



Maximizing Performance in CI Recipients: Programming Concepts

December 8-9, 2019



Faculty

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Vanderbilt Bill Wilkerson Center

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Director, Archie's Cochlear Implant Laboratory
The Hospital for Sick Children

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Oticon Medical

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Mendik Foundation Chairman
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Advanced Bionics Corporation

Josh Stohl, PhD

Director of MED-EL's North American Research Laboratory

Susan B. Waltzman, PhD

Marica F. Vilcek Professor of Otolaryngology
Co-Director, NYU Cochlear Implant Center

Jace Wolfe, PhD

Director of Audiology and Research
Hearts for Hearing

Teresa Zwolan, PhD

Professor and Director
University of Michigan Cochlear Implant Program

Course Description:

This course will address topics related to routine and special programming issues and methods in pediatric and adult recipients. It will also present new and promising techniques to assist in programming, including objective measures. Special consideration will be given to the programming of bimodal, electro-acoustic and SSD fittings. Updates on additional topics included animal studies for cochlear implant use, surgical advancements in cochlear implants, improving clinic efficiency and the clinical care model. Format will include lectures, roundtable discussions, audience participation, and dedicated time for participants to visit manufacturer technology suites. Special emphasis will be placed on case studies submitted by attendees!

Learning Outcomes:

After taking this course participants will be able to:

1. Define an Evidence Based Model
2. Identify two examples of how data is being used to provide insights into the clinical management of the Adult CI recipient
3. Describe mapping considerations specific to cochlear implant recipients with normal to near-normal hearing in the contralateral ear
4. List mapping techniques that may influence initial performance with the cochlear implant in this population
5. Describe how human ecology can impact cochlear implant outcomes
6. Describe two recipient behaviors that SLPs may observe that could aid programming audiologists
7. List two programming variables that can be manipulated to improve speech perception errors
8. Explain the state-of-the-art of neuroscience studies of cochlear implant use in rodents
9. Describe evidence-based fitting strategies for the hearing aid and cochlear implant for maximum bimodal benefit
10. Describe expected benefit afforded by different bimodal fitting strategies such as coordinated AGC and binaural beamforming
11. Describe expected benefit(s) from amplifying acoustic hearing in implanted ear(s)
12. Describe fitting strategies aimed to maximize efficacy of combined electric and acoustic stimulation (EAS) for hearing preservation patients
13. Describe the improvements in language development after teletherapy in 'at-risk' children
14. Discuss the relationship between the amount of teletherapy and the magnitude of improvement in receptive language
15. Explain to patients the importance of bilateral hearing
16. Define the consequences of poorly matched bilateral devices in children
17. Identify steps to reduce non-billable time in the clinic
18. Evaluate CI program to determine methods of improving efficiency

19. The attendee with understand the potential advantages of perimodiola electrodes
20. The attendee with understand current techniques and rationale for cochlear implantation under local anesthesia
21. Describe how maximize the benefit of hearing assistive technologies through the optimization of device programming and adjustments
22. Describe how to counsel recipients to maximize the benefit received by hearing assistive technology
23. Describe how cortical auditory evoked response assessment may be used within a battery of measures to determine cochlear implant candidacy
24. Describe how cortical auditory evoked response assessment may be incorporated into the cochlear implant programming process
25. Describe how functional near infrared spectroscopy (fNIRS) may be used evaluate auditory brain development of children with cochlear implants
26. Describe how functional near infrared spectroscopy (fNIRS) may be incorporated into the cochlear implant programming process
27. Utilize the National Correct Coding Initiative Edits to maximize their coding and reimbursement
28. List various billing modifiers that can be used to maximize payment for audiological test procedures that have been performed with cochlear implant recipients

To register, please visit the following website: <https://www.eventbrite.com/e/maximizing-performance-in-cochlear-implant-recipients-tickets-61600870863>

Course Fee: \$150 USD

Location:

