>
<td></td>
</tr>
<tr>
<td>Final restorations</td>
<td>26</td>
</tr>
<tr>
<td>Multi-unit Abutments</td>
<td>27</td>
</tr>
<tr>
<td>Surgical components</td>
<td>31</td>
</tr>
<tr>
<td>Laboratory components</td>
<td>33</td>
</tr>
<tr>
<td><strong>Appendices</strong></td>
<td></td>
</tr>
<tr>
<td>Clinical cases</td>
<td>35</td>
</tr>
<tr>
<td>Customer service worldwide</td>
<td>39</td>
</tr>
</tbody>
</table>
A proven and successful concept

Only four implants needed
The All-on-4® treatment concept, with its use of straight and angled Multi-unit Abutments, was developed to provide edentulous and soon-to-be edentulous patients with an immediately loaded full-arch restoration on only four implants – two placed vertically in the anterior, two placed at an angle of up to 45° in the posterior region.

By tilting the two posterior implants, the bone-to-implant contact is enhanced, providing optimized bone support even with minimum bone volume. Additionally, tilting of implants in the maxilla allows for improved anchorage in better quality anterior bone and bicortical anchorage in the cortical bone of the sinus wall and the nasal fossa.

Tilting of the posterior implants also helps avoid vital structures, such as the mandibular nerve or the maxillary sinus, and results in a better distribution of implants along the alveolar crest, which optimizes load distribution and allows for a final prosthesis with up to 12 teeth.

Multi-unit Abutments
Nobel Biocare offers straight, as well as 17° and 30° angled Multi-unit Abutments for all Nobel Biocare implants and a selection of other major implant systems. The abutments are available with various collar heights to match the thickness of the soft tissue.

Fixed temporary prosthetic solutions
With the All-on-4® treatment concept, patients benefit from an immediate implant-supported all-acrylic restoration, as a provisional prosthesis is screwed onto the implants right after surgery.

Final restorative solutions
Final solutions include both fixed and fixed-removable prostheses:
- Fixed solutions include NobelProcera Implant Bridge with acrylic veneering, or individual NobelProcera crowns cemented to the bridge framework.
- Fixed-removable solutions include acrylic prosthesis on a NobelProcera Implant Bar Overdenture, attached by means of a variety of attachment systems.

NobelProcera Implant Bridge and Implant Bar Overdenture are milled from a biocompatible titanium monobloc using state-of-the-art CAD/CAM technology, resulting in consistent precision of fit, individualized design and optimized esthetics.

Guided surgery
The All-on-4® treatment concept can be planned and performed using NobelGuide, ensuring accurate diagnostics, planning and implant placement.
Conventional versus guided surgery

The All-on-4® treatment concept can be performed in two ways:

- Conventional surgery – raising a flap
- NobelGuide – flap to flapless approach

Conventional flap procedure with traditional planning and a standardized All-on-4® Guide for predictable and optimized positioning of the implants.

3D diagnostics and treatment planning and a custom-designed surgical template to correctly drill and position the implants.

Available implant systems
- NobelSpeedy Groovy
- Brånemark System Mk III and Mk IV*
- NobelActive**
- NobelParallel Conical Connection**
- NobelReplace Conical Connection**, NobelReplace/Replace Select Tapered and NobelReplace Platform Shift
- NobelReplace/Replace Select Straight and NobelSpeedy Replace

* Guided surgery is only available for Brånemark System Mk III Groovy and Shorty and Brånemark System Mk III TiUnite RP.
** Non-engaging 30° Multi-unit Abutments are not available for implants with internal conical connection.
Quick guide conventional surgery

1. Preparation
2. Implant placement
3. Healing and prosthesis placement
Treatment planning

The All-on-4® treatment concept was developed to maximize the use of available bone and to allow for Immediate Function. When planning a conventional treatment using a flap technique, consider the following.

General considerations
– Ability to achieve primary implant stability:
  - Implants should withstand a minimum tightening torque of 35 Ncm.
  - If this tightening torque is not achieved, a conventional healing phase is recommended prior to delivery of the provisional or final restoration.
– No severe parafunctions.
– Indicated for edentulous maxilla with a minimum bone width of 5 mm and a minimum bone height of 10 mm from canine to canine.
– Indicated for edentulous mandible with a minimum bone width of 5 mm and a minimum bone height of 8 mm in between the mental foramina.
– To reduce the cantilevers, tilt the posterior implants to a maximum of 45°.
– If the angulation is 30° or more, it is necessary to splint the tilted implants.
– For tilted posterior implants, plan the distal screw access holes to be located at the occlusal plane of the first molar, second pre-molar, or first pre-molar.
– The All-on-4® treatment concept does not require a wider opening of the mouth than a treatment with straight implants due to the angulation of the posterior implants.
– If there are extraction sites, clean them thoroughly. It is advisable to place implants between extraction sockets.

Specific considerations – implants
– If possible, the posterior implants should be Ø 4.0 mm or Ø 4.3 mm.
– When placing posterior implants with:
  - internal tri-channel connection: make sure that one of the tri-channel lobes is pointing distally or slightly buccally.
  - internal conical connection: make sure that one of the flat sides of the hexagon is parallel to the buccal side.
Tip: The implant drivers have markings to facilitate proper orientation of the implants.

