Application of LENA Data in Early Intervention: The COMPASS Project

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Disclosure

I have no financial or non-financial relationships to disclose.
Sound Start Babies

• Early Intervention Program specializing in serving children with hearing loss and their families
• New Jersey – Birth to 3 years of age
• Home and center-based services
• Comprehensive team
  – Theresa Harp, M.A., CCC-SLP, LSLS Cert. AVT
What is the LENA System?

• Language ENvironment Analysis
• Measures:
  – AWC: Adult Word Count
  – CTC: Conversational Turn Count
  – CVC: Child Vocalization Count
  – Audio Environment
    • Meaningful, distant, TV/Electronic
  – AVA: Automatic Vocal Assessment
• 16 hours of recording time
COMPASS Project

- Creating Outcomes to Maximize the Practical Application of Skills & Strategies
- Critical window: Birth to 3 years
- Listening environment
  - What is happening when the technology is on
- 21,000 words per day!
- More information than can be gathered in a 1 hour home session
Participants

• 18 families
• Mild-profound hearing loss
• 4-24 months old
• Cochlear implants, hearing aids, Baha
• Various socio-economic status, family make-up, & ethnicities
Procedure

- Review process and complete consent
- Baseline recording (3 days)
- Choose and review first strategy
  – Research-based, listening & spoken language strategies
- Time for implementation
- Second recording (3 days)
- Choose and review next strategy
Changes you can see...
Sustainable Changes

- 61% increased child vocalizations
- 78% increased conversational turns
- 78% increased adult word count
* Only children that didn’t follow trends had progressive HL
Thank You!

More information & downloadable resources:

www.soundstartbabies.com
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