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<th>Time</th>
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<tr>
<td>7:00–8:00 am</td>
<td>Continental Breakfast in Providence II &amp; III</td>
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<td><strong>General Session I</strong></td>
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<td></td>
<td>Cochlear Implantation in the Very Young</td>
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<td><em>Grand Ballroom (Level Two)</em></td>
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<td><strong>Guest of Honor and Invited Speakers</strong></td>
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<tr>
<td>8:00–8:05 am</td>
<td>WELCOME AND OVERVIEW</td>
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<td><em>Course Co-Director H.C. Pillsbury</em></td>
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<td>8:05–8:20 am</td>
<td>ELIMINATION OF PROFOUND DEAFNESS FOR ALL—THE CHALLENGES FACED BY</td>
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<td></td>
<td><em>COCHLEAR IMPLANT TECHNOLOGY</em></td>
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<td><em>Guest of Honor presentation by S. Parisier</em></td>
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<tr>
<td>8:25–8:40 am</td>
<td>EARLY ASSESSMENT AND HEARING AID FITTING IN INFANTS: ELIMINATING SOURCES OF ERROR</td>
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<td><em>P. Roush</em></td>
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<td>8:45–9:00 am</td>
<td>SURGICAL CONSIDERATIONS: COCHLEAR IMPLANTATION IN VERY YOUNG CHILDREN</td>
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<td><em>T. Roland</em></td>
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<td>9:05–9:20 am</td>
<td>COCHLEAR IMPLANTS AND ORAL EDUCATION: SPOKEN LANGUAGE OUTCOMES EXPECTED</td>
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<td><em>AT THE END OF THE PRESCHOOL YEARS</em></td>
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<td><em>J. Moog</em></td>
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<td>9:25–9:40 am</td>
<td>PRELIMINARY RESULTS IN THE CHILDHOOD DEVELOPMENT AFTER COCHLEAR</td>
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<td><em>IMPLANTATION (CDACI) STUDY</em></td>
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<td><em>J. Niparko</em></td>
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<tr>
<td>9:45–10:00 am</td>
<td>Refreshment Break in Providence II &amp; III</td>
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<td><strong>General Session II</strong></td>
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<td>Cochlear Implantation in the Very Young</td>
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<td><em>Grand Ballroom (Level Two)</em></td>
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<td><strong>Scientific Paper Presentations</strong></td>
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<tr>
<td>10:00–10:08 am</td>
<td>NONWORD DISCRIMINATION SKILLS IN HEARING-IMPAIRED INFANTS WITH HEARING AIDS OR COCHLEAR IMPLANTS</td>
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<td><em>D. Horn, D. Houston, R. Miyamoto</em></td>
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<tr>
<td>10:09–10:17 am</td>
<td>ASSESSING SPEECH PERCEPTION IN INFANTS</td>
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<td><em>A. Martinez, L. Eisenberg, L. Visser-Dumont, A. Boothroyd</em></td>
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<tr>
<td>10:18–10:26 am</td>
<td>CORRELATIONS OF FMRI ACTIVATION IN AUDITORY CORTEX AND HEARING LEVELS IN INFANTS WITH CONGENITAL HEARING IMPAIRMENT PRIOR TO COCHLEAR IMPLANTATION</td>
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<tr>
<td></td>
<td><em>M. Mecoli, S. Holland, P. Karunanayaka, J. Egelhoff, V. Schmithorst, M. Altaye, L. Cahill, D. Brown, D. Choo</em></td>
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<tr>
<td>10:27–10:35 am</td>
<td>IS COCHLEAR IMPLANTATION BEFORE THE AGE OF ONE JUSTIFIED?</td>
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<td><em>E. Karltorp, A. Frejd, E. Ostlund, U. Johansson, P. Rasmussen</em></td>
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<tr>
<td>10:36–10:44 am</td>
<td>HOW LOW SHOULD YOU GO? SURGICAL SAFETY AND SPEECH OUTCOMES IN CHILDREN RECEIVING COCHLEAR IMPLANTS UNDER THE AGE OF 1 YEAR</td>
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<td><em>S.L. Cushing, B.C. Papsin, A.L. James, K.A. Gordon</em></td>
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<td>10:45–10:53 am</td>
<td>ADAPTATION OF THE SURGICAL PROCEDURE FOR COCHLEAR IMPLANTS IN INFANTS AND TODDLERS</td>
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<td>J. Mueller, G. Baier, W. Shehata-Dieler, H. Kunigh, J. Helms, R. Hagen</td>
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<tr>
<td>10:53–11:00 am</td>
<td>Questions and Answers</td>
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<td>11:00–11:08 am</td>
<td><strong>Scientific Paper Presentations (cont)</strong></td>
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<td>Session Chair: A. Hodges, B. Papsin</td>
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<tr>
<td>11:08–11:26 am</td>
<td>THE FITTING OF SPEECH PROCESSORS IN VERY YOUNG CHILDREN USING NRT-BASED MAPS</td>
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<tr>
<td>11:26–11:44 am</td>
<td>USING AN OBSERVER-BASED PSYCHACOUSTIC PROCEDURE TO MEASURE PSYCHOMETRIC FUNCTIONS FOR DETECTION IN ELECTRIC-HEARING INFANTS AND TODDLERS</td>
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<tr>
<td>11:44–11:53 am</td>
<td>PREVERBAL PRODUCTIONS AND THEIR RELATIONSHIP TO AUDITORY ABILITIES OF INFANTS WITH COCHLEAR IMPLANTS, UNILATERAL HEARING LOSS, NORMAL HEARING AND PREMATURELY BORN</td>
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<td>L. Kishon-Rabin, R. Taitelbaum-Swead, D. Ari-Even Roth, M. Hildesheimer</td>
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<tr>
<td>11:53 am–12:00 noon</td>
<td>Questions and Answers</td>
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<tr>
<td>12:00 noon–1:00 pm</td>
<td>Lunch in Providence II &amp; III</td>
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**Poster Displays I with Authors**

