## Advocacy Evolution: Educate the World!

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## About Me



Chloe @ 18

## Journey

- Mystery
- Road Trip
- Education
- Discovery

## Mystery

#### • Clues

- o Piano
- $\circ$  Mouths
- o Balance
- Response to Sounds
- Opinions
  - o Friends
  - $\circ$  Families
  - Pediatrician
- Testing @ 18 Months

## **Road Trip**



Source: "Blank US Map." Blank US Map. Marches, Inc., 20 July 1996. Web. 27 August 2014.

#### Education

- Pediatric Audiologists
  - Ear Molds
- Speech Therapists
  - Acquiring Sounds ≠ Recovering Language
- Educators
  - Don't Always Know What's Best

## Discovery

# Anticipate Advocate Educate

## **Educate The World!**

- Define!
- Anticipate!
- Summarize!
- Educate!

### Hearing Loss

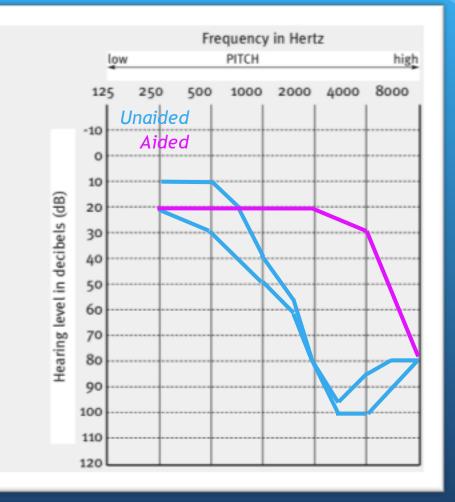
- Percentage
- Degree
  - o Mild
  - Moderate
  - $\circ$  Severe
  - Profound
- Description Not Enough

### DD 2216

HEARING CONSERVATION DATA 1. ZIP CODE/APO/FPO/PAS													
(This form is subject to the Privacy Act of 1974 - use Blanket PAS - DD Form 2005)													
2. DOD COMPONENT A - ARMY F - AIR FORCE 1 - OTHER DOD N - NAVY M - MARINE CORPS ACTIVITY V - RESERVE 1 - OTHER													
4. SOCIAL SECURITY NUMBER 5. NAME (Last, First, Middle In				ittia()					6. DATE OF BIRTH 7. SEX (YYYYMM00) F - FEM				
8. PAY GRADE, UNIFORMED SERVICES CIVILIAN	10. SERVIC OCCUP	E DUTY	ODE	11. MAILING ADDRESS OF ASSIGNMENT									
12. LOCATION - PLACE OF WORK				13. MAJOR COMMAND 14. 0			14. DUTY	JTY TELEPHONE (Include area code)					
15. AUDIOMETRY a. PURPOSE 1 - 90 DAY				2 · ANNUAL 3 · TERMINATION 4 · OTHER									
AUDIOMETRIC DATA			FT				RIGHT						
RE: ANSI \$3.6 - 1989	500	1000	2000	3000	4000	6000	500	1000	2000	3000	4000	6000	
b. CURRENT AUDIOGRAM DATE (YYYYMMDD) Unaideo	10	40	80	100	100	80	30	50	80	95	85	80	
C. REFERENCE AUDIOGRAM DATE (YYYYMMDD) AIdeo	20	20	20	25	30	55	20	20	20	25	30	55	
G. SIGNIFICANT THRESHOLD SHIFT (STS) 1 · NO 2 · YES	SHIFT												
1. REMARKS (Include exposure data)													

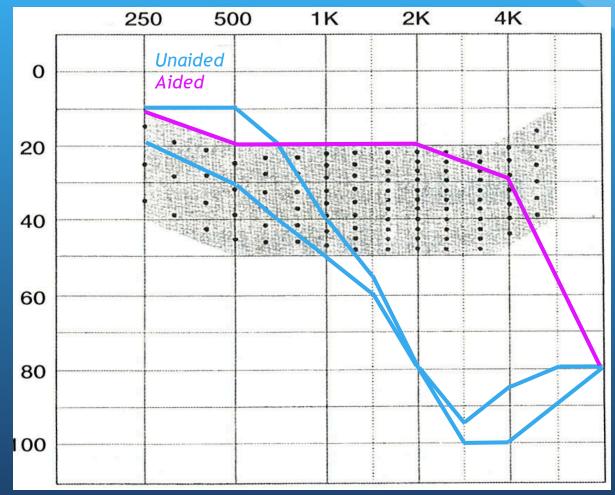
Source: "Hearing Conservation Data." *Defense Technical Information Center*. Department of Defense, January 2000. Web. 27 October 2014.

