

BETH A. HOLSTAD, AuD CCC-A FAAA
Board Certified in Audiology with a Specialty in Cochlear Implants
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EDUCATION

Central Michigan University/Vanderbilt BWC
Doctor of Audiology
2010

Washington University, St. Louis, Missouri
M.S. Speech and Hearing
1989

The University of Iowa, Iowa City, Iowa
Independent Student Research, Post B.S. Study
1987

The University of Iowa, Iowa City, Iowa
B.S. Speech and Hearing Science
1986

CERTIFICATION & LICENSURE

Cochlear Implant Specialist Certification, The American Board of Audiology

Board Certified in Audiology, The American Board of Audiology

Clinical Audiologist License, The State of Missouri

Certificate of Clinical Competence (CCC-A), American Speech Language Hearing Association

PROFESSIONAL WORK EXPERIENCE

1996-present Pediatric Audiologist
The Moog Center for Deaf Education, St. Louis, Missouri

1989-1996 Pediatric Audiologist
Central Institute for the Deaf School & Clinics, St. Louis, Missouri

1986-1987 Electronystagmography Technician
Department of Otolaryngology, The University of Iowa Hospitals & Clinics, Iowa City, Iowa

1985-1987 Hearing Aid Technician/Office Assistant
Hearing Aid Services, Inc., Coralville, Iowa

ORGANIZATIONS

The American Academy of Audiology – Fellow Member
The American Board of Audiology

RESEARCH EXPERIENCE

Principal Investigator, Cochlear Corporation supported project: Evaluation of Cochlear™ Nucleus® 5 and Freedom Sound Processor Program Environments. The Moog Center for Deaf Education, July-September 2010.

Principal Investigator, Doctoral Research Project, Central Michigan University: Feasibility pilot of the Gaps-In-Noise (GIN) test in early implanted, orally educated children with typical language development. Committee Director: Tharpe AM. The Moog Center for Deaf Education, St. Louis, April 2009-May 2010.

Co-Investigator, National Institutes of Health supported project: Strategies to optimize benefit from a cochlear implant IV: Further development of a protocol for fitting speech processor Maps in newly implanted children. Principal Investigator: Skinner, MW. The Moog Center for Deaf Education, St. Louis, September 2002-November 2007.

Co-Investigator, National Institutes of Health supported project: Strategies to optimize benefit from a cochlear implant IV: The Effect of Instantaneous Input Dynamic Range Setting on the Speech Perception of Children with the Nucleus 24 Implant. Principal Investigator: Skinner, MW. The Moog Center for Deaf Education, St. Louis, June 2006-August 2006.

Co-Investigator, National Institutes of Health supported project: Strategies to optimize benefit from a cochlear implant IV: Relation between electrode's minimum and maximum stimulation levels in a child's Nucleus 24 Cochlear Implant Map. Principal Investigator: Skinner MW. The Moog Center for Deaf Education, St. Louis, July-December 2003.

Research Audiologist, National Institutes of Health supported project: Cochlear Implants and Education of the Deaf Child. Principal Investigators: Moog JS, Geers A. Central Institute for the Deaf, St. Louis, July, 1996.

Research Audiologist, National Institutes of Health supported project: Cochlear Implant Project. Principal Investigators: Moog JS, Geers A. Central Institute for the Deaf, St. Louis, 1989-1991.

Research Assistant, National Institutes of Health supported project: Audiovisual Laserdisc Lipreading Training Project. Principal Investigator: Tye-Murray, N. Department of Otolaryngology, The University of Iowa Hospitals & Clinics, Iowa City, 1986-87.

Independent Study Student, Cochlear Implant Test Development: Sentence Matrix Test for Hearing-Impaired Children. Supervisor: Tyler, R. Department of Speech Pathology & Audiology, The University of Iowa, Iowa City, 1986-1987.

TEACHING EXPERIENCE

Washington University School of Medicine Program in Audiology and Communication Sciences. Amplification Systems and Aural Rehabilitation for Children, Course 444. Understanding and Troubleshooting FM Systems in the Classroom. October 31, 2011 and November 7, 2011.

LSLS Lecture Series for Deaf Educators and Speech Language Pathologists at the Moog Center for Deaf Education. Verification of Auditory Skill Development: Speech Perception Testing. St. Louis, March 5, 2008 and March 11, 2008.

Moog Lecture Series for Deaf Educators and support staff at the Moog Center for Deaf Education. Cochlear Implant, Hearing Aid, FM System, Genetics Lectures. St. Louis, 2004-2006.

Moog Lecture Series for Fontbonne University and University of Southern Illinois practicum students. Cochlear Implant Lecture. Understanding Cochlear Implants. St. Louis, 1996-2004.