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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>1:00–2:30 pm</td>
<td><strong>Providence I &amp; Providence Promenade (Lobby Level)</strong></td>
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<td><strong>Assessment and Candidacy</strong></td>
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<td>#018P EVALUATING AUDIOGRAMS FOR COCHLEAR IMPLANT CANDIDACY: CAN WE AGREE ON WHO IS AN AUDILOGIC CANDIDATE?</td>
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<tr>
<td></td>
<td>J. Meinzen-Derr, S. Wiley, E. Arjmand</td>
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<td>#019P CHILDREN WITH MODERATELY SEVERE OR WORSE SENSORINEURAL HEARING LOSS: AUDIOMETRIC REFERRAL CRITERIA FOR COCHLEAR IMPLANT</td>
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<td>S. Wiley, J. Meinzen-Derr, E. Arjmand</td>
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<td>#020P COCHLEAR IMPLANT CANDIDACY: HARD DECISIONS MADE EASIER</td>
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<td>T. Howarth and the Glenrose Rehabilitation Hospital Cochlear Implant Team</td>
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<td>#021P VALIDATION OF A MODIFIED COCHLEAR IMPLANT PROFILE (MCHIP) TOOL FOR USE IN PEDIATRIC COCHLEAR IMPLANT CANDIDACY EVALUATION</td>
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<td>#022P EVOLUTION OF THE CHILDREN’S IMPLANT PROFILE (CHIP) INTO AN OUTCOME PREDICTION VERSUS PATIENT SELECTION TOOL</td>
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<td>J. Meinzen-Derr, D. Choo, S. Wiley</td>
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<td>#023P CANDIDACY PROFILE FOR PRELINGUAL PROFOUNDLY HEARING IMPAIRED ADOLESCENTS</td>
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<td>T. Shpak, L. Koren, N. Tzach, C. Peleg, M. Lantz</td>
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20  
11th International Conference on Cochlear Implants in Children
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 STAPEDISUS 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 EVOKE 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. Garnham, 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 BAHASOFTBAND: 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. Harrisch, G. Baier, F. Schon, J. Helms, R. Hagen

#046P MORE THAN TWO YEARS’ EXPERIENCE WITH THE FLEXSOFT ELECTRODE AND THE PULSAR CI1000 COCHLEAR IMPLANT  

#047P PROSODY INFORMATION AND SPEAKER RECOGNITION IN FINE STRUCTURE PROCESSING  
W. Harrisch, 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
Time-Ordered Agenda

