BIMODAL FITTING FLOW
For the Nucleus® 7 Sound Processor and ReSound LiNX3D™ or ReSound ENZO™ 3D hearing aid

PROGRAM COCHLEAR IMPLANT (CI)
Use Cochlear™ fitting software to fit the Cochlear implant. If required, fine tune the CI MAP for acceptable loudness and sound quality. Write to the processor using the default program:
• P1 SCAN
• P2 CUSTOM

PROGRAM HEARING AID
Launch ReSound Smart Fit™ software and set up the hearing aid with the following parameters:
• Experience: Non-linear
• NAL-NL2 prescription
• Program 1 All-Around (Soft Switching)
• Program 2 All-Around (Omni)

FINE TUNE HEARING AID
Verify using the Omni program, and ensure loudness and sound quality are acceptable. Modify gain, MPO and frequency response based on recipient feedback and preference.

VERIFY BIMODAL LOUDNESS BALANCE
Are the CI and hearing aid balanced? (Ask the recipient to judge if loudness is centered in the middle of the head rather than to one side.)

YES
Use AutoRelate in Tools menu to apply gain and MPO changes made with the Omni program to Soft-switching, phone accessory and streaming accessory programs. Adjust the mixing ratio for the Phone Clip and TV streamer to -6 dB. To enable bimodal pairing to wireless accessories, re-open the Cochlear fitting software to the Write to Processor screen. Select Processor Configuration, link the processor to the hearing aid and write the MAP to the processor.

NO
Adjust gain of hearing aid to balance loudness, based on recipient feedback and preference. In some cases, it may not be possible or preferred to achieve equal balance.

PROGRAMMING COMPLETE
Bimodal Fitting Procedure

The workflow below is for bimodal fitting of a Nucleus 7 Sound Processor and a ReSound LiNX 3D or ReSound ENZO 3D hearing aid. Follow the flow to match the devices in terms of program settings and signal processing parameters.

1. PROGRAM THE COCHLEAR IMPLANT using standard procedures with Cochlear Custom Sound™ 5.0 or higher fitting software. Fine tune if needed. Write to the sound processor using default program settings. This will create two programs: P1 SCAN and P2 CUSTOM.

2. PROGRAM AND FINE-TUNE THE HEARING AID using ReSound Smart Fit software.

   Select AutoFit.

   In the Patient tab, select:
   • Experience, Non Linear.
   • Create two programs (Program 1, Program 2) both set to All-Around.

Under the Fitting drop-down options (top of screen):
• Target Rule: Select NAL-NL2 prescription

   In the Advanced Features function:
   • On the first All-Around tab, select Soft Switching. With this setting the directionality of the hearing aid is seamlessly adjusted depending on the listening situation, matching the SCAN program on the sound processor.
   • On the second All-Around tab, select Omni. This more closely matches the directionality of the CUSTOM program on the sound processor.
   • All other Advanced Features are recommended to be maintained at the default settings.
   • Using the Omni program, verify the hearing aid fitting with Real Ear Insertion Gain if available, otherwise fit to simulated gain targets. Using the omni-directional microphone setting for verification will minimise attenuation effects if the recipient looks away from the speaker during the test.
   • Adjust the hearing aid gain to match the prescribed targets as closely as possible.

3. VERIFY THE BIMODAL LOUDNESS BALANCE

   Turn on the CI sound processor (at user-preferred settings) and fine tune the hearing aid settings for loudness comfort based on recipient feedback and preference.

   Use AutoRelate in the Tools menu to apply gain and MPO changes from the Omni program to the Soft-Switching, phone accessory and streaming accessory programs.

4. WIRELESS PAIRING

   If bimodal pairing to wireless accessories is desired, adjust the mixing ratio for the TV Streamer and Phone Clip in the Advanced Features of the Streaming and Phone Accessories programs. Select -6dB to apply 6 dB attenuation to the hearing aid microphone relative to each of the accessories to match the 2:1 ratio used as the sound processor mixing default.

   You do not need to adjust the mixing ratio for the Cochlear Mini Microphone 2/2+.

5. BIMODAL LINKING

   To enable bimodal direct audio streaming from compatible Apple devices, re-open the Cochlear fitting software. In the Write to Processor screen, select Processor Configuration, link the processor to the hearing aid and write the MAP to the processor.

   If the hearing aid was programmed before the CI sound processor, this linking step can be done at the time of the CI programming.

Cochlear and ReSound are partners in the Smart Hearing Alliance
to develop the world’s smartest bimodal hearing solutions

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