Notes:
– For internal tri-channel and external hex connection, the 30° Multi-unit Abutment is only available for RP implants. The 17° Multi-unit Abutment is available for NP and RP implants.
– For internal conical connection, the 17° Multi-unit Abutments are available for NP, RP and WP implants, and the 30° Multi-unit Abutments for NP and RP implants.

Specific considerations – prosthetics
– No extensions over one tooth on each side for an immediate all-acrylic bridge, which should have a maximum of 12 teeth.
– If the patient’s removable prosthesis is in good condition, it may be used to fabricate the immediate all-acrylic bridge.
– For proper esthetics and function, the final bridge should have 12 teeth and a supporting metal framework.

Note: For a full description of implant placement, prosthetic procedures, and all instruments needed, please refer to the respective procedures manuals (for the current version see nobelbiocare.com/resources).
Clinical procedure for edentulous mandible

The images show Immediate Function with an all-acrylic bridge and NobelSpeedy Groovy RP implants.

1 Position All-on-4® Guide
- After making an incision for flap elevation, make an osteotomy of approximately 8 mm in the midline using a Ø 2 mm Twist Drill.
- Place the All-on-4® Guide in the osteotomy.

2 Prepare posterior site
- Drill to appropriate depth using a Ø 2 mm Twist Drill tilted to a maximum angle of 45°.
- Check for correct angulation with the All-on-4® Guide.
- Prepare the site according to the density of the bone. Insert the implant.
- For Immediate Function, the implants should withstand a final tightening torque between 35 and 45 Ncm.
- If indicated, use a Bone Mill together with a Bone Mill Guide to remove bone that could hinder correct seating of the abutment.
- Place a 30° Multi-unit Abutment. Tighten to 15 Ncm using Unigrip Screwdriver Machine and Manual Torque Wrench Prosthetic.
- Perform the same procedure for the opposite posterior site.

Caution: It is important to identify the mental foramen and exiting inferior dental nerve. The final position of the implant should be in front of the foramen, avoiding the nerve loop.
3 Prepare anterior site
- Prepare two anterior sites, as far apart from each other as possible, allowing for a safe distance from the apex of the posterior implants.
- If indicated use a Bone Mill together with a Bone Mill Guide to remove bone that could hinder correct seating of the abutment.
- Place straight or 17° Multi-unit Abutments and allow for proper emergence of the prosthetic screw.
- Tighten straight Multi-unit Abutments to 35 Ncm using Screwdriver Machine Multi-unit and Manual Torque Wrench Prosthetic.

Option: delayed loading
If the required tightening torque for Immediate Function (minimum 35 Ncm) cannot be achieved or the treatment of choice is a delayed loading protocol, a conventional healing phase is recommended prior to delivery of a provisional or final restoration.

- Place cover screws on all four implants and suture back the flap.
- Wait with further steps until osseointegration has taken place.
4 Take an impression
- After suturing, connect the Multi-unit Impression Copings Open Tray to the Multi-unit Abutments.
- Take an impression using silicone soft putty material and a customized open tray.

Tip: To avoid impression material entering into the tissue, always use a putty soft addition silicone. The less fluid the material is, the less it can penetrate into the tissue.

5 Laboratory procedure for provisional bridge
A model and a provisional restoration are made at the dental laboratory. For more information, see the step-by-step laboratory procedure on page 12.

6 Connect provisional bridge
- Place the all-acrylic bridge on the abutments.
- Tighten the prosthetic screws to 15 Ncm using Unigrip Screwdriver Machine and Manual Torque Wrench Prosthetic.
- Block out screw access and fill holes with suitable material.
- Check the occlusion.

7 Final restoration
After a sufficient healing period, follow established prosthetic procedures for the final restoration, preferably a NobelProcera Implant Bridge.
Clinical procedure for edentulous maxilla

Note: When performing the All-on-4® treatment concept in the maxilla, add the following steps for the posterior sites in addition to those for the posterior sites in the mandible.

Prepare posterior site
- Identify the anterior wall of the maxillary sinus by drilling a small opening on the lateral wall of the maxilla where the anterior wall is expected to be.
- Explore the wall with a probe and extend the window if necessary.
- Mark the position of the anterior wall with the surgical marker.
- Start the site preparation as posterior as possible, allowing approximately 4 mm from the sinus wall.

- Incline the drill (not more than 45°) as far back as possible to minimize the cantilever.
Laboratory procedure

**Fabricate the all-acrylic bridge**

– Fabricate a soft-tissue model using Abutment Replicas Multi-unit.
– Use guide pins (available in 10 and 20 mm lengths) or lab screws to place Temporary Copings Multi-unit on the replicas. It is preferable to use temporary copings in titanium.
– Adjust the copings if needed.

– Fabricate an all-acrylic bridge using a high-density acrylic.
– Reinforce the weak points of the prosthesis around the cylinders with more acrylic.

**Notes:**

– If possible, a tooth set-up should be tried in the patient’s mouth before finalizing the bridge.
– The bridge can also be made by converting the existing denture into a bridge.
Optimized implant placement and prosthetic outcome with NobelGuide®

NobelGuide is ideal for the All-on-4® treatment concept, as it optimizes implant placement by means of 3D diagnostics, digital treatment planning and guided surgery with a custom-designed surgical template. It supports minimally invasive flapless techniques as well as surgical access through mini-flaps and full flaps.

