#### Early Identification of Children with Deaf-Blindness

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February 3, 2022

**Rural** Institute



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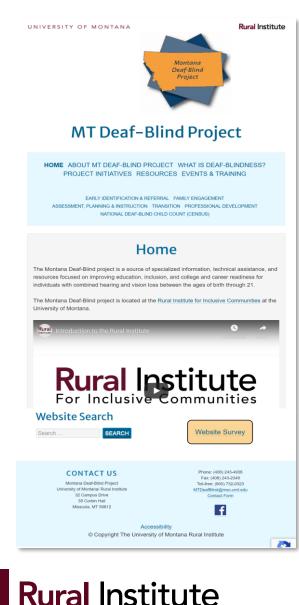
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#### Website Content Areas:

- About the Project
- What is Deaf-Blindness
- Project Initiatives
- Resources
- Events & Trainings
- Early Identification & Referral
- Family Engagement
- Assessment, Planning & Instruction
- Transition
- Professional Development
- National Deaf-Blind Child Count (Census)

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https://www.facebook.com/groups/Mont anaDBProject/

# Early Identification of Children with Deaf-Blindness

Susan M. Bashinskl

February 3, 2022

For the Montana Deaf-Blind Project

Rural Institute, University of Montana

# Agenda

- Criticality of early identification—and rationale
- Impact of combined vision and hearing losses on early development & environmental accessibility
- Risk factors associated with certain disability conditions
- Early signs of possible dual sensory loss—what is "typical" to expect?
- Authentic assessment
- Ten areas in which to focus observational assessment
- Formal assessment instruments / procedures
- Review of some key resources



Please record your thoughts, regarding how you *might* incorporate information from today's webinar in your family life / daily practice.

### Thank you!

Launch poll #1 – Who is here today?

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A child with deaf-blindness is <u>NOT</u>
a "deaf child" who cannot see <u>or</u>
a "blind child" who cannot hear

Deaf-blindness is a unique and complex disability!

# **Criticality of Early Identification**

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- Experiences "during the earliest years of life have a profound influence on a child's ability to learn, move, and interact with others"
- This is especially true for young children who experience deaf-blindness because "physical, communication, cognitive, social, and emotional developmental domains are deeply intertwined" (NCDB, 2019)
- Deaf-blindness is especially impactful because of the ways in which these limit <u>accessibility to the environment</u>

# **Criticality of Early Identification**

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- In a young child with deaf-blindness, two of her three distance senses (i.e., vision and hearing) are impacted. This means the child must use her contact senses (e.g., taste and touch) to learn about the world!
- Early identification is positively correlated with a <u>reduction</u> in the negative impacts of combined sensory loss on future development, because when combined with early intervention, gathering environmental information can be enhanced.

#### Learning is all about information gathering!

# **Identification Statistics**

- Ideally, young children who experience deafblindness will be identified <u>and referred</u> for support services as early as possible
- For several recent years, approximately only 6.0% of the children on the National DeafBlind Child Count have been ages birth through 2 years of age (NCDB, 2019)
- Approximately 20% of these infants and toddlers are identified as "at risk" and nearly all receive some sort of home-based services

# **Identification Statistics**

- What about Montana?
- During the year 2019, Montana provided support services to 43 individuals, Birth – 21 years of age, and reported an official count of 37 total
- How many of these were young children between the ages of Birth – 2 years? (launch Poll #2)

## Early Development – What's Reasonable to Expect? Vision

/	Birth – 1 mo.	1 – 3 mos.	3 – 5 mos.	5 – 7 mos.
	<ul> <li>Stares at bright sun / walls</li> <li>Blinks when light is too bright</li> <li><u>Briefly</u> looks at person's face OR object in field of vision</li> <li>Seems to focus best on objects 8-12 inches from face</li> </ul>	<ul> <li>Stares at objects within field of vision</li> <li>Eye contact increases</li> <li>Begins to shift gaze b/twn objs</li> <li>Shows some visual tracking and scanning</li> <li>Focuses best on objects 3" – 5"</li> </ul>	<ul> <li>Most objects w/in reach are looked at &amp; put in mouth</li> <li>Looks for caregiver in a group</li> <li>Watches objects drop</li> <li>Reverses direction</li> <li>Fixates on objects at 3'</li> <li>Focuses on objects 5" - 20"</li> </ul>	<ul> <li>Binocular eye movements well- coordinated</li> <li>Visually discriminates strangers (w/ emo)</li> <li>Looks at &amp; responds to variety of facial expressions</li> <li>Looks in mirror and may respond</li> </ul>

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# Early Development – What's Reasonable to Expect?

