COCHLEAR IMPLANTS

Ministry of Education & NZ Federation for Deaf Children
Parent Hui
11-12 April 2015

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General Manager
Southern Cochlear Implant Programme
WELCOME

The Northern Cochlear Implant Programme (NCIP) is a publicly funded program that serves profoundly deaf children and adults in the northern region of New Zealand. If you or your child or your client live north of Taupo then you’re in the right place.

GO

If you reside south of Taupo then please click here to be taken to the Southern Cochlear Implant Programme website

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Funding and Population Base

• Both programmes are funded to provide bilateral implants for up to 23 children, per annum

• The SCIP currently has
  • 189 children in total, all ages
  • Approximately 60 children with bilateral implants
  • The balance of 130 with unilateral implants

• Children with CI represent up to 15% of those with hearing loss
Who do we recommend implants for?
Paediatric Referral Criteria, Candidacy Guidelines

• What is a cochlear implant?
  • A surgically implanted device providing auditory sensation through electrical stimulation of the auditory nerve

• Who do we provide cochlear implants for?
  • Those with severe-profound hearing loss OR
  • Those with ANSD AND
  • Who derive no significant benefit from hearing aids

• What do we provide cochlear implants for?
  • A cochlear implant provides access to a speech signal for the development of spoken language

• The provision of an auditory signal may also have benefits for
  • Music
  • Other environmental sounds
  • Safety

• … but these are not factors when considering candidacy
The Audiogram and the Speech Banana

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<th>dB</th>
<th>Low Pitched</th>
<th>High Pitched</th>
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<tbody>
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<td>4000</td>
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<tr>
<td>10</td>
<td>250</td>
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- **Soft**
  - Normal hearing
  - Mild hearing loss (20–40 dB HL)
  - Moderate hearing loss (40–60 dB HL)
  - Moderately-severe hearing loss (60–75 dB HL)
  - Severe hearing loss (75–95 dB HL)
  - Profound hearing loss (95+ dB HL)

- **Loud**
  - beeps
  - s, th, f, s
  - m, d, b, i, a, r, ph, g, ch, sh, t
  - pianos
  - trucks
  - motorcycles
  - drills
  - airplanes
Severe-to-profound hearing loss
Single-Sided Deafness
Asymmetric Hearing Loss
Asymmetric Hearing Loss (Refer)
Referral Criteria, Candidacy Guidelines

Who can refer?
- ENT
- Audiologists
- AODC

• We are happy to provide information and advice if you are uncertain about whether to refer

www.scip.co.nz/Professionals
www.hearinghouse.co.nz/referral-criteria/
Paediatric Assessment Pathway

Referral: 2 - 3 months
Assessment: 1 - 3 months
Surgery: 2 weeks
Switch on:
CI Assessment (Audiology, Habilitation, ENT)

• Audiology
  • Unaided and aided testing
  • Speech perception

• Habilitation
  • Functional use of hearing
  • Language assessment
  • Device information
  • Expectations form

• ENT
  • Medical history
  • Discussion re- surgery
  • Request CT scan
  • Request MRI – as necessary
  • Ear health
Post Implantation Pathway

Surgery → Switch-on → MAPping Appts + Hab

- 2-3 weeks
- 2 wks, 4 wks, 2 mths, 3 mths, 6 mths, 9 mths, 1 yr, 2 yrs etc
The CI Aided Audiogram
Cochlear N6 / CP900 series
N6 Wireless Accessories
Raising Expectations

- Is the patient missing any of the speech spectrum?

- Is the child making year for year progress? (re: speech, language and listening development)

- Is the patient reaching their potential?
Summary

• We are **very open to informal discussions** about a patient prior to any referrals

• If in doubt – **refer, refer, refer**

• **Remember** timely referrals for adult and children are important.
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