# **Time-Ordered Agenda**

#### THURSDAY, APRIL 12, 2007

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

7.00 0.00 um	continental Breatquar at Frontaciae II a II
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 #001	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 #002	EARLY ASSESSMENT AND HEARING AID FITTING IN INFANTS: ELIMINATING SOURCES OF ERROR P. Roush
8:45–9:00 am #003	SURGICAL CONSIDERATIONS: COCHLEAR IMPLANTATION IN VERY YOUNG CHILDREN T. Roland
9:05–9:20 am #004	COCHLEAR IMPLANTS AND ORAL EDUCATION: SPOKEN LANGUAGE OUTCOMES EXPECTED AT THE END OF THE PRESCHOOL YEARS  J. Moog
9:25–9:40 am #005	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 #006	NONWORD DISCRIMINATION SKILLS IN HEARING-IMPAIRED INFANTS WITH HEARING AIDS OR COCHLEAR IMPLANTS  D. Horn, D. Houston, R. Miyamoto
10:09–10:17 am #007	ASSESSING SPEECH PERCEPTION IN INFANTS A. Martinez, L. Eisenberg, L. Visser-Dumont, A. Boothroyd
10:18–10:26 am #008	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 #009	IS COCHLEAR IMPLANTATION BEFORE THE AGE OF ONE JUSTIFIED? E. Karltorp, A. Freijd, E. Ostlund, U. Johansson, P. Rasmussen
10:36–10:44 am #010	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

10:45–10:53 am #011	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 #012	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 #013	USING AN OBSERVER-BASED PSYCHOACOUSTIC PROCEDURE TO MEASURE PSYCHOMETRIC FUNCTIONS FOR DETECTION IN ELECTRIC-HEARING INFANTS AND TODDLERS V.K. Dasika, L.A. Werner, K. Nie, S.J. Norton, J.T. Rubinstein
11:18–11:26 am #014	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 #015	PRELEXICAL LANGUAGE DEVELOPMENT: PRISE AND IT-MAIS QUESTIONNAIRES FURTHER NORMATIVE DATA IN THE FIRST YEAR OF LIFE D. Cuda, A. Murri, L. Guerzoni, A. Defilippis, V. Gaglione
11:36–11:44 am #016	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 #017	DEVELOPMENT OF AUDIOVISUAL INTEGRATION IN PEDIATRIC COCHLEAR IMPLANT USERS $\it J. Ting, T. Bergeson$
11:53 am-12:00 noon	Questions and Answers
12:00 noon-1:00 pm	Lunch in Providence II & III

# **Poster Displays I with Authors**

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

# **Assessment and Candidacy**

#018	EVALUATING AUDIOGRAMS FOR COCHLEAR IMPLANT CANDIDACY: CAN WE AGREE ON WHO IS AN AUDIOLOGIC CANDIDATE?  J. Meinzen-Derr, S. Wiley, E. Arjmand
#019	CHILDREN WITH MODERATELY SEVERE OR WORSE SENSORINEURAL HEARING LOSS: AUDIOMETRIC REFERRAL CRITERIA FOR COCHLEAR IMPLANT S. Wiley, J. Meinzen-Derr, E. Arjmand
#020	COCHLEAR IMPLANT CANDIDACY: HARD DECISIONS MADE EASIER T. Howarth and the Glenrose Rehabilitation Hospital Cochlear Implant Team
#021	VALIDATION OF A MODIFIED COCHLEAR IMPLANT PROFILE (MCHIP) TOOL FOR USE IN PEDIATRIC COCHLEAR IMPLANT CANDIDACY 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
#022	EVOLUTION OF THE CHILDREN'S IMPLANT PROFILE (CHIP) INTO AN OUTCOME PREDICTION VERSUS PATIENT SELECTION TOOL  J. Meinzen-Derr, D. Choo, S. Wiley
#023	CANDIDACY PROFILE FOR PRELINGUAL PROFOUNDLY HEARING IMPAIRED ADOLESCENTS T. Shpak, L. Koren, N. Tzach, C. Peleg, M. Luntz

### **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 STAPEDIUS 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
- C. Finley, L. Holden, T. Holden, B. Whiting, M. Skinner