Hearing
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Birth – 3 mos.	3 – 6 mos.	6 – 12 mos.	12 – 24 mos.
<ul> <li>Startles or "jumps" when a sudden sound occurs</li> <li>Awakens or cries when loud noise or talking</li> <li>Shows recognition and / or comfort by a familiar voice</li> </ul>	<ul> <li>Turns to look for source of an interesting sound</li> <li>Respond to mother's (or primary caregiver's voice</li> <li>Turns eyes forward when his / her name is called</li> </ul>	<ul> <li>Turns body toward an interesting sound</li> <li>Searches when a new sound is present</li> <li>Demonstrates understanding of common words (e.g., "no," "bye")</li> <li>Experiments with speech &amp; non- speech sounds</li> </ul>	<ul> <li>Speaks one or more "true," recognizable words</li> <li>Pairs two words meaningfully together</li> <li>Demonstrates vocabulary of at least 50 words</li> </ul>

# **Newborn Hearing Screening**

- Hearing loss in children is the #1 disability present at birth in the U.S (i.e., AAP estimates that 1 to 3 of every 1,000 babies experiences some degree of hearing loss)
- Ninety-five percent of children are identified at birth, through universal newborn hearing screenings
- A screening takes 5 10 minutes
- One to two % of all babies do <u>not</u> pass initial screening
- ID allows fitting with hearing aids early in life or for a family to opt for a cochlear implant

# Universal hearing screening is now required by law in ALL 50 US states.

# **Newborn Hearing Screening**

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- A universal newborn hearing screening program was established in Montana in 2001
- In 2007, this law was amended to require that all infants must be screened for possible hearing loss within the first month of life (Department of Health is responsible)
- The 2007 amendments require that children referred for further screening receive such screenings and, if necessary, support services within three months of birth
- Protocols, reporting & referral procedures, and audiological assessments are addressed

#### Newborn Hearing Screening – Method #1

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#### Automated Auditory Brainstem Response (AABR)

- Measures how the hearing nerve and brain respond to sound
- Clicks or tones are played through soft earphones into the baby's ears
- Three electrodes placed on the baby's head measure the hearing nerve and brain's response



# Newborn Hearing Screening – Method #2

- Otoacoustic Emissions (OAE)
- Measures sound waves produced in the inner ear
- Tiny probe is placed just inside the baby's ear canal
- Probe measures the response (i.e., the echo) when clicks or tones are played into the baby's ears

Launch poll #3

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### Diagnoses / Conditions Frequently Associated with Dual Sensory Losses

- Extreme prematurity (retinopathy of prematurity)
- CHARGE syndrome
- Cytomegalovirus (CMV)
- Cornelia de Lange syndrome
- "Brain bleed" (intraventricular hemorrhage-IVH)
- Another syndromic condition that many individuals might never have "heard of before"

Some genetic testing might reveal an etiology with which DB is closely associated; the family can, in this case, be more proactive in preparing themselves and setting up supports <u>in</u> <u>advance</u> of the birth.

## So....How Do We Find and Identify These Young Children? CEC's Division for Early Childhood recommends that practitioners:

- work as a team with the family and other professionals to gather assessment information
- support family functioning, promote family confidence and competence, and strengthen family-child relationships by acting in ways that recognize and build on the family's strengths and capacities (i.e., in knowing their child best!)

## So....How Do We Find and Identify These Young Children?

- Have some knowledge of the milestones for "typical" visual and auditory development
- Review the medical records of a young child who is suspected of possibly experiencing deaf-blindness — especially results of newborn hearing screening
- Be generally aware of identifiable syndromes / conditions and other risk factors that are frequently associated with deaf-blindness
- Actively solicit information from family members and key care providers
- Attentively and carefully OBSERVE the child!

## So....How Do We Find and Identify These Young Children?

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• Generally, listen to comments made about the child's birth and early infancy...