CUNY Graduate Center
365 Fifth Avenue (at 34th Street)
New York, NY 10016

Presenter's financial and non-financial interests relevant to the content of their presentation for the Maximizing Performance in Cochlear Implant Recipients: Programming Concepts Conference is attached to this brochure and posted on our website at:
<https://med.nyu.edu/departments-institutes/otolaryngology-head-neck-surgery/divisions-centers/cochlear-implant-center>

Agenda: Sunday, December 8, 2019

8:30am Registration & Continental Breakfast

9:15am Welcome – *Susan Waltzman, PhD*

9:20am Opening Remarks – William Shapiro, AuD

Session 1

Moderator: William Shapiro, AuD

9:30am Use of Human Ecology to Explain Outcomes with Cochlear Implants
Camille Dunn, PhD

9:45am Improving Clinic Efficiency:
Meredith Holcomb, AuD

10:00am Billing, Coding & Reimbursement for CI Programming – *Teresa Zwolan, PhD*

10:15am Role of the SLP in Device Programming
Allison Biever, AuD

10:30am Q & A

11:00am Break

Session 2

Moderator: William Shapiro, AuD

11:30am Surgical Advancements with Cochlear Implantation
J. Thomas Roland, Jr, MD

11:50am Role of functional near infrared spectroscopy (fNIRS) in the Management of CI Recipients
Jace Wolfe PhD

12:10pm What Can We Learn From Animal Studies of Cochlear Implant Use and Training
Robert Froemke, PhD

12:30pm Q & A

1:00-2:30pm Lunch/ Tech Suites & Exhibits

Session 3

Moderator: William Shapiro, AuD

2:30pm Effectiveness of teletherapy at facilitating language development in at-risk children with hearing loss
Matthew Fitzgerald, PhD

2:50pm ECoG – *Erin Castioni, AuD*

3:10pm Bimodal Myth Busting: Programming for Maximizing Bimodal Outcomes – *Rene Gifford, PhD*

3:30pm Role of Cortical Auditory Evoked Response Assessment in Pre- and Post-Cochlear Implantation Management – *Jace Wolfe, PhD*

3:50pm Clinical Care Model – *Barb Buck, AuD*

4:10pm Q & A

5:00pm Cocktail Reception – Meet the Speakers

6:15pm Adjourn

Agenda: Monday, December 9, 2019

Session 4 - Moderator: William Shapiro, AuD

8:30am Management of the Difficult Patient: Expert Panel
(Cases submitted by participants)
Faculty/ Audience Participation

10:00am Q & A

Session 5 - Moderator: Susan Waltzman, PhD

10:30am Issues in Programming Single-Sided Deafness: Kids and Adults – *Margaret Dillon, AuD*

10:45am My Patient has Preserved Hearing: Now What?
Rene Gifford, PhD

11:00am Matching Device Parameters in Children Receiving Bilateral CIs: Why and How – *Karen Gordon, PhD*

11:15am Maximizing CI Outcomes with the Use of Hearing Assistive Technology – *Jace Wolfe, PhD*

11:30am Break

Session 6 - Moderator: Susan Waltzman, PhD

11:50am Manufacturers Panel: Clinical and Research Update

Advanced Bionics – Tony Spahr, PhD

Cochlear Corporation – Phil Segel, BSEE

MED-EL – Josh Stohl, PhD

Oticon Medical – Ed Overstreet, PhD

12:50pm Summary

1:00pm Adjourn

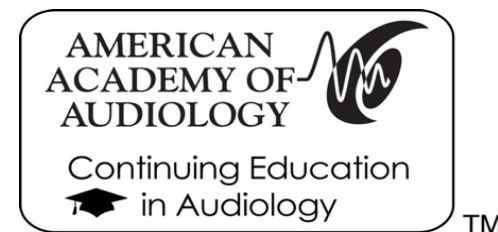
Continuing Education Credits:



The Children's Hearing Institute is approved by the Continuing Education Board of the American Speech-Language-Hearing Association (ASHA) to provide continuing education activities in speech-language pathology

and audiology. **See course information for number of ASHA CEUs, instructional level and content area.** ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

This course is offered for up to 0.95 ASHA CEUs
(Intermediate Level; Professional Area)



The Children's Hearing Institute is approved by the American Academy of Audiology to offer Academy CEUs for this activity. The program is worth a maximum of 0.9 CEUs. Academy approval of this continuing education activity is based on course content only and does not imply endorsement of course content, specific products or clinical procedure, or adherence of the event to the Academy's Code of Ethics. Any views that are presented are those of the presenters/CE Provider and not necessarily of the American Academy of Audiology.