Accurate diagnostics and prosthetic-driven planning
Based on 3D (CB)CT diagnostic imaging of the patient and a radiographic guide, virtual implant placement following prosthetic-driven planning can be performed within the NobelClinician Software, ensuring high diagnostic accuracy and safe and predictable implant placement.

With the combination of the 3D radiological dataset and 3D models of bone and radiographic guide, dental professionals can evaluate bone quantity and quality, mark vital anatomical structures such as the alveolar nerve and the maxillary sinus, and position the implants according to prosthetic needs. Through controlled and customizable angulation of the dental reslice planes in the split-screen view of the software, the tilted posterior implants are also Ideally positioned.

Safe and predictable implant placement
After planning the case in NobelClinician Software, a ready-to-use custom-designed surgical template, together with all necessary implants, abutments and surgical instruments, can be ordered online in a single order. The surgical template enables guided implant site preparation and precise and efficient implant insertion, which minimizes patient pain and swelling.

Prefabrication of provisional prosthesis before surgery
The surgical template can be used to create a stone model with implant replicas already in place before surgery. This enables the dental technician to produce the provisional prosthesis and the Multi-unit Abutment placement jig in advance, so that the clinician can finalize the prosthesis and mount it on the implants right after surgery.

Existing prosthesis can be modified directly into a radiographic guide
Digital prosthetic-driven planning in NobelClinician Software
Guided implant insertion with ready-to-use surgical template
Quick guide guided surgery
Treatment planning

The All-on-4® treatment concept was developed to maximize the use of available bone and to allow for Immediate Function. When planning the All-on-4® treatment concept with NobelGuide, consider the following.

### General considerations
- For NobelGuide computer-based planning, a CT scan using a radiographic guide is required. Please refer to the NobelGuide concept manual for details.
- Ability to achieve primary implant stability:
  - Implants should withstand the minimum tightening torque of 35 Ncm to allow for Immediate Function (perform final torque measurement without surgical template).
  - If this tightening torque is not achieved, a conventional healing phase is recommended prior to delivery of the provisional or final restoration.
- No severe parafunctions.
- Indicated for totally edentulous maxilla with a minimum bone width of 5 mm and a minimum bone height of 10 mm from canine to canine.
- Indicated for totally edentulous mandible with a minimum bone width of 5 mm and a minimum bone height of 8 mm between the mental foramina.
- To reduce the cantilevers, tilt the posterior implants to a maximum of 45°.
- If the angulation is 30° or more, it is necessary to splint the tilted implants.
- For tilted posterior implants, plan the distal screw-access holes to be located at the occlusal plane of the first molar, second premolar, or first premolar.
- The All-on-4® treatment concept does not require a wider opening of the mouth than a treatment with straight implants due to the angulation of the posterior implants. However, as with all NobelGuide treatments, it is important to compensate for the extra height needed for NobelGuide components and instruments.

### Smile line consideration
Pay special attention to the transition zone and smile line when planning the case. If the smile line does not hide the transition zone, pre-prosthetic surgery reducing the alveolar bone needs to be taken into consideration.

### Specific considerations – implants
- If possible, the posterior implants should be Ø 4.0 mm or Ø 4.3 mm.

**Note:** The 30° Multi-unit Abutment Non-Engaging is only available for RP implants with internal tri-channel and external hex connection. It is not available for implants with internal conical connection.

### Specific considerations – prosthesis
- No extensions over one tooth on each side for an immediate all-acrylic bridge, which should have a maximum of 12 teeth.
- If the patient’s removable prosthesis is in good condition, it may be used to fabricate the immediate all-acrylic bridge.
- For proper esthetics and function, the final bridge should have 12 teeth and a supporting metal framework.

**Note:** For a full description of implant placement, prosthetic procedures, and all instruments needed, please refer to the respective procedures manuals (for the current version see nobelbiocare.com/resources).
Checklist prior to surgery

☐ Correct implants, components and instruments for guided surgery

☐ Printed planning report from NobelClinician Software

☐ Surgical template manufactured by Nobel Biocare (check that it corresponds to the template designed in NobelClinician Software. Also verify precision of fit on master model and patient prior to surgery)

☐ Surgical index manufactured by dental laboratory

☐ Prosthetic components

☐ Temporary restoration

☐ Disinfection agent for surgical template

The jig construction for placing 30° Multi-unit Abutments Non-Engaging, which includes:
1. Impression Coping Open Tray Multi-unit
2. Guide Pin
3. 30° Multi-unit Abutment Non-Engaging including:*  
4. Abutment Holder
5. Jig Stabilizer (modified Impression Coping Open Tray Multi-unit)  
6. Abutment Screw

For more information on how to make the jig, see laboratory procedure on page 24.  
For instructions on cleaning the jig, see page 17.

* When ordering 30° Multi-unit Abutment Non-Engaging, the Abutment Holder, Jig Stabilizer and Abutment Screw are included.
NobelGuide Surgical Template
The NobelGuide Surgical Template is made of a material that is sensitive to moisture and UV light. Therefore:
– Store the surgical template together with a moisture absorbent in the protective plastic bag in which it was delivered.
– Store the surgical template in a dry and dark location.
– Do not expose the surgical template to direct sunlight.
– Do not remove the moisture absorbent.