### Audiogram



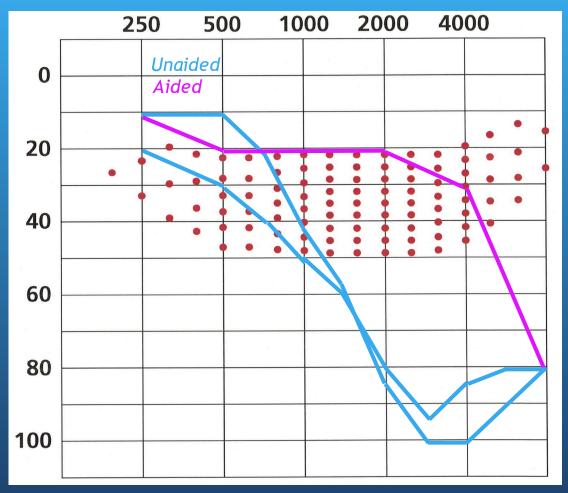
Source: "Deaf Friendly Training Pack." NDCS. org. uk. National Deaf Children's Society, 11 March 2008. Web. 27 October 2014.

### **Count The Dots**



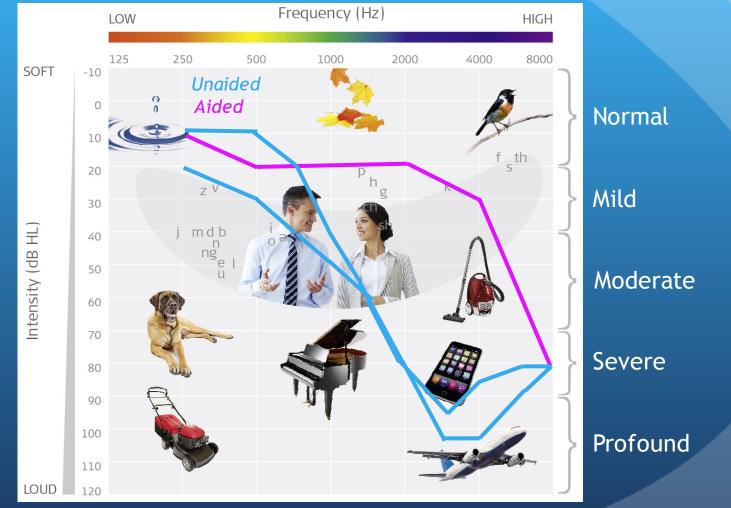
Source: Killion, Mead C., and H. Gustav Mueller. "Twenty Years Later: A NEW Count-The-Dots Method." *The Hearing Journal*. The Hearing Journal, January 2010. Web. 27 August 2014.

### **New Count the Dots**



Source: Killion, Mead C., and H. Gustav Mueller. "Twenty Years Later: A NEW Count-The-Dots Method." *The Hearing Journal*. The Hearing Journal, January 2010. Web. 27 August 2014.

## Visual Audiogram



Source: "What is Sound?" The Hearing People. The Official MED-EL Blog, 13 November 2013. Web. 27 August 2014.

#### **Simulated Hearing Loss**



Source: House Research Institute. "Hearing Loss Example." YouTube. HouseEar, 31 March 2011. Web. 15 August 2013. https://www.youtube.com/watch?v=1EJ4g3J6cJM

#### **Care Givers**

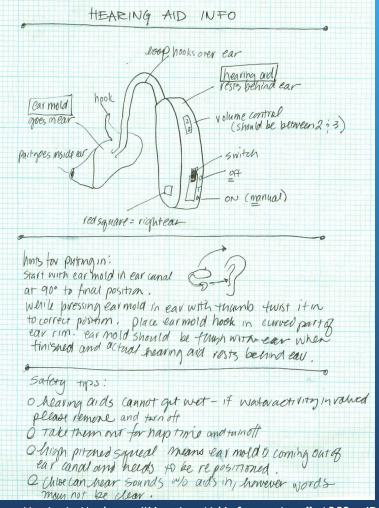
#### • Basic Equipment Operations

- o On-Off
- Battery Replacement
- Feedback
- o Don't Get Wet!

