Assessing DHH Students with Additional Diagnoses

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HELIX 2022



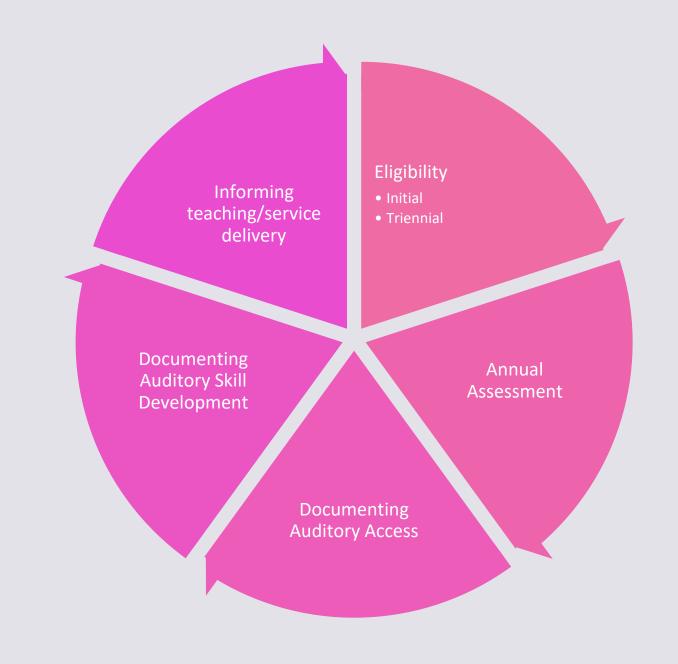
Child Find (34 C.F.R. §300.111) https://sites.ed.gov/idea/regs/b/b/300.111

Hearing Screening For Children with Significant Disabilities https://www.edaud.org/positio n-stat/19-position-10-21.pdf

Identifying and managing all children with reduced hearing levels regardless of their ability to participate in routine screening procedures is an educational right under IDEA.

Children who are unable to respond reliably using routine screening procedures should not be documented as "could not test" (CNT). This notation fails to satisfy Child Find directives and can result in failure to provide a free and appropriate public education (FAPE).

Purpose of Assessment



Additional Challenges

"Medically Traumatized"

Autism Spectrum Disorders

Intellectual Delays

Vision Disorders

Deaf Blindness

Motor Disabilities

Behavior

Etiology

Etiology helps guide what we know about type/degree of hearing loss and trajectory of decline

Genetics

Over 400 diseases and disorders have hearing loss as a component

65% of hearing loss has a genetic basis

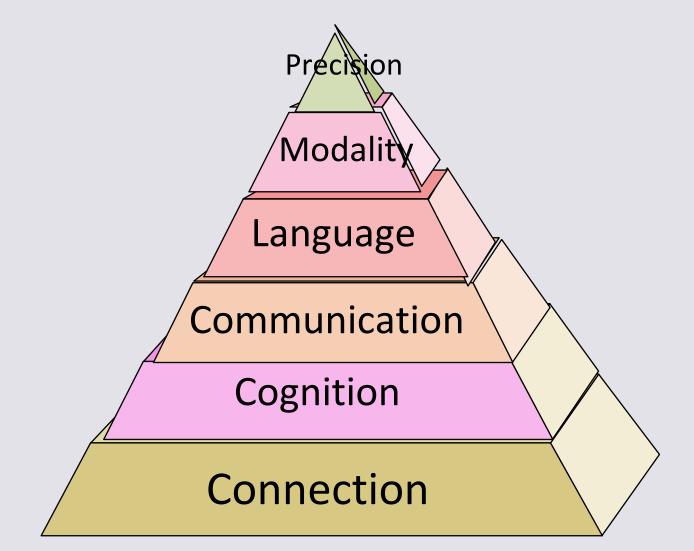
Genetic does not always mean hereditary

CMV

Under Identified

Actual prevalence is unknown





Communication Priority Pyramid

Gathering Information





- UNHS
- Clinical assessments of hearing
- Developmental assessments
- Cognitive assessments
- Vision assessments
- OT/PT assessments

PRIORITIZE DATA NEEDS



- What do we already know?
- What are we trying to assess?
- How will the data be used?

