The Technology

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Inclusive Learning - Outreach
Amplification Technology
Hearing Aid

- Microphones
- Receiver/Sound Output
- Program Button
- Volume Control
- Battery Compartment
Earmold
Listening Checks

- With Sethoset versus Functional
Bone Implanted Amplification
1. Sound Processor snaps on to abutment.
2. Abutment is attached to the Titanium implant placed in the bone.
BAHA® Softband®
I use a microphone and speaker in my classroom... isn’t this good enough for a student with hearing loss?
NO!

- The increase in sound volume provided by hearing aids does **NOT** mean that the student now has normal hearing.

- Hearing aids make all sounds louder, even noise. With standard hearing aids, a hearing impaired child will hear well if they are close to the person who is talking, and if there is no background noise.
Cognitive Capacity in Poor Listening Conditions

• Processing

• Identification
Cognitive Capacity in Good Listening Conditions

- Processing
- Identification
What’s the Best Solution?

- Hearing aids and cochlear implants are a good solutions in quiet environments, but not for noise.
Hearing Loss in the Classroom
Personal FM Systems

- An effective way to help the student hear and understand your voice is for the student to use their hearing aids coupled to a personal FM system.

- All of the above amplification can be coupled to a personal FM system.

Hearing Aid in Noise, then FM System in Noise
Personal FM Systems

- Teacher wears microphone and transmitter.

- Receiver connects to hearing aid or cochlear implant.

- This type of system gives the student the best speech signal in a noisy classroom.
Phonak Inspiro

- The on/off switch is on the top portion of the transmitter

- There is a **mute switch** under the LED screen (if not un-muted in 15 minutes - it will vibrate)
With the use of an audio cord personal FM systems can be jacked into any device that has a headphone symbol. This will allow the student access to all educational activities presented in 21st century classrooms: computers, listening centers, MP3 players, iPads.
Phonak ZoomLink+
(SmartLink or EasyLink)
Auxillary Audio

Plug in to the television's headphone jack

Plug in to the audio jack

Audio cable (standard accessory)
Oticon Amigo
Microphones

- 6-8 inches
- 15-20 cm
Management of Amplification Technology

- Schools and family must ensure proper functioning.
- Requires close alliance between dispensing & educational audiologist.
- Requires teacher inservice and consultation.
- Requires student training for self-management.
“A teacher down the hall – has her personal and classrooms systems plugged in together so she only wears one microphone. Can I do that too?”
Questions???
Helpful Links

- http://www.hearinglikeme.com/supporting/challenges/listening-exhausting
- http://successforkidswithhearingloss.com/
- http://www.childrenofthecode.org/interviews/tallal.htm