Outcomes of Children with Mild-Severe Hearing Loss: Year One Data from a Multi-Center Longitudinal Study

The University of Iowa    Boys Town National Research Hospital    The University of North Carolina Chapel Hill

- Examine the background characteristics of the child and family.
- Characterize intervention services and factors associated with service variations.
- Identify variance in age of fitting and type of hearing aid, and identify barriers in hearing aid use.
- Identify to what extent child, family, and community factors contribute to access to intervention services.

400 children with permanent mild-severe hearing loss PTA 25-75 dB (500, 1k, 2k, 4k)
150 children with normal hearing
Ages 6 months to 6 years 11 months at study entry
English spoken in the home by at least one parent
No significant disabilities

**SUBJECTS**
- 400 children with permanent mild-severe hearing loss
- 25-75 dB (500, 1k, 2k, 4k)
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**GOALS**
- Accelerated Longitudinal Design
- Subjects
- Domains of Study
- Accelerated Longitudinal Design

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**DOMAINS OF STUDY**
- Hearing & Speech Perception
- Speech Production
- Language Skills
- Academic Abilities
- Psychosocial and Behavioral Interventions (clinical, educational, audiological)

**ACCELERATED LONGITUDINAL DESIGN**
- Mullen Scales: 1-2 Years
- CASL: 3 Years
- CASL: 4 Years
- PPVT: 5 & B7 Years
- MBCDI: 12 months - 2 Years
- WPPSI: 4 Years
- MLNT Hard (All)
- PBK (All)
- Vocabulary Acquisition
- Hearing Aid Fitting
- Hearing Aid Use
- Speech Perception

**EXPRESSIVE LANGUAGE**
- Mullen Scales: 1-2 Years

**RECEPTIVE/EXPRESSIVE LANGUAGE**
- CASL: 3 Years
- CASL: 4 Years
- Ertmer’s Open & Closed test: 2 Years

**HEARING AID FITTING**

**VOCABULARY ACQUISITION**

**SPEECH PERCEPTION**

**Hearing Aid Use**

**WIPPSI: 4 Years, X=7.96 <7 Sc S=30.3%**

**MLNT Hard (All)**

**PBK (All)**

**MLNT Hard (All)**

**PBK (All)**

**WIPPSI: 4 Years, X=7.96 <7 Sc S=30.3%**

**Vocabulary Acquisition**

**Hearing Aid Fitting**

**Hearing Aid Use**

**Speech Perception**

**MLNT Hard (All)**

**PBK (All)**

**MBCDI: 12 months - 2 Years**