

Brevis[™] Overdenture Abutment

Technique Manual





BREVIS™



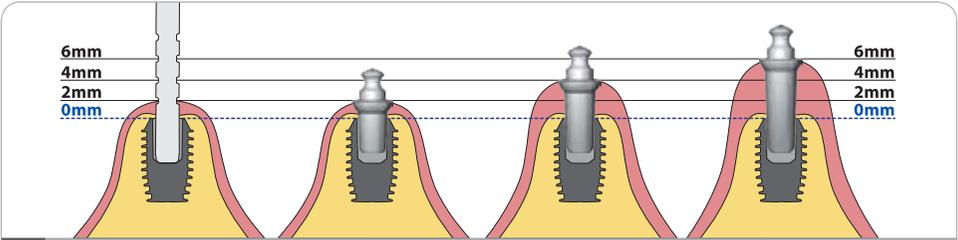
1 OCCLUSAL REGISTRATION

A registration of the denture's occlusal relationship prior to the uncovering of the implants will assure that the denture is not inappropriately displaced by the abutment or its housing.



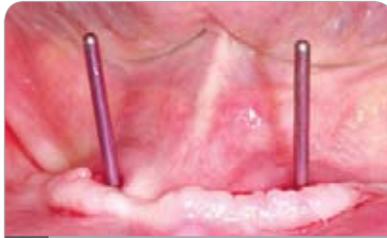
2 UNCOVER IMPLANTS

Uncover each implant using a small crestal incision and use the healing plug removal instrument to facilitate the removal of the black healing plug.



3 USE A SHOULDER DEPTH GAUGE TO DETERMINE ABUTMENT HEIGHT

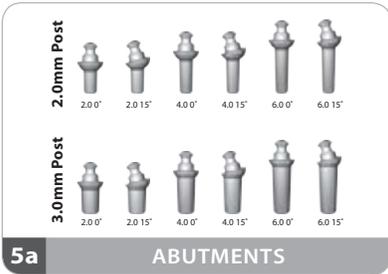
Use a shoulder depth gauge to facilitate the selection of the abutment height.



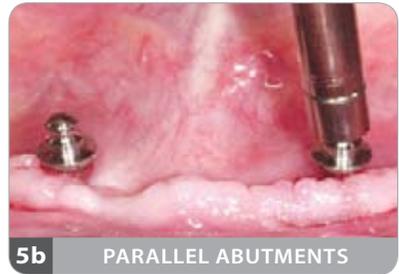
4 PLACE GUIDE PINS

Place guide pins into the implants to determine their axial inclinations.

Brevis™ Chairside Technique



Rotate a combination of 0° and/or 15° angled abutments to achieve parallelism prior to their being seated. Brevis™ abutments are available in heights of 2.0, 4.0 and 6.0mm.



Place soft wax in the denture to act as a pressure indicator to determine the relative position of the abutments. Alternatively, the top of the abutment may be marked with a felt tip pen to indicate the location of the abutment on the denture.



Place a Brevis™ housing on each abutment intra-orally.



Liberally relieve denture to accommodate the Brevis™ housings. Confirm clearance for housings by placing the denture over the housings.



9 REMOVE HOUSINGS

Remove the Brevis[™] housings and place a piece of rubber dam over the abutments to act as an apron to prevent acrylic from locking onto an abutment.

Ensure that the rubber dam protects the undercut of the abutment from acrylic, by placing it above the shoulder of the abutment.



10 INJECT VASELINE[™]

Inject Vaseline[™] under the rubber dam aprons to serve as an additional precaution to prevent acrylic from locking under the abutments during the chairside pickup of the Brevis[™] housings.



11 INJECT ACRYLIC

Inject flowable acrylic around the Brevis[™] housings and into the relieved portions of the existing denture.



