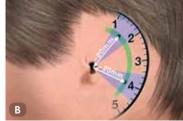
# Vistafix one-stage surgery quick guide for auricular procedures

For detailed instructions, please see the Cochlear™ Vistafix® 3 System Treatment and Surgery Guide

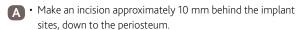
#### STEP 1 Prepare the site

- Carefully mark the implant sites.
  - The implants should be located directly under the anti-helix of the prosthesis.
- Two implants are normally sufficient. The ideal position is approximately 20 mm from the centre of the external ear canal opening, at 4 o'clock and 1.30 (left side of the patient).
  - The distance between the implants should be at least 15 mm.





#### STEP 2 Make the incision



- · Make a cruciate incision in the periosteum at the implant site.
- · Raise the edges with skin hooks.



Step 3-5 are generally done in one sequence, for one implant at a time. Start with the inferior implant.

## STEP 3 Drill with the guide drill

- Begin drilling with the guide drill and 3 mm spacer (2000 rpm).
  - Move the burr up and down and around to ensure that coolant reaches the tip of the drill.
  - Check the bottom of the hole repeatedly for bone.
  - Use the drill indicator and abundant irrigation during all drilling procedures.
- **B** If there is adequate bone thickness, remove the spacer and continue drilling to 4 mm.





#### STEP 4 Drill with the widening drill

- Widen the hole with the relevant widening drill (2000 rpm).
  - Move the widening drill up and down during drilling to ensure that coolant reaches the tip of the drill.
  - Remove bone chips frequently from the drill flutes with the dissector
- Create a small countersink in the bone. The widening drill is designed with a hard stop to reduce the risk of over countersinking.





## STEP 5 Place the implant

- Pick up the implant with the implant inserter.
- Place the implant without irrigation until the first threads of the implant are well within the bone.

BONE QUALITY	SUGGESTED TORQUE
Compact bone	40-50 Ncm
Compromised or soft bone	20-30 Ncm





#### STEP 6 Reduce subcutaneous tissue



- Use skin hooks to raise the edges of the flap.
- Remove all subcutaneous tissue with hair follicles under the skin flap.
- B Remove subcutaneous tissue at the periphery of the flap holding the blade parallel to the skin.
  - Trim the periosteum down to the innermost layer and suture the base of the skin flap down to the periosteum.





#### STEP 7 Close and suture

- Suture the edges around the flap down to the periosteum in order to hold the tissue in place.
- B Lay the flap back, stretch it out and suture it down.





## STEP 8 Connect healing abutments or abutments

Permanent abutments **or** healing abutments may be placed at this stage.

- A Punch holes over the implant area with a 4 mm biopsy punch.
- Pick up the healing abutment or abutment with the abutment holder and place it into the implant.
  - Hand-tighten the screw partially with the abutment holder.
  - Snap the abutment holder off the abutment.
- Finalise the tightening of the abutment screw to **25 Ncm** with the machine screwdriver abutment and the counter torque wrench (low speed setting).
- In case of manual tightening, tighten the abutment screw to 25 Ncm using the multi wrench ("IN" facing upwards) with the machine screwdriver abutment. Use the counter torque wrench to counter torque.







# STEP 9 Place the dressing and healing caps

#### Healing abutments

 Place a dressing around the healing abutments. Place a mastoid dressing.

#### Abutments

- Place the healing cap on the abutment and hand-tighten the screw using the Unigrip screwdriver.
  - Place the healing cap either before or after the dressing. Place a mastoid dressing.





\*The Vistafix 3 System consists of:

Cochlear Vistafix VXI300 Implant (Vistafix 3 Implant)

Cochlear Vistafix VX 3300 Abutment (Vistafix 3 Abutment)

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