Immediately before surgery
– Use a high level disinfectant (e.g. chlorhexidine) according to manufacturer’s instructions.
– Rinse thoroughly with sterile water. Dry quickly, but without using heat.

Warning: The NobelGuide Surgical Template may deform if exposed to liquids (even water) for more than 40 minutes.

Acrylic jig
Disinfect the jig according to normal procedures for non-autoclavable products.
Clinical procedure

The images show Immediate Function with an all-acrylic bridge and NobelSpeedy Groovy RP implants in the maxilla. The same procedure also applies for the mandible.

1 Place implants
– Place four implants according to the computer-based planning.
– Remove the surgical template.

2 Connect straight Multi-unit Abutments
– If indicated use a Bone Mill to correctly seat the abutments.
– Place straight Multi-unit Abutments in the two anterior sites.


3 Place jig to connect 30° Multi-unit Abutments
– Place the disinfected jig on the corresponding anterior abutment and posterior implant.
– Verify correct seating of the jig and tighten the guide pin to the anterior abutment.
4 Connect and tighten 30° Multi-unit Abutment
- Connect the 30° Multi-unit Abutment Non-Engaging and abutment screw using Unigrip Screwdriver.
- Tighten the abutment screw to 15 Ncm using Screwdriver Machine Unigrip and Manual Torque Wrench Prosthetic.

5 Disconnect jig
- Disconnect the jig by unscrewing the abutment holder (1) and guide pin (2).
- Repeat the entire procedure for the opposite side.

Note: Never unscrew the abutment holder connected to the 30° Multi-unit Abutment before tightening the posterior angled abutment.

Option: delayed loading
If the required tightening torque for Immediate Function (minimum 35 Ncm) cannot be achieved or the treatment of choice is a delayed loading protocol, a conventional healing phase is recommended prior to delivery of a provisional or final restoration.

- Place cover screws on all four implants and suture the entrance to the implants or close the flap in case it was raised.
- Wait with further steps until osseointegration has taken place.
7 Connect temporary copings

Notes:
– The all-acrylic bridge is delivered with Temporary Copings Multi-unit Titanium in three implant positions. There is an extended hole located in one of the posterior positions.
– If the treatment team is not experienced with the procedure, it is recommended to leave two extended holes in the all-acrylic bridge.

– Place the Temporary Coping Multi-unit Titanium that is not yet connected to the prosthesis onto its corresponding Multi-unit Abutment and manually tighten using Unigrip Screwdriver.

– Connect the bridge using three prosthetic screws and manually tighten using Unigrip Screwdriver.

– Use tooth-colored flowable composite or acrylic to secure the temporary coping to the bridge, making sure to keep the screw-access hole free from composite.
8 Reinforce temporary coping
- Disconnect the bridge.
- Fill the gap between temporary coping and the bridge with self-curing acrylic.
- Adjust and polish.

9 Connect provisional bridge
- Place the all-acrylic bridge on the abutments.
- Tighten the prosthetic screws to 15 Ncm using Unigrip Screwdriver Machine and Manual Torque Wrench Prosthetic.
- Block out screw access and fill holes with suitable material.
- Check the occlusion.

10 Final restoration
After adequate healing time, follow established prosthetic procedures for the final restoration, preferably using a NobelProcera Implant Bridge.
Laboratory procedure – fabrication of model and abutment connection

1 Fabricate stone model and surgical index
   - Fabricate a stone model using the surgical template as described in the NobelGuide concept manual.
   - Mount the model in the articulator using the radiographic guide.
   - Replace the radiographic guide with the surgical template.
   - Fabricate a surgical index towards the opposing dentition in the articulator.
   - Put the surgical template back in the UV-protective plastic bag in which it was delivered.

2 Connect straight Multi-unit Abutment
   - Place the selected straight Multi-unit Abutment on the anterior implant replica. Remove the plastic holder.
   - Tighten with Screwdriver Manual Multi-unit.

Note: Plastic Try-in Multi-unit Abutments are available to determine the ideal abutment collar height prior to ordering/opening the final Multi-unit Abutment package.

3 Place 30° Multi-unit Abutment Non-Engaging
   - Place a 30° Multi-unit Abutment Non-Engaging (1) including jig stabilizer (2, modified Impression Coping Open Tray Multi-unit), abutment holder (3) and abutment screw (4) on a posterior implant replica.
   - Align the abutment holder with the long axis of the straight Multi-unit Abutment.
   - Tighten the abutment screw with Unigrip Screwdriver Manual.

4 Disconnect jig stabilizer
   - Disconnect the jig stabilizer by unscrewing the abutment holder.
   - Repeat steps 2–4 for the opposite side.

Note: Once the abutments are tightened in their final position, do not loosen them until the jig is fabricated.
Laboratory procedure – fabrication of all-acrylic bridge

1 Place temporary copings
- Use guide pins or lab screws to place three Temporary Copings Multi-unit Titanium on the two anterior and on one of the posterior abutments.
- Adjust the copings if needed.

Note: If the treatment team is not experienced with the procedure, it is recommended to leave two extended holes in the all-acrylic bridge.

2 Fabricate all-acrylic bridge
- Fabricate an all-acrylic bridge using a high-density acrylic.
- Remember to reinforce the weak points of the prosthesis around the cylinders with more acrylic.

Note: If applicable, the provisional prosthesis can be made by converting the existing denture into a bridge.

