

Adult Cochlear[™] Connected Care model quick guide





Timing	Within 2 weeks post surgery (0–14 days)	1–3 months post surgery
Programming	 □ Inspect implant site, select magnet strength □ Activate using population mean □ Minimum dynamic range: 40 CL Streamlined workflow default: 46 CL □ Globally increase T and C levels together until "Loud." This may take several minutes as the patient habituates to electric stimulation □ Sweep Cs in bands to ensure broadly equivalent loudness across the array. Stimulation should be "loud" for each band across the frequency range □ Program 1: SCAN 2 FF, Program 2: SCAN 2 □ Activate Master Volume Bass & Treble (MVBT) 	 □ Inspect the implant site and equipment, assess magnet strength □ C Levels: Ensure appropriate and equal loudness across bands of electrodes □ T Levels: Measure streamlined Ts (at least 5) at least once in the Optimization phase, ensuring they are set at the lowest level that is 100% audible Reassess only when there are sound quality or audibility concerns □ Cross check the MAP using objective measures • eSRT thresholds are typically ~15 CL above C levels¹,² • tNRT thresholds typically fall between T and C levels of a MAP with the same pulse width³
Audibility, speech perception, patient satisfaction	☐ Ensure audibility using Ling sounds or other informal measure	 □ Remote Check: Aided Threshold Test (ATT) for audibility and Digit Triplet Test (DTT) for speech in noise. □ Sound Booth: Measure soundfield audibility, CNCs in the implanted ear, and AzBio +10 in the everyday listening condition □ Administer patient reported outcome measure (e.g. CIQOL, SSQ)
Contralateral ear	 □ Bimodal: Link smart bimodal device □ Bilateral CI: Balance loudness between two ears 	 Consider bilateral cochlear implantation for appropriate candidates Bimodal: Fit and link smart bimodal device as needed Bilateral CI: Balance loudness between two ears
Patient empowerment	 □ Recommend 10+ hours of daily use □ Instruct on use of MVBT to self-manage loudness and sound quality □ Ensure registration of all patient equipment □ Schedule virtual patient appointment with the Recipient Solutions Manager (RSM) for introductory device education and aural rehabilitation guidance □ Review Aural Rehab materials (e.g. manual, Cochlear CoPilot) 	 □ Confirm 10+ hours of daily use □ Review progress results with the patient □ Enroll in Remote Care. Once the patient has met their milestones (see right column), assign a baseline in Remote Check □ Ensure patient is continuing to access RSM services for accessory support, rehabilitation guidance, and other patient education □ Encourage use of MVBT to manage sound quality



Timing

Graduate those meeting milestones to annual monitoring at approximately the 90-day appointment (3+ months post surgery)

Milestones

- ☐ At ~3 months, CNC scores in the implanted ear of ≥56% or ≥20% improvement from preoperative baseline
 - This ensures the patient is achieving above average performance or a clinically significant improvement in speech perception^{4,5}
- ☐ Appropriate audibility of better than 30 dB HL with the cochlear implant only
 - Appropriate access to soft sounds is associated with improved performance⁶
- ☐ Appropriate device use of 10+ hours per day
 - Full time cochlear implant use is associated with improved performance⁷
- ☐ Patient reported satisfaction assessed formally (e.g. CIQOL, SSQ) or informally
 - This measures the patient's hearing experience with their cochlear implant to ensure subjective benefit

Maintenance goals

- ☐ Use Remote Check to monitor the patient's performance when possible
 - Note that a change of 3 dB or greater is considered a clinically significant change on the Digit Triplet Test⁸
- ☐ Reassess T and C levels when indicated by performance changes or to address patient reported concerns
- ☐ Assess patient's other ear for potential CI candidacy
- ☐ Encourage patient to connect with Cochlear directly for support and troubleshooting
- ☐ Consider an upgrade (e.g. after 5+ years after initial processor fitting)

Cochlear resources

Care Model website

www.cochlear.us/caremodel



Recipient Solutions Manager

cochlear.us/rsmbooking



Audiologist on Call (AOC)

877 883 3101

Device support

877 651 7001 support.cochlear.com/us/en/home

Billing and coding support

800 587 6910 codingsupport@cochlear.com

Hear now. And always

Cochlear is dedicated to helping people with moderate to profound hearing loss experience a world full of hearing. As the global leader in implantable hearing solutions, we have provided more than 750,000 devices and helped people of all ages to hear and connect with life's opportunities.

We aim to give people the best lifelong hearing experience and access to next generation technologies. We collaborate with leading clinical, research and support networks to advance hearing science and improve care.

That's why more people choose Cochlear than any other hearing implant company.

References

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- 2. Holder, J.T. 2022. The Role of eSRT in Device Programming. Maximizing Performance in Cochlear Implant Recipients: Programming Concepts. New York, NY, United States.
- 3. Di Nardo W, Ippolito S, Quaranta N, Cadoni G, Galli J. Correlation between NRT measurement and behavioural levels in patients with the Nucleus 24 cochlear implant. Acta Otorhinolaryngol Ital. 2003 Oct;23(5):352-5. PMID: 15108484.
- 4. Cochlear Limited 2019. Nucleus Cl532 data on file.
- 5. Buchman CA, Herzog JA, McJunkin JL, Wick CC, Durakovic N, Firszt JB, Kallogjeri D; Cl532 Study Group. Assessment of Speech Understanding After Cochlear Implantation in Adult Hearing Aid Users: A Nonrandomized Controlled Trial. JAMA Otolaryngol Head Neck Surg. 2020 Oct 1;146(10):916-924. doi: 10.1001/ jamaoto.2020.1584. PMID: 32857113; PMCID: PMC7453346.
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- Holder JT, Dwyer NC, Gifford RH. Duration of Processor Use Per Day Is Significantly Correlated With Speech Recognition Abilities in Adults With Cochlear Implants. Otol Neurotol. 2020 Feb;41(2):e227-e231. doi: 10.1097/MAO.000000000002477. PMID: 31789794; PMCID: PMC6954337.
- 8. Maruthurkkara S, Case S, Rottier R. Evaluation of Remote Check: A Clinical Tool for Asynchronous Monitoring and Triage of Cochlear Implant Recipients. Ear Hear. 2022 Mar/Apr;43(2):495-506. doi: 10.1097/AUD.000000000001106. PMID: 34320523; PMCID: PMC8862779.

This is meant to be an at-a-glance resource. Excluded from this guidance are assessment of residual hearing, alternative MAP initiation methods, SSD recommendations, and EAS recommendations. Please see full Adult CI Protocol for complete care recommendations.

Remote Check and Remote Assist for Nucleus sound processors are intended for ages 6 and older. Remote Check and Remote Assist features are only visible and accessible if they are enabled by a clinician. Clinicians should consider the suitability of the feature before enabling Remote Check and Remote Assist. Only available at clinics that have enrolled in Remote Care.

SNR-NR, WNR and SCAN are approved for use with any recipient ages 6 years and older who is able to 1) complete objective speech perception testing in quiet and in noise in order to determine and document performance 2) report a preference for different program settings.

ForwardFocus can only be enabled by a hearing implant specialist. It should only be activated for users 12 years and older who are able to reliably provide feedback on sound quality and understand how to use the feature when moving to different or changing environments. It may be possible to have decreased speech understanding when using ForwardFocus in a quiet environment.

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