Poster Displays I with Authors (cont)

**Outcomes—Language**

#058P THE NUCLEUS FREEDOM PEDIATRIC POST APPROVAL STUDY  
J. Gilden, L. Hazard

#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. Brun, 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

#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  

**Outcomes—Literacy**

#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. Buyinski, 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
Time-Ordered Agenda

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. Kelsall

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
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

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
2:57–3:05 pm  
DEVELOPMENT OF PHONOLOGICAL SKILLS AND WORKING MEMORY CAPACITY IN CHILDREN WITH COCHLEAR IMPLANTS: SPEED OF PERFORMANCE AND LEVEL OF ACCURACY AS INDICATORS OF DEVELOPMENT  
B. Lyxell, M. Wuss, T. Ibertsson, B. Sahlen, M. Hallgren, B. Larsby, E. Mäki-Torkko

3:06–3:14 pm  
FACTORS ASSOCIATED WITH SPEECH AND LANGUAGE OUTCOME FOR CHILDREN WITH COCHLEAR IMPLANTS IN DENMARK  
L.M. Percy-Smith

3:15–3:23 pm  
VOICE IDENTIFICATION BY HEARING CHILDREN AND CHILDREN WITH COCHLEAR IMPLANTS  
T. Vongpaisal, S. Trehub, G. Schellenberg, B. Papsin

3:23–3:30 pm  
Questions and Answers

**Outcomes—Literacy**

Session Chair: H. Eskridge, R. Tonini

3:30–3:38 pm  
A COMPARISON OF READING COMPREHENSION LEVELS OF 15 TURKISH PEDIATRIC CI USERS WITH 15 TURKISH HEARING PEERS  
J. Kosaner, U. Girgin, D. Uruk, M. Deibl

3:39–3:47 pm  
MASTERY OF EMERGENT READING SKILLS IN CHILDREN WHO UNDERGO COCHLEAR IMPLANTATION PRIOR TO 24 MONTHS OF AGE  
D. Bervinchak, K. Ceh, J. Gross, S. Bouditch, H. Francis

3:48–3:56 pm  
LANGUAGE - READING CONNECTION: SUPPORTING EMERGENT LITERACY SKILLS IN YOUNG DEAF CHILDREN WITH COCHLEAR IMPLANTS  
J. DesJardin

3:56–4:00 pm  
Questions and Answers

4:00–4:20 pm  
**Break in Providence II & III**

**Outcomes—Language**

Session Chair: J. Moog

4:20–4:28 pm  
EXPLORING EXPRESSIVE AND RECEPTIVE LANGUAGE PATTERNS IN CHILDREN WITH COCHLEAR IMPLANTS  
B.A. Barker, E.A. Walker

4:29–4:37 pm  
AGE AT IMPLANTATION: OUTCOMES FOR CHILDREN IMPLANTED BY 12 MONTHS VERSUS THOSE IMPLANTED AT 13 to 18 MONTHS  
D. Hammes, M. Willis, J. Thomas, L. Rotz

4:38–4:46 pm  
BILATERAL COCHLEAR IMPLANTATION IN DEAF CHILDREN FROM FIVE TO EIGHTEEN MONTHS: EFFECT ON SPOKEN LANGUAGE SKILLS  
O. Wie

4:47–4:55 pm  
3 SPECIAL CASE REPORTS ON CI USE  
E. Ungui

4:56–5:04 pm  
LONGITUDINAL CHANGES IN MOTHERS’ SPEECH TO HEARING-IMPAIRED INFANTS WITH COCHLEAR IMPLANTS  
T. Bergeson, R. Manley, M. Fagan