#### • Effective Communication

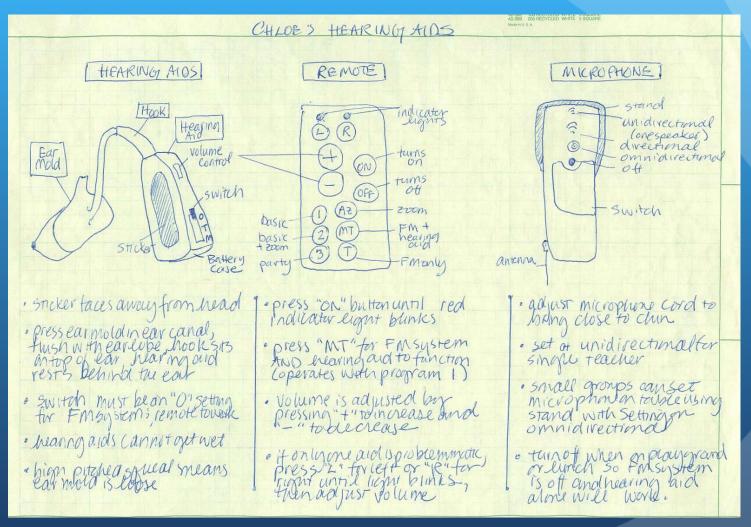
- Visual Cues
- Cue to Listen By Calling Name
- 1-on-1 vs. Group Situations

#### **Basic Operations**



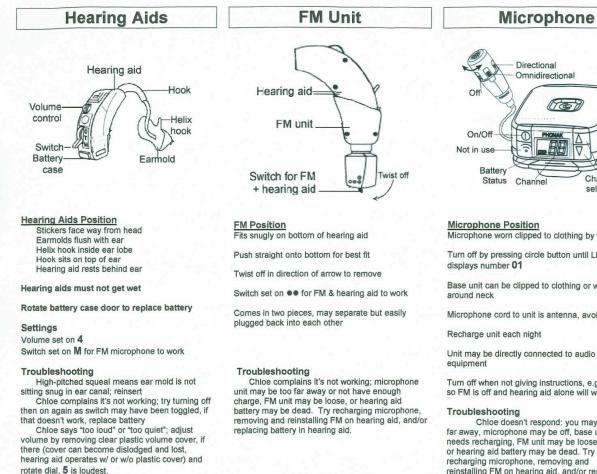
Source: Keilers, Marjorie Madsen. "Hearing Aid Information." 1999. JPG File.

### Basic + Home FM



Source: Keilers, Marjorie Madsen. "Chloe's Hearing Aids." 2001. JPG File.

### Basic + School FM



Omnidirectional 10 Channel selector

Microphone worn clipped to clothing by teacher

Turn off by pressing circle button until LED

Base unit can be clipped to clothing or worn

Microphone cord to unit is antenna, avoid coiling

Turn off when not giving instructions, e.g. lunch, so FM is off and hearing aid alone will work

Chloe doesn't respond: you may be too far away, microphone may be off, base unit needs recharging, FM unit may be loose or off. or hearing aid battery may be dead. Try recharging microphone, removing and reinstalling FM on hearing aid, and/or replacing battery in hearing aid.

Source: Keilers, Marjorie Madsen. "Hearing Aids, FM, Microphone." 2002. JPG File.

## Camps

#### • D/HH Camps

- Awareness of D/HH Needs
- Bonding With Other D/HH
- Emphasis on Specific Communication Modality

#### • Mainstream Camps

- Twilight
- Water Events

### Schools

- Visual Audiogram
- Links to Video
- Classroom Accommodations
- IEP Accommodations List

#### • Links

- HearChloe.blogspot.com
- Rachel Kolb Article in Stanford Magazine

#### **Classroom Accommodations**

#### Creating an Optimal Learning Environment for a Hard of Hearing Student

Hearing-Impaired (HI) students work very to understand what is said in and out of the classroom. Listening requires their full attention, auditory and visual. They can't half listen or let their minds wander. They have to fill in and guess at times. This creates fatigue and stress and some misunderstandings. The effort listening requires day in day out is often taken for granted.

#### These strategies will enhance understanding, facilitate learning, and reduce stress & fatigue:

#### 1. USE THE FM SYSTEM

\*Clip microphone on before class, wearing it about a fist width away from your mouth and avoiding wearing jewelry or anything that might bang against it.

\*Turn microphone on when you are speaking to the class as a whole, a group including the HI student, or the HI student individually.

\*Turn microphone off when you are not speaking to the HI student, especially when you step outside the classroom or are speaking to another teacher, parent or student.

\*Encourage guest speakers, students making presentations, etc. to use the microphone.

#### 2. ENHANCE VISUAL INFORMATION

\*Seat the student so your face can be easily seen for speechreading.

\*Face the student when you talk. Do not hold books or papers in front of your face and do not talk while writing on the board.

\*Put as much information as possible in writing.

#### 3. REDUCE CLASSROOM NOISE

\*Seat this student away from potential sources of noise such as fans, vents, open windows, pencil sharpeners, noisy students, etc.