OBSERVATIONS



- Classroom
- Social (lunch/recess)
- Therapy
- Video Observations
 - Ноте

Other

Desensitization

Become familiar to the child

Use of Social Stories, pictures, objects

Let child explore the device/room/materials

Hand under hand use of devices

Use a large mirror so child can see as you place

equipment/materials in the ear

Demonstrate on peer/parent/staff/self

Use silicone ear to demonstrate

Use a Second Tester

Speech Pathologist

- Teacher
- Para
- Parent
- Familiarity and trust are paramount!
- Practice, condition, fade supports, use reinforcers
- Familiarize with room, equipment, procedures



Conditioning



Levels of Auditory Skill Development



Response Modes

Speech

•

- Signs
- Print/text
- Pictures
- Switch
- Head turn
- Play Audiometry
 - Any reliable/repetitive response
- Behavior Observation Audiometry
 - Cessation of Behavior
 - Change in Behavior

Communication Matrix

https://www.youtube.com/watch?v=-bdNVoNXOYY

- Designed to assess very beginning stages of communicative intent with children with deaf-blindness and other severe disabilities
- Can be used with any language modality Signs, speech/vocalizations, PECS, AAC
- Much of the assessment looks at communication not "language"
- https://www.youtube.com/watch?v=PL4SBPv-fpY
- https://www.youtube.com/watch?v=RBg4D8Vdyj8
- https://www.youtube.com/watch?v=sMXJ2IDpOtk
- https://www.youtube.com/watch?v=cArW3nT42IY

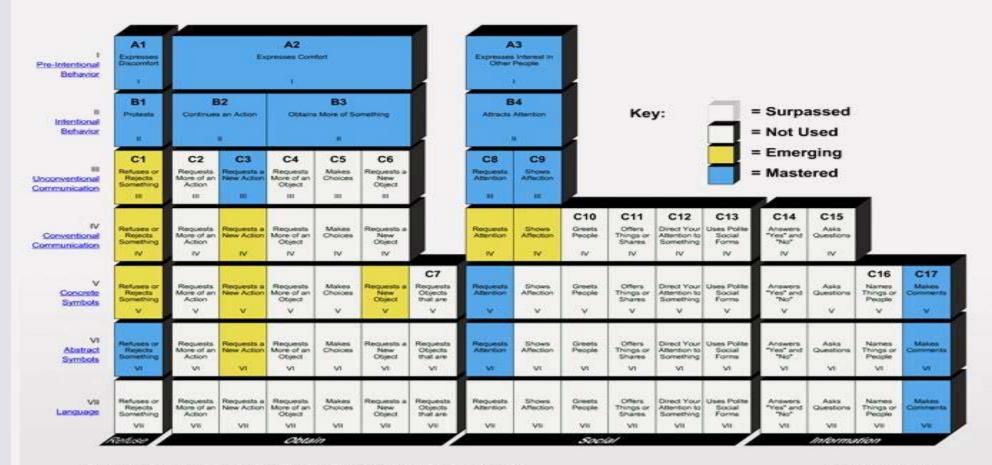
Communication Matrix Communicative Levels <u>https://www.youtube.com/watch?v=5Jr2pW3CzfY</u>

Level	Level I : Pre-Intentional Behaviors •Use of reflexive/reactive behaviors with no communicative intent
Level	 Level II : Intentional Communication Use of intentional operation on people/things with no "communicative intent"
Level	Level III : Unconventional Pre-Symbolic Communication •Use of body movements/vocalizations to communicate
Level	Level IV : Conventional Pre-Symbolic Communication •Use of intentional vocalizations/gestures and/or eye gaze
Level	 Level V : Concrete Symbolic Communication Use of gestures/pictures/symbols to communicate
Level	Level VI : Abstract Symbolic Communication •Use of speech/signs/print to communicate
Level	Level VII : Formal Symbolic Communication •Use of 2-3word combinations with syntax/grammar