5:05–5:10 pm  
Questions and Answers

**Outcomes—Psychosocial**

Session Chair: A. Quittner

5:10–5:18 pm  
SELF-ESTEEM AND EMOTIONAL ADJUSTMENT IN CHILDREN WITH COCHLEAR IMPLANTS  
E. Schorr, N. Fox, F. Roth

5:19–5:27 pm  
SOCIAL WELL-BEING OF DANISH CHILDREN WITH COCHLEAR IMPLANT COMPARED WITH NORMALLY HEARING CHILDREN  
L.M. Percy-Smith
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<td>5:37–5:45 pm</td>
<td>IMPACT OF PSYCHOLOGICAL AND COMMUNICATION FACTORS ON ADJUSTMENT TO UNILATERAL OR SEQUENTIAL BILATERAL COCHLEAR IMPLANTS IN LATE-IMPLANTED CHILDREN AND ADOLESCENTS</td>
<td>B. Kammerer, M. Neault, L. O'Brien, S. Dawson, K. Stevens, S. Thomas, T. Clark</td>
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<td>5:46–5:54 pm</td>
<td>SCIENCE, SOUNDS AND SENSATIONS</td>
<td>E. Beadle</td>
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<td>5:55–6:00 pm</td>
<td>Questions and Answers</td>
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<td><strong>SESSION C</strong></td>
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<td><strong>Medical Considerations</strong></td>
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<td>Session Chair: D. Haynes, A. Sismanis</td>
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<tr>
<td>2:30–2:38 pm</td>
<td>DEVIATING COURSES AFTER COCHLEAR IMPLANTATION</td>
<td>L.V. Johansen, T. Ovesen</td>
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<td>2:39–2:47 pm</td>
<td>COCHLEAR IMPLANTATION IN CHILDREN WITH OTITIS MEDIA: THIRD STAGE OF A LONG-TERM PROSPECTIVE STUDY</td>
<td>M. Luntz, J. Khalaila, T. Shpak,</td>
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<td>2:57–3:05 pm</td>
<td>CURRENT TECHNIQUES IN MANAGEMENT OF POSTMENINGITIC DEAFNESS</td>
<td>N. Young</td>
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<td>3:15–3:23 pm</td>
<td>COCHLEAR IMPLANTATION IN CHILDREN WITH JERVELL AND LANGE-NIELSEN SYNDROME</td>
<td>G. Siem, A. Früh, T. Leren, K. Heimdal, E. Teig, S. Harris</td>
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<td>3:33–3:41 pm</td>
<td>Questions and Answers</td>
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<td><strong>Outcomes—Hearing and Speech Perception I</strong></td>
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<td>Session Chair: D. Haynes, A. Sismanis</td>
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<td>3:51–3:59 pm</td>
<td>TRACKING DEVELOPMENT OF SPEECH RECOGNITION: LONGITUDINAL DATA FROM HIERARCHICAL ASSESSMENTS IN THE CHILDHOOD DEVELOPMENT AFTER COCHLEAR IMPLANTATION (CDACI) STUDY</td>
<td>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</td>
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<tr>
<td>3:59–4:00 pm</td>
<td>Questions and Answers</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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</table>
Outcomes—Hearing and Speech Perception II

Session Chair: O. Adunka

4:20–4:28 pm
#141
A LONGITUDINAL STUDY OF SPEECH PERCEPTION EXPRESSED IN AN EQUIVALENT HEARING LOSS VALUE IN CHILDREN WITH A COCHLEAR IMPLANT
L. Rotteveel, A. Snik, A. Vermeulen, E. Mylanus

4:29–4:37 pm
#142
SPEECH PERCEPTION IN CHILDREN USING HI-RESOLUTION AND STANDARD RESOLUTION MODE: A THREE-YEAR FOLLOW-UP REPORT
R. Filipo, E. Bosco, P. Mancini, L. D’Agosta, G. Taisci, A. Musacchio

4:38–4:46 pm
#143
MANAGEMENT OF AND RESULTS WITH THE NUCLEUS FREEDOM COCHLEAR IMPLANT IN PEDIATRIC PATIENTS
C. Stach, T. Zwolan, M. O’Sullivan

4:47–4:55 pm
#144
PERFORMANCE GROUPS IN ADULT COCHLEAR IMPLANT USERS: SPEECH PERCEPTION RESULTS FROM 1984 UNTIL TODAY
B. Krueger, G. Joseph, U. Rost, A. Straub-Schier, A. Buechner, T. Lenarz

Electroacoustic Stimulation

Session Chair: B. Gantz

5:00–5:08 pm
#145
COCHLEAR IMPLANTATION IN PATIENTS WITH SIGNIFICANT RESIDUAL HEARING
H. Pillsbury, R. Cullen, E. Buss, M. Clark, C. Buchman