3 Drill hole through bridge
Drill through the bridge where the fourth Temporary Coping Multi-unit Titanium will be positioned. Make sure that the hole is larger than the coping.

4 Try-in fourth temporary coping
Try-in the temporary coping and adjust if necessary.
Laboratory procedure – fabrication of jig

1 Place impression coping
- Place an Impression Coping Open Tray Multi-unit on one of the straight Multi-unit Abutments.
- Tighten the guide pin using Unigrip Screwdriver Manual.

2 Reconnect jig stabilizer
- Reconnect jig stabilizer and abutment holder on the 30° Multi-unit Abutment Non-Engaging.
- Align the abutment screw access hole with the abutment screw.

3 Secure jig stabilizer
Use thin wire or dental floss to secure jig stabilizer and impression coping.

4 Apply acrylic
Use quick-setting acrylic to secure the wire/floss between jig stabilizer and the impression coping.

Note: Avoid putting acrylic on the abutments.
5 Remove jig
- Loosen, but do not remove, the guide pin from the straight Multi-unit Abutment.
- Loosen the abutment screw securing the 30° Multi-unit Abutment to the implant replica.
- Remove the jig from the stone model.

Note: All components must remain connected in the jig construction.

6 Repeat procedure
Repeat the procedure for the other two abutments.

7 Disconnect straight Multi-unit Abutments
- Disconnect the straight Multi-unit Abutments from the model using Screwdriver Manual Multi-unit.
- Mount the plastic holder back onto the abutment in order to facilitate abutment connection for the clinician.

8 Send the following to the clinician
- Stone model.
- Two jigs (marked ‘Left’ and ‘Right’) including angled Multi-unit Abutments.
- Two straight Multi-unit Abutments.
- Temporary bridge with three Temporary Copings Multi-unit cured within temporary restoration.
- One loose Temporary Coping Multi-unit.
- 4 prosthetic screws.
- Surgical template with verified fit on model.
- Surgical index.
It is recommended to use the highly esthetic and versatile NobelProcera Implant Bridge as final prosthetic reconstruction. Several veneering options are available, depending on patient needs and requirements:

**Basic: NobelProcera Implant Bridge with acrylic teeth and acrylic gingiva**
Acrylic teeth with acrylic gingiva applied over the NobelProcera titanium framework.

**Medium: NobelProcera Implant Bridge veneered with composite**
NobelProcera titanium framework veneered with composite for good esthetics and easy repair (both chair-side and in lab).

**Premium: NobelProcera Implant Bridge with individualized NobelProcera ceramic crowns**
Individual NobelProcera Crowns Alumina or Zirconia cemented to a NobelProcera Implant Bridge framework for excellent esthetics and strength.

For the prosthetic procedure, see NobelEsthetics procedures manual (for the current version see nobelbiocare.com/resources).
Multi-unit Abutments

For multiple-unit, screw-retained restorations

- Short cone for limited interocclusal space.
- Designed to accommodate fully and partially edentulous arches, particularly when using the All-on-4® treatment concept.
- Wide shoulder for easy positioning of the prosthetic restoration for a secure passive fit.
- Available as straight and angled (17º and 30º), engaging and non-engaging*, with a selection of collar heights.

Each Multi-unit Abutment is delivered with a pre-mounted holder for easy handling, which doubles as a guide for checking abutment angulation.

*For guided surgery only.
<table>
<thead>
<tr>
<th></th>
<th>NP</th>
<th>RP</th>
<th>WP</th>
<th></th>
<th>NP</th>
<th>RP</th>
<th>WP</th>
<th></th>
<th>NP</th>
<th>RP</th>
<th>WP</th>
<th>6.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-unit Abutment 1 mm</td>
<td>29176</td>
<td>29179</td>
<td>29184</td>
<td></td>
<td>29196</td>
<td>29199</td>
<td>29204</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-unit Abutment 1.5 mm</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>36611</td>
<td>36616</td>
<td>37829</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-unit Abutment 2 mm</td>
<td>29177</td>
<td>29180</td>
<td>29185</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>29197</td>
<td>29200</td>
<td>29205</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-unit Abutment 2.5 mm</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>36613</td>
<td>36617</td>
<td>37830</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-unit Abutment 3 mm</td>
<td>29178</td>
<td>29181</td>
<td>29186</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>29198</td>
<td>29201</td>
<td>29206</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-unit Abutment 3.5 mm</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>36624</td>
<td>36625</td>
<td>37831</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-unit Abutment 4 mm</td>
<td>–</td>
<td>29182</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>29202</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-unit Abutment 4.5 mm</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>36626</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-unit Abutment 5 mm</td>
<td>–</td>
<td>29183</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>29203</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adapter NobelReplace® 6.0 to WP (add 0.5 mm to abutment height)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>32412</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-unit Abutment</td>
<td>NP</td>
<td>RP</td>
<td>WP</td>
<td>NP</td>
<td>RP</td>
<td>WP</td>
<td>NP</td>
<td>RP</td>
<td>WP</td>
<td>6.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17° Multi-unit Abutment 2 mm</td>
<td>29187</td>
<td>29189</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>29235</td>
<td>29237</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>17° Multi-unit Abutment 2.5 mm</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>36614</td>
<td>36618</td>
<td>37832</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>17° Multi-unit Abutment 3 mm</td>
<td>29188</td>
<td>29190</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>29236</td>
<td>29238</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17° Multi-unit Abutment 3.5 mm</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>36615</td>
<td>36619</td>
<td>37833</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17° Multi-unit Abutment 4 mm</td>
<td>–</td>
<td>29191</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>29239</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30° Multi-unit Abutment 3.5 mm</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>36620</td>
<td>36622</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30° Multi-unit Abutment 4 mm</td>
<td>–</td>
<td>29192</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>29240</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30° Multi-unit Abutment Non-Engaging 4 mm</td>
<td>–</td>
<td>33411</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>33409</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30° Multi-unit Abutment 4.5 mm</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>36621</td>
<td>36623</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30° Multi-unit Abutment 5 mm</td>
<td>–</td>
<td>29193</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>29241</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30° Multi-unit Abutment Non-Engaging 5 mm</td>
<td>–</td>
<td>33412</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>33410</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Clinical screw included.

