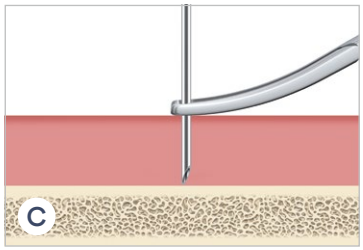
FOR PROFESSIONALS

Surgery Quick Guide –
Cochlear™ Baha® Attract System

Cochlear™ Baha® Attract surgical procedure

For detailed instructions, consult the Cochlear™ Baha® Attract Surgery Guide.

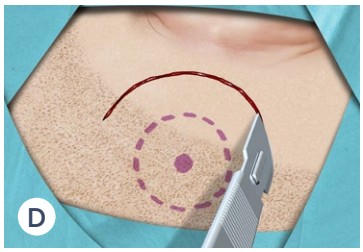


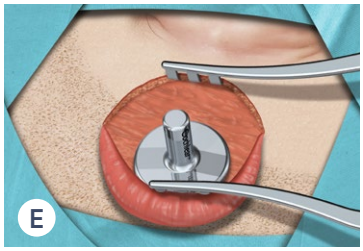
STEP 1 Prepare the site

A Identify the implant site with the Baha Indicator. It is usually 50–70 mm from the ear canal, and the superior edge of the processor should be in line with the top of the pinna. Ensure the sound processor does not touch the pinna.

B Mark the C-shaped incision anterior of the position of the magnet, at least 15 mm from the edge of the magnet. The length of the incision can be extended for easier access.

C Before local anesthesia is injected, measure the soft tissue thickness in three positions (anterior magnet edge, middle of magnet, posterior magnet edge). Ensure not to depress the tissue when measuring. If the soft tissue is thicker than 6 mm, soft tissue reduction is required. Inject local anesthesia around the implant site.



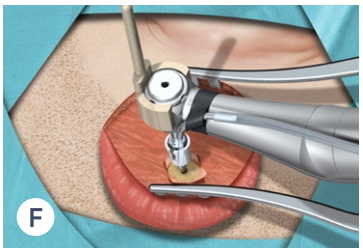


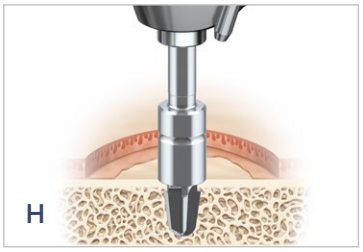
STEP 2 Make the incision

D Use a scalpel to make an incision down to the periosteum. Retract soft tissue posteriorly and superiorly via blunt dissection. The temporalis is retracted superiorly down to the periosteum.

E Open up the incision using self-retaining retractors. Place the Implant magnet template on the periosteum to ensure good positioning of the implant magnet in relation to the incision and the bone. Mark the selected position of the implant on the periosteum with a pen or the sharp tip on the Implant magnet template.

Make a cruciate incision (6 mm square) in the periosteum to expose enough bone for the implant flange and countersink. Raise the edges using the broader end of the Raspatorium/Probe.





STEP 3 Drill with the Conical guide drill

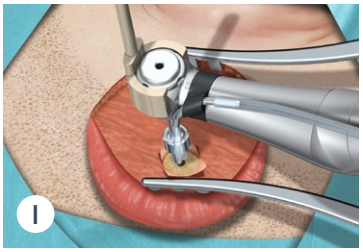
F Be certain to drill at an angle perpendicular to the bone surface. The drill indicator verifies correct drill orientation.

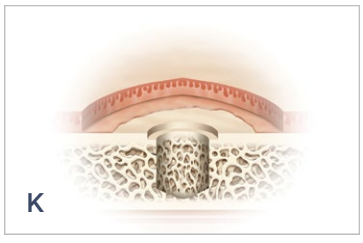
G Begin drilling with the Conical guide drill with 3 mm spacer (2000 rpm). Ensure there is abundant irrigation during all drilling procedures.

Move the burr up and down to ensure visual inspection and that coolant reaches the tip of the drill.

Check the bottom of the site repeatedly for bone using the Raspatorium/Probe.

H If there is adequate bone thickness, remove the white spacer and continue drilling as appropriate to accommodate the required BI300 Implant.





STEP 4 Drill with the Widening drill

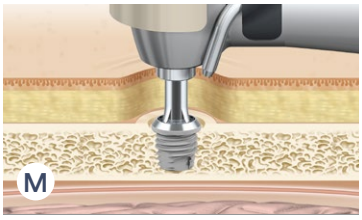
I Be certain to drill at an angle perpendicular to the bone surface.