	A1	1		A2			1		3	1							IP	
I Pre-Intentional Behavior	Expresses Discomfort		Ex	presses Com	lfort.			Expresses Interest In Other People				September 23, 2010						
II Intentional Behavior	B1 Protesta	Continue	32 s an Action	I Obtains More of Something II				Attracts	B4 acts Attention		Key:			= Surpassed = Not Used				
III Unconventional Communication	C1 Refuses or Rejects Something	C2 Requests More of an Action	C3 Requests a New Action	C4 Requests More of an Object	C5 Makes Choices	C6 Requests a New Object III		C8 Requests Attention	C9 Shows Affection					= Emer = Maste				
IV Conventional Communication	Refuses or Rejects Something IV	Requests More of an Action	Requests a New Action		Makes Choices IV	Requests a New Object IV		Requests Attention	Shows Affection IV	C10 Greats People	C11 Offens Things or Shares IV	C12 Direct Your Attention to Something		C14 Answers "Yes" and "No" IV	C15 Asias Questions			
V <u>Concrete</u> Symbols	Retuses or Rejects Something V	Requests More of an Action V	Requests a New Action V		Makes Choices V	Requests a New Object V	C7 Requests Objects that are V	Requests Attention V	Shows Affection V	Greets People V	Offers Things or Sharos V	Direct Your Attention to Something V		Answers "Yes" and "No" V	Asios Questions V	C16 Names Things or People V	C17 Makes Comments	
VI Abstract Symbols	Refuses or Rejects Something VI	Requests More of an Action VI	Requests a New Action VI	Requests More of an Object VI	Makes Choices Vi	Requests a New Object VI	Requests Objects that are VI	Requests Attention VI	Shows Affection VI	Greets People VI	Offens Things or Sharos VI	Direct Your Attention to Something VI	Usos Polite Social Forms VI	Answors "Yes" and "No" Vi	Asks Questions VI	Names Things or People VI	Makes Comments VI	
VII Language	Refuses or Rejects Something VII	Requests More of an Action VII	Requests a New Action VII	Requests More of an Object VII	Makes Choices VII	Requests a New Object VII	Requests Objects that are VII	Requests Attention VII	Shows Affection VII	Greats People VII	Offens Things or Shares VII	Direct Your Attention to Something VII		Answers "Yes" and "No" VII	Asks Questions VII	Names Things or People VII	Makes Comments VII	
4	Refuse			Obta	in					Soci	a/				Informa	tion		

Communication Matrix Profile for Parents and Professionals © 2009 Charty Rowland, Ph.D.

Standard View



Communication Matrix Profile for Parents and Professionals

Standard View

Test Materials

Standard Test stimulus

Tones, NBN, Live/recorded speech Standard Test Items PBK, W-22, NuChips, WIPI Non-Standardized Testing LING/LMH (6/10 sound test) https://hearinghealthmatters.org/hearingandkids/2021/3245/ Body parts SERT (Sound Effects Recognition Test) https://auditec.com/2015/09/29/sert/

red)		····· (
		Band 1 200-1000Hz VOICING	Band 2 1000-1500 Hz CONSONANT DIFFEREN TION	Band 3 1500-3500 Hz CONSONANT DIFFEREN TION	Band 4 3500 Hz + FRICATION
	/u/	F1:300 Hz F2: 870 Hz		F3: 2240 Hz	
	lal	F1:730 Hz	F2: 1090Hz	F3: 2440 Hz	
	/i/	F1: 270 Hz		F2: 2290 Hz F3: 3010	
	/m/	250-350	1000-1500 Hz	2500-3500 Hz	
	/sh/			1500-2000 Hz	4500-5500 Hz
Con the	/s/				5000-6000 Hz
	/dj/	200-300 Hz		2000-3000 Hz	
Sec. al	Iz/	200-400 Hz			4000-5000 Hz
	/h/			1500-2000 Hz	
	/n/	250-350 Hz	1000-1500 Hz	2000-3000 Hz	

Figure 2 – The Ling, Madell, Hewitt (LMH) Test. (Additional phonemes are in

Non-Standardized Testing

LING/LMH

- Each sound representative of a frequency range
- Can help estimate threshold levels
- Can be used to check aided function
- Can show reception or perception

BODY PARTS

- Can give estimates of speech perception
- Ear/hair, nose/toes, teeth/knee
- Can use second tester or Mr. Potato
 Head, doll/animal or self

Sound Effects Recognition Test

- Environmental Sounds Discrimination Test
- Four Pictures per page
- 3 Test lists of 10 items plus one practice page
- Can use to assess pattern recognition and/or sound discrimination
- <u>https://auditec.com/2015/09/29/sert/</u>

Speech Differentiation

Same /Different

Use Cards, Thumbs Up/Down, Nod/Shake Head

Different levels :

