Time-Ordered Agenda

THURSDAY, APRIL 12, 2007

7:00–8:00 am  Continental Breakfast in Providence II & III

General Session I  Cochlear Implantation in the Very Young

Grand Ballroom (Level Two)

Guest of Honor and Invited Speakers

8:00–8:05 am  WELCOME AND OVERVIEW
  Course Co-Director H.C. Pillsbury

8:05–8:20 am  ELIMINATION OF PROFOUND DEAFNESS FOR ALL—THE CHALLENGES FACED BY
  COCHLEAR IMPLANT TECHNOLOGY
  Guest of Honor presentation by S. Parisier

8:25–8:40 am  EARLY ASSESSMENT AND HEARING AID FITTING IN INFANTS: ELIMINATING SOURCES OF
  ERROR
  P. Roush

8:45–9:00 am  SURGICAL CONSIDERATIONS: COCHLEAR IMPLANTATION IN VERY YOUNG CHILDREN
  T. Roland

9:05–9:20 am  COCHLEAR IMPLANTS AND ORAL EDUCATION: SPOKEN LANGUAGE OUTCOMES EXPECTED
  AT THE END OF THE PRESCHOOL YEARS
  J. Moog

9:25–9:40 am  PRELIMINARY RESULTS IN THE CHILDHOOD DEVELOPMENT AFTER COCHLEAR
  IMPLANTATION (CDACI) STUDY
  J. Niparko

9:45–10:00 am  Refreshment Break in Providence II & III

General Session II  Cochlear Implantation in the Very Young

Grand Ballroom (Level Two)

Scientific Paper Presentations

Session Chair: L. Eisenberg, R. Miyamoto

10:00–10:08 am  NONWORD DISCRIMINATION SKILLS IN HEARING-IMPAIRED INFANTS WITH HEARING AIDS
  OR COCHLEAR IMPLANTS
  D. Horn, D. Houston, R. Miyamoto

10:09–10:17 am  ASSESSING SPEECH PERCEPTION IN INFANTS
  A. Martinez, L. Eisenberg, L. Visser-Dumont, A. Boothroyd

10:18–10:26 am  CORRELATIONS OF FMRI ACTIVATION IN AUDITORY CORTEX AND HEARING LEVELS IN
  INFANTS WITH CONGENITAL HEARING IMPAIRMENT PRIOR TO COCHLEAR IMPLANTATION
  M. Mecoli, S. Holland, P. Karunanayaka, J. Egelhoff, V. Schmithorst, M. Altaye, L. Cahill,
  D. Brown, D. Choo

10:27–10:35 am  IS COCHLEAR IMPLANTATION BEFORE THE AGE OF ONE JUSTIFIED?
  E. Karltorp, A. Freijd, E. Ostlund, U. Johansson, P. Rasmussen

10:36–10:44 am  HOW LOW SHOULD YOU GO? SURGICAL SAFETY AND SPEECH OUTCOMES IN CHILDREN
  RECEIVING COCHLEAR IMPLANTS UNDER THE AGE OF 1 YEAR
  S.L. Cushing, B.C. Papsin, A.L. James, K.A. Gordon
### Time-Ordered Agenda

**10:45–10:53 am**  
ADAPTATION OF THE SURGICAL PROCEDURE FOR COCHLEAR IMPLANTS IN INFANTS AND TODDLERS  
*J. Mueller, G. Baier, W. Shehata-Dieler, H. Kunigh, J. Helms, R. Hagen*

**10:53–11:00 am**  
Questions and Answers

**Scientific Paper Presentations (cont)**  
Session Chair: A. Hodges, B. Papsin

**11:00–11:08 am**  
THE FITTING OF SPEECH PROCESSORS IN VERY YOUNG CHILDREN USING NRT-BASED MAPS  
*R.D. Battmer, B. Bertram, W. Kanert, S. von der Haar-Heise, J. Pesch, T. Lenarz*

**11:09–11:17 am**  
USING AN OBSERVER-BASED PSYCHOACOUSTIC PROCEDURE TO MEASURE PSYCHOMETRIC FUNCTIONS FOR DETECTION IN ELECTRIC HEARING INFANTS AND TODDLERS  

**11:18–11:26 am**  
PREVERBAL PRODUCTIONS AND THEIR RELATIONSHIP TO AUDITORY ABILITIES OF INFANTS WITH COCHLEAR IMPLANTS, UNILATERAL HEARING LOSS, NORMAL HEARING AND PREMATURELY BORN  
*L. Kishon-Rabin, R. Taitelbaum-Swead, D. Ari-Even Roth, M. Hildesheimer*

**11:27–11:35 am**  
PRELEXICAL LANGUAGE DEVELOPMENT: PRISE AND IT-MAIS QUESTIONNAIRES FURTHER NORMATIVE DATA IN THE FIRST YEAR OF LIFE  
*D. Cuda, A. Murri, L. Guerroni, A. Defilippis, V. Gaglione*

**11:36–11:44 am**  
SPEECH PERCEPTION, PRODUCTION AND LANGUAGE OUTCOMES FOR CHILDREN WHO RECEIVE A COCHLEAR IMPLANT AT A VERY YOUNG AGE  
*J. Leigh, S. Dettman, R. Dowell, R. Briggs*

**11:45–11:53 am**  
DEVELOPMENT OF AUDIOVISUAL INTEGRATION IN PEDIATRIC COCHLEAR IMPLANT USERS  
*J. Ting, T. Bergeson*

**11:53 am–12:00 noon**  
Questions and Answers

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### Poster Displays I with Authors

1:00–2:30 pm  
_Providence I & Providence Promenade (Lobby Level)_

**Assessment and Candidacy**

**#018P**  
EVALUATING AUDIOGRAMS FOR COCHLEAR IMPLANT CANDIDACY: CAN WE AGREE ON WHO IS AN AUDILOGIC CANDIDATE?  
*J. Meinzen-Derr, S. Wiley, E. Arjmand*

**#019P**  
CHILDREN WITH MODERATELY SEVERE OR WORSE SENSORINEURAL HEARING LOSS: AUDIOMETRIC REFERRAL CRITERIA FOR COCHLEAR IMPLANT  
*S. Wiley, J. Meinzen-Derr, E. Arjmand*

**#020P**  
COCHLEAR IMPLANT CANDIDACY: HARD DECISIONS MADE EASIER  
*T. Howarth and the Glenrose Rehabilitation Hospital Cochlear Implant Team*

**#021P**  
VALIDATION OF A MODIFIED COCHLEAR IMPLANT PROFILE (MCHIP) TOOL FOR USE IN PEDIATRIC COCHLEAR IMPLANT CANDIDATE EVALUATION  
*L. O’Brien, M. Kenna, D. Poe, M. Neault, B. Kammerer, T. Clark, J. Johnson, S. Dawson, W. Levesque, J. Harris, S. Steinmetz, K. Stevens, G. Licameli*

**#022P**  
EVOLUTION OF THE CHILDREN’S IMPLANT PROFILE (CHIP) INTO AN OUTCOME PREDICTION VERSUS PATIENT SELECTION TOOL  
*J. Meinzen-Derr, D. Choo, S. Wiley*

**#023P**  
CANDIDACY PROFILE FOR PRELINGUAL PROFONDLY HEARING IMPAIRED ADOLESCENTS  
*T. Shpak, L. Koren, N. Tzach, C. Peleg, M. Lantz*
Poster Displays I with Authors (cont)

**Cochlear Implantation in the Very Young**

#024P RELATION BETWEEN ABR TEST RESULTS AND RECOMMENDATION FOR COCHLEAR IMPLANTATION IN INFANTS  
J. Cadieux, R. Reeder, R. Karzon, J. Firszt

#025P ASSESSING SPEECH DISCRIMINATION IN INDIVIDUAL INFANTS: EFFECTS OF HEARING LOSS AND CONTRAST DIFFICULTY  
J. Ting, R. Holt, J. Smith, M. Benson, D. Houston, R. Miyamoto

#026P COMPARISON OF INTRA-OPERATIVE STAPEDIOUS REFLEX THRESHOLDS AND M-LEVEL IN CHILDREN  
R.D. Battmer, M. Brendel, A. Buechner, Y. Khajehnouri, T. Stoever, B. Schwab, T. Lenarz

#027P VERY EARLY COCHLEAR IMPLANTATION FACILITATES WORD LEARNING  
D. Houston, J. Stewart, A. Moberly, G. Hollich, R. Miyamoto

#028P FMRI SHOWS DIFFERENCES IN AUDITORY ACTIVATION BETWEEN INFANTS WITH NORMAL HEARING AND BILATERAL SENSORINEURAL DEAFNESS  
P. Karunanayaka, S. Holland, M. Mecoli, J. Egelhoff, V. Schmithorst, M. Altaye, D. Brown, D. Choo

#029P LITTLEARS AUDITORY QUESTIONNAIRE: EVALUATION RESULTS IN NORMAL HEARING AND CI CHILDREN  
J. Brachmaier, M. Deibl, D. Shepherd

#030P LITTLEARS DIARY FOR PARENTS AND THERAPISTS: DOCUMENTATION METHOD FOR EARLY AUDITORY AND VERBAL DEVELOPMENT OF INFANTS  
J. Brachmaier, H. Kühn-Inacker, K. Veekmans,

#031P VALIDATION OF THE LITTLEARS AUDITORY QUESTIONNAIRE IN DUTCH  
K. Vermeire, J. Brachmaier, A. Compernol, E. Autrique, M. Desloovere, P. Van de Heyning

**Electroacoustic Stimulation**

#032P BILateral PERFORMANCE WITH THE Nucleus HYBRID SHORT-ELECTRODE ARRAY USING MORE REALISTIC TESTS  
C. Dunn, R. Tyler, S. Witt, B. Gantz, A. Perreau, B. Macpherson

#033P FITTING PARADIGM IN THE COMBINED ELECTRIC-ACOUSTIC STIMULATION (EAS)  
M. Polak, M. Schmidt, A. Lorens, S. Helbig, S. McDonald, K. Vermeire

**Mapping**

#034P CLINICAL ASSAY WITH AUDITORY MIDDLE EVOKED POTENTIALS (AMEP) IN PEDIATRIC POPULATION WITH COCHLEAR IMPLANTS  
M. Rosete, J.M. Cornejo, S. Ortiz, P. Granados, S. Castillo, N. Castaneda, M. Fierro

#035P ELECTROPHYSIOLOGIC MEASURES AS A TOOL FOR PEDIATRIC PROGRAMMING  
T. Van Voorst, M. Kenworthy, S. O’Brien, S. Erenberg, C. Etler

#036P SIMPLE FITTING MODIFICATIONS BASED ON MEASURES OF PERIPHERAL VARIABILITY IN INDIVIDUAL SUBJECTS  

#037P HIRES PROGRAMMING IN PEDIATRIC COCHLEAR IMPLANT RECIPIENTS  
K. Veekmans, K. Hawker, M. Daft, S. Johnson, T. Twomey

#038P LONG-TERM STABILITY OF COCHLEAR IMPLANT MAP PARAMETERS: FROM CHILDHOOD THROUGH ADOLESCENCE  
Y. Abrahams, K. Lee, S. Westcott, C. Psarros

**Medical Considerations**

#039P COMPARISON OF PEDIATRIC COCHLEAR IMPLANT PATIENTS FROM A DEVELOPED AND A DEVELOPING COUNTRY  
D. Carvalho, A. Mellish, J. Biard, P. Porto, S. Curi, L. Calonga, R. Kang
#040P CI ELECTRODE DESIGNED FOR PASSIVE DIFFUSION OF A SUBSTANCE INTO THE INNER EAR
C. Jolly, C. Garrham, W.D. Baumgartner, J. Kiefer

