



EDC 578: Educating Children with Cochlear Implants and their Families (3 credits)

Course Description:

This course is designed to provide the participant with a greater knowledge of the theoretical and educational principles underlying the management of young children with cochlear implants. Parent-focused intervention, listening and spoken language development, assessment, habilitation and performance outcomes are addressed.

Course Objectives

At the conclusion of this course participants will be able to:

- outline the auditory, speech and language benchmarks for children with hearing loss using cochlear implants
- compare and contrast current practices underlying the management children with hearing loss using cochlear implants
- identify issues in counseling parents of children with hearing loss
- develop auditory goals and objectives for children with cochlear implants in early intervention and preschool settings
- compare and contrast performance outcomes as a function of age at implantation
- consider the special needs of children with implants who present with physical, situational or learning challenges to maximize the auditory potential of the device

Course Content

- I. Auditory, speech and language benchmarks of children with cochlear implants
 - A. auditory skills hierarchy
 - B. language development
 - C. speech intelligibility and articulation
- II. Early intervention practices
 - A. Family-centered services
 1. In-home services
 2. Center-based services
 - B. Private Therapy
 - C. Individualized Family Service Plans (IFSP)
 1. current functioning
 2. goals and objectives
- III. Preschool programs
 - A. OPTION schools
 - B. Other private schools
 - C. Public schools

IV. Parent Counseling

- A. Stages of grief
- B. Informational counseling
- C. Parent to parent support

IV. Auditory assessments and auditory curriculum

- A. Speech Perception Instructional Curriculum Evaluation (SPICE)
- B. AUSPLAN
- C. Learn to Talk Around the Clock

V. Performance outcomes

- A. auditory, speech and language outcomes
- B. effect of age at implantation

V I. Children with challenges

- A. physical challenges
- B. cognitive challenges
- C. language other than English in the home
- D. economic challenges

Assessment

- Completion of Pre-requisite Learning packet (40%)
- Discussions during guided observations in Onsite Learning (30%)
- Lesson plan development during Mentorship (30%)

Textbook

Chute, P.M., and Nevins, M.E. (2006). *School professionals working with children with cochlear implants*. San Diego: Plural Publishing, Inc.

Cole, E. and Flexer, C. (2007). *Children with hearing loss developing listening and talking birth to six*. San Diego: Plural Publishing, Inc.

References and resources

Biedenstein, J., Davidson, L. & Moog, J. (1995). *SPICE Speech Perception Instructional Curriculum and Evaluation*. St. Louis: Central Institute for the Deaf.

Brooks, B.M. (2002). *My baby and me*. St Louis: The Moog Center for Deaf Education

Calderone, R. (2000). Parents' involvement in deaf children's education programs as a predictor of child's language, early reading and social emotional development. *Journal of Deaf Studies and Deaf Education*, 5, 140-155.

Chute, P.M. & Nevins, M.E. (2002). *Parents guide to cochlear implants*. Washington, D.C. Gallaudet University Press.

Cochlear Limited (2003). *Listen, Learn & Talk*. A video program and guide. Australia.

Gallagher, P.A., Easterbrooks, S.A. & Malone, D.G. (2006). Universal newborn hearing screening and interventions: Assessing the current collaborative environment in service provision to infants with hearing loss. *Infants and Young Children*, 19, 59-71.

Geers, A.E. Nicholas, J. & Sedey, A. (2003). Language skills of children with early implantation. *Ear & Hearing, 24*, 48S-56S.

Guiberson, M. M. (2005). Children with cochlear implants from bilingual families: Considerations for intervention and a case study. *The Volta Review, 105*, 29-40.

Luterman, D. (2006). Children with hearing loss-A family guide. Sedona: Auricle Ink.

Luterman, D. & Maxon, A. (2002). When your child is deaf: A parent's guide 2nd ed. Austin: Pro-Ed.

McClatchie, A. & Therres, M. K. (2003). *AUSPLAN: Auditory Speech and Language*, Oakland: Children's Hospital & Research Center

Moeller, M. P. (2000). Early intervention and language development in children who are deaf and hard of hearing, *Pediatrics, 106*.

Moses, K. (1987). The impact of childhood disability: The parent's struggle. *Ways Magazine*.

Nicholas, J.G. & Geers, A.E. (2007). Will they catch up? The role of age at implantation in the spoken language development of children with severe to profound hearing loss. *Journal of Speech, Language and Hearing Research, 50*, 1048-62.

Peters, B. Litovsky, R. Parkinson, A. & Lake, J. (2007). Importance of age and postimplantation experience on speech perception measures in children with sequential bilateral cochlear implants. *Otology & Neurotology, 649-57*.

Robbins, A.M. (2003). Communication intervention for infants and toddlers with cochlear implants. *Topics in Language Disorders, 23*, 16-23.

Rossi, K. (2003). *Learn to talk around the clock: A professional's early intervention toolbox* Washington, DC: AG Bell.

Waltzman, S.B., Robbins, A.M. Green, J.E. & Cohen, N.L. (2003). Second oral language capabilities in children with cochlear implants. *Otology and Neurotology, 25*, 757-763.

Wilkes, E. (1999). *Cottage acquisition scales for listening, language and speech*. San Antonio: Sunshine Cottage for Deaf Children.

Websites

www.cochlear.com/HOPE
www.hearingjourney.com