Monosyllabic vs bi-syllabic

Spondee words

Monosyllabic with diverse vowels

Monosyllabic with diverse consonants

Functional Listening Evaluation

- Hearing Assessment in Diverse Listening Situations
 - Mimics the hearing experience in the classroom
 - 3 feet and 12 feet
 - Quiet and competing noise
- Ideally performed in the classroom where the child learns
 - Use that classroom at an "empty" time
 - Use similar classroom (shape, size, building materials etc....)
 - Use room child is expected to be placed in next school year
- Test materials can be varied depending on the age and skills of the child
 - Open/Closed Single word lists, sentences,
- Used to inform decisions about personal amplification and HAT.
 - Add HAT, enforce HAT, purchase HAT, refit software for better access, new aids
- Used to inform teaching and communication choices
 - Spoken language, Signing systems, picture exchange systems, AAC

Questionnaires

- *LittlEARS (Med-El) up to 24 months
- ***CHILD** Children's Home Inventory of Listening Difficulties
- ***MAIS** Meaningful Auditory Integration Scale pre-school and school age
- ***IT-MAIS** Infant Meaningful Auditory Integration Scale infant/toddler
- ****PEACH** Parent's Evaluation of Auditory-Oral Performance of Children
 - Meant to be a conversation with parent, asking for examples of behaviors
- ***ELF** Early Listening Function infant to preschool
- ***COW** Children's Outcome Worksheets ages 4-12
- ***DIAL** Developmental Index of Audition and Listening infant thru age 22

Outside the Booth...collecting data

IT-MAIS

 https://www.advancedbionics.com/content/dam/advancedbionics/Documents/Regional/B R/AB_IT-MAIS_Resource.pdf

ELF

 http://successforkidswithhearingloss.com/wpcontent/uploads/2017/09/ELF_Questionnaire.pdf

ELF LING

 http://successforkidswithhearingloss.com/wp-content/uploads/2011/08/ELFLINGprocedure.pdf

FAPI

• http://www.tsbvi.edu/attachments/FunctionalAuditoryPerformanceIndicators.pdf

- https://www.youtube.com/watch?v=7ylVk9n5ne0
- Criterion Referenced
- No norms
- Ages 3 and older (thru adulthood)
 - The Functional Communication Profile Revised
 (FCP-R) allows SLPs and special educators to
 evaluate and account for some of the unique
 communication skills in individuals with
 developmental and acquired delays across a broad
 age range. It addresses all communication
 possibilities including oral language expression.

Functional Communication Profile-R

- Assessing Emergent Communication Skills (2017)
- https://link.springer.com/content/pdf/10.1007%2Fs41252-017-0043 3.pdf

Improving "Non-Standardized" Assessments
Pre-assessment Planning
Structured Sampling Tasks
Reducing Bias of Informants/Reporters
Training of Observers/Informants
Use of LENA
Recorded Eye Gaze Monitoring
Video Recordings

Other Resources

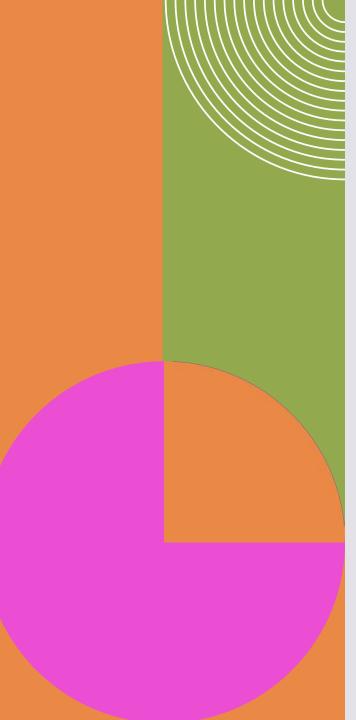
- https://www.youtube.com/watch?v=FqauMqSjyKY
- https://www.youtube.com/watch?v=rw84fwau9E4
- http://www.icfcy.org/uploads/csicy.pdf

This tool is based on the International Classification of Functioning, Disability and Health-Children & Youth Version, or the ICF-CY (World Health Organization, 2007).

designed to make goal writing easier for teachers and speech-language pathologists who work with students who rely on augmentative and alternative communication (AAC)

not an assessment, but a guide to organize your understanding of the impact of a student's communication strengths and limitations on participation at school and at home

Communication Supports Inventory - Children and Youth



Communication Plan

- Receptive vs Expressive
- Modality
- Efficiency
- Variety

- Dig deeply
- Teacher rate of Speech
- Use of visuals/context
- Classroom environment
 - Multiple Talkers in the room
 - Equipment Noise
- Classroom expectations
 - Needs of other students

THANK YOU

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