\*Do not play background music while students work at their desks.

#### 4. CHECK/ENHANCE COMPREHENSION

\*Do not ask "did you hear?" or "did you understand?". The hearing-impaired student has no way of knowing if they understood everything that was said.

\*Ask the student specific questions related to the material, have them repeat information or instructions, or observe their work to check for comprehension.

\*Pretutor new vocabulary and new units prior to the initial classroom presentation.

#### 5. MAKE CLASSROOM DISCUSSIONS MORE ACCESSIBLE

\*Slow down the pace - pass an object from speaker to speaker \*Seat the students in a semi-circle \*Repeat or paraphrase what was said

#### 6. OTHER ISSUES

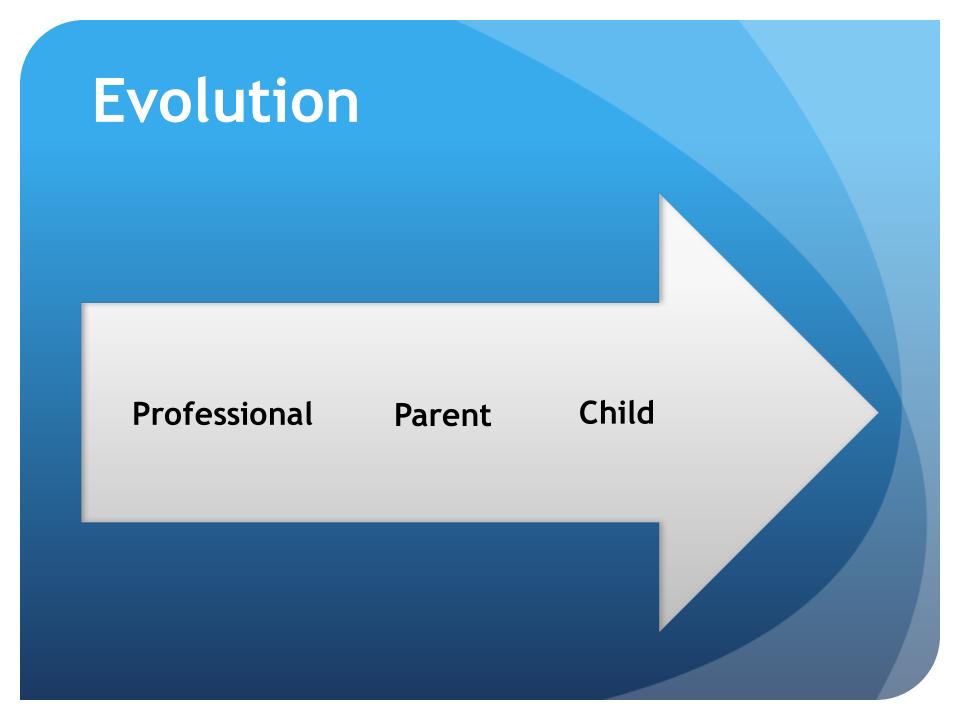
\*Note taking - student needs to look at the speaker and cannot look down to write notes. \*Films - turn on the captions or English subtitles for all films. \*Avoid oral tests \*May miss what is said in the background - announcements, classroom jokes, etc. \*Assemblies - speakers should use the FM mic