  #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 BAHA SOFTBAND: A NEW TREATMENT FOR YOUNG CHILDREN WITH BILATERAL CONGENITAL AURAL ATRESIA A. Snik, M. Hol, C. Verhagen, W. Coppens-Schellekens, C. Cremers GENETIC ANALYSIS OF NONSYNDROMIC HEARING LOSS IN THE INDIAN POPULATION #043P N. Vaid, G. Chandak, K. Godbole, J. Hemavathi THE FREQUENCY OF 35DELG IN PEDIATRIC COCHLEAR IMPLANT PATIENTS IN TWO #044P 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 CI100 COCHLEAR IMPLANT A. Jappel, W-D. Baumgartner, S. Reib, S. Hickmann, J.S. Hamzavi, I. Anderson PROSODY INFORMATION AND SPEAKER RECOGNITION IN FINE STRUCTURE PROCESSING #047P W. Harnisch, S. Brill, M. Bauer, A. Möltner, J. Müller, R. Hagen #048P CLINICAL AUDIT OF OUTCOMES IN COCHLEAR IMPLANTATION: AN INDIAN EXPIERENCE R. Goyal, K. Sharma SPEECH PERCEPTION IN DEGRADED LISTENING CONDITIONS AFTER LONG-TERM #049P **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 ASSESSING PARENTAL SELF-EFFICACY AND INVOLVEMENT USING AND EARLY #053P 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 COMPARISON OF SPEECH PERCEPTION SKILLS IN A MULTILINGUAL ENVIRONMENT #055P 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
- #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

  K. Johnson, J. DesJardin, M. Winter, M. Gillinger, L. Visser-Dumont, L. Eisenberg

### 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

	Outcome	s—Psyc	hosocial
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#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 PSYCHOSOCIAL AND PSYCHIATRIC ASSESSMENTS PRE AND POST IMPLANTATION FOR #076P 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 EXPLORING EXPECTATIONS AND PSYCHOLOGICAL DISTRESS IN PARENTS OF CHILDREN #078P WITH A COCHLEAR IMPLANT: A PILOT STUDY M. Suarez, M.C. Rodriguez PSYCHOSOCIAL IMPLICATIONS OF COCHLEAR IMPLANTATION IN CHILDREN USING #079P MANUAL COMMUNICATION M. Kokai, K.A. Gordon, H. Fisher, C. Kluge, D. Clutton, D. Papaioannou, B.C. Papsin #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 INDIVIDUAL PATTERNS IN VOCALIZATIONS BY YOUNG COCHLEAR IMPLANT RECIPIENTS: #084P VOCALIZATION TYPES, SEGMENTAL PATTERNS, AND COMBINATORY PROPERTIES H. Morrison, B. Davis, A. Warner-Czyz AFFRICATES AND AFFRICATION IN CHILDREN WITH COCHLEAR IMPLANTS #085P S.B. Chin, A.K. Kirk, J.K. An, A.P. Teoh PHONETIC PATTERNS OF SPEECH IN CHILDREN WITH COCHLEAR IMPLANTS #086P M. Sundarrajan, 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 PEDIATRIC SPEECH INTELLIGIBILITY TEST: COMPARISON OF TWO RECORDINGS #090P 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

SPEECH INTELLIGIBILITY AND SENTENCE DURATION AS A FUNCTION OF MODE OF #092P

COMMUNICATION IN COCHLEAR IMPLANTED CHILDREN

N. Wiessner, E. Tobey, A. Geers,

PRELINGUISTIC DEAFNESS: THE ROLE OF COCHLEAR IMPLANTATION IN PROMOTING #093P

**SPEECH** 

R. Abraham MD, J. Mouzakes MD, L. Artino AuD

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

#### **Concurrent Oral Sessions**

2 20 2 20

#### **SESSION A**

Grand C

### **Assessment and Candidacy**

Session Chair: S. Waltzman

2:30-2:38 pm	ACCURACY OF AUDIOMETRIC THRESHOLDS IN HEARING-IMPAIRED CHILDREN
#094	K. Gordon, M. Pienkowski
2:39–2:47 pm #095	DEVELOPING A SPEECH PERCEPTION TEST PROTOCOL FOR YOUNG CHILDREN J. Madell