#041P MANAGEMENT OF ACUTE OTITIS MEDIA AND MASTOIDITIS IN CHILDREN WITH COCHLEAR IMPLANTS
J. Mueller, G. Baier, C. Knaus, J. Helms, R. Hagen

#042P THE BAHÄ SOFTBAND: A NEW TREATMENT FOR YOUNG CHILDREN WITH BILATERAL CONGENITAL AURAL ATRESIA
A. Snik, M. Hol, C. Verhagen, W. Coppens-Schellekens, C. Cremers

#043P GENETIC ANALYSIS OF NONSYNDROMIC HEARING LOSS IN THE INDIAN POPULATION
N. Vaid, G. Chandak, K. Godbole, J. Hemavathi

#044P THE FREQUENCY OF 35DELG IN PEDIATRIC COCHLEAR IMPLANT PATIENTS IN TWO COUNTRIES OF THE AMERICAN CONTINENTS
T. Christiani, S. Curi, D. Carvalho, P. Porto, E. Sartorato

Outcomes—Hearing and Speech Perception

#045P THE WURZBURG EXPERIENCE WITH CHANGING COCHLEAR IMPLANT TECHNOLOGY: A REVIEW AFTER MORE THAN 1,000 COCHLEAR IMPLANTS
J. Mueller, St. Brill, W. Harnisch, G. Baier, F. Schon, J. Helms, R. Hagen

#046P MORE THAN TWO YEARS' EXPERIENCE WITH THE FLEXSOFT ELECTRODE AND THE PULSAR C1000 COCHLEAR IMPLANT

#047P PROSODY INFORMATION AND SPEAKER RECOGNITION IN FINE STRUCTURE PROCESSING
W. Harnisch, S. Brill, M. Bauer, A. Möltner, J. Müller, R. Hagen

#048P CLINICAL AUDIT OF OUTCOMES IN COCHLEAR IMPLANTATION: AN INDIAN EXPERIENCE
R. Goyal, K. Sharma

#049P SPEECH PERCEPTION IN DEGRADED LISTENING CONDITIONS AFTER LONG-TERM COCHLEAR IMPLANT USE
L. Davidson, A. Geers

#050P SUBJECTIVE MEASUREMENT OF COCHLEAR IMPLANT USERS IN DIFFERENT LISTENING CONDITIONS
C.J. Liu, H.C. Chen

#051P THE EARS TEST BATTERY: PROVIDING NORMATIVE DATA
I. Anderson, M. Deibl, D. Shepherd

#052P PARENTING STRESS IN DEAF AND HEARING TODDLERS AT 6 AND 12 MONTHS POST IMPLANTATION
A. Quittner, L. McDonald, D. Barker, I. Cruz, CDaCI Investigative Team

#053P ASSESSING PARENTAL SELF-EFFICACY AND INVOLVEMENT USING AND EARLY INTERVENTIONIST QUESTIONNAIRE
L. Wagner, K. Buckley, E. Tobey

#054P BILINGUAL VERSUS MONOLINGUAL HOME ENVIRONMENT IN CHILDREN WITH COCHLEAR IMPLANTS
E. Thomas, H. El-Kashlan, T. Zwolan

#055P COMPARISON OF SPEECH PERCEPTION SKILLS IN A MULTILINGUAL ENVIRONMENT AMONG THREE FILIPINO SISTERS WITH COCHLEAR IMPLANTS
N.V. Martinez

#056P AUDITORY AND LANGUAGE ABILITIES IN CHILDREN: COMPARISON OF THE TWO DIFFERENT COCHLEAR IMPLANT SYSTEMS
M. Bevilacqua, A. Moret, N. Frederique, M. Tsumura, L. Nascimento, O. Costa

#057P EVALUATION OF THE HARMONY PROCESSOR AND T-MIC IN CHILDREN
L. Buckler, K. Lewis, K. Lisbona
#058P THE NUCLEUS FREEDOM PEDIATRIC POST APPROVAL STUDY  
J. Gilden, L. Hazard

Outcomes—Language

#059P TRAJECTORIES OF SPOKEN AND SIGN LANGUAGE DEVELOPMENT IN IMPLANTED CHILDREN FROM TOTAL COMMUNICATION PROGRAMS  
B. Seal, D. Nussbaum, S. Scott, B. Waddie-Smith, K. Belzner, L. Gray

#060P THE PROCESS OF THE PRELEXICAL AND EARLY LEXICAL LANGUAGE DEVELOPMENT OF EARLY IMPLANTED CHILDREN UNDER THE AGE OF TWO YEARS: A LONGITUDINAL STUDY  
B. Bruns, M. Schweizer, J. Brachmeier, A. Limberger, A. Keilmann

#061P WILL THEY CATCH UP? THE ROLE OF AGE AT COCHLEAR IMPLANTATION IN THE SPOKEN LANGUAGE DEVELOPMENT  
J. Nicholas, A. Geers

#062P LONG-TERM OUTCOME AFTER PEDIATRIC COCHLEAR IMPLANTATION: COGNITION, LANGUAGE, AND LITERACY  
J. Olds, E. Fitzpatrick, K. Rabjohn, R. Gaines, A. Durieux-Smith, D. Schramm

#063P NOVEL NOUN LEARNING IN DEAF AND HEARING CHILDREN AT BASELINE AND 6 AND 12 MONTHS POST IMPLANTATION  
D. Barker, I. Cruz, R. Carlsen, M. Botteri, A. Quittner, L. Eisenberg, E. Tobey, N. Wang, N. Fink, J. Niparko, CDaCI Investigative Team

#064P RECEPTIVE VOCABULARY DEVELOPMENT IN DEAF CHILDREN WITH COCHLEAR IMPLANTS: ACHIEVEMENT IN AN INTENSIVE ORAL EDUCATIONAL SETTING  
H. Hayes, A. Geers, R. Treiman, J. Moog

#065P MEASURES OF LANGUAGE ACQUISITION AFTER CI IN AN INCLUSIVE EDUCATIONAL SETTING  
M. O’Leary-Kane, P. Ulanet, N. Mellon, J. Mertes

#066P LANGUAGE ABILITIES OF HEARING & DEAF CHILDREN: A COMPARISON OF THE NICHD AND CDACI COHORTS  
M. Grimley, D. Barker, I. Cruz, M. Botteri, A. Quittner, CDaCI Investigative Team

#067P LEXICAL DEVELOPMENT IN A SPANISH-ENGLISH CI RECIPIENT  
J. Moore

Outcomes—Literacy

#068P MATERNAL SENSITIVITY AS A PREDICTOR OF GROWTH IN LANGUAGE IN DEAF AND HEARING PRESCHOOLERS  
A. Quittner, I. Cruz, D. Barker, M. Botteri, L. Eisenberg, E. Tobey, N. Fink, J. Niparko, CDaCI Investigative Team

#069P MOTHER AND TEACHER RATINGS OF MATERNAL EFFICACY AND INVOLVEMENT IN LANGUAGE DEVELOPMENT OF YOUNG CHILDREN WITH IMPLANTS  

#070P NEUROPSYCHOLOGICAL CORRELATES OF VOCABULARY AND READING IN CHILDREN WITH COCHLEAR IMPLANTS  
M. Fagan, D. Horn, C. Dillon, D. Pisoni

#071P LISTENING, SPEAKING, AND PHONOLOGICAL PROCESSING FACILITATE LITERACY IN CI-USERS  
L.J. Spencer

#072P READING, VOCABULARY, AND PHONOLOGICAL PROCESSING SKILLS IN DEAF CHILDREN WITH COCHLEAR IMPLANTS  
C. Dillon, K. de Jong, D. Pisoni

#073P NARRATIVE WRITING ASSESSED WITH KEY-LOGGING IN CHILDREN WITH CI  
L. Asker-Árnason, T. Ibertsson, M. Vass, B. Sahlen
## Time-Ordered Agenda

### Poster Displays I with Authors (cont)

### Outcomes—Psychosocial

| #074P | SOCIAL COMPETENCE AND LANGUAGE DEVELOPMENT IN HEARING-IMPAIRED PRESCHOOLERS |
|       | C. Kinnamon, A. Quittner, L. Eisenberg, E. Tobey, N. Fink, J. Niparko, CDaCI Investigative Team |

| #075P | PRECOCHLEAR IMPLANT SOCIAL CONCERNS AND AUDITORY SKILL OUTCOMES IN YOUNG CHILDREN WITH COCHLEAR IMPLANTS |
|       | J. Meinzen-Derr, S. Buyniski, S. Wiley, D. Choo |

| #076P | PSYCHOSOCIAL AND PSYCHIATRIC ASSESSMENTS PRE AND POST IMPLANTATION FOR CHILDREN WITH COCHLEAR IMPLANTS |
|       | M. Lollar, S. Sexson |

| #077P | CHILD BEHAVIOR PROBLEMS IN DEAF AND HEARING TODDLERS AT 6 AND 12 MONTHS POST IMPLANTATION |
|       | L. McDonald, D. Barker, I. Cruz, A. Quittner, CDaCI Investigative Team |

| #078P | EXPLORING EXPECTATIONS AND PSYCHOLOGICAL DISTRESS IN PARENTS OF CHILDREN WITH A COCHLEAR IMPLANT: A PILOT STUDY |
|       | M. Suarez, M.C. Rodriguez |

| #079P | PSYCHOSOCIAL IMPLICATIONS OF COCHLEAR IMPLANTATION IN CHILDREN USING MANUAL COMMUNICATION |

| #080P | HEALTH-RELATED QUALITY OF LIFE IN ADOLESCENT COCHLEAR IMPLANT USERS |
|       | B. Loy, A. Warner-Czyz, E. Tobey, P. Roland |

### Outcomes—Speech and Oral Motor

| #081P | ORAL MOTOR DYSFUNCTION IN CHILDREN WITH COCHLEAR IMPLANTS |
|       | J. Fainberg, S. Wexler |

| #082P | POSTALVEOLAR VARIATION IN CHILDREN WHO USE COCHLEAR IMPLANTS |
|       | A.K. Kirk, S.B. Chin |

| #083P | IDENTIFYING MOTOR SPEECH DISORDERS IN DEAF CHILDREN WITH COCHLEAR IMPLANTS |
|       | D. Williams-King |

| #084P | INDIVIDUAL PATTERNS IN VOCALIZATIONS BY YOUNG COCHLEAR IMPLANT RECIPIENTS: VOCALIZATION TYPES, SEGMENTAL PATTERNS, AND COMBINATORY PROPERTIES |
|       | H. Morrison, B. Davis, A. Warner-Czyz |

| #085P | AFFRICATES AND AFFRICATION IN CHILDREN WITH COCHLEAR IMPLANTS |

| #086P | PHONETIC PATTERNS OF SPEECH IN CHILDREN WITH COCHLEAR IMPLANTS |
|       | M. Sundararajan, E. Tobey, A. Geers |

| #087P | CONSONANT AND VOWEL ACCURACY IN COCHLEAR IMPLANTED CHILDREN |
|       | N. Wiessner, J. Lane, J. Sullivan, E. Tobey, A. Geers |

| #088P | AN ANALYSIS OF PHONOLOGICAL PROCESS USE IN YOUNG CHILDREN WITH COCHLEAR IMPLANTS |
|       | H. Buhler, B. DeThomasis, A. DeCora, P.M. Chute |

| #089P | PHONETIC TRANSCRIPTIONS OF CHILDREN WITH COCHLEAR IMPLANTS |
|       | A.P. Teoh, S.B. Chin |

| #090P | PEDIATRIC SPEECH INTELLIGIBILITY TEST: COMPARISON OF TWO RECORDINGS |
|       | L.J. Visser-Dumont, A.S. Martinez, K.C. Johnson, L.S. Eisenberg |

| #091P | SPEECH INTELLIGIBILITY IN YOUNG COCHLEAR IMPLANT RECIPIENTS: GAINS AND RELATIONSHIPS WITH PHONOLOGICAL MEASURES |
|       | D. Ertmer |
**Poster Displays I with Authors (cont)**