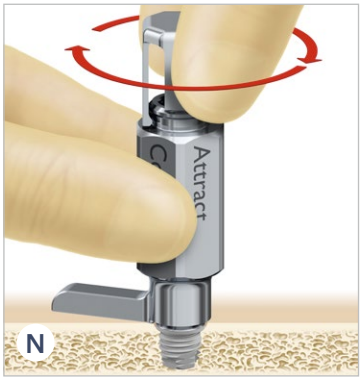
J Widen the site with the relevant Widening drill (2000 rpm). Ensure abundant irrigation during all drilling procedures.

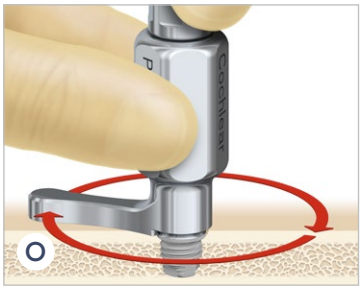
Move the Widening drill up and down during drilling to ensure that coolant reaches the tip of the drill.

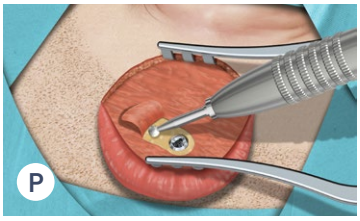
K Create a small countersink in the bone. The Widening drill is designed to allow early detection when countersinking is complete.

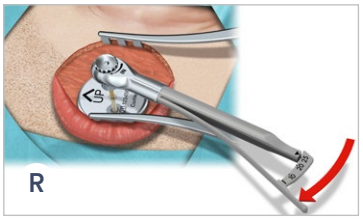
* The Cochlear Baha Attract System consists of: Cochlear Baha BI300 Implant, Cochlear Baha BIM400 Implant Magnet, Cochlear Baha Sound Processor Magnet, Cochlear Baha Sound Processor











STEP 5 Place the implant

L Change the drill program to a low-speed setting and select the correct torque according to the bone quality. Pick up the implant using the Implant inserter.

M Place the implant without irrigation until the first threads of the implant are inserted in the bone. Once the first threads of the implant are in the bone, continue with irrigation.

N Place the bone bed indicator on the implant and gently hand tighten it to the implant threads by turning the top knob. Make sure that it is properly tightened.

O Rotate it clockwise to ensure it does not touch the bone. This will allow sufficient clearance for the correct mounting of the Implant magnet.

P If the bone bed indicator touches soft tissue, remove the tissue. If the bone bed indicator touches bone, remove excessive bone, by exposing the bone in that area. Polish the bone using a standard otological high-speed drill. Check repeatedly that sufficient bone has been removed using the bone bed indicator.

When sufficient bone has been removed, put the periosteum back over the area and, if necessary, suture it in place.

STEP 6 Attach the implant magnet

Q Pick up the Implant magnet and place it in the conical connection of the implant. Verify the internal screw is protruding over the magnet surface before tightening the screw with the screwdriver. This will ensure a proper connection. Make sure the arrow on the Implant magnet is orientated towards the top of the patient's head. Hand tighten the screw with the Unigrip screwdriver, while holding the magnet with your fingers.

R Continue to tighten to 25 Ncm with the Machine Screwdriver Unigrip and the Multi wrench with ISO adapter, while holding the magnet with your fingers.

S Evaluate the thickness of the flap using the Soft Tissue Gauge. Always move the gauge sideways over the entire flap. Do not compress the flap. It should fit loosely in the soft tissue gauge to verify correct tissue thickness. The skin flap should not be thicker than 6 mm and should fit loosely in the Soft tissue gauge.

Note

If local anesthesia has been infiltrated in the soft tissue, this can increase the flap thickness and affect the results when the thickness of the flap is measured.

STEP 7 Close and suture

T Place the flap over the Implant magnet and suture. Be sure to suture the deep layer to the periosteum, or suture the skin to the periosteum and back to the skin. Do not suture over the Implant magnet where pressure will later be applied.

U Apply a pressure dressing over the wound for 24–48 hours.

Note

Do not remove the sutures before the incision is sufficiently healed.

Do not fit the Sound Processor Magnet before the wound is sufficiently healed.

Do not attach the Implant magnet over a sleeper implant as this may interfere with the implanted magnet.

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In the United States and Canada, the placement of a bone-anchored implant is contraindicated in children below the age of 5.

This material is intended for health professionals. If you are a consumer, please seek advice from your health professional about treatments for hearing loss. Outcomes may vary, and your health professional will advise you about the factors which could affect your outcome. Always read the instructions for use. Not all products are available in all countries. Please contact your local Cochlear representative for product information.

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- advise recipients of their choice and ensure informed consent is obtained prior to delivering care
- provide care within scope of practice, meet all legislative requirements and maintain standards of professional conduct
- apply standard precautions, and additional precautions as necessary, when delivering care
- document all care in accordance with mandatory and local requirements

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