

Options for SSD









Phonak CROS P-13

Phonak CROS P-R









RESULTS BY YEAR



- Summation
- Head Shadow



Illustrations of the various effects of binaural hearing (image courtesy of MED-EL).

Canadian Cochlear Implant Centres



MOST



- Prospective study
- Patients with unilateral hearing loss of recent duration

Subjects

- N=10 (avg. age = 49.3 years ; range = 30-57 years)
- •6 male, 4 female
- Audiometric thresholds in the better ear of normal to mild
- Audiometric thresholds in the poorer ear of severe to profound
- Short duration of hearing loss (<5 years)



Methods

Testing:

- CNC Words & AzBio Sentences in quiet and in + 5 dB SNR
 - good ear alone (poor ear plugged)
 - poor ear alone (good ear masked)
 - in best aided condition
- Adaptive HINT with speech presented from 0 degree azimuth and noise presented from 0, 90, or 270 degrees
- Subjective questionnaires (HUI3, SSQ, PHQ-9 for Depression, Tinnitus Handicap Inventory)







Methods

Testing:

- Prior to surgery, patients were fit with a Phonak wireless CROS hearing aid for a one month trial
- Patients completed the aforementioned speech testing at one month post CROS fitting along with a questionnaire about their experience with the CROS HA







Adaptive HINT







Methods



Localization testing was completed at the 3 months post CI activation

- unaided
- with the CROS hearing aid
- with the cochlear implant











Azimuth Correct

Hemisphere Correct





Ontario Health

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Rear Quadrant







Demographic	Number
Patients	77
Average Age in Years	54.6 (Range: 18-75)
Gender	55% Male/45% Female
Side implanted	55% Right / 45% Left
Mean PTA (.5, 1, 2, 4 kHz) implanted side (dB)	82.4
Mean PTA (.5, 1, 2, 4 kHz) contralateral (dB)	17.6



How to Isolate the CI for Speech Perception **Testing**?







when it matters MOST

Testing in Quiet





Speech Perception Outcomes





*p<0.001 **p=0.02



MedEl Clinical Protocol





Potential SSD Candidates



Rt. AzBio = CNTRt. CNC = CNT



SRT	SPEECH RECOGNITION						
15	Condition	Score Level		5	Masking		List
dB	CN	20 %	100	dB	60	dB	NUL
ASKING		%	1.000	dB		dB	3A
65 dB	MCL		1	dB	UCL		d

10

0

10

20

30

40

50

60

70

80

90

100

110

120

Leyel

Cab

dB

dB UCL

Test Done Using:

See term

legend on

List

reverse.

Reliability:

Good

D Fair

D Poor

Masking

CODB

dB



Insert phones □ Headphones **Pre-labyrinthectomy**