#092P  SPEECH INTELLIGIBILITY AND SENTENCE DURATION AS A FUNCTION OF MODE OF COMMUNICATION IN COCHLEAR IMPLANTED CHILDREN  
N. Wiessner, E. Tobey, A. Geers,

#093P  PRELINGUISTIC DEAFNESS: THE ROLE OF COCHLEAR IMPLANTATION IN PROMOTING SPEECH  
R. Abraham MD, J. Mouzakes MD, L. Artino AuD

2:30–6:00 pm  Open Viewing of Poster Displays

**Concurrent Oral Sessions**

**SESSION A**  
Grand C

**Assessment and Candidacy**

*Session Chair: S. Waltzman*

2:30–2:38 pm  ACCURACY OF AUDIOMETRIC THRESHOLDS IN HEARING-IMPAIRED CHILDREN  
K. Gordon, M. Pienkowski

2:39–2:47 pm  DEVELOPING A SPEECH PERCEPTION TEST PROTOCOL FOR YOUNG CHILDREN  
J. Madell

2:48–2:56 pm  THE ADOLESCENT COCHLEAR IMPLANT CANDIDATE: A GROUP IN TRANSITION  
J. Green, W. Shapiro, N. Cohen, S. Waltzman

2:57–3:05 pm  IMPACT OF RESIDUAL HEARING ON PEDIATRIC COCHLEAR IMPLANT PERFORMANCE  
A. Biever, D. Keisall

3:06–3:14 pm  PERFORMANCE OUTCOMES FOR BORDERLINE COCHLEAR IMPLANT CANDIDATES  
M. Hughes, D. Neff, J. Simmons

3:15–3:23 pm  Questions and Answers

**Obj Measures—Assumptions, Interpretation, and Mapping Parameters I**

*Session Chair: K. Gordon*

3:24–3:32 pm  EFFECT OF ANESTHESIA ON ELECTRICALLY EVOKED AUDITORY RESPONSES IN PEDIATRIC COCHLEAR IMPLANT USERS  

3:33–3:41 pm  COMPARISON OF INTRAOPERATIVE AND POSTOPERATIVE NEURAL RESPONSES USING ADVANCED BIONICS AND COCHLEAR CORPORATION COHLEAR IMPLANT SYSTEMS  
E. Jameyson, D. Plapinger, J. Hagan, S. McMenomey

3:42–3:50 pm  UNRAVELING THE NEURAL RESPONSE RECORDINGS FROM COCHLEAR IMPLANTS  
J. Frijns, D. Bekker, J. Briaire

3:51–3:59 pm  CORRELATION OF NEURAL RESPONSE IMAGING THRESHOLDS (NRT) AND ELECTRICALLY EVOKED STAPEDIAL REFLEX THRESHOLDS (ESRT) WITH PSYCHOPHYSICAL MEASURES OF LOUDNESS: IMPLICATIONS FOR PROGRAMMING THE ADVANCED BIONICS COCHLEAR IMPLANT SYSTEM  
S. Poissant, E. Bero, D. Lee

3:59–4:00 pm  Questions and Answers

4:00–4:20 pm  Refreshment Break in Providence II & III
**Time-Ordered Agenda**

**Objective Measures—Mapping Parameters II**

**Session Chair: S. Payne**

- **4:20–4:28 pm**
  - #103 COCHLEAR IMPLANT FITTING USING MIDDLE LATENCY AUDITORY EVOKED POTENTIALS
    - N. Castaneda-Villa, J.M. Cornejo, P. Granados, C. Tirado

- **4:29–4:37 pm**
  - #104 OBJECTIVE STIMULATION ELECTRIC CURRENT DYNAMIC RANGE SETTING FOR A CI
    - J.M. Cornejo, P. Granados, N. Castañeda, C. Tirado

- **4:38–4:46 pm**
  - #105 COMPARISON OF T AND C LEVELS USING SIX PROGRAMMING STRATEGIES: IMPLICATIONS FOR PROGRAMMING YOUNG CHILDREN
    - D. Plapinger, J. Magro, B. Wilkins, S. McMenomey

- **4:47–4:55 pm**
  - #106 COMPARISON OF VARIOUS PROGRAMMING METHODOLOGIES FOR THE NUCLEUS FREEDOM
    - J. King, S. Dolan-Ash, S. Payne, T. Meyer

- **4:55–5:00 pm**
  - Questions and Answers

**Processor Mapping**

**Session Chair: T. Zwolan**

- **5:00–5:08 pm**
  - #107 PARAMETER REDUCTION FOR PEDIATRIC FITTING
    - J. Briaire, J. Frijns

- **5:09–5:17 pm**
  - #108 FACTORS INFLUENCING ELECTRICAL CHARGE REQUIREMENTS OF PEDIATRIC COCHLEAR IMPLANT USERS
    - T.A. Zwolan, M.B. Sullivan, J.K. Niparko, CDaCI Investigative Team

- **5:18–5:26 pm**
  - #109 DECREASES IN NUCLEUS CI24 PATIENT PERFORMANCE ASSOCIATED WITH INCREASES IN MP1 IMPEDANCE
    - S. Norton

- **5:27–5:35 pm**
  - #110 THE EFFECT OF INSTANTANEOUS INPUT DYNAMIC RANGE SETTING ON THE SPEECH PERCEPTION OF CHILDREN WITH THE NUCLEUS 24 IMPLANT
    - L. Davidson, B. Fears, B. Holstad, M. Richter, M. Matusofsky, M. Skinner, C. Brenner, A. Birath, J. Kettel

- **5:36–5:44 pm**
  - #111 THE INFLUENCE OF THE IIDR IN PEDIATRIC COCHLEAR IMPLANT RECIPIENTS
    - K. Veekmans, K. Hawker, M. Daft, S. Johnson, T. Twomey

- **5:45–5:53 pm**
  - #112 EVALUATING FM GAIN SETTINGS IN ADULTS AND CHILDREN
    - J. Wolfe

- **5:54–6:00 pm**
  - Questions and Answers

**SESSION B**

**Grand D**

**Outcomes—Speech and Oral Motor**

**Session Chair: H. Eskridge, R. Tonini**

- **2:30–2:38 pm**
  - #113 INVESTIGATING THE RELATIONSHIP BETWEEN BABBLING COMPLEXITY AND LATER SPEECH AND LANGUAGE OUTCOMES IN CHILDREN WITH COCHLEAR IMPLANTS
    - E. Walker, S. Bass-Ringdahl

- **2:39–2:47 pm**
  - #114 VOWEL SPACE IN CHILDREN WITH COCHLEAR IMPLANTS
    - R. Tonini, J. Rasmus, J. Oghalai

- **2:48–2:56 pm**
  - #115 COMPARISON OF SPEECH PRODUCTION DEVELOPMENT BETWEEN CHILDREN WITH COCHLEAR IMPLANTS AND NORMAL HEARING PEERS
    - H. Eskridge, C. Brown, L. Henderson, H. Teagle, C. Buchman, H. Pillsbury, CDaCI Investigative Team
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>2:57–3:05 pm</td>
<td>#116</td>
<td>DEVELOPMENT OF PHONOLOGICAL SKILLS AND WORKING MEMORY CAPACITY IN</td>
<td>B. Lyxell, M. Wass, T. Ibertsson,</td>
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<td>CHILDREN WITH COCHLEAR IMPLANTS: SPEED OF PERFORMANCE AND LEVEL OF</td>
<td>M. Hallgren, B. Larsby, E. Mäki-Torkko</td>
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<td>ACCURACY AS INDICATORS OF DEVELOPMENT</td>
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<tr>
<td>3:06–3:14 pm</td>
<td>#117</td>
<td>FACTORS ASSOCIATED WITH SPEECH AND LANGUAGE OUTCOME FOR CHILDREN WITH</td>
<td>L.M. Percy-Smith</td>
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<td>COCHLEAR IMPLANTS IN DENMARK</td>
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<tr>
<td>3:15–3:23 pm</td>
<td>#118</td>
<td>VOICE IDENTIFICATION BY HEARING CHILDREN AND CHILDREN WITH COCHLEAR</td>
<td>T. Vongpaisal, S. Trehub, G.</td>
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<td>IMPLANTS</td>
<td>Schellenberg, B. Papsin</td>
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<td>3:23–3:30 pm</td>
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<td>Questions and Answers</td>
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<td></td>
<td><strong>Outcomes—Literacy</strong></td>
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<td><strong>Session Chair: H. Eskridge, R. Tonini</strong></td>
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<td>3:30–3:38 pm</td>
<td>#119</td>
<td>A COMPARISON OF READING COMPREHENSION LEVELS OF 15 TURKISH PEDIATRIC</td>
<td>J. Kosaner, U. Girgin, D. Uruk, M.</td>
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<td>CI USERS WITH 15 TURKISH HEARING PEERS</td>
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<td>3:39–3:47 pm</td>
<td>#120</td>
<td>MASTERY OF EMERGENT READING SKILLS IN CHILDREN WHO UNDERGO COCHLEAR</td>
<td>D. Bervinchak, K. Ceh, J. Gross,</td>
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<td>IMPLANTATION PRIOR TO 24 MONTHS OF AGE</td>
<td>S. Bowditch, H. Francis</td>
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<tr>
<td>3:48–3:56 pm</td>
<td>#121</td>
<td>LANGUAGE - READING CONNECTION: SUPPORTING EMERGENT LITERACY SKILLS IN</td>
<td>J. DesJardin</td>
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<td>YOUNG DEAF CHILDREN WITH COCHLEAR IMPLANTS</td>
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<td>3:56–4:00 pm</td>
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<td>Questions and Answers</td>
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<td>4:00–4:20 pm</td>
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<td><strong>Break in Providence II &amp; III</strong></td>
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<td><strong>Outcomes—Language</strong></td>
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<td><strong>Session Chair: J. Moog</strong></td>
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<td>4:20–4:28 pm</td>
<td>#122</td>
<td>EXPLORING EXPRESSIVE AND RECEPTIVE LANGUAGE PATTERNS IN CHILDREN WITH</td>
<td>B.A. Barker, E.A. Walker</td>
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<td>COCHLEAR IMPLANTS</td>
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<td>4:29–4:37 pm</td>
<td>#123</td>
<td>AGE AT IMPLANTATION: OUTCOMES FOR CHILDREN IMPLANTED BY 12 MONTHS VERSUS</td>
<td>D. Hammes, M. Willis, J. Thomas,</td>
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<td></td>
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<td>THOSE IMPLANTED AT 13 to 18 MONTHS</td>
<td>L. Rotz</td>
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<tr>
<td>4:38–4:46 pm</td>
<td>#124</td>
<td>BILATERAL COCHLEAR IMPLANTATION IN DEAF CHILDREN FROM FIVE TO EIGHTEEN</td>
<td>O. Wie</td>
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<td>MONTHS: EFFECT ON SPOKEN LANGUAGE SKILLS</td>
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<tr>
<td>4:47–4:55 pm</td>
<td>#125</td>
<td>3 SPECIAL CASE REPORTS ON CI USE</td>
<td>E. Ungui</td>
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<tr>
<td>4:56–5:04 pm</td>
<td>#126</td>
<td>LONGITUDINAL CHANGES IN MOTHERS’ SPEECH TO HEARING-IMPAIRED INFANTS</td>
<td>T. Bergeson, R. Manley, M. Fagan</td>
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<td>WITH COCHLEAR IMPLANTS</td>
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<td>5:05–5:10 pm</td>
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<td>Questions and Answers</td>
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<td></td>
<td><strong>Outcomes—Psychosocial</strong></td>
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<td><strong>Session Chair: A. Quittner</strong></td>
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<td>5:10–5:18 pm</td>
<td>#127</td>
<td>SELF-ESTEEM AND EMOTIONAL ADJUSTMENT IN CHILDREN WITH COCHLEAR IMPLANTS</td>
<td>E. Schorr, N. Fox, E. Roth</td>
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<tr>
<td>5:19–5:27 pm</td>
<td>#128</td>
<td>SOCIAL WELL-BEING OF DANISH CHILDREN WITH COCHLEAR IMPLANT COMPARED</td>
<td>L.M. Percy-Smith</td>
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<td>WITH NORMALLY HEARING CHILDREN</td>
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</table>
Time-Ordered Agenda