5:09–5:17 pm
#146
CONCEPT OF HEARING PRESERVATION IN COCHLEAR IMPLANTATION AND FUTURE PERSPECTIVES FOR CHILDREN

5:18–5:26 pm
#147
PARTIAL DEAFNESS COCHLEAR IMPLANTATION (PDCI) IN CHILDREN WITH ELECTRIC AND ACOUSTIC STIMULATION (EAS) APPLICATION
H. Skarzynski, A. Lorens, A. Piotrowska

5:27–5:35 pm
#148
EXPANSION OF HYBRID COCHLEAR IMPLANTS TO CHILDREN WITH HIGH FREQUENCY HEARING LOSS
B. Gantz, L. Reiss, C. Turner, K. Gfeller

5:36–5:44 pm
#149
AUDITORY NEURONAL RESPONSES TO COMBINED ELECTRIC AND ACOUSTIC STIMULATION OF THE HEARING COCHLEA
M. Vollmer, B.H. Bonham, J. Tillein

5:45–5:53 pm
#150
MONITORING OF COCHLEAR FUNCTION DURING COCHLEAR IMPLANTATION
O. Adunka, P. Roush, E. Buss, J. Grose, C. Macperson, C. Buchman

5:54–6:00 pm
Questions and Answers
# Time-Ordered Agenda

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<td>Continental Breakfast in Providence II &amp; III</td>
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## General Session III: Auditory Nerve Assessment and Disorders

*Grand Ballroom (Level Two)*

### Guest of Honor and Invited Speakers

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<td>8:05–8:20 am</td>
<td>OBJECTIVE AND BEHAVIORAL MEASURES IN COCHLEAR IMPLANT FITTING IN YOUNG CHILDREN; CONSIDERATIONS, CHALLENGES AND OPPORTUNITIES</td>
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<td>#151</td>
<td><em>Guest of Honor presentation by M. Skinner</em></td>
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<tr>
<td>8:25–8:40 am</td>
<td>PERCEPTUAL AUDITORY ABILITIES OF CHILDREN WITH AUDITORY NEUROPATHY</td>
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<td>#152</td>
<td><em>F.G. Zeng</em></td>
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<td>8:45–9:00 am</td>
<td>SPEECH AND LANGUAGE DEVELOPMENT IN CHILDREN WITH AN/AD TYPE HEARING LOSS</td>
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<td>#153</td>
<td><em>G. Rance</em></td>
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<td>9:05–9:20 am</td>
<td>MECHANISMS OF AUDITORY NEUROPATHY</td>
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<td>#154</td>
<td><em>S. Shapiro</em></td>
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<td>9:25–9:40 am</td>
<td>COCHLEAR NERVE DEFICIENCY IN CHILDREN</td>
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<td>#155</td>
<td><em>C. Buchman</em></td>
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<td>9:45–10:00 am</td>
<td>Refreshment Break</td>
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## General Session IV: Auditory Nerve Assessment and Disorders