Moog Lecture Series for Deaf Educators and support staff at The Moog Center for Deaf Education. Cochlear Implant Lecture. Understanding Cochlear Implants. St. Louis, 1996-2003.

Texas Woman's University Communication Science & Disorders Department. Cochlear Implant Course. Understanding Cochlear Implants. Denton, February 1999-2001.

Washington University Speech & Hearing Department. Educational Audiology Course. Otoscopy, Tympanometry and Speech Perception Testing. St. Louis, 1993-1996.

Washington University Speech & Hearing Department. Behavior Management Course. Child Management & Audiology. St. Louis, 1993-1996.

Washington University Speech & Hearing Department. History and Trends Course. Genetic Syndromes Associated with Hearing Impairment. St. Louis, 1993-1996.

University of Missouri - St. Louis, Research in Psychology/ Exceptional Individual Course. Hearing Loss and Cochlear Implants. St. Louis, 1995.

PRESENTATIONS

National

Feasibility pilot of the Gaps-In-Noise (GIN) test in early implanted, orally educated children with typical language development. Holstad BA, Tharpe AM. 13th International Conference on Cochlear Implants in Children, Chicago, Illinois, July 13-16, 2011. (Poster)

The Effect of Instantaneous Input Dynamic Range (IIDR) on the Speech Perception of Children with the Nucleus 24 Implant. Davidson L, Fears B, Holstad B, Richter M, Matusofsky M, Skinner M, Brenner C, Birath A, and Kettel J. Conference on Implantable Auditory Prostheses, Lake Tahoe, California, July 15-20, 2007. (Poster)

Does Unilateral Acoustic Hearing Maintain the Contralateral Deaf Ear for Successful Cochlear Implantation. Firszt JB, Reeder RM, Holden LG, Potts LG, Holstad BA, Sonneveldt VG, Fears B, Cadieux JH, Davidson LS, Skinner MW, Ryugo DK. 11th International Conference on Cochlear Implants in Children, Charlotte, North Carolina, April 11-14, 2007.

The Effect of Instantaneous Input Dynamic Range (IIDR) on the Speech Perception of Children with the Nucleus 24 Implant. Davidson L, Fears B, Holstad B, Richter M, Matusofsky M, Skinner M, Brenner C, Birath A, and Kettel J. 11th International Conference on Cochlear Implants in Children, Charlotte, North Carolina, April 11-14, 2007.

NRT Stability and Correlation with Optimized MAPs in Children. Holstad BA, Sonneveldt VG, Davidson LS. 9th Symposium on Cochlear Implants in Children, Indianapolis, May, 2004. (Poster)

Performance Variability of Body Worn versus Ear Level Cochlear Implant Speech Processors. Holstad BA, Sonneveldt VG. 8th Symposium on Cochlear Implants in Children, Washington D.C., March, 2003. (Poster)

A Team Approach for Young Children with Cochlear Implants. Holstad BA, Brooks BM. American Speech-Language-Hearing Association Conference, Atlanta, November, 2002.

Children with Cochlear Implants: MAPPING the Road to Success. Holstad BA, Biedenstein J. American Speech-Language-Hearing Association Conference, New Orleans, November, 2001.

Congenital Auditory Neuropathy and Amplification: A Rehabilitation Model Using DPOAE Monitoring. Holstad, BA. Symposium on Hearing in Infants – Marion Downs Institute, Colorado Springs, July 1998.

Congenital Auditory Neuropathy and Amplification: A Rehabilitation Model Using DPOAE Monitoring. Holstad BA, Rabbitt-Park K. Auditory Neuropathy Conference, Los Angeles, July 1998. (Poster)

FM Systems: Beyond the Initial Investment. Davidson LS, Holstad BA. American Speech-Language-Hearing Association Conference, Anaheim, November, 1993. (Poster)

Connected Discourse Tracking with Profoundly Hearing-Impaired Children. Davidson LS, Holstad BA. American Speech-Language-Hearing Association Conference, San Antonio, November, 1992. (Poster)

Reassessment of the Role of the Educational Audiologist. Davidson LS, Holstad BA. Alexander Graham Bell Association for the Deaf International Conference, San Diego, June, 1992. (Poster)

Reassessment of the Role of the Educational Audiologist. Davidson LS, Holstad BA. American Speech-Language-Hearing Association Conference, Seattle, November, 1990.

Regional

Understanding your Cochlear Nucleus 5 Remote Features. Holstad BA. Moog Parent Lecture Series, St. Louis, Missouri, October 13, 2010 and December 3, 2010.

FM Systems: The Increasing Use and Value in Mainstream Classrooms. Holstad BA. Strategies for Professionals: Supporting Mainstreamed Students with Hearing Loss Workshop, St. Louis, Missouri, September 20, 2010.