5:28–5:36 pm
#129
SOCIALIZATION OF CI CHILDREN OVER THE PAST 10 YEARS: EXPECTATION REACHED?
A. Lesinski-Schiedat, P. Chute, T. Lenarz, M. Lesinski

5:37–5:45 pm
#130
IMPACT OF PSYCHOLOGICAL AND COMMUNICATION FACTORS ON ADJUSTMENT TO UNILATERAL OR SEQUENTIAL BILATERAL COCHLEAR IMPLANTS IN LATE-IMPLANTED CHILDREN AND ADOLESCENTS

5:46–5:54 pm
#131
SCIENCE, SOUNDS AND SENSATIONS
E. Beadle

5:55–6:00 pm
Questions and Answers

SESSION C
Grand A & B

Medical Considerations
Session Chair: D. Haynes, A. Sismanis

2:30–2:38 pm
#132
DEViating COURSES AFTER COCHLEAR IMPLANTATION
L.V. Johansen, T. Ovesen

2:39–2:47 pm
#133
COCHLEAR IMPLANTATION IN CHILDREN WITH OTITIS MEDIA: THIRD STAGE OF A LONG-TERM PROSPECTIVE STUDY
M. Luntz, J. Khalaila, T. Shpak,

2:48–2:56 pm
#134
COCHLEAR IMPLANTATION IN MENINGITIC HEARING LOSS: THE YORKSHIRE EXPERIENCE
Y. Bajaj, D.R. Strachan, C. Totten, J. Martin, C.H. Raine

2:57–3:05 pm
#135
CURRENT TECHNIQUES IN MANAGEMENT OF POSTMENINGITIC DEAFNESS
N. Young

3:06–3:14 pm
#136
AUDITORY PERFORMANCE OF PEDIATRIC COCHLEAR IMPLANT IN DIFFERENT INNER EAR ANOMALIES

3:15–3:23 pm
#137
COCHLEAR IMPLANTATION IN CHILDREN WITH JERVELL AND LANGE-NIELSEN SYNDROME
G. Siem, A. Früh, T. Leren, K. Heimdal, E. Teig, S. Harris

3:24–3:32 pm
#138
MRI SAFETY OF THE MED-EL COCHLEAR IMPLANTS AT 3.0 TESLA
O. Majdani, A. Samii, T. Rau, A. Lesinski-Schiedat, M. Zimmerling, T. Lenarz, M. Leinung, A. Akbarian

3:33–3:41 pm
Questions and Answers

Outcomes—Hearing and Speech Perception I
Session Chair: D. Haynes, A. Sismanis

3:42–3:50 pm
#139
THE AUDIOVISUAL LEXICAL NEIGHBORHOOD SENTENCE TEST: TEST DEVELOPMENT AND PRELIMINARY RESULTS FROM PEDIATRIC COCHLEAR IMPLANT RECIPIENTS
R. Holt, K. Kirk, S. Howell

3:51–3:59 pm
#140
TRACKING DEVELOPMENT OF SPEECH RECOGNITION: LONGITUDINAL DATA FROM HIERARCHICAL ASSESSMENTS IN THE CHILDHOOD DEVELOPMENT AFTER COCHLEAR IMPLANTATION (CDaCI) STUDY
N.Y. Wang, L.S. Eisenberg, K.C. Johnson, N.E. Fink, E.A. Tobey, A.L. Quittner, J.K. Niparko, the CDaCI Investigative Team

3:59–4:00 pm
Questions and Answers

4:00–4:20 pm
Refreshment Break in Providence II & III
### Outcomes—Hearing and Speech Perception II

**Session Chair: O. Adunka**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>4:20–4:28 pm</td>
<td>A LONGITUDINAL STUDY OF SPEECH PERCEPTION EXPRESSED IN AN EQUIVALENT HEARING LOSS VALUE IN CHILDREN WITH A COCHLEAR IMPLANT</td>
<td>L. Rotteveel, A. Snik, A. Vermeulen, E. Mylanus</td>
</tr>
<tr>
<td>4:38–4:46 pm</td>
<td>MANAGEMENT OF AND RESULTS WITH THE NUCLEUS FREEDOM COCHLEAR IMPLANT IN PEDIATRIC PATIENTS</td>
<td>C. Stach, T. Zwolan, M. O’Sullivan</td>
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</tbody>
</table>

**4:55–5:00 pm** Questions and Answers

### Electroacoustic Stimulation

**Session Chair: B. Gantz**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
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<tbody>
<tr>
<td>5:00–5:08 pm</td>
<td>COCHLEAR IMPLANTATION IN PATIENTS WITH SIGNIFICANT RESIDUAL HEARING</td>
<td>H. Pillsbury, R. Cullen, E. Buss, M. Clark, C. Buchman</td>
</tr>
<tr>
<td>5:18–5:26 pm</td>
<td>PARTIAL DEAFNESS COCHLEAR IMPLANTATION (PDCI) IN CHILDREN WITH ELECTRIC AND ACOUSTIC STIMULATION (EAS) APPLICATION</td>
<td>H. Skarzynski, A. Lorens, A. Piotrowska</td>
</tr>
<tr>
<td>5:27–5:35 pm</td>
<td>EXPANSION OF HYBRID COCHLEAR IMPLANTS TO CHILDREN WITH HIGH FREQUENCY HEARING LOSS</td>
<td>B. Gantz, L. Reiss, C. Turner, K. Gfeller</td>
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<tr>
<td>5:36–5:44 pm</td>
<td>AUDITORY NEURONAL RESPONSES TO COMBINED ELECTRIC AND ACOUSTIC STIMULATION OF THE HEARING COCHLEA</td>
<td>M. Vollmer, B.H. Bonham, J. Tillein</td>
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<tr>
<td>5:45–5:53 pm</td>
<td>MONITORING OF COCHLEAR FUNCTION DURING COCHLEAR IMPLANTATION</td>
<td>O. Adunka, P. Roush, E. Buss, J. Grose, C. Macperson, C. Buchman</td>
</tr>
<tr>
<td>5:54–6:00 pm</td>
<td>Questions and Answers</td>
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</tr>
</tbody>
</table>
FRIDAY, APRIL 13, 2007

7:00–8:00 am  Continental Breakfast in Providence II & III

General Session III  Auditory Nerve Assessment and Disorders

Grand Ballroom (Level Two)

Guest of Honor and Invited Speakers

8:00–8:05 am  OVERVIEW
Course Co-Director C. Buchman

8:05–8:20 am  OBJECTIVE AND BEHAVIORAL MEASURES IN COCHLEAR IMPLANT FITTING IN YOUNG CHILDREN; CONSIDERATIONS, CHALLENGES AND OPPORTUNITIES
Guest of Honor presentation by M. Skinner

8:25–8:40 am  PERCEPTUAL AUDITORY ABILITIES OF CHILDREN WITH AUDITORY NEUROPATHY
F.G. Zeng

8:45–9:00 am  SPEECH AND LANGUAGE DEVELOPMENT IN CHILDREN WITH AN/AD TYPE HEARING LOSS
G. Rance

9:05–9:20 am  MECHANISMS OF AUDITORY NEUROPATHY
S. Shapiro

9:25–9:40 am  COCHLEAR NERVE DEFICIENCY IN CHILDREN
C. Buchman

9:45–10:00 am  Refreshment Break

General Session IV  Auditory Nerve Assessment and Disorders

Grand Ballroom (Level Two)

Scientific Paper Presentations
Session Chair: H. Teagle, P. Wackym

10:00–10:08 am  AUDITORY NERVE GROWTH FACTORS DERIVED FROM THE EARLY EMBRYONIC INNER EAR
J.A. Germiller, H. Nardone, K. Challagulla, A. Vu, L. Bianchi, K. Barald

10:09–10:17 am  THE UTILITY OF ELECTRICAL ABR TESTING
G. Hashisaki, B. Kesser, A. Gardner, A. DeMichele, L. Grove, L. Bobsin, R. Ruth

10:18–10:26 am  FMRI OF AUDITORY FUNCTION IN CHARGE SYNDROME PRIOR TO COCHLEAR IMPLANTATION
L. Cahill, D. Mehta, M. Mecoli, D. Choo, S. Holland

10:27–10:35 am  INTRACOCHLEAR ECAP TESTING IN CHILDREN WITH AUDITORY NEUROPATHY
J. Weinstock, H. Teagle, C. Buchman, C. Zdanski

10:36–10:44 am  AUDITORY-EVOKED POTENTIALS IN RESPONSE TO TEMPORAL CHANGES
C. Etter, C. Brown, P. Abbas, S. Erenberg, S. He, S. O’Brien

10:45–10:53 am  QUANTITATIVE ANALYSES OF ELECTRICALLY EVOKED AUDITORY BRAINSTEM RESPONSES IN IMPLANTED CHILDREN WITH AUDITORY NEUROPATHY/DYS-SYNCHRONY
S. Drake, C. Runge-Samuelson, P.A. Wackym

10:54–11:02 am  CORTICAL EVOKED AUDITORY POTENTIALS IN COCHLEAR IMPLANTED CHILDREN WITH AUDITORY DYS-SYNCHRONY
A. Ciprut, F. Akdas

11:02–11:10 am  Questions and Answers
Scientific Paper Presentations (cont)

Session Chairs: H. Francis, G. Rance

11:10–11:18 am AUDITORY DYS-SYNCHRONY OF INFANCY: BEST PRACTICES FOR COCHLEAR IMPLANT CONSIDERATION
#163
M. Neault, J. Johnston, K. Stevens, K. West, M. Kenna

11:19–11:27 am SPEECH PERCEPTION PERFORMANCE IN NOISE BY IMPLANTED CHILDREN WITH AUDITORY NEUROPATHY/DYS-SYNCHRONY
#164
C. Runge-Samuelson, J. Jensen, S. Drake, K. Balko, P.A. Wackym

11:28–11:36 am SPEECH PERCEPTION IN CHILDREN WITH AUDITORY NEUROPATHY/DYS-SYNCHRONY TYPE HEARING LOSS: A COMPARISON OF PERFORMANCE LEVELS FOR SUBJECTS USING COCHLEAR IMPLANTS AND HEARING AIDS
#165
G. Rance, E. Barker, E. Fay