* Abutment Holder, Jig Stabilizer and clinical screw included (see page 16).
### Torque guide for clinical screws for Nobel Biocare implant systems

<table>
<thead>
<tr>
<th></th>
<th>NP</th>
<th>RP</th>
<th>WP</th>
<th>NP</th>
<th>RP</th>
<th>WP</th>
<th>NP</th>
<th>RP</th>
<th>WP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abutment Screw Multi-unit Angled</td>
<td>29194</td>
<td>29195</td>
<td>–</td>
<td>36892</td>
<td>37893</td>
<td>37893</td>
<td>29242</td>
<td>29243</td>
<td>–</td>
</tr>
<tr>
<td>Prosthetic Screw Multi-unit</td>
<td>29285</td>
<td>29285</td>
<td>29286</td>
<td>29285</td>
<td>29285</td>
<td>29285</td>
<td>29285</td>
<td>29285</td>
<td>29285</td>
</tr>
<tr>
<td>Healing Cap Multi-unit (1/pkg)</td>
<td>31145</td>
<td>31145</td>
<td>29066</td>
<td>31145</td>
<td>31145</td>
<td>31145</td>
<td>31145</td>
<td>31145</td>
<td>31145</td>
</tr>
<tr>
<td>Healing Cap Multi-unit (5/pkg)</td>
<td>29064</td>
<td>29064</td>
<td>–</td>
<td>29064</td>
<td>29064</td>
<td>29064</td>
<td>29064</td>
<td>29064</td>
<td>29064</td>
</tr>
<tr>
<td>Healing Cap Wide Multi-unit (1/pkg)</td>
<td>31146</td>
<td>31146</td>
<td>29067</td>
<td>31146</td>
<td>31146</td>
<td>31146</td>
<td>31146</td>
<td>31146</td>
<td>31146</td>
</tr>
</tbody>
</table>

**Torque guide for clinical screws for Nobel Biocare implant systems**

<table>
<thead>
<tr>
<th>Description</th>
<th>Torque (Ncm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Multi-unit Abutment</td>
<td>35</td>
</tr>
<tr>
<td>17° and 30° Multi-unit Abutment</td>
<td>15</td>
</tr>
<tr>
<td>Prosthetic screw</td>
<td>15</td>
</tr>
</tbody>
</table>
## Surgical components

### Bone Mills and Guides Bränemark System®

- Bone Mill with Guide NP Ø 4.5 mm  33392
- Bone Mill with Guide RP Ø 5.1 mm  33393
- Bone Mill with Guide WP Ø 6.5 mm  33495
- Bone Mill Guide NP  33496
- Bone Mill Guide RP  33497
- Bone Mill Guide WP  33498

### Bone Mills and Guides Conical Connection

- Bone Mill with Guide NP Ø 4.4 mm  37863
- Bone Mill with Guide NP Ø 5.2 mm  37864
- Bone Mill with Guide RP Ø 5.2 mm  37866
- Bone Mill with Guide RP Ø 6.2 mm  37867
- Bone Mill with Guide WP Ø 6.7 mm  37869
- Bone Mill Guide NP  37865
- Bone Mill Guide RP  37868
- Bone Mill Guide WP  37870

### Bone Mills and Guides NobelReplace®

- Bone Mill with Guide NP Ø 4.6 mm  36830
- Bone Mill with Guide RP Ø 5.3 mm  36831
- Bone Mill with Guide WP Ø 6.5 mm  36832
- Bone Mill with Guide 6.0 Ø 7.0 mm  33505
- Bone Mill Guide NP  36608
- Bone Mill Guide RP  36609
- Bone Mill Guide WP  36610
- Bone Mill Guide 6.0  33509

### All-on-4® Guide  32068
Prosthetic Kit 37448
(The articles below can also be purchased individually.)

**Kit includes**

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screwdriver Machine Unigrip™ 20mm</td>
<td>29151</td>
</tr>
<tr>
<td>Screwdriver Machine Unigrip™ 30mm</td>
<td>29153</td>
</tr>
<tr>
<td>Screwdriver Machine Multi-unit 21mm</td>
<td>29158</td>
</tr>
<tr>
<td>Omniprog™ Screwdriver Machine 20mm</td>
<td>37379</td>
</tr>
<tr>
<td>Omniprog™ Screwdriver Machine 30mm</td>
<td>37381</td>
</tr>
<tr>
<td>Manual Torque Wrench Prosthetic</td>
<td>29165</td>
</tr>
</tbody>
</table>