EXAMPLES: "He weighed only 2.5 pounds at birth."

"She spent 7 weeks in the NICU."

"Sometimes she seems to see things, but sometimes she doesn't."

"I've never heard of this disorder, have you?"

"He has lots of ear infections, and his ears have an unusual shape, but the doctor says his hearing is fine."

## Assessment

- If a family includes older siblings / cousins, some degree of comparison is likely OK (remember that each child develops at his / her own rate)
- Looking at developmental milestone checklists, if a range of ages is projected for accomplishment of a task

[<u>NOTE</u>: Calculate true birth age, not "day born" in the case of a little baby born very prematurely]

Listen to medical professionals—but if you're a parent, "go with your gut" (if need be) and request an evaluation

- First and foremost, assessment must be <u>authentic</u> – What does this mean—and what does it entail???
  - Reliable
  - Significant
  - Meaningful
  - Repeated opportunities (to demo skill)
  - Conducted by an individual <u>who is familiar</u> <u>to the child</u> (If interaction is involved)

General elements to remember, when completing an assessment with a young child who is suspected of possibly having deaf-blindness:

- Appearance of the child's eyes / ears
- General behaviors the child routinely demonstrates
- The contexts in which the assessment will be conducted—need variety!

- In the field of deaf-blindness, the "Child-Guided Assessment" approach is one of the most reliable, recommended, <u>authentic</u> practices for completion of an authentic assessment of a child who is suspected of having deaf-blindness
- The "Child-Guided Assessment" approach is based on Jan van Dijk's framework for assessment and intervention
- This assessment approach was refined and researched by van Dijk, Catherine Nelson, and colleagues as an alternative to "traditional assessment"—in order to yield more valid information and reduce the child's stress.

#### The "Child-Guided Assessment" approach:

- relies heavily on concentrated observation
- allows the child to demonstrate his best skills in environments and routines that are <u>non-stressful</u>
- involves the assessor becoming very attuned to the child being assessed, and creating routines with him
- involves the child's interests and preferences and incorporates what motivates him
- relies on the assessor "reading" the child's emotions—and following the child's lead!

Involves partnering with that child <u>and</u>

INVITING THE CHILD "OUT," (of his / her own body) to join you in the world, to interact with the environment, and to build levels of connections

# **Important Elements of Assessment**

During an assessment, it is important to remember that a child suspected of having deaf-blindness:

- is deprived of many of the most basic extrinsic motivations (i.e., curiosity)
- experiences sensory input that is so distorted it might be ineffective as a source of motivation to explore and interact with people / the environment
- will generally not benefit from being left alone with toys / materials
- Iacks the ability to anticipate or predict events

#### Child-Guided Assessment Involves 10 Primary Areas for Observation (Bashinski's interpretation)

Biobehavioral State / Behavior State	Orienting Responses	
Approach - Withdrawal	Memory	
Sensory Learning Channel: Vision	Social Interactions	
Sensory Learning Channel: Hearing	Communication	
Sensory Learning Channel: <b>Touch</b>	Problem Solving Behaviors	

### **Biobehavioral State (Behavior State)**

- "Biobehavioral state" is defined as the level of an individual's general <u>arousal</u>
- Behavior state ranges from deep sleep to actively alert and includes drowsiness and agitation
- Research varies in the number of behavioral states reported (6 – 9)
- Behavior state in newborns is controlled internally, by the needs of the child's body, and continues to be primarily so in children who experience neurological disability

### **Biobehavioral State (Behavior State)**

 Behavior state can, to some degree, be influenced by external, environment factors

See electronic document, "Learning Environment Characteristics" by Bashinski, et al., 1995

for categories of learning environment variables that *might* be manipulated in an attempt to influence a learner's behavior state.

Launch poll #4

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### **Biobehavioral State (Behavior State)**

- To what degree does the child seem to be able to modulate / control his behavioral state?
- How much time does the child spend in a state of quiet or active alertness?
- What is the child's current behavior state?
- What environmental variables appear to possibly affect the child's behavior state?

NOTE: Content of questions is credited to van Dijk & Nelson

### Approach – Withdrawal

- Does child consistently seem to turn away (if able) from certain people / objects / activities?
- What behaviors are noted that seem to indicate the child wants to engage?
- What behaviors seem to indicate the child wants to terminate an interaction / activity (i.e., disengage)?
- What appears to be motivating to the child?