11:37–11:45 am MEDICAL / AUDIOLOGICAL PROFILES AND CI OUTCOMES FOR CHILDREN WITH AUDITORY NEUROPATHY
#166
C. Zdanski, H. Teagle, P. Roush, A. Cleland, C. Buchman, C. Brown

11:46–11:54 am EVALUATING CHILDREN WITH AUDITORY BRAINSTEM IMPLANTS: A TWIN CASE STUDY
#167
L. Eisenberg, K. Johnson, A. Martinez, J. DesJardin, C. Stika, D. Dzubak, M. Mahalak, E. Rector

11:54 am–12:00 noon Questions and Answers

12:00 noon–1:00 pm Lunch in Providence II & III (Lobby Level)

Poster Display II with Authors

1:00–2:30 pm Providence I & Providence Promenade (Lobby Level)

Assistive Devices—FM

#168P A META-ANALYSIS OF PERFORMANCE WITH FM SYSTEMS AND COCHLEAR IMPLANTS
E.C. Schafer, M.P. Kleineck

#169P AUDITORY ACCESS FOR INFANTS/TODDLERS UTILIZING PFM TECHNOLOGY
J. Sexton, J. Madell

#170P ICONNECT/FM SYSTEM BENEFITS IN CHILDREN
A. Hedley Williams

#171P SPEECH RECOGNITION TIME FOR CHILDREN WITH COCHLEAR IMPLANTS IN QUIET AND NOISE USING PERSONAL FM SYSTEMS
L.C. Brewster, J. Gauvreau, A.M. Gorenko

#172P BENEFITS OF REMOTE MICROPHONE TECHNOLOGY: LEARNING FROM ADULTS WITH COCHLEAR IMPLANTS
C. Seguin, E. Fitzpatrick, D. Schramm, S. Armstrong, J. Chenier

#173P VIBRANT SOUNDBRIDGE CLINICAL INVESTIGATIONS: EXPANDING INDICATIONS FOR USE
J. Opie, G. Ball, M. Huetter, P. Grasso, S. Labassi, N. Giarbini, P. Lampacher

#174P VIBRANT SOUNDBRIDGE—CLINICAL EXPERIENCES
M. Huetter, J. Opie, G. Ball, P. Grasso, P. Lampacher

#175P IMPLEMENTATION OF THE ACTIVE MIDDLE EAR IMPLANT VIBRANT SOUNDBRIDGE® IN THE TOTAL AURICULAR
H. Frenzel, B. Wollenberg

#176P DIRECT DRIVE IMPLANTS AND CHILDREN
G. Ball

#177P A STUDY OF THE BIOMECHANICAL COUPLING OF DIRECT DRIVE IMPLANTS
G. Ball

#178P SIGNAL ANALYSIS OF A DIRECT DRIVE IMPLANT
G. Ball
**Auditory Neuropathy**

#179P  PREOPERATIVE ASSESSMENT WITH PET IN AUDITORY NEUROPATHY  
M.V. Mortensen, S. Madsen, R. Wetke, A. Gjedde

#180P  AUDITORY NEUROPATHY AND DOWN’S SYNDROME  
R. Wetke, R. Hansen

#181P  THE USE OF DIAGNOSTIC EABR IN THE CASE OF A CHILD WITH A LACK OF AUDITORY AWARENESS  
A. Gardner, G. Hashisaki, A. De Michele, R. Ruth

#182P  A METHOD OF OBJECTIVE HEARING NERVE FUNCTION EVALUATION: EXTRACOCHLEAR ELECTROAUDIOMETRIC BRAINSTEM AUDITORY-EVOKED POTENTIALS  
V. Primako

#183P  SCANNING LASER DOPPLER VIBROMETRY ROUND WINDOW AND TYMPANIC MEMBRANE  
G. Ball, A. Haber, R. Goode

#184P  NEURAL RESPONSES TO AMPLITUDE MODULATION AND INTENSITY EFFECTS USING BINAURALY MISMATCHED CARRIER FREQUENCIES  
D. Blanks, D. Fitzpatrick, E. Buss, J. Hall

#185P  PHYSIOLOGICAL RESPONSES TO ELECTRICAL STIMULATION OF THE INFERIOR COLLICULUS IN UNANESTHETIZED RABBITS  
D. Fitzpatrick, C. Finley, M. Ingraham, J. Roberts, O. Adanka, H. Pillsbury

#186P  BEHAVIORAL RESPONSES TO ELECTRICAL STIMULATION OF THE INFERIOR COLLICULUS IN RABBITS  
D. Fitzpatrick, C. Finley, M. Ingraham, J. Roberts, H. Pillsbury

**Bilateral Stimulation—CI-CI**

#187P  META-ANALYSIS OF BINAURAL BENEFITS FROM BILATERAL COCHLEAR IMPLANTS AND BIMODAL STIMULATION  
E.C. Schafer, A.M. Amlani, A. Seibold, P.L. Shattuck

#188P  PREIMPLANT RATING SCALE FOR PREDICTION OF OUTCOME WITH SEQUENTIAL BILATERAL COCHLEAR IMPLANTATION (CI) IN CHILDREN  
M. Neault, B. Kammerer, T. Clark, L. O’Brien, M. Kenna, G. Licameli

#189P  SEQUENTIAL BILATERAL COCHLEAR IMPLANTATION IN CHILDREN: A CASE STUDY  
L. Shaw-Pickard, D. Schramm

#190P  EMERGENCE OF BILATERAL ABILITIES IN CHILDREN WHO TRANSITION FROM USING ONE TO TWO COCHLEAR IMPLANTS  
S. Godar, T. Grieco, R. Litovsky

#191P  BILATERAL BENEFIT IN TWINS IMPLANTED SIMULTANEOUSLY WITH TWO DEVICES BEFORE 12 MONTHS OF AGE  

#192P  LOCALIZATION AND 3-D SPEECH PERCEPTION WITH THE FSP STRATEGY  
P. Schleich, P. Nopp, C. Zierhofer

#193P  SOUND LOCALIZATION FOR CHILDREN WITH BILATERAL COCHLEAR IMPLANTS?  
G. Eskilsson, F. Asp, M. Eklof, E. Kindlund

#194P  DEVELOPMENT OF LOCALIZATION ABILITIES IN BILATERALLY IMPLANTED CHILDREN  
P. Schleich, P. Nopp, I. Anderson

#195P  NOTETAKING ABILITIES OF ADULTS USING UNILATERAL AND BILATERAL COCHLEAR IMPLANTS  
P.M. Chute, L. Spivak, M.E. Nevins, S. Gershovich

#196P  A NORMAL-HEARING SIMULATION OF BILATERAL COCHLEAR IMPLANT STIMULATION  
D. Blanks, D. Fitzpatrick, J. Hall, E. Buss
Poster Display II with Authors (cont)

Bimodal Stimulation—CI-Acoustic

#197P FITTING PROCEDURES AND CLINICAL EVALUATION OF BI-MODAL FITTINGS (CI + HA) IN THE PEDIATRIC POPULATION
L. Davidson, M. Matusofsky, M. Richter, J. Kettel

#198P SHORT-TERM CONTRALATERAL HEARING AID USE IN PEDIATRIC COCHLEAR IMPLANT USERS
K. Skabisz, B. Seal

#199P BIMODAL BENEFITS IN ADULTS AND CHILDREN WITH A COCHLEAR IMPLANT (CI) AND A SUPER POWER HEARING AID (HA) ON THE CONTRALATERAL SIDE
P. Kuss, M. Kolbitsch, M. Roslyng-Jensen

#200P EDUCATIONAL CONSEQUENCES OF BIMODAL STIMULATION
M. Zgoda, A. Lorens, A. Wisowski, A. Obrycka, H. Skarzynski

Cochlear Implantation in Children with Multiple Handicaps

#201P RESULTS OF COCHLEAR IMPLANT IN CHILDREN WITH ADDED HANDICAP
S. Breuning, L. Cordero, J. Moretti

#202P COCHLEAR IMPLANTS IN CHILDREN WITH ADDITIONAL NEEDS OR DEAFBLINDNESS
L.J. Eilertsen, A.B. Borud

#203P HOW DO MULTIPLE HANDICAPPED CHILDREN USE THEIR VOICE IN COMMUNICATIVE SITUATIONS?
L.J. Eilertsen, A.B. Borud

#204P DOING CONVERSATIONAL ANALYSIS ON CHILDREN WITH ADDITIONAL NEEDS OR DEAFBLINDNESS
L.J. Eilertsen, A.B. Borud

#205P DEVELOPMENT OF JOINT ATTENTION FOLLOWING COCHLEAR IMPLANTATION IN CHILDREN WITH ADDITIONAL DISABILITIES: TWO CASE STUDIES

#206P FUNCTIONAL OUTCOMES IN MEDICALLY COMPLEX CHILDREN WHO RECEIVE COCHLEAR IMPLANTS (CI)
T. Clark, J. Johnston, K. Stevens, L. O’Brien, M. Neault, B. Kammerer

#207P PARENTAL PERSPECTIVE OF OUTCOME IN CHILDREN WITH COMPLEX DISABILITIES

Fiscal and Professional Considerations

#208P CURRENT TRENDS IN PEDIATRIC CI PROGRAMMING IN THE U.S.
A.H. Zarkos, S.D. Watson, D.D. Backous,

#209P COCHLEAR IMPLANT TRAINING FOR SPEECH-LANGUAGE PATHOLOGISTS
M. Therres, J. Murdock

#210P EARLY INTERVENTION PROFESSIONALS’ KNOWLEDGE NEEDS ON COCHLEAR IMPLANTATION
D. Sorkin

Habilitation

#211P OUTCOMES AND DEVELOPMENTAL TRAJECTORIES OF PRESCHOOL CHILDREN ENROLLED IN AUDITORY-VERBAL THERAPY

#212P REHABILITATION FOR CHILDREN WITH COCHLEAR IMPLANT IN AUDITORY WEEKS
S. van der Aa, P. Gulpen, J. Briaire, J. Frijns
Poster Display II with Authors (cont)

#213P SPEECH HABILITATION WITH ULTRASOUND FOR THREE ADOLESCENT COCHLEAR IMPLANT USERS  
P. Bacsfalvi

#214P MODEL FOR ADDRESSING ADJUSTMENT ISSUES IN A TEENAGER POST-BILATERAL COCHLEAR IMPLANTATION IN THE CONTEXT OF AURAL REHABILITATION BY A SPEECH-LANGUAGE PATHOLOGIST  
S. Dawson, T. Clark, K. Stevens, B. Kammerer

#215P LEARNING TO LISTEN WITH TWO EARS  
E. Ying

#216P PEDIATRIC BILATERAL COCHLEAR IMPLANTS: THE (RE)HABILITATIONIST’S PERSPECTIVE  
D. Goldberg, P. Weber, M. Scott

#217P Usher, Cochlear Implants, and You  
E. Beadle, D. Wilson, M. Kilsby, E. Hancock

#218P COCHLEAR IMPLANT FAMILY INTERVENTION IN A CLINICAL RESEARCH AND TRAINING PROGRAM  
C. Jacobson, B. Seal

#219P EXPECTATIONS FOR POSTCOCHLEAR IMPLANT AUDITORY SKILL DEVELOPMENT AS MEASURED BY THE AUDITORY SKILLS CHECKLIST  
J. Meinzen-Derr, D. Choo, S. Wiley

Objective Measures

#220P CLINICAL STUDY COMPARING THREE ARTIFACT CANCELLATION TECHNIQUES FOR OBTAINING ELECTRICAL COMPOUND ACTION POTENTIAL (ECAP) RESPONSES USING THE NUCLEUS FREEDOM SYSTEM  
J. Wolfe, J. Ballard