THE ADOLESCENT COCHLEAR IMPLANT CANDIDATE: A GROUP IN TRANSITION 2:48-2:56 pm #096 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 #097

3:06-3:14 pm PERFORMANCE OUTCOMES FOR BORDERLINE COCHLEAR IMPLANT CANDIDATES M. Hughes, D. Neff, J. Simmons #098

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 #099 **COCHLEAR IMPLANT USERS** 

E. Propst, M.W. Crawford, C. Zaarour, A. James, M. White, C. Pehora, K. Trimble, S. Cushing,

K. Gordon, B. Papsin

3:33-3:41 pm COMPARISON OF INTRAOPERATIVE AND POSTOPERATIVE NEURAL RESPONSES USING #100 ADVANCED BIONICS AND COCHLEAR CORPORATION COHLEAR IMPLANT SYSTEMS

E. Jameyson, D. Plapinger, J. Hagan, S. McMenomey

UNRAVELING THE NEURAL RESPONSE RECORDINGS FROM COCHLEAR IMPLANTS 3:42-3:50 pm

#101 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 #102

> LOUDNESS: IMPLICATIONS FOR PROGRAMMING THE ADVANCED BIONICS COCHLEAR **IMPLANT SYSTEM**

S. Poissant, E. Bero, D. Lee

3:59-4:00 pm **Ouestions 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	Ouestions 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

2:57–3:05 pm #116	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. Wass, T. Ibertsson, B. Sahlen, M. Hallgren, B. Larsby, E. Mäki-Torkko
3:06-3:14 pm #117	FACTORS ASSOCIATED WITH SPEECH AND LANGUAGE OUTCOME FOR CHILDREN WITH COCHLEAR IMPLANTS IN DENMARK $\it L.M. Percy-Smith$
3:15–3:23 pm #118	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 #119	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 #120	MASTERY OF EMERGENT READING SKILLS IN CHILDREN WHO UNDERGO COCHLEAR IMPLANTATION PRIOR TO 24 MONTHS OF AGE D. Bervinchak, K. Ceh, J. Gross, S. Bowditch, H. Francis
3:48-3:56 pm #121	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 #122	EXPLORING EXPRESSIVE AND RECEPTIVE LANGUAGE PATTERNS IN CHILDREN WITH COCHLEAR IMPLANTS B.A. Barker, E.A. Walker
4:29–4:37 pm #123	AGE AT IMPLANTATION: OUTCOMES FOR CHILDREN IMPLANTED BY 12 MONTHS THOSE IMPLANTED AT 13 to 18 MONTHS D. Hammes, M. Willis, J. Thomas, L. Rotz
4:38–4:46 pm #124	BILATERAL COCHLEAR IMPLANTATION IN DEAF CHILDREN FROM FIVE TO EIGHTEEN MONTHS: EFFECT ON SPOKEN LANGUAGE SKILLS O. Wie
4:47–4:55 pm #125	3 SPECIAL CASE REPORTS ON CI USE E. Ungui
4:56–5:04 pm #126	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 #127	SELF-ESTEEM AND EMOTIONAL ADJUSTMENT IN CHILDREN WITH COCHLEAR IMPLANTS $E.\ Schorr,\ N.\ Fox,\ F.\ Roth$
5:19–5:27 pm #128	SOCIAL WELL-BEING OF DANISH CHILDREN WITH COCHLEAR IMPLANT COMPARED WITH NORMALLY HEARING CHILDREN L.M. Percy-Smith

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  B. Kammerer, M. Neault, L. O'Brien, S. Dawson, K. Stevens, S. Thomas, T. Clark
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 C.S. Kim, D.G. Hur, M.H. Suh, Y.H. Kim, S.O. Chang, S.H. Oh
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**

	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
4:55-5:00 pm	Questions and Answers
	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 T. Lenarz, R. Briggs, T. Stover, J. Pesch, R.D. Battmer, A. Lesinski-Schiedat, A. Buchner, M. Boehm
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