12 ASSURE PROPER SEATING

Place the denture into the mouth and instruct patient to **clench bilaterally on cotton rolls to assure proper seating of the denture.**

Brevis™ Chairside Technique



13 POLISH EXCESS ACRYLIC

Polish the excess acrylic around the Brevis™ housings after the removal of the rubber dam.



14 RADIOGRAPH

Radiograph of two Bicon implants and Brevis™ abutments. **It is paramount that overdentures be completely tissue borne and only implant retained.** If the acrylic is too viscous or only placed in the denture, it may cause displacement of the housing resulting in a misalignment of the housing and excessive wear of the rubber o-rings.

Note: If the denture is inadvertently locked onto the Brevis™ abutment, it is advisable to **tap it off rather than attempting to cut it off.**

The denture may be notched to facilitate the placement of a tapping instrument. Either the denture will be removed from the abutment or the abutment will be removed from the implant.

► Keys to Success

- Use an occlusal registration jig to prevent inadvertent displacement of the denture during the chairside technique.
- Use the 15° Brevis™ abutment to help achieve parallelism for non-parallel implants.
- The denture should NOT rock or pivot on the abutments or the housings.
- Do not make a direct impression of the overdenture abutments.
- Use a rubber dam and Vaseline™ to prevent locking of the denture beneath the undercut of the abutments.
- Place acrylic into a syringe for ease of use and greater control.
- A too viscous mix of acrylic may inappropriately displace the orientation of the Brevis™ housing on the abutment.
- It is essential for the patient to clench bilaterally on cotton rolls to ensure proper seating of the housings in the denture.
- If the denture is too retentive, slightly relieve the inside of the o-ring lumen with a round bur.
- A common cause of accelerated o-ring wear is a Brevis™ housing whose retentive acrylic was polymerized while the Brevis™ housing was not appropriately aligned on the abutment.



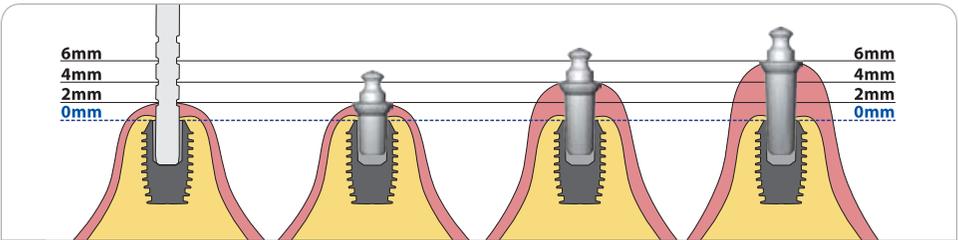
1 OCCLUSAL REGISTRATION

A registration of the denture's occlusal relationship prior to the uncovering of the implants will assure that the denture is not inappropriately displaced by the abutment or its housing.



2 UNCOVER IMPLANTS

Uncover each implant using a small crestal incision and use the healing plug removal instrument to facilitate the removal of the black healing plug.



3 USE A SHOULDER DEPTH GAUGE TO DETERMINE ABUTMENT HEIGHT

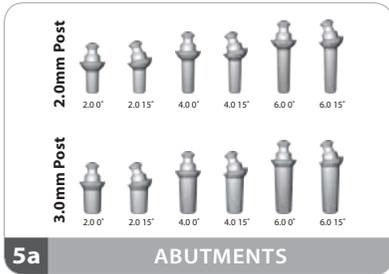
Use a shoulder depth gauge to facilitate the selection of the abutment height.



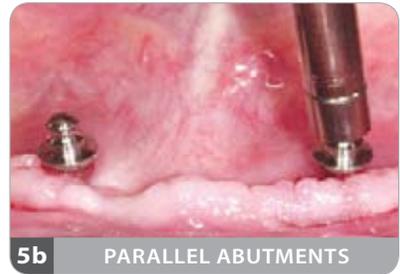
4 PLACE GUIDE PINS

Place guide pins into the implants to determine their axial inclinations.