#221P EFFECTS OF NEAR-THRESHOLD CONDITIONER PULSES ON THE ECAP RESPONSE  

#222P RESULTS OF THE SMARTNRI STUDY  
B. Frachet, Y. Ormezzano, L. Arnold, P. Boyle

#223P HOW DO ELECTRICAL STAPEDIAL REFLEXES COMPARE WITH NEURAL RESPONSE THRESHOLDS?  
A. Mellish, D. Carvalho, M. Coll, S.J. Biard

Outcomes—Cognitive

#224P SYMBOLIC PLAY IN HEARING-IMPAIRED TODDLERS: RELATIONSHIPS TO COGNITIVE ABILITY AND LANGUAGE DEVELOPMENT  
C. Kinnamon, A. Quittner, M.B. Grimley, C. Bobb, J. Engelbreton, T. Martinez, C. Martin, CDaCI Investigative Team

#225P JOINT ATTENTION: TRAINING METHODS AND RELIABILITY  
L. McDonald, D. Barker, C. Bobb, R. Carlsen, A. Quittner, CDaCI Investigative Team

#226P SELECTIVE ATTENTION IN YOUNG DEAF AND HEARING CHILDREN  
M. Grimley, D. Barker, A. DeHart, A. Head, J. Wofsey, A. Greenberg, A. Quittner, CDaCI Investigative Team

Plasticity and Development

#227P SENSORY PROCESSING IN CHILDREN WITH COCHLEAR IMPLANTS  
S. Bharadwaj, L. Daniel, P. Matzke

#228P IS CROSS-MODAL PLASTICITY RELATED TO SPEECH PERCEPTION ABILITY WITH A COCHLEAR IMPLANT?  
K. Buckley, E. Tobey
**Time-Ordered Agenda**

**Poster Display II with Authors (cont)**

#229P THE IMPACT OF PRODUCTION SYSTEM, AUDITORY PERCEPTION, AND MATURATION ON EARLY SPEECH ACCURACY IN YOUNG COCHLEAR IMPLANT RECIPIENTS  
A. Warner-Czyz, B. Davis, P. MacNeilage, C. Matyear, J. Lane, N. Wiessner, E. Tobey

#230P DEVELOPMENTAL DELAYS AND COCHLEAR IMPLANT OUTCOMES  
S. Wiley, J. Meinzen-Derr, D. Choo

#231P EVOKED RECORDING POTENTIALS IN SEQUENTIALLY IMPLANTED CHILDREN  
A. Key, T. Bradham, S. Mathiesen, H. Porter

#232P PRELIMINARY RESULTS AFTER 100 SEQUENTIAL BILATERAL COCHLEAR IMPLANTATIONS IN CHILDREN  
M. Uggen, O.B. Wie, A. Olstorn, S. Harris

#233P EQUAL OR NOT: OUTCOMES FROM SEQUENTIAL BILATERAL COCHLEAR IMPLANT USERS  
A.B. Maxon, D. Brackett, J., Cox

#234P COCHLEAR IMPLANTATION IN OLDER CHILDREN’S NONAMPLIFIED EAR  
K. Roesch, N.M. Young, B. White, S. Yaras, S. Goldberg

#235P BRIEF SUSPENSION OF FIRST SIDE COCHLEAR IMPLANT AFTER SEQUENTIAL BILATERAL IMPLANTATION: SPEECH PERCEPTION RESULTS  
S. Payne, S. Dolan-Ash, S. Faylo, E. Pfisterer, L. Landy

**Psychophysics of CI Stimulation**

#236P COMPARISON OF PHYSIOLOGICAL AND PSYCHOPHYSICAL SINGLE-PULSE FORWARD MASKING IN COCHLEAR IMPLANTS  
M. Hughes, L. Stille

#237P DETECTION OF TONES IN REPRODUCIBLE NOISE WITH COCHLEAR IMPLANTS  
T. Meyer, J. King, E. Oliver, A. Hannan

#238P DISCRIMINATION OF MUSICAL PITCH BY COCHLEAR IMPLANT USERS  
R. Muhler, S. Haumann, M. Ziese, H. von Specht

**Reliability**

#239P ELECTRODE STABILITY IN 500 IMPLANTS—OCURRENCE AND DEVELOPMENT OF SHORT AND OPEN CIRCUITS  
M. Eklof, G. Eskilsson, F. Asp, M. Vainio

#240P LOSS OF STIMULATION FOLLOWING OTITIS MEDIA: CONTRASTING CASES  
M. Thorne, S. Telian, K. Franck, P. Kileny, T. Zwolan, J. Germiller

#241P FAILED COCHLEAR IMPLANT SECONDARY TO BONE OVERGROWTH  
L. Lustig, C. Polite, A. Scott

#242P A REPORT OF DEVICE COMPLICATIONS IN PEDIATRIC COCHLEAR IMPLANTATION  
G. Licameli, M. Neault, K. Stevens, M. Kenna

**Speech Processors—Design and Comparison**

#243P THE BENEFITS OF SMARTSOUND™ INPUT PROCESSING FOR COCHLEAR IMPLANT RECIPIENTS  
Y. Abrahams, E. Nel, C. Psarros, M. Law, W. Parkinson, A. Beiter

#244P FINE STRUCTURE PROCESSING IN COCHLEAR IMPLANTS: BENEFIT OF INEXPERIENCED CI-USERS  

#245P IMPROVED PERFORMANCE WITH COCHLEAR IMPLANTS THROUGH FINE STRUCTURE PROCESSING  
P. Nopp, P. Schleich, A. Möltner, C. Zierhofer
Poster Display II with Authors (cont)

#246P  FINE STRUCTURE PROCESSING IN COCHLEAR IMPLANTS: RESULTS FROM A PROSPECTIVE CLINICAL STUDY  
S. Brill, A. Möltner, W. Harnisch, J. Müller, R. Hagen

#247P  THE OPUS 2 BEHIND-THE-EAR SPEECH PROCESSOR IN CHILDREN  
P. Kuss, H. Bosetti

#248P  PROMISING SIGNAL PROCESSING AND STIMULATION STRATEGIES FOR THE NUCLEUS FREEDOM IMPLANT SYSTEM  
C. Bertrand

#249P  PITCH STEERING WITH THE NUCLEUS CONTOUR COCHLEAR IMPLANT  

#250P  MUSIC PERCEPTION IN COCHLEAR IMPLANT RECIPIENTS USING HIRES WITH VIRTUAL CHANNELS  
D. Ballantyne, P. Mancini, F. Orlandi, C. D’Elia, R. Filipo

#251P  PERCEPTION OF MUSIC WITH MODIFICATIONS TO ADRO  
P. Segel, J. Clarke

Surgical Considerations

#252P  PROSPECTIVE BENEFITS OF DEEP ELECTRODE INSERTION FOR CHILDREN WITH CI  
M. Waller, W. Baumgartner, J. Mueller

#253P  EVALUATION OF SURGERY AND FITTING IN ADULTS AND CHILDREN IMPLANTED WITH A SONATAT100 COCHLEAR IMPLANT  
J. Mueller, B. Godey, A. Freijd, S. Harris, C. Morera, W.D. Baumgartner, W. Mann, W. Gstöttner,  
St. Brill, R. Hagen

#254P  PEDIATRIC BILATERAL COCHLEAR IMPLANTS: THE SURGEON’S PERSPECTIVE  
P. Weber, D. Goldberg, M. Scott

#255P  IMAGING FOR COCHLEAR IMPLANT SURGERY  
N. Vaid, S. Vaid

#256P  IMPORTANCE OF ANATOMICAL VARIATIONS AND RELATIONS OF THE MIDDLE EAR FOR COCHLEAR IMPLANTATION  
D. Djeric

#257P  COCHLEAR IMPLANTATION VIA VESTIBULE: ANOMALIES ATTRIBUTABLE TO CHARGE SYNDROME  
N. Wendell Todd

#258P  OPEN POSTERIOR TYPANOTOMY IN REVISION SURGERY: A CASE REPORT  
A. Guneri, E.A. Guneri, G. Kirkim, B. Serbetcioglu

#259P  DETECTING FACIAL NERVE STIMULATION IN CHILDREN WITH COCHLEAR IMPLANTS: THE ROLE OF EVOKED FACIAL ELECTROMYOGRAPHY AND AUDITORY BRAINSTEM RECORDINGS  
S.L. Cushing, B.C. Papsin, K.A. Gordon

2:30–6:00 pm  Open Viewing of Poster Displays

Concurrent Oral Sessions

SESSION D  
Grand A & B

Speech Processing—Temporal Coding, Preprocessing, New Designs

Session Chair: R. Schatzer, B. Wilson

2:30–2:38 pm  A STRATEGY FOR ENCODING FINE TIME STRUCTURE: CONCEPT AND FIRST RESULTS  
#260  R. Schatzer, M. Kals, A. Krenmayr, C. Zierhofer
<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Authors</th>
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<tbody>
<tr>
<td>2:39–2:47 pm</td>
<td>OPUS1—AN EAR-LEVEL SPEECH PROCESSOR FOR TEMPORAL FINE STRUCTURE</td>
<td>C. Zierhofer</td>
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<td>2:50–2:58 pm</td>
<td>FIRST EXPERIENCE WITH FSP AND OPUS1 AND OPUS 2, AMONG PULSAR RECIPIENTS</td>
<td>F. Asp, M. Vainio, G. Eskilsson</td>
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<td>2:59–3:07 pm</td>
<td>SPEECH UNDERSTANDING OF CHILDREN AND ADULTS AT DIFFERENT SOUND PRESSURE LEVELS WITH TWO DIFFERENT COCHLEAR IMPLANT SYSTEMS</td>
<td>M. Kompis, C. Schmid, M. Vischer, R. Häusler</td>
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<td>3:10–3:18 pm</td>
<td>BENEFITS OF THE NUCLEUS BEAM ADAPTIVE TWO-MICROPHONE TECHNOLOGY IN UNDERSTANDING SPEECH IN NOISE</td>
<td>K. Rehwinkel, J. Carmody, J. Herzog, V. Sonneveldt</td>
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<td>4:00–4:20 pm</td>
<td>Refreshment Break in Providence II &amp; III</td>
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<td>4:20–4:28 pm</td>
<td>EVALUATION OF THE HARMONY-SOUNDPROCESSOR IN COMBINATION WITH THE HIRES120 SPEECH-CODING STRATEGY</td>
<td>M. Brendel, A. Buechner, B. Krueger, C. Frohne-Buechner, T. Lenarz</td>
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<td>4:29–4:37 pm</td>
<td>MUSICAL ATTITUDE OF IMPLANTED CHILDREN: SPEECH AND MUSICAL PERCEPTION RESULTS OF ONE YEAR FOLLOW-UP</td>
<td>E. Yucel, G. Sennaroglu, B. Budak, E. Belgyn</td>
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<td>4:38–4:46 pm</td>
<td>MUSIC PERCEPTION OF ADOLESCENT COCHLEAR IMPLANT USERS AS MEASURED IN THE MU.S.I.C. TEST</td>
<td>S.J. Brockmeier, K. Stroe, D. Diller, S. Hilbig</td>
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<td>4:47–5:00 pm</td>
<td>Questions and Answers</td>
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<td>5:00–5:08 pm</td>
<td>ELECTRICAL FREQUENCY-PLACE MAP IN SUBJECTS WITH NO OR MINOR HEARING LOSS</td>
<td>K. Vermeire, A. Nobbe, P. Schleitch, E. Aschbacher, M. Voormolen, P. Van de Heyning</td>
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<td>5:09–5:17 pm</td>
<td>THRESHOLDS IN PEDIATRIC COCHLEAR IMPLANT RECIPIENTS: MULTIPLE-ELECTRODE AND POSITION EFFECTS</td>
<td>D. Clutton, K. Gordon, L. Hood</td>
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<td>5:18–5:26 pm</td>
<td>THE EFFECT OF INTENSITY UPON PITCH PERCEPTION: MONO- VERSUS BIPOLAR STIMULATION</td>
<td>C. Arnoldner, J-S. Hamzavi, D. Riss, W. Gstoettner, W-D. Baumgartner</td>
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5:27–5:35 pm  NEURAL RESPONSE IMAGING, TEMPORAL INTEGRATION, AND LOUDNESS GROWTH IN HIRES 90K USERS
  J. Wolfe, J. Ballard, D. Spiekermann