**Questions and Answers** 

5:54-6:00 pm

# **NOTES**

#### **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 #151	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 #152	PERCEPTUAL AUDITORY ABILITIES OF CHILDREN WITH AUDITORY NEUROPATHY F.G. Zeng
8:45–9:00 am #153	SPEECH AND LANGUAGE DEVELOPMENT IN CHILDREN WITH AN/AD TYPE HEARING LOSS $G.\ Rance$
9:05-9:20 am #154	MECHANISMS OF AUDITORY NEUROPATHY S. Shapiro
9:25–9:40 am #155	COCHLEAR NERVE DEFICIENCY IN CHILDREN C. Buchman
9:45–10:00 am	Refreshment Break
General Session IV	Auditory Nerve Assessment and Disorders
General Session IV	Auditory Nerve Assessment and Disorders  Grand Ballroom (Level Two)
General Session IV	•
General Session IV	Grand Ballroom (Level Two)
10:00-10:08 am #156	Grand Ballroom (Level Two)  Scientific Paper Presentations
10:00–10:08 am	Grand Ballroom (Level Two)  Scientific Paper Presentations  Session Chair: H. Teagle, P. Wackym  AUDITORY NERVE GROWTH FACTORS DERIVED FROM THE EARLY EMBRYONIC INNER EAR
10:00-10:08 am #156 10:09-10:17 am	Grand Ballroom (Level Two)  Scientific Paper Presentations  Session Chair: H. Teagle, P. Wackym  AUDITORY NERVE GROWTH FACTORS DERIVED FROM THE EARLY EMBRYONIC INNER EAR J.A. Germiller, H. Nardone, K. Challagulla, A. Vu, L. Bianchi, K. Barald  THE UTILITY OF ELECTRICAL ABR TESTING
10:00–10:08 am #156 10:09–10:17 am #157 10:18–10:26 am	Grand Ballroom (Level Two)  Scientific Paper Presentations  Session Chair: H. Teagle, P. Wackym  AUDITORY NERVE GROWTH FACTORS DERIVED FROM THE EARLY EMBRYONIC INNER EAR J.A. Germiller, H. Nardone, K. Challagulla, A. Vu, L. Bianchi, K. Barald  THE UTILITY OF ELECTRICAL ABR TESTING  G. Hashisaki, B. Kesser, A. Gardner, A. DeMichele, L. Grove, L. Bobsin, R. Ruth  FMRI OF AUDITORY FUNCTION IN CHARGE SYNDROME PRIOR TO COCHLEAR IMPLANTATION
10:00–10:08 am #156 10:09–10:17 am #157 10:18–10:26 am #158	Grand Ballroom (Level Two)  Scientific Paper Presentations  Session Chair: H. Teagle, P. Wackym  AUDITORY NERVE GROWTH FACTORS DERIVED FROM THE EARLY EMBRYONIC INNER EAR J.A. Germiller, H. Nardone, K. Challagulla, A. Vu, L. Bianchi, K. Barald  THE UTILITY OF ELECTRICAL ABR TESTING  G. Hashisaki, B. Kesser, A. Gardner, A. DeMichele, L. Grove, L. Bobsin, R. Ruth  FMRI OF AUDITORY FUNCTION IN CHARGE SYNDROME PRIOR TO COCHLEAR IMPLANTATION  L. Cahill, D. Mehta, M. Mecoli, D. Choo, S. Holland  INTRACOCHLEAR ECAP TESTING IN CHILDREN WITH AUDITORY NEUROPATHY
10:00–10:08 am #156 10:09–10:17 am #157 10:18–10:26 am #158 10:27–10:35 am #159 10:36–10:44 am	Grand Ballroom (Level Two)  Scientific Paper Presentations  Session Chair: H. Teagle, P. Wackym  AUDITORY NERVE GROWTH FACTORS DERIVED FROM THE EARLY EMBRYONIC INNER EAR J.A. Germiller, H. Nardone, K. Challagulla, A. Vu, L. Bianchi, K. Barald  THE UTILITY OF ELECTRICAL ABR TESTING  G. Hashisaki, B. Kesser, A. Gardner, A. DeMichele, L. Grove, L. Bobsin, R. Ruth  FMRI OF AUDITORY FUNCTION IN CHARGE SYNDROME PRIOR TO COCHLEAR IMPLANTATION  L. Cahill, D. Mehta, M. Mecoli, D. Choo, S. Holland  INTRACOCHLEAR ECAP TESTING IN CHILDREN WITH AUDITORY NEUROPATHY  J. Weinstock, H. Teagle, C. Buchman, C. Zdanski  AUDITORY-EVOKED POTENTIALS IN RESPONSE TO TEMPORAL CHANGES