## **During Child-Guided Assessment...**

It is <u>KEY</u> to work to maximize the learner's sensory access, as the assessor is gathering information re: vision, hearing, and touch.

#### **Sensory Learning Channel: Vision**

- Examine visual engagement or disengagement, as well as whether or not the child uses vision in combination with other senses
- How does the child generally relate to visual stimuli?
- Does the child appear to "take in" information through use of his vision?

(See electronic document, "Assessment Overview," by Utley, Roman, & Nelson, 1998)

#### **Sensory Learning Channel: Hearing**

- Examine auditory engagement or disengagement, as well as whether or not the child uses his hearing in combination with other senses
- How does the child generally relate to auditory stimuli?
- Does the child appear to "take in" information through use of his hearing?
- The single most significant impact of a severe to profound hearing loss is its effect on the child's communication / language development

#### **Sensory Learning Channel: Hearing**

See electronic document, "Functional Auditory Performance Indicators [FAPI]" (Stredler-Brown & Johnson, 2003)

- Integrated approach to auditory skill development
- Examines seven (7) categories:
  - 1. Sound Awareness
  - 2. Sound is Meaningful
  - 3. Auditory Feedback
  - 4. Localizing Sound Source (i.e., the ability to localize sound might be affected by <u>type</u> of hearing loss)
  - 5. Auditory Discrimination
  - 6. Short-term Auditory Memory -
  - 7. Linguistic Auditory Processing -

linked to cognition

what brain does w/ speech

#### Sensory Learning Channel: Touch

- Examine tactile engagement or disengagement, as well as whether or not the child uses touch in combination with other senses
- How does the child generally relate to tactile stimuli?
- Does the child appear to "take in" information through use of touch?

Early expression of "memories" will likely incorporate tactile and movement aspects of the learner's experience.

Orienting Responses (involves not only an awareness of a stimulus, but also directing attention to that stimulus in some way)

- In what way(s) does this child exhibit a response that seems to indicate he is orienting to a person, sound, object, etc.? (e.g., more or less activity, various motoric responses)
- What environmental factors have been observed to elicit an orienting response from the child?
- What type(s) of sensory stimuli seem to trigger an orienting response from the child?

#### Memory

What did we discuss previously, that appear(s) to have significant impact on a child's earliest memories?

Launch poll #5

#### Memory

- Does the child seem to habituate to familiar stimuli?
- How many times does the child need to be exposed to a stimuli to demonstrate habituation?
- Does the child react differently to familiar and unfamiliar people—adults and children?
- Does the child appear to notice if features of a stimulus change?
- Are such reactions differentiated?

#### Memory

- Does the child appear to demonstrate anticipation?
- Does the child seem to associate a preceding event with one that typically follows?
- Does the child react when there is a mismatch to expectations (in #2 here)?
- Does the child demonstrate object permanence?
- Is the child able to learn a simple routine and "remember" how to actively participate in it?

#### **Social Interactions**

- When another person approaches the child, does she orient to the individual?
- Does the child appear to demonstrate that she has bonded with primary caregivers in her life?
- Does the child engage in turn-taking when another person begins such interaction?
- Does the child ever initiate turn-taking games?
- Approximately how many "turns" does the child take before she disengages?

### **Communication Reminders!**

Everyone communicates!

An assessor and the child's partner in any interactions (during the assessment) need to **EXPECT** the child to communicate.

#### Communication

- Does the child appear to initiate communication with another person, through the use of idiosyncratic <u>OR</u> conventional sounds, signals, gestures?
- Are any of the above (#1 here) used by the child consistently?
- Does the child appear to use her communication signals differently with different interaction partners?

#### Communication

To communicate what possible meanings does the child appear to use communication forms?

- If offered options, does the child make choices?
- Does the child appear able to understand that one item or symbol "stands for" an activity / person / object?

#### **Problem Solving Behaviors**

- Does the child demonstrate and / or appear to understand cause and effect relationships?
- Does the child appear to understand "means ends" behavior—that is, the use of an intermediate action to solve a problem?
- Does the child demonstrate appropriate use of the function of common objects?
- Does the child demonstrate task persistence?
- Does the child maintain attention over time?