5:36–5:44 pm  CHANNEL INDEPENDENCE IN CHILDREN WITH COCHLEAR IMPLANTS
  K. Franck, M. Eisem, J. Kopelowich

5:45–5:53 pm  COCHLEAR IMPLANT CHANNEL SEPARATION AND ITS INFLUENCE ON SPEECH PERCEPTION: IMPLICATIONS FOR A NEW ELECTRODE DESIGN
  J. Hamzavi, C. Arnolder, D. Riss, M. Brunner, W.D. Baumgartner

5:54–6:02 pm  THE ROLE OF ENERGETIC AND INFORMATIONAL MASKING IN SPEECH UNDERSTANDING IN PEDIATRIC COCHLEAR IMPLANT RECIPIENTS
  S. Poissant, J. Raney, E. Carroll, N. Whitmall III

6:03–6:10 pm  Questions and Answers

SESSION E
Grand D

Surgical Considerations

Session Chair: T. Balkany, J.T. Roland

2:30–2:38 pm  ELECTRODE MIGRATION AFTER COCHLEAR IMPLANTATION: INCIDENCE AND SOLUTIONS IN PEDIATRIC CASES
  S. Connell, T. Balkany, F. Telischi, S. Angeli, A. Eshraghi

2:39–2:47 pm  SURGICAL FACTORS IN PEDIATRIC COCHLEAR IMPLANTATION AND EARLY AUDITORY OUTCOMES
  H. Francis, C. Buchman, J. Visaya, N. Wang, T. Zwolan, N. Fink, J. Niparko, CDaCI Investigative Team

2:48–2:56 pm  THE ROLE OF ELECTRODE PLACEMENT AS A CONTRIBUTOR TO VARIABILITY AND OUTCOMES

2:57–3:05 pm  COCHLEAR IMPLANT ELECTRODE INSERTION THROUGH THE ROUND WINDOW
  P. Roland, C. Wright, B. Isaacson

3:06–3:14 pm  IMPACT OF COCHLEAR IMPLANTATION (CI) ON VESTIBULAR EVOKED MYOGENIC POTENTIALS (VEMPS)
  G. Licameli, D. Poe, G.W. Zhou, K. Stevens, M. Kenna

3:15–3:23 pm  SURGICAL TECHNIQUE AND EXPERIENCE WITH THE SONATA TI100 COCHLEAR IMPLANT

3:24–3:32 pm  EFFECTS OF MILD HYPOTHERMIA DURING COCHLEAR IMPLANTATION: PRELIMINARY REPORT

3:33–3:41 pm  TREATMENT OF SEVERE GUSHER IN COCHLEAR IMPLANTATION
  L. Olgun, S.G. Gultekin, M.Z. Ozuer, T. Kandogan, M. Balaban

3:42–3:50 pm  VIBRANT SOUNDBRIDGE IN CHILDREN: FIRST EXPERIENCE IN MERAN
  C. Streitberger, L.S.Y. Lim, N. Giarbini

3:51–3:59 pm  ROBOT-ASSISTED COCHLEOSTOMIES IN CADAVERIC TEMPORAL BONE SPECIMENS
  R.N. Samy, A.B. Bosse

4:00–4:20 pm  Refreshment Break in Providence II & III
Fiscal Considerations

Session Chair: D. Backous

4:20–4:28 pm  #289  THE NEED FOR A COCHLEAR IMPLANT (CI) RESEARCH NETWORK REGISTRY. THE TIME IS NOW
J. Meinzen-Derr

4:29–4:37 pm  #290  ESTIMATED PREVALENCE OF PEDIATRIC COCHLEAR IMPLANT CANDIDATES IN THE UNITED STATES
T. Bradham, J. Jones

4:38–4:46 pm  #291  METHODOLOGY FOR CI PROGRAM DESIGN FOCUSED ON PATIENT ACCESS AND FINANCIAL VIABILITY
D.D. Backous, A. Zarkos, S.D. Watson

4:47–4:55 pm  #292  NOT A ‘SOUND’ DECISION: WHEN COCHLEAR IMPLANTS MAY NOT BE THE BEST CHOICE?

4:56–5:04 pm  #293  INSURANCE ADVOCACY FOR BILATERAL COCHLEAR IMPLANTS AT THE LET THEM HEAR FOUNDATION
J.B. Roberson Jr., S. Byrne-Haber

5:05–5:09 pm  Questions and Answers

Program Development and Professional Training

Session Chair: C. Brown

5:09–5:17 pm  #294  SETTING UP A PEDIATRIC COCHLEAR IMPLANT PROGRAM IN A SMALL ISLAND NATION
D. Jha

5:18–5:26 pm  #295  PEDIATRIC COCHLEAR IMPLANTATION: THE IMPORTANCE OF A TEAM APPROACH AND COLLABORATION WITH PUBLIC SCHOOLS
C. Brown, H. Eskridge, H. Teagle, C. Buchman, H. Pillsbury

5:27–5:35 pm  #296  IMPROVING OUTCOMES FOR YOUNG CHILDREN WITH HEARING LOSS: RECENT FINDINGS FROM STATEWIDE TRAINING WORKSHOPS FOR EARLY INTERVENTION PROVIDERS
A. Vereb, T. Zwolan

5:36–5:44 pm  #297  COLLABORATIVE STAFF DEVELOPMENT: MULTIDISCIPLINARY TRAINING FOR TEAMS WORKING WITH STUDENTS WITH COCHLEAR IMPLANTS
M. Gillinger

5:45–5:53 pm  #298  A MODEL FOR PROVIDING EDUCATIONAL SUPPORT THROUGH THE COCHLEAR IMPLANT CENTER
S. Cheffo, M. Berger, L. Heymann

5:54–6:02 pm  #299  THE EDUCATIONAL CONSULTANT TRAINING PROGRAM AT THE CHILDREN’S HOSPITAL OF PHILADELPHIA
E. Goldsmith, K. Franck

6:03–6:10 pm  Questions and Answers

SESSION F
Grand C

Bimodal Stimulation—(CI-Acoustic)

Session Chair: L. Tonokawa-Marcecci, M. Luntz

2:30–2:38 pm  #300  DOES UNILATERAL ACOUSTIC HEARING MAINTAIN THE CONTRALATERAL DEAF EAR FOR SUCCESSFUL COCHLEAR IMPLANTATION?
2:39–2:47 pm WHAT ARE THE INDICATIONS FOR BILATERAL COCHLEAR IMPLANTS VERSUS A COCHLEAR IMPLANT AND A HEARING AID IN THE NONIMPLANTED EAR?

2:48–2:56 pm NATURAL HISTORY OF CONTRALATERAL RESIDUAL HEARING IN BINAURAL-BIMODAL HEARING
M. Luntz, N. Yehudai, T. Shpak

2:57–3:05 pm BIMODAL FITTING IN COMPARISON TO UNILATERAL AND BILATERAL COCHLEAR IMPLANTATION
S. Ruehl, M. Boehm, T. Lenarz, A. Lesinski-Schiedat

3:06–3:14 pm SHORT ELECTRODES FOR BINAURAL IMPLANTATION IN INFANTS
B. Gantz, T. Van Voorst, M. Kenworthy, L. Spencer, B. Tomblin, C. Dunn, R. Tyler, L. Reiss, C. Turner

3:15–3:23 pm SPEECH PERCEPTION IN NOISE FOR CHILDREN WITH A HEARING AID AND A COCHLEAR IMPLANT IN OPPOSITE EARS
M. Mok, K. Galvin, R. Dowell, C. McKay

3:23–3:30 pm Questions and Answers

Bilateral Stimulation I—(CI-CI)
Session Chair: L. Tonokawa-Marcacci, M. Luntz

3:30–3:38 pm PEDIATRIC BILATERAL COCHLEAR IMPLANTS: THE PROGRAMMING AUDIOLOGIST’S PERSPECTIVE
M. Scott, D. Goldberg, P. Weber

3:39–3:47 pm PROSPECTIVE EVALUATION OF BILATERAL COCHLEAR IMPLANT PERFORMANCE IN YOUNG DEAF CHILDREN: STUDY DESIGN CONSIDERATIONS
B. Peters, M. Osberger

3:48–3:56 pm BILATERAL VERSUS MONOAURAL PEDIATRIC COCHLEAR IMPLANTATION
W-D. Baumgartner, A. Jappel, M. Katzinger, S. Hickman, R. Ramsebner, J.S. Hamzavi

3:56–4:00 pm Questions and Answers

4:00–4:20 pm Refreshment Break

Bilateral Stimulation II—(CI-CI)
Session Chair: R. Litovsky, J. Mueller

4:20–4:28 pm BILATERAL COCHLEAR IMPLANTS IN ADULTS AND CHILDREN: WHERE ARE WE AFTER 10 YEARS OF EXPERIENCE?
J. Mueller, F. Schon, W. Harrisch, St. Brill, J. Helms, R. Hagen

4:29–4:37 pm BENEFITS OF BILATERAL IMPLANTS USING STATIC AND DYNAMIC STIMULI
R. Tyler, C. Dunn, S. Witt, B. Gantz

4:38–4:46 pm IMPACT OF BILATERAL PEDIATRIC COCHLEAR IMPLANTATION ON SPEECH PERCEPTION ABILITIES IN QUIET AND NOISE
A. Biever, D. Kelsall

4:47–4:55 pm SEQUENTIAL BILATERAL IMPLANTS FOR YOUNG CHILDREN: SUBJECTIVE OUTCOMES, LEFT VERSUS RIGHT LOCALIZATION AND SPEECH DETECTION RESULTS
K. Galvin, M. Mok, R. Dowell

4:56–5:04 pm SPATIAL UNMASKING AND BINAURAL ADVANTAGE FOR SPEECH DETECTION IN NOISE FOR CHILDREN WITH BILATERAL IMPLANTS AND BIMODAL DEVICES
M. Mok, K. Galvin, R. Dowell, C. McKay