11:02-11:10 am

**Questions and Answers** 

	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)

# **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 AUDITORY NEUROPATHY AND DOWN'S SYNDROME #180P R. Wetke, R. Hansen THE USE OF DIAGNOSTIC EABR IN THE CASE OF A CHILD WITH A LACK OF AUDITORY #181P **AWARENESS** A. Gardner, G. Hashisaki, A. De Michele, R. Ruth A METHOD OF OBJECTIVE HEARING NERVE FUNCTION EVALUATION: EXTRACOCHLEAR #182P ELECTROAUDIOMETRIC BRAINSTEM AUDITORY-EVOKED POTENTIALS V. Primako SCANNING LASER DOPPLER VIBROMETERY ROUND WINDOW AND TYMPANIC MEMBRANE #183P G. Ball, A. Huber, R. Goode #184P NEURAL RESPONSES TO AMPLITUDE MODULATION AND INTENSITY EFFECTS USING BINAURALLY MISMATCHED CARRIER FREQUENCIES D. Blanks, D. Fitzpatrick, E. Buss, J. Hall PHYSIOLOGICAL RESPONSES TO ELECTRICAL STIMULATION OF THE INFERIOR COLLICULUS #185P IN UNANESTHETIZED RABBITS D. Fitzpatrick, C. Finley, M. Ingraham, J. Roberts, O. Adunka, H. Pillsbury #186P BEHAVIORAL RESPONSES TO ELECTRICAL STIMULATION OF THE INFERIOR COLLICULUS IN

# **Bilateral Stimulation—CI-CI**

**RABBITS** 

#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 SEQUENTIAL BILATERAL COCHLEAR IMPLANTATION IN CHILDREN: A CASE STUDY #189P 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 BILATERAL BENEFIT IN TWINS IMPLANTED SIMULTANEOUSLY WITH TWO DEVICES #191P BEFORE 12 MONTHS OF AGE J. Thomas, M. Novak, D. Edmondson, A. Fiscus, S. Fuller, D. Hammes, L.A. Rotz, J. Wirth LOCALIZATION AND 3-D SPEECH PERCEPTION WITH THE FSP STRATEGY #192P 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

NOTETAKING ABILITIES OF ADULTS USING UNILATERAL AND BILATERAL COCHLEAR

A NORMAL-HEARING SIMULATION OF BILATERAL COCHLEAR IMPLANT STIMULATION

D. Fitzpatrick, C. Finley, M. Ingraham, J. Roberts, H. Pillsbury

**IMPLANTS** 

P.M. Chute, L. Spivak, M.E. Nevins, S. Gershovich

D. Blanks, D. Fitzpatrick, J. Hall, E. Buss

#195P

#196P

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. Skubisz, 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 CONVERATIONAL 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 K. Johnson, D. Barker, A. Quittner, J. DesJardin, M. Winter, L. Eisenberg
- #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 J. Olds, E. Fitzpatrick, P. Steacie, J. McLean, D. Schramm

#### **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

  A. Eriks-Brophy, A. Durieux-Smith, J. Olds, E. Fitzpatrick, R. Gaines, L. Moran, J. Whittingham
- #212P REHABILITATION FOR CHILDREN WITH COCHLEAR IMPLANT IN AUDITORY WEEKS S. van der Aa, P. Gulpen, J. Briaire, J. Frijns

‡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 S. O'Brien, S. Erenberg, A. Dhuldhoya, C. Etler, P. Abbas, C. Brown
- #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

#### **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

#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. Lundy
	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—OCCURRENCE 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 <sup>TM</sup> 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 W. Harnisch, S. Brill, J. Müller, R. Hagen, S. Dazert, T. Stark, A. Engel, T. Zahnert, D. Mürbe, K. Seeling, S. Helbig, U. Baumann, J. Maurer, M. Brauch, J. Kiefer, S.J. Brockmeier
#245P	IMPROVED PERFORMANCE WITH COCHLEAR IMPLANTS THROUGH FINE STRUCTURE PROCESSING P. Nopp, P. Schleich, A. Möltner, C. Zierhofer