Screwdrivers

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screwdriver Manual Unigrip 36mm</td>
<td>29150</td>
</tr>
<tr>
<td>Screwdriver Manual Multi-unit 25 mm</td>
<td>29156</td>
</tr>
<tr>
<td>Screwdriver Manual Multi-unit Brånemark System® WP 25mm</td>
<td>29157</td>
</tr>
<tr>
<td>Screwdriver Machine Multi-unit 21 mm</td>
<td>29158</td>
</tr>
<tr>
<td>Screwdriver Machine Multi-unit Brånemark System® WP 20mm</td>
<td>29159</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>External hex connection</th>
<th>Internal conical connection</th>
<th>Internal tri-channel connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brånemark System® and NobelSpeedy® Groovy</td>
<td>NobelActive®, NobelParallel™ and NobelReplace® Conical Connection</td>
<td>NobelReplace®, Replace Select™, NobelSpeedy® Replace, NobelReplace® Platform Shift</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Impression Coping Open Tray Multi-unit (includes 15 mm Guide Pin)</th>
<th>NP</th>
<th>RP</th>
<th>WP</th>
<th>NP</th>
<th>RP</th>
<th>WP</th>
<th>NP</th>
<th>RP</th>
<th>WP</th>
<th>6.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>29089*</td>
<td></td>
<td></td>
<td></td>
<td>29089*</td>
<td></td>
<td></td>
<td>29089*</td>
<td></td>
<td></td>
<td>29089*</td>
</tr>
<tr>
<td>29091**</td>
<td></td>
<td></td>
<td></td>
<td>29089</td>
<td></td>
<td></td>
<td>29089</td>
<td></td>
<td></td>
<td>29089</td>
</tr>
<tr>
<td>11mm</td>
<td></td>
<td></td>
<td>11mm</td>
<td></td>
<td></td>
<td>11mm</td>
<td></td>
<td></td>
<td>11mm</td>
<td></td>
</tr>
</tbody>
</table>
## Laboratory components

<table>
<thead>
<tr>
<th>Temporary Coping Multi-unit</th>
<th>External hex connection</th>
<th>Internal conical connection</th>
<th>Internal tri-channel connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium (with Prosthetic Screw)</td>
<td>Brånemark System® and NobelSpeedy® Groovy</td>
<td>NobelActive®, NobelParallel™ and NobelReplace® Conical Connection</td>
<td>NobelReplace®, Replace Select™, NobelSpeedy® Replace, NobelReplace® Platform Shift</td>
</tr>
<tr>
<td>29046</td>
<td>29046</td>
<td>29047</td>
<td>29046</td>
</tr>
<tr>
<td>Abutment Replica Multi-unit (1/pkg)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31161</td>
<td>31161</td>
<td>31162</td>
<td>31161</td>
</tr>
<tr>
<td>Abutment Replica Multi-unit (5/pkg)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>29110</td>
<td>29110</td>
<td>–</td>
<td>29110</td>
</tr>
<tr>
<td>Guide Pin Multi-unit 10mm (1/pkg)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31154</td>
<td>31154</td>
<td>31156</td>
<td>31154</td>
</tr>
<tr>
<td>Guide Pin Multi-unit 10mm (5/pkg)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>29102</td>
<td>29102</td>
<td>–</td>
<td>29102</td>
</tr>
<tr>
<td>Guide Pin Multi-unit 20mm (1/pkg)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31155</td>
<td>31155</td>
<td>31157</td>
<td>31155</td>
</tr>
<tr>
<td>Guide Pin Multi-unit 20mm (5/pkg)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>29103</td>
<td>29103</td>
<td>–</td>
<td>29103</td>
</tr>
<tr>
<td></td>
<td>NP</td>
<td>RP</td>
<td>WP</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td><strong>Lab Screw Multi-unit (1/pkg)</strong></td>
<td>–</td>
<td>–</td>
<td>31163</td>
</tr>
<tr>
<td><strong>Lab Screw Multi-unit (5/pkg)</strong></td>
<td>29287</td>
<td>29287</td>
<td>–</td>
</tr>
<tr>
<td><strong>Lab Screw Multi-unit Angled (1/pkg)</strong></td>
<td>37896</td>
<td>37897</td>
<td>–</td>
</tr>
</tbody>
</table>

**External hex connection**
- Brånemark System® and NobelSpeedy® Groovy

**Internal conical connection**
- NobelActive®, NobelParallel™ and NobelReplace® Conical Connection

**Internal tri-channel connection**
- NobelReplace®, Replace Select®, NobelSpeedy® Replace, NobelReplace® Platform Shift

**External hex connection**

**Internal conical connection**

**Internal tri-channel connection**
Clinical cases

Efficient treatment with NobelSpeedy
44-year old edentulous female patient requests a fixed restoration due to inadequate function, comfort and esthetics of the existing removable denture.

Diagnosis
Limited bone volume in the posterior and a need for bone crest level optimization.

Preparation
A conventional flap procedure is performed, the bone crest level optimized and the All-on-4® Guide anchored.

Implant site preparation
Implant site preparation according to the drilling protocol for straight implants using the All-on-4® Guide. The vertical lines on the guide are used as reference for drilling at an angle of 45°.