5:05–5:13 pm SPEECH CHANGES IN ADULTS WITH UNILATERAL AND BILATERAL COCHLEAR IMPLANTS
L. Marvin, P.M. Chute, K. Rapoza

5:13–5:18 pm Questions and Answers
<table>
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<tr>
<th>Time</th>
<th>Session Title</th>
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<tr>
<td>5:19–5:27 pm</td>
<td>SOUND LATERALIZATION IN YOUNG DEAF CHILDREN WITH BILATERAL COCHLEAR IMPLANTS</td>
<td>J.W. Beijen, A. Snik, A. Baayens, E. v.Knegsel, E. Mylanus</td>
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<td>5:28–5:36 pm</td>
<td>EXPLORING SPATIAL HEARING AND WORD RECOGNITION SKILLS IN TODDLERS WHO HAVE HAD</td>
<td>T.M. Grieco, R.Y. Litovsky, J.R. Saffran</td>
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<td>EARLY AUDITORY EXPOSURE WITH UNILATERAL OR BILATERAL COCHLEAR IMPLANTS</td>
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<td>5:37–5:45 pm</td>
<td>QUALITATIVE ANALYSIS OF PERCEIVED ADVANTAGES AND DISADVANTAGES OF BILATERAL</td>
<td>M. Moeller, L. Stille, D. Neff, M. Hughes, P. Stelmachowicz, R. Lusk</td>
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<td>COCHLEAR IMPLANTS</td>
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<td>5:46–5:54 pm</td>
<td>QUALITY OF LIFE AND BENEFITS IN BILATERALLY IMPLANTED CHILDREN</td>
<td>F. Scherf, P. van de Heyning, L. van Deun, A. van Wieringen, C. Desloovere, I.</td>
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<td>Dhooge, E. Offeciers, N. Deggouj, L. De Raeve</td>
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<td>5:54–6:00 pm</td>
<td>Questions and Answers</td>
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SATURDAY, APRIL 14, 2007

7:00–8:00 am  Continental Breakfast in Providence II & III

General Session V  Bilateral Stimulation and Hair Cell Regeneration

Grand Ballroom (Level Two)

Invited Speakers

8:00–8:05 am  OVERVIEW
C. Brown

8:05–8:20 am  EMERGENCE OF SPATIAL HEARING ABILITIES IN BILATERALLY IMPLANTED CHILDREN
R. Litovsky

8:25–8:40 am  CONTRALATERAL HEARING AIDS IN PATIENTS WITH COCHLEAR IMPLANTS: BENEFITS AND LIMITATIONS
P. Kileny

8:45–9:00 am  PROCEDURES PROPOSED FOR A RANDOMISED CONTROLLED TRIAL OF BILATERAL PAEDIATRIC COCHLEAR IMPLANTATION
Q. Summerfield

9:05–9:20 am  DEVELOPING MEDICATIONS FOR INNER EAR DISEASE: IMPLICATIONS FOR UNILATERAL AND BILATERAL COCHLEAR IMPLANTATION
H. Staecker

9:25–9:50 am  Refreshment Break in Providence II & III

Concurrent Oral Sessions

SESSION G

Grand C

Plasticity and Development

Session Chair: J. Firszt, J. Rubinstein

9:50–9:58 am  LOCALIZATION, SPEECH PERCEPTION AND CLINICAL OUTCOMES FOR OLDER CHILDREN USING SEQUENTIAL BILATERAL COCHLEAR IMPLANTS
K. Galvin, M. Mok, R. Dowell

9:59–10:07 am  BINAURAL INTERACTION AT INITIAL STAGES OF BILATERAL COCHLEAR IMPLANT USE IN CHILDREN
K.A. Gordon, J. Valero, B.C. Papsin

10:08–10:16 am  MONAURAL BENEFITS OF SECOND-SIDE COCHLEAR IMPLANTS IN “OLDER” CHILDREN
J. Rubinstein, W. Drennan, K. Corkrum, K. Sie, S. Norton

10:17–10:25 am  CENTRAL AUDITORY SYSTEM PLASTICITY IN CHILDREN WITH BILATERAL COCHLEAR IMPLANTS
K. Martin, A. Sharma, P. Roland, B. Peters, P. Gilley, M. Dorman

10:26–10:34 am  RESULTS OF CHILDREN WITH SEQUENTIALY IMPLANTED BILATERAL COCHLEAR IMPLANTS: WHAT HAPPENS TO THE SECOND EAR?
M. Novak, J. Wirth, O. Ntukogu, J. Thomas, L.A. Rotz

10:35–10:43 am  BINAURAL COCHLEAR IMPLANTATION: CORTICAL RESPONSES TO BINAURAL CUES IN CONGENITALLY DEAF CATS
J. Tillein, P. Hubka, S. Heid, R. Hartmann, A.K. Engel, A. Kral
10:44–10:52 am  
**DOES UNILATERAL ACOUSTIC HEARING MAINTAIN THE CONTRALATERAL DEAF EAR FOR SUCCESSFUL COCHLEAR IMPLANTATION?**  

10:53–11:01 am  
**THE EFFECT OF AUDITORY DEPRIVATION ON CORTICAL REORGANIZATION IN CHILDREN WITH COCHLEAR IMPLANTS**  
A. Sharma, P. Gilley, M. Dorman  

11:02–11:10 am  
**HIERARCHY OF EARLY AUDITORY RESPONSES (HEAR) CHART**  
D. Lee, E. Hopkins, R. Dearman  

11:11–11:19 am  
**COCHLEAR IMPLANTATION DURING THE FIRST, SECOND, OR THIRD YEAR OF LIFE: IMPLICATIONS FOR SPOKEN WORD RECOGNITION AND LANGUAGE SKILLS AT SIX YEARS OF AGE**  
M. Hay-McCutcheon, K. Kirk, S. Henning, B. Gehrlein, R. Miyamoto  

11:20–11:30 am  
Questions and Answers  

**SESSION H**  
*Providence I*  

**CI in Children with Multiple Handicaps**  
*Session Chair: K. Kirk, D. Schramm*  

9:50–9:58 am  
**AUDIOLOGICAL ASSESSMENT OF MULTIPLE HANDICAPPED CHILDREN, PERFORMED IN EVERYDAY SITUATIONS IN EDUCATIONAL SETTINGS**  
L.J. Eilertsen, A.B. Borud  

9:59–10:07 am  
**INTERDISCIPLINARY TEAM EVALUATIONS TO IDENTIFY COMORBID DISABILITIES IN CHILDREN WITH COCHLEAR IMPLANTS**  
D. Plapinger, S. Nottage  

10:08–10:16 am  
**COCHLEAR IMPLANTATION IN MULTHANDICAPPED CHILDREN**  
L. Olgun, S.G. Gultekin, M.Z. Ozuer, S. Alper, B. Uckan  

10:17–10:25 am  
**COCHLEAR IMPLANT OUTCOMES IN YOUNG CHILDREN WITH MULTIPLE DISABILITIES**  
K.I. Kirk, M.J. Hay-McCutcheon, S.C. Henning, B.L. Gehrlein, R.T. Miyamoto  

10:26–10:34 am  
**SYSTEMATIC REVIEW OF THE BENEFITS OF COCHLEAR IMPLANTATION IN CHILDREN WITH HEARING LOSS AND MULTIPLE DISABILITIES**  
D. Schramm, J. Olds, E. Fitzpatrick, M. Sampson  

10:35–10:43 am  
**EDUCATIONAL PLACEMENT OF COCHLEAR IMPLANTED CHILDREN WITH ADDITIONAL DIFFICULTIES**  
N. Tsach, T. Most, T. Shpak, C. Peleg, M. Luntz  

10:44–10:52 am  
**EXPLORATORY FACTOR ANALYSIS OF MULTIDOMAIN DEVELOPMENTAL SCALE; PREDICTING PERFORMANCE IN MULTIPLY HANDICAPPED CHILDREN**  
K. Trimble, L. Rosella, K. Gordon, E. Propst, V. Papaioannou, B. Papsin  

10:53–11:00 am  
Questions and Answers  

**Outcomes—Communication**  
*Session Chair: K. Kirk, D. Schramm*  

11:00–11:08 am  
**DEVELOPMENT OF A COMMUNICATIVE PERFORMANCE SCALE FOR PEDIATRIC COCHLEAR IMPLANTATION**  

11:09–11:17 am  
**THE IMPACT OF INFANT HEARING SCREENING ON COMMUNICATION DEVELOPMENT**  

11:18–11:26 am  
**LONG-TERM FUNCTIONAL COMMUNICATION OUTCOMES FOLLOWING COCHLEAR IMPLANTATION—A USER’S PERSPECTIVE**  
D. McKinley, H. Starczewski  

11:26–11:30 am  
Questions and Answers
**SESSION I**  
*Grand D*

**Habilitation**

*Session Chair: A.E. Geers*

9:50–9:58 am  
#343  
LONG-TERM BENEFITS OF COCHLEAR IMPLANTATION IN PRESCHOOL  
A.E. Geers, J.S. Moog, E.A. Tobey, C.A. Brenner

9:59–10:07 am  
#344  
MAINSTREAM ASSESSMENT OF READINESS FOR CHILDREN OVER FIVE  
C. Robinson

10:08–10:16 am  
#345  
SCHOOL EDUCATION, OUT OF SCHOOL EDUCATION, VOCATIONAL TRAINING AND EMPLOYMENT STATUS OF YOUNG PEOPLE WHO GREW UP WITH COCHLEAR IMPLANTS  
M. Huber, W. Hitzl, K. Albegger

10:17–10:25 am  
#346  
THE COST AND ANALYSIS OF NONUSE OF COCHLEAR IMPLANTS  
C. Raine, Q. Summerfield, D. Strachan, J. Martin, C. Totten

10:26–10:30 am  
Questions and Answers

**Reliability**

*Session Chair: W. Luxford*

10:30–10:38 am  
#347  
INCREASED SENSITIVITY FOR RELIABILITY REPORTING USING A NEW DEFINITION OF FUNCTION  
S.D. Watson, A.H. Zarkos, D.D. Backous

10:39–10:47 am  
#348  
RELIABILITY OF COCHLEAR IMPLANTS IN CHILDREN  
R.D. Battmer, B. Linz, T. Lenarz

10:48–10:56 am  
#349  
COCHLEAR IMPLANT REPLACEMENT WITH A DIFFERENT IMPLANT SYSTEM  
K. Franck, J. Germiller

10:57–11:05 am  
#350  
FAILED EXTRACTION OF ELECTRODE AND POSITIONER DURING REVISION OF CLARION COCHLEAR IMPLANT  
S. Telian, T. Zwolan, P. Kileny

11:06–11:14 am  
#351  
IMPACT OF EXPLANTATION AND REIMPLANTATION ON COCHLEAR IMPLANT PERFORMANCE FOR 16 COCHLEAR IMPLANT RECIPIENTS  
D. Kelsall, A. Biever

11:15–11:23 am  
#352  
COCHLEAR REIMPLANTATION: INDICATIONS AND RESULTS IN CHILDREN  
A. Marlowe, A. Rivas, H. Francis, J. Chinnici, J. Niparko

11:24–11:30 am  
Questions and Answers

11:30 am–12:00 noon  
Box Lunch in Promenade

**General Session VI**  
Implant Reliability Forum: Current State-of-the-Art

*Grand C & D*

12:00 noon–12:05 pm  
**Introduction**  
H.C. Pillsbury

12:05–12:15 pm  
**The Clinic Perspective—Internal Device Reliability**  
C. Buchman

12:15–12:25 pm  
**The Clinic Perspective—External Device Reliability**  
M. Syms

12:25–12:35 pm  
**Findings of the Consensus Group**  
R. Battmer

12:35–12:45 pm  
**Soft Failures Consensus Statement**  
T. Balkany
Time-Ordered Agenda

12:45–12:55 pm  Reporting of Problems and Failures
D. Backous

**Diagnostic Internal Device Testing and Results**

12:55–1:10 pm  Manufacturer’s Report—Advanced Bionics
Mark Downing, Senior Manager of Clinical Engineering

1:10–1:25 pm  Manufacturer’s Report—Cochlear Corporation
Bronwyn Evans, Global Sr. VP of Quality and Regulatory

1:25–1:40 pm  Manufacturer’s Report—Med-El
Hansjörg Schößer, World-Wide Product Manager for Implants

1:40–1:55 pm  In Vivo Testing
C. Finley

1:55–2:00 pm  Discussion

END OF CONFERENCE