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#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 L. Holden, J. Firszt, B. Kwon, T. Holden, R. Reeder, M. Skinner
#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 SONATATI100 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 TYMPANOTOMY 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

### **Concurrent Oral Sessions**

2:30-6:00 pm

#### **SESSION D**

Grand A & B

# Speech Processing—Temporal Coding, Preprocessing, New Designs

Session Chair: R. Schatzer, B. Wilson

Open Viewing of Poster Displays

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 #261	OPUS1—AN EAR-LEVEL SPEECH PROCESSOR FOR TEMPORAL FINE STRUCTURE STIMULATION STRATEGIES C. Zierhofer		
2:48–2:56 pm #262	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 #263	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 #264	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 #265	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. Schatzer, B. Wilson		
3:30–3:38 pm #266	IMPLEMENTATION OF PERCEPTUAL CHANNELS IN CHILDREN IMPLANTED WITH CLARION AND HIRES 90K IMPLANTS  P. Mancini, E. Bosco, D. Ballantyne, L. D'Agosto, G. Traisci, M. Viccaro, M. Nicastri, R. Filipo		
3:39–3:47 pm #267	P. Mantenti, E. Bosco, D. Battantyne, L. D'Agosto, G. Traisci, M. Viccaro, M. Nicastri, R. Filipo 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 #268	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 #269	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 #270	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 #271	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 #272	ELECTRICAL FREQUENCY-PLACE MAP IN SUBJECTS WITH NO OR MINOR HEARING LOSS K. Vermeire, A. Nobbe, P. Schleich, E. Aschbacher, M. Voormolen, P. Ven de Heyning		
5:09–5:17 pm #273	THRESHOLDS IN PEDIATRIC COCHLEAR IMPLANT RECIPIENTS: MULTIPLE-ELECTRODE AND POSITION EFFECTS  D. Clutton, K. Gordon, L. Hood		
5:18–5:26 pm #274	THE EFFECT OF INTENSITY UPON PITCH PERCEPTION: MONO- VERSUS BIPOLAR STIMULATION  C. Arnoldner, I.S. Hamzavi, D. Riss, W. Cstoettner, W.D. Baumgartner		

5:27–5:35 pm #275	NEURAL RESPONSE IMAGING, TEMPORAL INTEGRATION, AND LOUDNESS GROWTH IN HIRES 90K USERS  J. Wolfe, J. Ballard, D. Spiekermann
5:36–5:44 pm #276	CHANNEL INDEPENDENCE IN CHILDREN WITH COCHLEAR IMPLANTS K. Franck, M. Eisem, J. Kopelovich
5:45–5:53 pm #277	COCHLEAR IMPLANT CHANNEL SEPARATION AND ITS INFLUENCE ON SPEECH PERCEPTION: IMPLICATIONS FOR A NEW ELECTRODE DESIGN <i>J. Hamzavi, C. Arnolder, D. Riss, M. Brunner. W.D. Baumgartner</i>
5:54–6:02 pm #278	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 #279	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 #280	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 #281	THE ROLE OF ELECTRODE PLACEMENT AS A CONTRIBUTOR TO VARIABILITY AND OUTCOMES  M. Skinner, T. Holden, B. Whiting, A. Voie, E. Saxson, G. Neely, T. Hullar, C. Finley
2:57–3:05 pm #282	COCHLEAR IMPLANT ELECTRODE INSERTION THROUGH THE ROUND WINDOW P. Roland, C. Wright, B. Isaacson
3:06–3:14 pm #283	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 #284	SURGICAL TECHNIQUE AND EXPERIENCE WITH THE SONATA TI100 COCHLEAR IMPLANT B. Godey, J. Mueller, R. Hagen, W.D. Baumgartner, M. Sainz, S. Harris, A. Freijd, W. Mann, W. Gstoettner
3:24–3:32 pm #285	EFFECTS OF MILD HYPOTHERMIA DURING COCHLEAR IMPLANTATION: PRELIMINARY REPORT  T. Balkany, A.V. Hodges, T.R. Van De Water, A.A. Eshraghi, W.D. Dietrich, F.F. Telischi, S.I. Angeli, A. Fisher, L.B. Goodwin, Y. Shapira, S.S. Connell
3:33–3:41 pm #286	TREATMENT OF SEVERE GUSHER IN COCHLEAR IMPLANTATION L. Olgun, S.G. Gultekin, M.Z. Ozuer, T. Kandogan, M. Balaban
3:42–3:50 pm #287	VIBRANT SOUNDBRIDGE IN CHILDREN: FIRST EXPERIENCE IN MERAN C. Streitberger, L.S.Y. Lim, N. Giarbini
3:51–3:59 pm #288	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? L. O'Brien, S. Thomas, M. Neault, T. Clark, S. Dawson, J. Johnston, B. Kammerer, G. Licameli, D. Roberson, J. Harris, W. Levesque, M. Kenna
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-Marcacci, M. Luntz
2:30–2:38 pm #300	DOES UNILATERAL ACOUSTIC HEARING MAINTAIN THE CONTRALATERAL DEAF EAR FOR SUCCESSFUL COCHLEAR IMPLANTATION?  J.B. Firszt, R.M. Reeder, L.K. Holden, L.G. Potts, B.A. Holstad, V.G. Sonneveldt, B. Fears, J.H. Cadieux, L.S. Davidson, M.W. Skinner, D.K. Ryugo