Implant insertion
Insertion of NobelSpeedy Groovy implants with external hex connection.

Provisional prosthesis
Immediate loading of the implants with fixed provisional prosthesis based on an impression taken straight after surgery.

Case courtesy of Paulo Malo, DDS, PhD, MALO CLINIC Lisbon, Portugal
Achieving predictable results with NobelGuide

**Indication**
63-year old edentulous female patient requests a fixed restoration. The transition zone is completely hidden above the smile line.

**Chairside diagnosis**
The All-on-4® treatment concept using NobelGuide is chosen using a minimally invasive flapless approach (adequate mouth opening is possible).

**Preparation**
The existing removable denture represents the intended tooth setup and is transformed into a radiographic guide (gutta percha markers). A bite index is created to ensure correct anatomical positioning of the guide during CT scanning.

**Treatment planning**
Based on 3D CT diagnostic imaging of patient and radiographic guide, the four implants are placed virtually in the NobelClinician Software, optimizing position, angulation and distribution.

**Implant site preparation**
After careful installation of the ready-to-use surgical template and soft tissue punching, guided drilling for the first anterior implant is performed according to the NobelGuide drill protocol for NobelSpeedy implants.
**Minimally invasive surgery**
If a flapless procedure is chosen, trauma to tissue is minimized. This image shows the maxillary arch immediately after implant insertion.

**Provisional prosthesis**
A fixed prosthesis fabricated prior to surgery is finalized in the patient’s mouth and secured with four prosthetic screws (with Multi-unit Abutments installed on the implants and Temporary Copings Multi-unit within the prosthesis).

**Immediate Function**
As immediate loading is part of the treatment plan, the patient benefits from a fixed, screw-retained prosthesis immediately after surgery.

**Final restoration**
After adequate healing time, a final NobelProcera Implant Bridge is fabricated based on a new impression.
Customer service worldwide

### Americas
- **Brazil**
  Nobel Biocare Brazil
  Phone: 0800 16 999 6
- **Canada**
  Nobel Biocare Canada
  Phone: +1 800 539 9384
- **Chile**
  Dental Biocare
  Phone: +56 220 19282
- **Colombia**
  Dental Biocare
  Phone: +57 1 640 0008
- **Mexico**
  Nobel Biocare Mexico
  Phone: +52 55 524 974 60
- **USA**
  Nobel Biocare USA
  Phone: +1 800 322 5001

### Asia Pacific
- **Australia**
  Nobel Biocare Australia
  Phone: 1800 804 5677
- **China**
  Nobel Biocare China
  Phone: +86 21 6206 6655
- **Hong Kong**
  Nobel Biocare Hong Kong
  Phone: +852 2845 1266
- **India**
  Nobel Biocare India
  Phone: 1800 266 9998
- **Japan**
  Nobel Biocare Japan
  Phone: +81 3 6717 6191
- **New Zealand**
  Nobel Biocare New Zealand
  Phone: 0800 441 657
- **Singapore**
  Nobel Biocare Singapore
  Phone: +65 6737 7867
- **Taiwan**
  Nobel Biocare Taiwan
  Phone: +886 0800 00 779

### Europe, Middle East and Africa
- **Austria**
  Nobel Biocare Austria
  Phone: +43 1 892 89 90
- **Belgium**
  Nobel Biocare Belgium
  Phone: +32 2 467 41 70
- **Denmark**
  Nobel Biocare Denmark
  Phone: +45 39 40 48 46
- **Finland**
  Nobel Biocare Finland
  Phone: +358 20 740 61 00
- **France**
  Nobel Biocare France
  Phone: +33 1 49 20 00 30
- **Germany**
  Nobel Biocare Germany
  Phone: +49 221 500 850
- **Hungary**
  Nobel Biocare Hungary
  Phone: +36 1 279 33 79
- **Ireland**
  Nobel Biocare Ireland
  Phone: 1800 677 306
- **Italy**
  Nobel Biocare Italy
  Phone: +39 800 53 93 28
- **Lithuania**
  Nobel Biocare Lithuania
  Phone: +370 5 268 3448
- **Netherlands**
  Nobel Biocare Netherlands
  Phone: +31 30 635 49 49
- **Norway**
  Nobel Biocare Norway
  Phone: +47 23 24 86 30
- **Poland**
  Nobel Biocare Poland
  Phone: +48 22 549 93 52
- **Portugal**
  Nobel Biocare Portugal
  Phone: +351 800 300 100

### Russia
- **Nobel Biocare Russia**
  Phone: +7 495 974 77 55

### South Africa
- **Nobel Biocare South Africa**
  Phone: +27 11 802 0112

### Spain
- **Nobel Biocare Spain**
  Phone: +34 900 850 008

### Sweden
- **Nobel Biocare Sweden**
  Phone: +46 31 81 88 00

### Switzerland
- **Nobel Biocare Switzerland**
  Phone: 0800 211 424

### United Kingdom
- **Nobel Biocare UK**
  Phone: +44 208 756 3300

### Distributor markets
- **Bulgaria, Croatia, Cyprus, Czech Republic, Greece, Iran, Jordan, Kuwait, Lebanon, Malta, Romania, Saudi Arabia, Serbia, Slovenia, Turkey, United Arab Emirates**
  Phone: +48 22 549 93 55

---

nobelbiocare.com/contact