Complaints: Common and Not So Common. Holstad BA. Pediatric Cochlear Implant Programming Workshop, St. Louis, Missouri, January 21, 2010.

Getting Started: Before the Beeps. Holstad BA. Pediatric Cochlear Implant Programming Workshop, St. Louis, Missouri, January 21, 2010.

Objective Measures in Cochlear Implant Programming. Holstad BA. Pediatric Cochlear Implant Programming Workshop, St. Louis, Missouri, January 20, 2010.

Training & Using Loudness Scaling and Balancing. Holstad BA. Pediatric Cochlear Implant Programming Workshop, St. Louis, Missouri, January 20, 2010.

FM Systems: The Increasing Use and Value in Mainstream Classrooms. Strategies for Professionals: Supporting Mainstreamed Students with Hearing Loss Workshop, St. Louis, Missouri, September 20, 2009.

FM Systems: The Increasing Use and Value in Mainstream Classrooms and Extracurricular Activities. Holstad BA. Moog Parent Lecture Series, St. Louis, Missouri, May 27, 2009.

Validation 1: Tracking Auditory Skills Through Speech Perception Testing. Holstad BA. The ABC Workshop: Abilities-based Cochlear Implant Programming for Infants and Young Children, St. Louis, Missouri, January 24, 2009.

Objective Measures in Cochlear Implant Programming. Holstad BA. The ABC Workshop: Abilities-based Cochlear Implant Programming for Infants and Young Children, St. Louis, Missouri, January 24, 2009.

Follow-Up: Reprogramming and Other Issues. Holstad BA. The ABC Workshop: Abilities-based Cochlear Implant Programming for Infants and Young Children, St. Louis, Missouri, January 24, 2009.

Getting Started: Before the Beeps. Holstad BA. The ABC Workshop: Abilities-based Cochlear Implant Programming for Infants and Young Children, St. Louis, Missouri, January 23, 2009.

FM Systems: The Increasing Use and Value in Mainstream Classrooms. Holstad BA. The Moog Center for Deaf Education Mainstream Workshop, St. Louis, Missouri, October 8, 2008.

Cochlear Implants: Current Technology & Future Directions. Holstad BA. Presented to parents of children in Geers & Moog NIH study "Long-term Outcomes of Cochlear Implantation in Early Childhood", St. Louis, Missouri, July 24, 2008 and July 31, 2008.

Bilaterals: Is Two Better Than One? How They Are Doing. Holstad BA. Moog Pediatric Cochlear Implant Programming Workshop, St. Louis, Missouri, January 25, 2008.

Verification: Speech Perception Measures. Holstad BA. Moog Pediatric cochlear Implant Programming Workshop, St. Louis, Missouri, January 24, 2008.

Device Similarities & Differences: Knowing the Details. Holstad BA. Moog Pediatric Cochlear Implant Programming Workshop, St. Louis, Missouri, January 24, 2008.

FM Systems: Plug & Go? Not Anymore. Use & Troubleshooting. Holstad BA. Moog Parent Lecture Series, St. Louis, Missouri, January 14, 2008.

FM Systems: Plug & Go? Not Anymore. Use & Troubleshooting. Holstad BA. Presented to Moog Curriculum School Directors, St. Louis, Missouri, November 27, 2007.

Cochlear Implants: Current Technology & Future Directions. Holstad BA. Presented to Moog Curriculum School Directors, St. Louis, Missouri, October 24, 2007.

Cochlear Implants: Current Technology & Future Directions. Holstad BA. Presented to parents of children in Geers & Moog NIH study "Long-term Outcomes of Cochlear Implantation in Early Childhood", St. Louis, Missouri, July 26, 2007 and August 2, 2007.

FM Systems: Making the Correct Choice. Holstad BA. Moog Parent Lecture Series, St. Louis, Missouri, April 17, 2007.

Speech Perception: Measuring Progress in Auditory Skill Development. Holstad BA. Moog Pediatric Audiologist Workshop, St. Louis, Missouri, January 26, 2007.
What Do They Hear? The Value of Speech Perception Testing. Holstad BA. Moog Pediatric Audiologist Workshop, St. Louis, Missouri, January 26, 2007.

Adjustments That Make Sense: Using Scores, Teacher, Therapist and parent Reports to Guide MAP Adjustments. Holstad BA. Moog Pediatric Audiologist Workshop, St. Louis, Missouri, January 25, 2007.

Cochlear Implants: Current Technology & Future Directions. Holstad BA. Presented to parents of children in Geers & Moog NIH study "Long-term Outcomes of Cochlear Implantation in Early Childhood", St. Louis, Missouri, July 27, 2006 and August 3, 2006.

Devices for the Hearing Impaired-Understanding Today's Technology. Holstad BA. Wentzville School District Speech Language Pathologists, Wentzville, Missouri, April, 2006.