2:39–2:47 pm #301	WHAT ARE THE INDICATIONS FOR BILATERAL COCHLEAR IMPLANTS VERSUS A COCHLEAR IMPLANT AND A HEARING AID IN THE NONIMPLANTED EAR?  L. Tonokawa-Marcacci, B. Highlander, A. Vranesic, M. Griffanti, J. Roberson, K. Stidham
2:48–2:56 pm #302	NATURAL HISTORY OF CONTRALATERAL RESIDUAL HEARING IN BINAURAL-BIMODAL HEARING M. Luntz, N. Yehudai, T. Shpak
2:57-3:05 pm #303	BIMODAL FITTING IN COMPARISON TO UNILATERAL AND BILATERAL COCHLEAR IMPLANTATION
#303	S. Ruehl, M. Boehm, T. Lenarz, A. Lesinski-Schiedat
3:06–3:14 pm #304	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 #305	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 #306	PEDIATRIC BILATERAL COCHLEAR IMPLANTS: THE PROGRAMMING AUDIOLOGIST'S PERSPECTIVE  M. Scott, D. Goldberg, P. Weber
3:39–3:47 pm #307	PROSPECTIVE EVALUATION OF BILATERAL COCHLEAR IMPLANT PERFORMANCE IN YOUNG DEAF CHILDREN: STUDY DESIGN CONSIDERATIONS B. Peters, M. Osberger
3:48–3:56 pm #308	BILATERAL VERSUS MONAURAL 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 #309	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 #310	BENEFITS OF BILATERAL IMPLANTS USING STATIC AND DYNAMIC STIMULI R. Tyler, C. Dunn, S. Witt, B. Gantz
4:38–4:46 pm #311	IMPACT OF BILATERAL PEDIATRIC COCHLEAR IMPLANTATION ON SPEECH PERCEPTION ABILITIES IN QUIET AND NOISE A. Biever, D. Kelsall
4:47–4:55 pm #312	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 #313	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 #314	SPEECH CHANGES IN ADULTS WITH UNILATERAL AND BILATERAL COCHLEAR IMPLANTS L. Marvin, P.M. Chute, K. Rapoza

# Time-Ordered Agenda

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. Desloovere, I. Dhooge, E. Offeciers, N. Deggouj, L. De Raeve
5:54-6:00 pm	Questions and Answers

#### SATURDAY, APRIL 14, 2007

# **General Session V** Bilateral Stimulation and Hair Cell Regeneration

Continental Breakfast in Providence II & III

Grand Ballroom (Level Two)