Indirect Transfer Technique



Rotate a combination of 0° and/or 15° angled abutments to achieve parallelism prior to their being seated. Brevis™ abutments are available in heights of 2.0, 4.0 and 6.0mm.



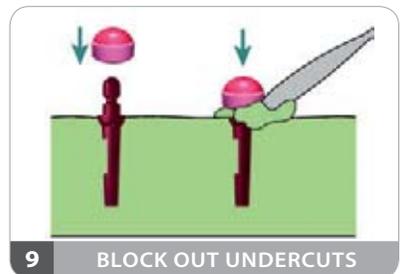
Seat black plastic impression caps onto the Brevis™ abutments.



Make impression using Brevis™ impression caps. **Do not make a direct impression of the titanium abutments.**



Insert the aluminum transfer dies into the impression caps prior to the pouring of a master stone model.



Block out undercuts on the model.

Removing/Inserting Rubber O-Ring into Brevis[™] Housing



1 REMOVE HOUSINGS

Remove rubber o-rings with a scaling instrument or explorer.



2 INSERT EXPLORER

Insert the explorer in between the o-ring and Brevis[™] housing and loosen the o-ring from the housing.



3 SQUEEZE O-RING

Using cotton pliers, squeeze the o-ring into a figure eight and insert it into the housing.



4 PLACE O-RING

Place the entire o-ring into the retentive groove within the Brevis[™] housing.



5 MOVE O-RING INTO PLACE

If the o-ring is fully inserted, yet not secure in the retention lip of the housing, use an explorer to move the o-ring into place.

Rubber O-Ring Maintenance

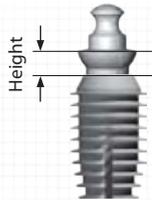
► Keys to Success

- Each patient maintains and inserts his denture differently. The o-ring should be changed every 6 to 24 months depending upon its wear.
- The o-rings should not be soaked in a solution with high alcohol content. Some cleaning solutions may dry out the rubber o-rings and cause them to lose retention faster than normal.
- An inappropriately aligned housing will result in excessive wear of the rubber o-ring.
- If excessive wear of o-ring is noted, remove and re-align the housing in denture with a sufficiently flowable acrylic injected onto the housing and into the relieved denture.

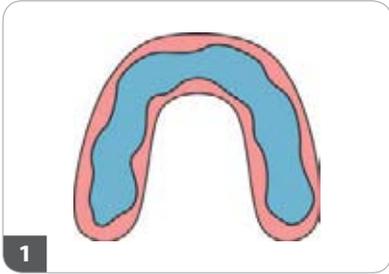
► Measurement Guide

The design of the Bicon abutment system is such that the hemispherical base of the abutment does not sit flush with the neck of the implant. By design, there is a space below the abutment post when the abutment is fully seated. When viewing this on a radiograph, it can be seen as a radiolucency. **Please note that the post of any abutment may not be modified. Altering the abutment post in any manner or using a cementing medium will affect the frictional fit of the locking taper resulting in a potentially non-retentive abutment.** The following diagram depicts the final seating of a Brevis™ abutment as well as the method for measuring each abutment.

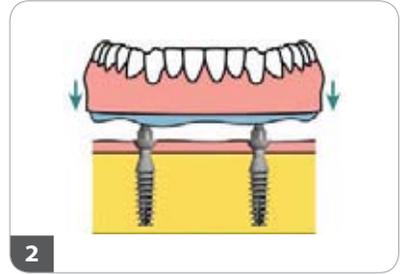
Brevis™ Abutment



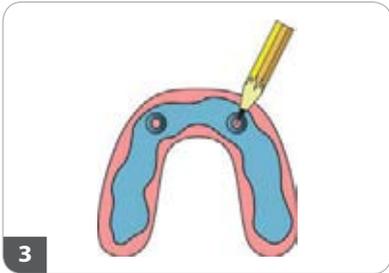
The height of the Brevis™ abutment is measured from the top of the implant to the shoulder of the Brevis™ abutment. The available heights are 2.0, 4.0 or 6.0mm. The total height from the top of the implant to the top of the abutment is approximately 5.0, 7.0 or 9.0mm, respectively.