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Presenter Disclosures

In Compliance with requirements of ASHA's Continuing Education Board concerning transparency in course planning, delivery, and marketing, we provide the following information on speaker's financial and non-financial interests relevant to the content of their presentation at this course.

PRESENTER	COURSE TITLE	Relevant Financial Interest	Relevant Non- Financial Interest
		**All presenters will be given complimentary meals at conference and free registration	
Allison Biever, AuD	Role of the SLP in Device Programming	Receives a salary from Rocky Mountain Ear Center	Member of ACIA (American Cochlear Implant Alliance)
Barbara Buck, AuD	Clinical Care Model	Receives a salary from Cochlear Americas	NONE
Erin Castioni, AuD	ECoG	Receives a salary from Advanced Bionics	NONE
Margaret Dillon, AuD	Issues in programming single sided deafness	Receives a salary from UNC. Supported/contracted research for Med-El Corporation	NONE
Camille C. Dunn, PhD	Real world assessment of Cochlear implant benefit	Receives funding from NIDCD and DOD. Receives salary from Univ of Iowa. Receives consulting fees from Cochlear America, Med-El, & Advanced Bionics	NONE
Matthew Fitzgerald, PhD	Effectiveness of Teletherapy	Receives a Salary from Stanford University	NONE
Robert Froemke, PhD	What can we learn from animal studies of CI use and training	Receives a salary from NYU Langone Medical Center	NONE
Rene Gifford, PhD	My patient has preserved hearing – now what?	Receives salary from Vanderbilt Bill Wilkerson Ctr, receives consulting fees from Advanced Bionics and Cochlear, Supported/Contracted research from Advanced Bionics, Cochlear, Med-El, (participating in an industry sponsored FDA trial)	NONE

Karen Gordon, PhD	Matching device parameters in children receiving bilateral cochlear implants – why and how?	Receives a salary from Hosp for Sick Children, consulting fees from Cochlear, Salus University, Gov't of Canada. Supported/contracted research from CIHR.	NONE
Meredith Holcomb, AuD	Improving Clinical Efficiency	Receives salary from Univ. of Maine, consulting fees from ASHA, Audiology Online, ICIT, and Advanced Bionics. Supported/contracted research from Med-El.	Member American Cochlear Implant Alliance
Ed Overstreet, PhD	Manufacturers Panel	Receives a salary from Oticon Medical	NONE
J. Thomas Roland, MD	Surgical advancements with cochlear implants	Receives a salary from NYU Langone, consulting fees from Cochlear Americas	NONE
Phil Segel, BSEE	Manufacturers Panel	Receives a salary from Cochlear Americas	NONE
William Shapiro, AuD	Planner/Moderator	Receives a salary from NYU Langone	NONE
Tony Spahr, PhD	Manufacturers Panel	Receives a salary from Advanced Bionics	NONE
Josh Stohl, PhD	Manufacturers Panel	Receives a salary from Med-El Corporation	NONE
Susan B Waltzman, PhD	Planner/Moderator	Receives a salary from NYU Langone	NONE
Jace Wolfe, PhD	Roles in spectroscopy, cortical auditory evoked responses and outcomes	Receives a salary form Hearts for Hearing, Cochlear Americas, and Phonak. NYU Langone paid for travel to the conference.	Board Member at Cochlear Americas and Phonak
Teresa Zwolan, PhD	Billing, coding and reimbursement for CI Programming	Receives a salary from Univ of Michigan, consulting fees from Cochlear Americas, Envoy Medical, Memstim, Supported/Contracted research from Cochlear Americas	NONE