# **Invited Speakers**

	Invited Speakers
8:00-8:05 am	OVERVIEW C. Brown
8:05–8:20 am #319	EMERGENCE OF SPATIAL HEARING ABILITIES IN BILATERALLY IMPLANTED CHILDREN $\it R.\ Litovsky$
8:25–8:40 am #320	CONTRALATERAL HEARING AIDS IN PATIENTS WITH COCHLEAR IMPLANTS: BENEFITS AND LIMITATIONS P. Kileny
8:45–9:00 am #321	PROCEDURES PROPOSED FOR A RANDOMISED CONTROLLED TRIAL OF BILATERAL PAEDIATRIC COCHLEAR IMPLANTATION Q. Summerfield
9:05–9:20 am #322	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**

7:00-8:00 am

# **SESSION G**

Grand C

# **Plasticity and Development**

	Session Chair: J. Firszt, J. Rubinstein
9:50–9:58 am #323	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 #324	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 #325	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 #326	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 #327	RESULTS OF CHILDREN WITH SEQUENTIALLY 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 #328	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 #329	DOES UNILATERAL ACOUSTIC HEARING MAINTAIN THE CONTRALATERAL DEAF EAR FOR SUCCESSFUL COCHLEAR IMPLANTATION?  J.B. Firszt, R.M. Reeder, L.K. Holden, L.G. Potts, B.A. Holstad, V.G. Sonneveldt, B. Fears, J.H. Cadieux, L.S. Davidson, M.W. Skinner, D.K. Ryugo	
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	
	<del></del>	
	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	INTERDISIPLINARY 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 F. Lin, K. Ceh, D. Bervinchak, A. Riley, R. Miech, J. Niparko	
11:09–11:17 am #341	THE IMPACT OF INFANT HEARING SCREENING ON COMMUNICATION DEVELOPMENT E. Fitzpatrick, A. Durieux-Smith, J. Olds, A. Eriks-Brophy, D. Schramm	
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	LONG-TERM BENEFITS OF COCHLEAR IMPLANTATION IN PRESCHOOL
#343	A.E. Geers, J.S. Moog, E.A. Tobey, C.A. Brenner
9:59-10:07 am	MAINSTREAM ASSESSMENT OF READINESS FOR CHILDREN OVER FIVE

C. Robinson #344

SCHOOL EDUCATION, OUT OF SCHOOL EDUCATION, VOCATIONAL TRAINING AND 10:08-10:16 am EMPLOYMENT STATUS OF YOUNG PEOPLE WHO GREW UP WITH COCHLEAR IMPLANTS #345

M. Huber, W. Hitzl, K. Albegger

10:17-10:25 am THE COST AND ANALYSIS OF NONUSE OF COCHLEAR IMPLANTS #346 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 INCREASED SENSITIVITY FOR RELIABILITY REPORTING USING A NEW DEFINITION OF #347 **FUNCTION** 

RELIABILITY OF COCHLEAR IMPLANTS IN CHILDREN 10:39-10:47 am

S.D. Watson, A.H. Zarkos, D.D. Backous

#348 R.D. Battmer, B. Linz, T. Lenarz

10:48-10:56 am COCHLEAR IMPLANT REPLACEMENT WITH A DIFFERENT IMPLANT SYSTEM

> K. Franck, J. Germiller #349

FAILED EXTRACTION OF ELECTRODE AND POSITIONER DURING REVISION OF CLARION 10:57-11:05 am

#350 COCHLEAR IMPLANT

S. Telian, T. Zwolan, P. Kileny

11:06-11:14 am IMPACT OF EXPLANTATION AND REIMPLANTATION ON COCHLEAR IMPLANT

> PERFORMANCE FOR 16 COCHLEAR IMPLANT RECIPIENTS #351

D. Kelsall, A. Biever

COCHLEAR REIMPLANTATION: INDICATIONS AND RESULTS IN CHILDREN 11:15-11:23 am

> #352 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

The Clinic Perspective—Internal Device Reliability 12:05-12:15 pm

C. Buchman

12:15-12:25 pm The Clinic Perspective—External Device Reliability

M. Syms

12:25-12:35 pm Findings of the Consenusus Group

R. Battmer

Soft Failures Consensus Statement 12:35-12:45 pm

T. Balkany

# Time-Ordered Agenda

12:45–12:55 pm	Reporting of Problems and Failures D. Backous
	<b>Diagnostic Internal Device Testing and Results</b>
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**