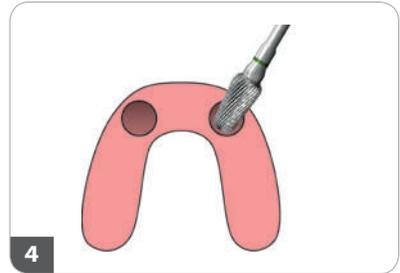
Place soft wax to record relative position of abutments.



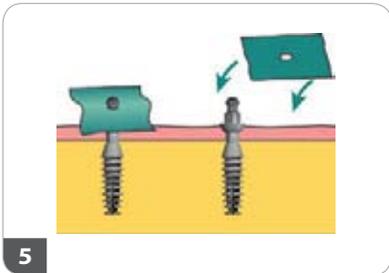
Record position of abutments in soft wax. Alternatively, abutments could be marked with a wet ink prior to inserting denture for recording an ink transfer mark.



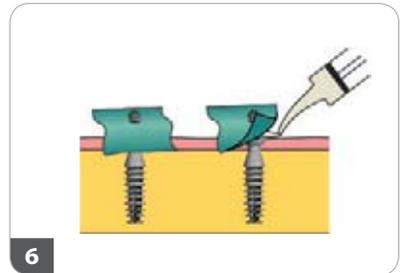
Mark position of abutments on denture.



Liberalily relieve denture to accommodate BrevisTM housings and confirm position intra-orally.

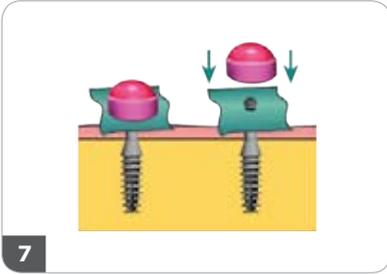


Place rubber dam apron over abutments.

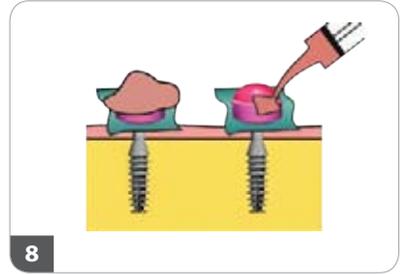


Apply VaselineTM under rubber dam apron.

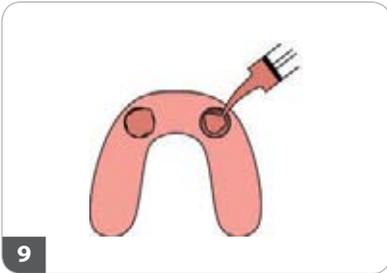
Chairside Brevis™ Technique



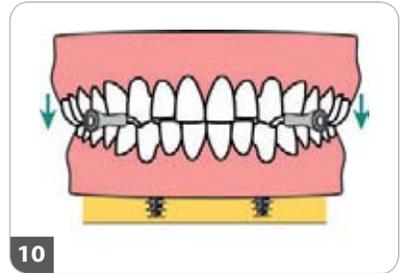
7 Snap Brevis™ housing onto abutments.



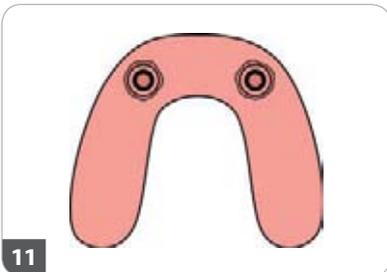
8 Sufficiently apply fluid acrylic to Brevis™ housing to prevent displacement of housing upon insertion of denture.