Devices for the Hearing Impaired-Understanding Today's Technology. Holstad BA, Wentzville School District Deaf Educators, Wentzville, Missouri, March, 2006.

Assessing Auditory Abilities: What do we hear and how does it help? Holstad BA, Moog JS. Moog Curriculum Schools Consortium, St. Louis, June, 2005.

Congenital Auditory Neuropathy and Amplification: A Rehabilitation Model Using DPOAE Monitoring. Rabbitt-Park K, Holstad BA. Missouri Speech, Language, Hearing Association Conference, St. Louis, March, 1999.

Cochlear Implants and Auditory Training for Children and Youth. Holstad BA. State of New Jersey, Department of Educational Programs for the Deaf/Hard of Hearing, Summit Speech School, Providence, Rhode Island, Summer, 1997.

Understanding Your Child's Hearing Loss. Holstad BA. The Moog Center for Deaf Education Annual Summer Workshop for Parents, St. Louis, 1997-2003.

Understanding Mainstream Devices for the Hearing Impaired Child. Holstad BA. The Moog Center for Deaf Education Annual Mainstream Seminar for Teachers and Professionals, St. Louis, 1997-2005.

Understanding Your Child's Audiologic Needs in the Mainstream. Holstad BA. The Moog Center for Deaf Education, Parents as Advocates for their Mainstream Child, St. Louis, 1996-2004.

Cochlear Implants in Children: Rehabilitative Techniques. Davidson LS, Holstad BA. Central Institute for the Deaf Spring/Summer Institutes, St. Louis, 1993-1996.

Reassessment of the Role of the Educational Audiologist. Davidson LS, Holstad, BA. Missouri Speech and Hearing Association Conference, St. Louis, April 1990.

PUBLICATIONS AND MANUSCRIPTS

Holstad, BA. FM Systems. In J. R. Madell & C. Flexer (Eds.), *Pediatric Audiology Casebook* (233–243). New York: Thieme Medical Publisher. 2011.

Holstad BA, Tharpe AM. Feasibility pilot of the Gaps-In-Noise (GIN) test in early implanted, orally educated children with typical language development. Doctoral Research Project, Central Michigan University, May 2010.

Davidson LS, Skinner MW, Holstad BA, Fears BT, Richter MK, Matusofsky M, Brenner C, Holden T, Birath AL, Kettel JL, Scollie, S. The Effect of Instantaneous Input Dynamic Range Setting on the Speech Perception of Children with the Nucleus 24 Implant. *Ear and Hearing*, June 2009, Vol 30 (3), 340-349.

Holstad BA, Sonneveldt VG, Fears BT, Davidson LS, Aaron RJ, Richter M, Matusofsky M, Brenner CA, Strube M, Skinner MW. Comparison of Electrically Evoked Compound Action Potentials Measured Using Neural Response Telemetry with Well-Fit Cochlear Implant Program T- and C-Levels in Children. *Ear and Hearing*, February 2009, Volume 30, Issue 1.

Holstad BA, Aaron RJ, Sonneveldt VG. Advances in FM Technology and Customized Fitting Protocols Mean Better Listening in Noise for Children with Cochlear Implants. *NECCI News*, Volume 13, No. 2, Winter 2003.

Holstad BA. Regenerative capabilities of the rat seventh nerve using suture and collagen splint techniques: a comparative study. *Independent Studies and Capstones*. Paper 28. Program in Audiology and Communication Sciences, Washington University School of Medicine. 1989. http://digitalcommons.wustl.edu/pacs_capstones/28

Tyler RS, Holstad BA. A Closed-Set Speech Perception Test for Hearing-Impaired Children (IOWA). University of Iowa, Iowa City, IA. 1987.

ADVANCED TRAINING

- 2006-present Med EL Cochlear Implant Advanced Training Workshop
- 1992-present Cochlear Corporation Advanced Training Workshops
- 1996-present Advanced Bionics Advanced Training Workshops
- 1996-present Widex, Phonak, Siemens, Unitron, Oticon, ReSound, Hearing Aid / FM Training Workshops

PROFESSIONAL SERVICE

- 2003-present Human Subjects Administrator, The Moog Center for Deaf Education.
- 2008 American Academy of Audiology Continuing Education Coordinator, Moog Pediatric Cochlear Implant Programming Workshop, St. Louis, Missouri, January 24 & 25.
- 2007 American Academy of Audiology Continuing Education Coordinator, Moog Pediatric Audiologist Workshop, St. Louis, Missouri, January 25 & 26.
- 2005 American Academy of Audiology Continuing Education Coordinator, Conference on Implantable Auditory Prosthesis, Asilomar Conference Center, Pacific Grove, California