*Grand Ballroom (Level Two)*

### Scientific Paper Presentations

**Session Chair: H. Teagle, P. Wackym**

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<td>AUDITORY NERVE GROWTH FACTORS DERIVED FROM THE EARLY EMBRYONIC INNER EAR</td>
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<td>#156</td>
<td><em>J.A. Germiller, H. Nardone, K. Challagulla, A. Vu, L. Bianchi, K. Barald</em></td>
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<td>10:09–10:17 am</td>
<td>THE UTILITY OF ELECTRICAL ABR TESTING</td>
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<td>#157</td>
<td><em>G. Hashisaki, B. Kesser, A. Gardner, A. DeMichele, L. Grove, L. Bobsin, R. Ruth</em></td>
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<td>10:18–10:26 am</td>
<td>FMRI OF AUDITORY FUNCTION IN CHARGE SYNDROME PRIOR TO COCHLEAR IMPLANTATION</td>
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<td>#158</td>
<td><em>L. Cahill, D. Mehta, M. Mecoli, D. Choo, S. Holland</em></td>
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<td>10:27–10:35 am</td>
<td>INTRACochlear ECAP TESTING IN CHILDREN WITH AUDITORY NEUROPATHY</td>
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<td>#159</td>
<td><em>J. Weinstock, H. Teagle, C. Buchman, C. Zdanski</em></td>
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<td>10:36–10:44 am</td>
<td>AUDITORY-EVOKED POTENTIALS IN RESPONSE TO TEMPORAL CHANGES</td>
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<td>#160</td>
<td><em>C. Etler, C. Brown, P. Abbas, S. Erenberg, S. He, S. O’Brien</em></td>
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<td>10:45–10:53 am</td>
<td>QUANTITATIVE ANALYSES OF ELECTRICALLY EVOKED AUDITORY BRAINSTEM RESPONSES IN IMPLANTED CHILDREN WITH AUDITORY NEUROPATHY/DYS-SYNCHRONY</td>
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<td>#161</td>
<td><em>S. Drake, C. Runge-Samuelson, P.A. Wackym</em></td>
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<td>10:54–11:02 am</td>
<td>CORTICAL EVOKEd AUDITORY POTENTIALS IN COCHLEAR IMPLANTED CHILDREN WITH AUDITORY DYS-SYNCHRONY</td>
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<td>#162</td>
<td><em>A. Ciprut, F. Akdas</em></td>
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<td>11:02–11:10 am</td>
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### Scientific Paper Presentations (cont)

**Session Chairs: H. Francis, G. Rance**

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

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

**11:28–11:36 am**
- **#165 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**
  - G. Rance, E. Barker, E. Fay

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

**11:46–11:54 am**
- **#167 EVALUATING CHILDREN WITH AUDITORY BRAINSTEM IMPLANTS: A TWIN CASE STUDY**
  - 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)**

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### 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
Poster Display II with Authors (cont)

**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 BINAURALLY 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

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#### Cochlear Implantation in Children with Multiple Handicaps

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#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. Engebretson, 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

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#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
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**Time-Ordered Agenda**

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11th International Conference on Cochlear Implants in Children
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<td>PERCEPTION OF MUSIC WITH MODIFICATIONS TO ADRO</td>
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**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 |
| #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. Kürküm, B. Serbetcioglu                   |
| #259P | DETECTING FACIAL NERVE STIMULATION IN CHILDREN WITH COCHLEAR IMPLANTS: THE ROLE OF EVOLED 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
2:39–2:47 pm  
**OPUS1—AN EAR-LEVEL SPEECH PROCESSOR FOR TEMPORAL FINE STRUCTURE STIMULATION STRATEGIES**  
C. Zierhofer

2:48–2:56 pm  
**FIRST EXPERIENCE WITH FSP AND OPUS1 AND OPUS 2, AMONG PULSAR RECIPIENTS ORIGINALLY FITTED WITH TEMPO**  
F. Asp, M. Vainio, G. Eskilsson

2:57–3:05 pm  
**SPEECH UNDERSTANDING OF CHILDREN AND ADULTS AT DIFFERENT SOUND PRESSURE LEVELS WITH TWO DIFFERENT COCHLEAR IMPLANT SYSTEMS**  
M. Kompis, C. Schmid, M. Vischer, R. Häusler

3:06–3:14 pm  
**BENEFITS OF THE NUCLEUS BEAM ADAPTIVE TWO-MICROPHONE TECHNOLOGY IN UNDERSTANDING SPEECH IN NOISE**  
K. Rehwinkel, J. Carmody, J. Herzog, V. Sonneveldt

3:15–3:23 pm  
**RESULTS FROM A PSYCHOACOUSTIC MODEL-BASED STRATEGY FOR THE N-24 AND FREEDOM COCHLEAR IMPLANTS**  
A. Buechner, W. Nogueira, B. Edler, T. Lenarz

3:23–3:29 pm  
Questions and Answers

**Speech Processing—Current Steering**  
*Session Chair: R. Schatzker, B. Wilson*

3:30–3:38 pm  
**IMPLEMENTATION OF PERCEPTUAL CHANNELS IN CHILDREN IMPLANTED WITH CLARION AND HIRES 90K IMPLANTS**  
P. Mancini, E. Bosco, D. Ballantyne, L. D'Agostino, G. Traisci, M. Viccaro, M. Nicasrti, R. Filipo