Audrey Chumley, Educational Audiologist

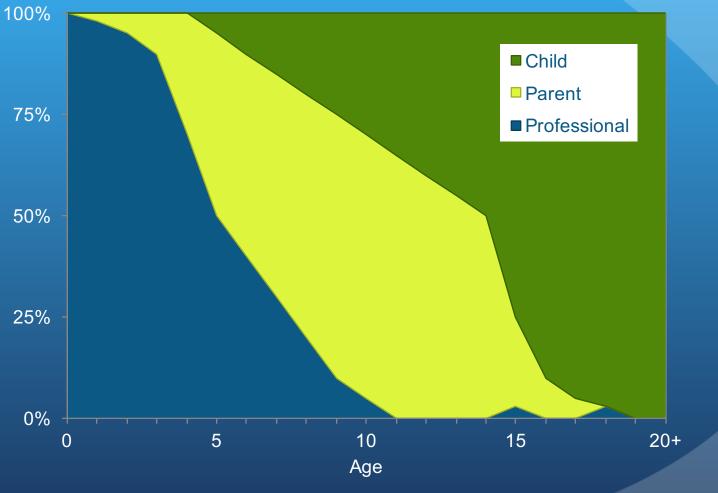
### **IEP Accommodations**

Environment:	Instructional Presentation Mode:						
Preferential seating	Visual modelling						
Quiet, structured setting	Closed captions for videos						
Unobstructed view of speaker's face	Speaker says name for initial cuing						
Group projects in quiet place	Visual contact and articulation for foreign language or spelling						
Instructional Material	Instructional Strategies						
Textbook copies at home for pre-reading	Full-time use of FM system Teacher repeat classmates input during discussions or use microphone						
Preview new vocabulary	Rephrase directions, rather than repeat						
	Visual supports, cues, and directions						
	Note taking carbons, teacher or peer notes, use IPad for notes						
	Check for understanding by asking to paraphrase oral material						
Assignments/Homework:	Student Deserves Meder						
Assignments/Homework: Extended time due to fatigue or illness, which impacts hearing acuity, with note from parent	Student Response Mode: Allow to make corrections if letter sounds are omitted						
Check for understanding of classroom routines at beginning of semester							
Minimize group assignments							
Testing:	Other:						
Visual directions for tests and quizzes	Do not count off for tardies						
No oral tests for articulation metrics, unless spelling or vocabulary	Allow time for managing hearing equipment						
vocabiliary	Use of buddy for assignments and announcements						
Allow 50% extra time for timed reading and writing assignments and tests							
Behavior Supports: Orientation meeting with new teachers at the beginning of semesters	Grades will be determined by:						
	Grades will be based on:						

Source: Instructional Accommodations and Modifications. 2013. Los Alamos.



# **Advocacy Evolution**



Source: The Keilers Family Experiences from 1999 to 2014.

## HearChloe



HearChloe

Hello tree-world! I'm Chloe and very excited to go to Stanford in the fall and meet all of you. I'm from Los Alamos (the other LA), NM and I like reading, watching movies (with closed captioning of course!), doing origami, and learning new things, especially Physics, Chemistry, and Latin. But there's one more thing I want to put right out here upfront -- because, when I meet you all in person, I'm going to need your help to communicate -- I am deaf. I wear two hearing aids and rely heavily on lip-reading in addition to what I hear. Hearing aids are not like glasses, they don't give me "20/20" hearing. The help I need from you is patience, the ability to see your lips moving to form words, and ideally speaking one-on-one. I know that last bit will be tough, as everyone is so excited and will be chattering all at once! A lot of people are curious about what deafness sounds like, and here's a short video clip (39 s) I have shared with teachers and classmates at school. In the clip there is a small audiogram displayed in the lower right corner that depicts the degree of hearing loss shown in the cartoon. Without my hearing aids, I can't hear any difference, and with my hearing aids, I actually hear something between the "mild" to "moderate" range, definitely not "normal." First time I saw this clip, I realized I was trying to lip-read the cartoons-unsuccessfully. That's Chloe 101! I can't wait to meet everyone in person. Fear the trees!



#### Hearing Loss Example (produced by House Research Institute)

This is an example of what various types of hearing loss sound like to the individual with the loss. I had been looking for something like this that would gi...

YOUTUBE.COM

132 Likes 22 Comments

#### Resources

- Hands & Voices New Mexico Chapter Web Site: <u>http://HVNM.org/</u>
- Chloe's Blog: <u>http://HearChloe.blogspot.com/</u>
- Kolb, Rachel. "Seeing at the Speed of Sound." *Stanford Magazine*. 1 March 2013. Web. 25 April 2013. <u>https://alumni.stanford.edu/get/page/magazine/article/?article\_id=59977</u>
- "HVNM Back To School Event." YouTube. YouTube, 26 October 2013. Web. 27 August 2014. https://www.youtube.com/watch?v=BjEJ7xQOBRE
- Derr, Theresa and Scott Bradley. "Classroom at 15 Feet." Wireless FM (Auditory Trainer) Simulation. University of Wisconsin-Whitewater, 21 July 2006. Web. 15 August 2014.
  - o <a href="http://facstaff.uww.edu/bradleys/radio/fm/fmdemo3a.mov">http://facstaff.uww.edu/bradleys/radio/fm/fmdemo3a.mov</a>
  - o <a href="http://facstaff.uww.edu/bradleys/radio/fm/fmdemo3b.mov">http://facstaff.uww.edu/bradleys/radio/fm/fmdemo3b.mov</a>
- "Navigating Deafness in a Hearing World: Rachel Kolb at TEDxStanford." YouTube. YouTube, 20 June 2013. Web. 27 August 2014. <u>https://www.youtube.com/watch?v=uKKpjvPd6Xo</u>
- "Can You Read My Lips?" Vimeo. YouTube, 6 December 2015. Web. 8 December 2015. <u>https://vimeo.com/148127830</u>