9 Place minimal acrylic into relieved denture.

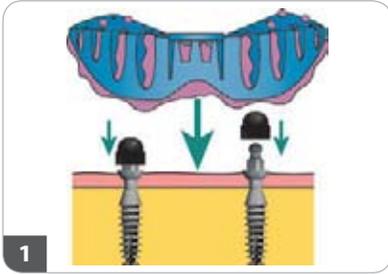


10 Patient clenches bilaterally on cotton rolls while acrylic sets.

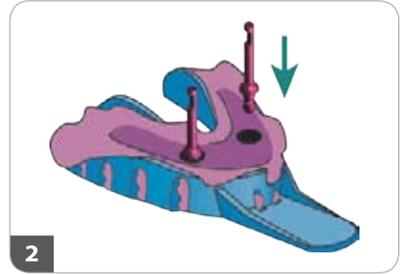


11 Polish excess acrylic from denture and remove palatal coverage for maxillary dentures.

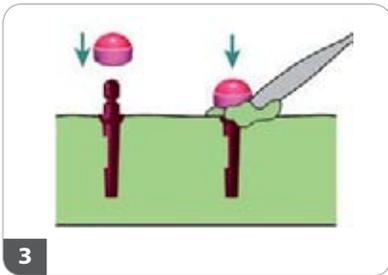

BREVIS™



1 Place plastic alignment caps on abutments and record impression.



2 Insert aluminum transfer dies into alignment caps in the impression and pour the master model.



3 Snap Brevis housing on to the aluminum transfer die and block out undercut with stone.



► Brevis™ Abutment

The height of the Brevis abutment is measured from the top of the implant to the shoulder of the Brevis abutment. The available heights are 2.0, 4.0 or 6.0mm. The total height from the top of the implant to the top of the abutment is approximately 5.0, 7.0 or 9.0mm, respectively.



Brevis™ Abutment System

Brevis™ Abutments*

2.0mm Post

Description	Height	Angle	Post	Part Number	0°	15°
2.0mm 0° Brevis Abutment 2.0mm Post	2.0mm	0°	2.0mm	260-100-404		
2.0mm 15° Brevis Abutment 2.0mm Post	2.0mm	15°	2.0mm	260-100-405		
4.0mm 0° Brevis Abutment 2.0mm Post	4.0mm	0°	2.0mm	260-100-406		
4.0mm 15° Brevis Abutment 2.0mm Post	4.0mm	15°	2.0mm	260-100-407		
6.0mm 0° Brevis Abutment 2.0mm Post	6.0mm	0°	2.0mm	260-100-408		
6.0mm 15° Brevis Abutment 2.0mm Post	6.0mm	15°	2.0mm	260-100-409		

Brevis™ Abutments*

3.0mm Post

Description	Height	Angle	Post	Part Number	0°	15°
2.0mm 0° Brevis Abutment 3.0mm Post	2.0mm	0°	3.0mm	260-300-434		
2.0mm 15° Brevis Abutment 3.0mm Post	2.0mm	15°	3.0mm	260-300-435		
4.0mm 0° Brevis Abutment 3.0mm Post	4.0mm	0°	3.0mm	260-300-436		
4.0mm 15° Brevis Abutment 3.0mm Post	4.0mm	15°	3.0mm	260-300-437		
6.0mm 0° Brevis Abutment 3.0mm Post	6.0mm	0°	3.0mm	260-300-438		
6.0mm 15° Brevis Abutment 3.0mm Post	6.0mm	15°	3.0mm	260-300-439		

*Each abutment is packaged with one titanium Brevis housing.

Restorative Components

Description	Part Number	
Brevis Abutment Chairside Kit	260-100-212	 Rubber O-Ring  Brevis Housing
Brevis Impression Kit without Housing	260-100-218	 Impression Cap  Aluminum Transfer Die
Brevis Abutment Impression Kit	260-100-217	 Rubber O-Ring  Brevis Housing  Impression Cap  Aluminum Transfer Die
Brevis Rubber O-Rings (10)	260-100-014	 Rubber O-Ring



bicon[™]
DENTAL IMPLANTS

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