3:39–3:47 pm  
**PEDIATRIC RESULTS FOLLOWING SWITCH OVER FROM HIRES TO HIRES 120**  
T. Van Den Abbeele, N. Noel Petroff, L. Arnold, N. Crozat-Teissier, P. Boyle

3:48–3:56 pm  
**CURRENT STEERING AND RESULTS FROM NOVEL SPEECH-CODING STRATEGIES**  
A. Buechner, M. Brendel, B. Krueger, C. Frohne-Buechner, W. Nogueira, B. Edler, T. Lenarz

3:56–4:00 pm  
Questions and Answers

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

**Music Processing—Coding and Perception**  
*Session Chair: K. Franck, F.G. Zeng*

4:20–4:28 pm  
**EVALUATION OF THE HARMONY-SOUNDPROCESSOR IN COMBINATION WITH THE HIRES120 SPEECH-CODING STRATEGY**  
M. Brendel, A. Buechner, B. Krueger, C. Frohne-Buechner, T. Lenarz

4:29–4:37 pm  
**MUSICAL ATTITUDE OF IMPLANTED CHILDREN: SPEECH AND MUSICAL PERCEPTION RESULTS OF ONE YEAR FOLLOW-UP**  
E. Yucel, G. Sennaroglu, B. Budak, E. Belgyn

4:38–4:46 pm  
**MUSIC PERCEPTION OF ADOLESCENT COCHLEAR IMPLANT USERS AS MEASURED IN THE MU.S.I.C. TEST**  
S.J. Brockmeier, K. Stroe, D. Diller, S. Hilbig

4:47–5:00 pm  
Questions and Answers

**Psychophysics of CI Stimulation**  
*Session Chair: K. Franck, F.G. Zeng*

5:00–5:08 pm  
**ELECTRICAL FREQUENCY-PLACE MAP IN SUBJECTS WITH NO OR MINOR HEARING LOSS**  
K. Vermeire, A. Nobbe, P. Schleitch, E. Aschbacher, M. Voormolen, P. Van de Heyning

5:09–5:17 pm  
**THRESHOLDS IN PEDIATRIC COCHLEAR IMPLANT RECIPIENTS: MULTIPLE-ELECTRODE AND POSITION EFFECTS**  
D. Clutton, K. Gordon, L. Hood

5:18–5:26 pm  
**THE EFFECT OF INTENSITY UPON PITCH PERCEPTION: MONO- VERSUS BIPOLAR STIMULATION**  
C. Arnoldner, J-S. Hamzavi, D. Riss, W. Gstoettner, W-D. Baumgartner
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. Whitmll 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

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**SESSION F**

*Grand C*

**Bimodal Stimulation—(CI-Acoustic)**

*Session Chair: L. Tonokawa-Marceacci, M. Luntz*

2:30–2:38 pm

#300

DOES UNILATERAL ACOUSTIC HEARING MAINTAIN THE CONTRALATERAL DEAF EAR FOR SUCCESSFUL COCHLEAR IMPLANTATION?

### Time-Ordered Agenda

<table>
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<th>Time</th>
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| 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)**  |
| 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)**  |
| 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. Harnisch, 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 |
<p>| 5:13–5:18 pm  | Questions and Answers |</p>
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| 5:19–5:27 pm| **#315** SOUND LATERALIZATION IN YOUNG DEAF CHILDREN WITH BILATERAL COCHLEAR IMPLANTS  
  J.W. Beijen, A. Snik, A. Baayens, E. v.Knegsel, E. Mylanus |
| 5:28–5:36 pm| **#316** EXPLORING SPATIAL HEARING AND WORD RECOGNITION SKILLS IN TODDLERS WHO HAVE HAD EARLY AUDITORY EXPOSURE WITH UNILATERAL OR BILATERAL COCHLEAR IMPLANTS  
  T.M. Grieco, R.Y. Litovsky, J.R. Saffran |
| 5:37–5:45 pm| **#317** QUALITATIVE ANALYSIS OF PERCEIVED ADVANTAGES AND DISADVANTAGES OF BILATERAL COCHLEAR IMPLANTS  
  M. Moeller, L. Stille, D. Neff, M. Hughes, P. Stelmachowicz, R. Lusk |
| 5:46–5:54 pm| **#318** QUALITY OF LIFE AND BENEFITS IN BILATERALLY IMPLANTED CHILDREN  
  F. Scherf, P. van de Heyning, L. van Deun, A. van Wieringen, C. Desloover, I. Dhooge, E. Offeciers, N. Deggouj, L. De Raeve |
| 5:54–6:00 pm| Questions and Answers                                                  |
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
   #319
   R. Litovsky

