



Colorado Educational Audiology PLC

OCTOBER 15, 2015

UNC LOWRY

Guest Announcement

- ▶ **Arlene Stredler-Brown TACIT Study**

Upcoming Dates - Announcements

- ▶ EAA-ASHA Event, November 12
- ▶ CEA PLC Monthly Meeting, November 18
- ▶ CDE Audiology Full-Day PD, January 29

- ▶ Dissertation on CADS (Jeanne Pease) 3-state (Colorado, Texas, Oklahoma) study of K-5/K-6 schools that have used CAD technology school-wide basis for 3 years.

Pediatric Amplification Guidelines: *Review*

- ▶ **2013 AAA Pediatric Amplification Clinical Practice Guidelines**
 - ▶ [AAA Website Link to Download](#)
 - ▶ Detailed guidelines covering all aspects of hearing aid fitting for newborn, infant, and child
- ▶ **University of Western Ontario Pediatric Audiological Monitoring Protocol (UWO PedAMP)**
 - ▶ [DSLIO – PedAmp Website Link](#)
 - ▶ Outcome evaluation guideline consisting of several tools that measure auditory-related outcomes in infants and children with hearing loss

American Academy of Audiology
Clinical Practice Guidelines
Pediatric Amplification

June 2013



AAA Guidelines

- ▶ Updated from 2003 / Panel of 15 experts
- ▶ Outline
 - ▶ Candidacy
 - ▶ Effective Amplification Principles
 - ▶ Signal Processing and Features
 - ▶ Fitting/Verification
 - ▶ Outcomes Assessment
 - ▶ Management/Follow-up and Referrals
 - ▶ Use of HA's' with Other Assistive Technologies

Candidacy Criteria

- ▶ **Summary of Evidence for Candidacy for Hearing Aids**
 - ▶ Unilateral hearing loss
 - ▶ Mild hearing loss
 - ▶ ANSD (unless child is responsive without HA's)
 - ▶ Permanent conductive hearing loss (when able)
 - ▶ Children with profound loss detected through ABR prior to CI

Effective Amplification

- ▶ **Routing of the signal**
 - ▶ Air vs. bone
 - ▶ Electrical stimulation
 - ▶ Unilateral hearing loss (CROS) or Remote Microphone Technology
 - ▶ Bilateral amplification recommended unless contraindicated
- ▶ **Selection of Hearing Aid Style**
- ▶ **Adequacy of Earmold**
- ▶ **Safety Considerations (see recommendations pg 22-23)**

Signal Processing and Features

- ▶ All discussed should be considered viable and preferable for pediatric fittings as there is no sufficient data to suggest otherwise
 - ▶ INCLUDING (not limited to)
 - ▶ Techniques for frequency lowering
 - ▶ Feedback suppression
 - ▶ Directional microphones
 - ▶ Digital noise reduction

Fitting / Verification

- ▶ **Electroacoustic**
 - ▶ Prescription methods (DSL vs. NAL)
 - ▶ Verification methods (RECD; Real Ear Measures)
 - ▶ High Frequency Audibility
 - ▶ Verification of Advanced Features
 - ▶ Verification test signal (speech signal)
- ▶ **Other Verification Tools**
 - ▶ Speech Intelligibility Index (SII) / Situational Hearing Aid Response Profile (SHARP) to estimate speech audibility
- ▶ **Cortical Evoked Potentials**
- ▶ **Aided Thresholds in Sound Field (SHOULD NOT BE A VERIFICATION METHOD but can provide “functional gain” information)**
 - ▶ Exceptions with bone-conduction aids and frequency transposition devices

Outcomes Assessment

- ▶ Aided audiogram
 - ▶ Speech perception
 - ▶ Parental reports
 - ▶ Teachers' reports
 - ▶ Self reports
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- ▶ Efficacy (EF) vs. Evidence (EV) = Laboratory vs. Real World

Management, Follow-Up & Referral

- ▶ On-going audiologic evaluation and adjustment of amplification
- ▶ Patient/family education and adjustment counseling
- ▶ Referral for medical evaluations
- ▶ Support for accessing EI and educational support
- ▶ Resources for financial support and funding
- ▶ Parent-to-parent support

USE of HA's With Other Assistive Tech

- ▶ Remote Microphone HAT
- ▶ Cochlear Implants

UWO PedAmp & SHARP

- ▶ http://www.dslio.com/?page_id=283
- ▶ SHARP (Situational Hearing Aid Response Profile)

BREAK ~ Welcome Children's Guests



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Open Discussion Outline

Clinical Practices

- ▶ General assessment practices/protocol for kids with hearing loss (frequency & types of testing)
- ▶ CI and BAHA implantation process; expectations for family; timeline; additional therapies recommended; candidacy considerations
- ▶ ANSD & EVAS general protocols of treatment
- ▶ Parent to parent support opportunities

Technology Discussion

Specific Technology Topics

- ▶ Earmold Selection & Retention methods and practices
- ▶ Hearing Aids
 - ▶ General device/mfg choices
 - ▶ Programming Misc. (ex. using Sound Flow as start-up rather than FM+M; Easy Roger/Easy FM)
 - ▶ Do you guys use Junior Reports from Target software?
 - ▶ CROS fittings
 - ▶ Open-fit or mini-BTE fittings for kids?
- ▶ Cochlear Implants
 - ▶ Naida FM coupling options (are parents choosing DAI option?)

Technology Continued

- ▶ Bone Conduction Devices/Implants
 - ▶ Insurance coverage
 - ▶ Baha 5 (no good FM option)
- ▶ Wireless Accessories & FM
 - ▶ Is insurance covering these? Are parents requesting?
- ▶ General policies for dispensing
- ▶ General device/product selection process, insurance & warranty coverage information

Collaboration/Communication

- ▶ **Collaboration Topics**

- ▶ Sharing reports / documentation (best methods)
- ▶ Educational recommendations such as placement, modes of communication, methods of instruction
- ▶ When would you like us to refer back to you?

Questions to Ed Aud Group

- ▶ What do you need from us?

