Sound Travels

Building strong working relationships as we work to better understand the environmental hearing needs of our students and clients with a dual sensory loss.

Presenters...

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What's the Story?

The real reason that this set of tools came to being was the passion of Robbie Blaha! She wanted to make sure that students who are deafblind will receive an evaluation and services that meet their unique needs.

She can move mountains!

Hierarchy of Hearing

Discrimination

• Those sounds are different...

Where do I Find That Information?

- **Detection** (Audiogram)
- **Discrimination** (on the <u>Eligibility Form</u> and/or report IF you get it)

Hierarchy of Hearing

Identification

○ I know what that sound is...

Comprehension

○ I know what that sound means...

Deaf/Hard of Hearing Goal Example

<u>GOAL: 22 - DHH</u>

By the end of 36 instructional weeks, when given environmental sounds produced in a quiet environment, Student will use his auditory identification skills to identify what the sound is and be able to explain what information that sound could give him 4 out of 5 opportunities.

Objectives

- By the end of 36 instructional weeks, after identifying the sound source of a variety of environmental sounds, Student will explain what information he could gather from that sound and why it is important 4 out of 5 opportunities.
- By the end of 36 instructional weeks, when given environmental sounds, Student will use auditory identification skills to be able to identify the sound and name it's source 4 out of 5 opportunities.

The IFHE

Informal Functional Hearing Evaluation

Example of FVLMA

And then...

After detection, discrimination, identification, and comprehension, we begin to address...

Utilization

Utilization of Environmental Sound

Localization

Where is that sound; is it moving?
Which direction and how quickly?

Estimation

How far away is that sound? When will it arrive where I am?

Utilization of Environmental Sound

- **Echolocation (reflected sound)**
 - PassiveActive

Orientation

Spatial updating
Planning travel
Maintaining travel

Which Specialists are Involved?

- Audiologist (both Educational and Personal)
- Teacher of the Deaf and Hard of Hearing (TDHH)
- Speech and Language Pathologist (SLP)
- Teacher of Students who are Deafblind (TDB)
- Intervener
- Orientation and Mobility Specialist (OMS)
- Teacher of Students with Visual Impairments (TVI)

What role does everyone play on the Team?

Delineation of Roles <u>Document</u>

Collaboration from all team members

• Addressing the Expanded Core Curriculum for visual and auditory areas

How To Interpret Audiology Speak

"We need to consider mic directionality and the effects of noise reduction and suppression, and how these effects might be exacerbated by the lack of ear mold venting. This is especially true for clients with devices employing compression with binaural amplification and/or using multiple programs. Of course, another consideration is the potential use of FM+M setting." How To Translate O&M Speak Just in case you were not sure, most people do not understand...

"Traveling with the parallel traffic surge using auditory alignment strategies when crossing at a multiphase intersection in a metropolitan area with fully actuated signals that are equipped with vibro-tactile APS."

Where to begin? IEP Quality Indicators for Students with DeafBlindness

 Informal Functional Hearing Evaluation (IFHE)

• Audiology and Orientation and Mobility Collaboration Tool

And there's more...

Environmental Sound Considerations

Developing Auditory Skills

• Sample Letter to Audiologist

Where do I find resources?

LiveBinders

- <u>Susie Tiggs</u>, Region 11
- Chris Tabb, TSBVI
- Web sites
 - National Center on Deaf-Blindness
 - 0 <u>TSBVI</u>
 - Perkins School for the Blind

Where do I find other resources?

Apps

- \circ Decibel recording apps
- Audiological screening apps (does not replace need for Audiological Screening and Evaluation)
- Recordings of environmental sounds for auditory training

IEP Quality Indicators 7. Orientation and Mobility (O&M) –

...Students with deafblindness get less information from the environment, and have lower reinforcement to explore. Deafblindness affects the identification and use of sound

cues...

Please Circle Your Answer:

Y: for Yes

N: for No

N/A: for Not Applicable

7.1. The student's level of exploration and movement is evaluated in light of the effects of deafblindness.

7.2. O&M evaluation and programming reflects the effects of hearing loss on the student's ability to localize and identify sound cues.

7.3. The IEP reflects a plan for the Certified **O&M** Specialist to receive support from the team (i.e. support from an Interpreter, Intervener, or Teacher of Students who are **Deafblind) in utilizing the student's** communication system during instruction.

7.4. Instruction as reflected in the IEP provides adequate information for the student to establish a destination and recognize a particular route (use of a communication system to establish a destination, use of the calendar conversation, additional time to explore the salient parts of the route).

7.5. Instruction as reflected in the IEP provides supplemental information about the environment to offset the lack of incidental learning (what is a mall? Or a bus?) by experientially teaching concepts and related vocabulary.

8. Related and Supplemental Services –

...the effects of deafblindness should be taken into account in assessments, evaluations and delivery of all related services provided to the student. For example, optimal positioning for communication...

8.2. There has been an O&M evaluation that addresses the effects of hearing loss in combination with the vision impairment in determining the need for services. (Refer to Section 7 on Orientation and Mobility.)

Resources

- Texas Deafblind Project Website, https://txdeafblindproject.org/
- Sound Travels Tools (downloadable links on the page for Word and PDF), <u>https://txdeafblindproject.org/orientation-and-mobility/about-sound-travels/</u>
- LiveBinder on O&M for Students who are Deafblind, https://www.livebinders.com/b/1804265