8:25–8:40 am   CONTRALATERAL HEARING AIDS IN PATIENTS WITH COCHLEAR IMPLANTS: BENEFITS
   AND LIMITATIONS
   #320
   P. Kilieny

8:45–9:00 am   PROCEDURES PROPOSED FOR A RANDOMISED CONTROLLED TRIAL OF BILATERAL
   #321
   PAEDIATRIC COCHLEAR IMPLANTATION
   Q. Summerfield

9:05–9:20 am   DEVELOPING MEDICATIONS FOR INNER EAR DISEASE: IMPLICATIONS FOR UNILATERAL
   AND BILATERAL COCHLEAR IMPLANTATION
   #322
   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
   #323
   K. Galvin, M. Mok, R. Dowell

9:59–10:07 am   BINAURAL INTERACTION AT INITIAL STAGES OF BILATERAL COCHLEAR IMPLANT USE IN
   CHILDREN
   #324
   K.A. Gordon, J. Valero, B.C. Papsin

10:08–10:16 am  MONOURAL BENEFITS OF SECOND-SIDE COCHLEAR IMPLANTS IN “OLDER” CHILDREN
   #325
   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
   #326
   K. Martin, A. Sharma, P. Roland, B. Peters, P. Gilley, M. Dorman

10:26–10:34 am  RESULTS OF CHILDREN WITH SEQUENTIALLY IMPLANTED BILATERAL COCHLEAR
   IMPLANTS: WHAT HAPPENS TO THE SECOND EAR?
   #327
   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
   #328
   J. Tillein, P. Hubka, S. Heid, R. Hartmann, A.K. Engel, A. Kral
Time-Ordered Agenda

10:44–10:52 am #329
DOES UNILATERAL ACOUSTIC HEARING MAINTAIN THE CONTRALATERAL DEAF EAR FOR SUCCESSFUL COCHLEAR IMPLANTATION?

10:53–11:01 am #330
THE EFFECT OF AUDITORY DEPRIVATION ON CORTICAL REORGANIZATION IN CHILDREN WITH COCHLEAR IMPLANTS
A. Sharma, P. Gilley, M. Dorman

11:02–11:10 am #331
HIERARCHY OF EARLY AUDITORY RESPONSES (HEAR) CHART
D. Lee, E. Hopkins, R. Dearman

11:11–11:19 am #332
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 #333
AUDIOLOGICAL ASSESSMENT OF MULTIPLE HANDICAPPED CHILDREN, PERFORMED IN EVERYDAY SITUATIONS IN EDUCATIONAL SETTINGS
L.J. Eilertsen, A.B. Borud

9:59–10:07 am #334
INTERDISCIPLINARY TEAM EVALUATIONS TO IDENTIFY COMORBID DISABILITIES IN CHILDREN WITH COCHLEAR IMPLANTS
D. Plapinger, S. Nottage

10:08–10:16 am #335
COCHLEAR IMPLANTATION IN MULTIHANDICAPPED CHILDREN
L. Olgun, S.G. Gultekin, M.Z. Ozuer, S. Alper, B. Uckan

10:17–10:25 am #336
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 #337
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 #338
EDUCATIONAL PLACEMENT OF COCHLEAR IMPLANTED CHILDREN WITH ADDITIONAL DIFFiculties
N. Tsach, T. Most, T. Shpak, C. Peleg, M. Luntz

10:44–10:52 am #339
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 #340
DEVELOPMENT OF A COMMUNICATIVE PERFORMANCE SCALE FOR PEDIATRIC COCHLEAR IMPLANTATION

11:09–11:17 am #341
THE IMPACT OF INFANT HEARING SCREENING ON COMMUNICATION DEVELOPMENT

11:18–11:26 am #342
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. Hitzi, K. Albecker

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. Sym

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

12:35–12:45 pm  
Soft Failures Consensus Statement  
T. Balkany
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