### **Formal Assessment Instruments**

#### MacArthur-Bates Communicative Development Inventories

- "<u>Words & Gestures</u>" form (8 18 months) documents a child's understanding and production of early vocabulary items and communicative and symbolic gestures
- "Words & Sentences" form (16 30 months) documents a child's production of words and early forms of grammar

"<u>CDI-III</u>" (30 – 37 months)

measures a child's expressive vocabulary and grammar

### Formal Assessment Instruments

#### Ages and Stages Questionnaires—ASQ-3

- gold-standard form for developmental screening
- assesses skills in communication, gross motor, fine motor, problem solving, and personal-social
- assesses skills across the age range of 1 66 months
- the questionnaire is estimated to require 10 15 minutes time for a family to complete; 2 – 3 minutes for a professional to score
- available in Spanish, French, Chinese, Arabic, & Vietnamese

**Early Identification and Referral Toolbox** (NCDB, 2019) https://www.nationaldb.org/products/ei-toolbox/

- Part C of IDEA "The Program for Infants and Toddlers with Disabilities" (e.g., procedures, partnership info, ideas for addressing ID and referral challenges)
- EHDI Early hearing detection and Intervention programs (e.g., screening by 1 month; intervention services by 6 months, if diagnosed)
- Hands & Voices a parent organization that works in close partnership with EHDI (e.g., partnership info, ideas for addressing ID and referral challenges)
- Health Care System (e.g., organization and information)

- Early Identification and Referral Self-Assessment Guide (NCDB, 2019)
  - <u>https://www.nationaldb.org/media/doc/EIR\_SelfAsses</u> <u>smentGuide\_041018.pdf</u>
  - 35-page manual
  - Review of data
  - Detailed analysis re: under-identification of infants and toddlers < 2 years of age</p>
  - Detailed analysis re: under-referral of infants and toddlers < 2 years of age</p>
  - Suggestions for developing an action plan

H.E.A.R.: Hierarchy of Early Auditory Responses (See electronic document provided, by Lee, Dearman, & Hopkins, 2007)

This document breaks down <u>six categories of auditory skills</u>, according to expected achievement in 3 month intervals (Birth through 18 months of age).

The document also provides EXAMPLES.

Awareness of sound	Comprehension of sound
Sound source localization	Imitation (of sound)
Social responses	Vocalizations / Verbalizations

Numerous state deaf-blind project webpages (other than from the MT Deaf-Blind Project) include info: Washington state

"Signs, Symptoms & Risk Factors" that may indicate vision OR hearing loss in young children

Observations: Signs, Sy That May Indicate Visual Im		• · ·	ymptoms & Risk Factors ng Loss in Young Children	
Signs & Symptoms	Risk Fac	Associated with Hearing Loss		
Atypical Appearance of Eyes:	Family History:	Atypical Appearance of Face or Ears:	Atypical Vocal Development Has limited vocalizations	
<ul> <li>Drooping eyelid obscuring pupil (<i>ptosis</i>)</li> <li>One eye slightly higher or lower than the other eye</li> </ul>	Family history of vi hereditary childhoc	<ul> <li>Malformations of head or neck</li> <li>Malformations of the ears, including lack of</li> <li>Frequent earaches or ear infections (otitis media)</li> </ul>	<ul> <li>Has abnormalities in voice, intonation or articulation</li> <li>Shows delay in lang. development (e.g., no spoken words at 15 mo; fewer than 50 words at 24 mo)</li> </ul>	
<ul> <li>Obvious abnormalities in the shape or structure of the eyes</li> </ul>	Prenatal History:	Discharge from the ears	Other Behaviors	
Absence of a clear, black pupil	Mother has history	Atypical Listening Behaviors:	Pulls on ears or puts hands over ears	
<ul> <li>Persistent redness of conjunctiva (normally white)</li> <li>Persistent tearing without crying</li> </ul>	pregnancy (toxopla cytomegalovirus, h	<ul> <li>Few or inconsistent responses to sounds</li> <li>Does not seem to listen</li> <li>Does not respond to caregivers calling his/her</li> </ul>	<ul> <li>Breathes through mouth</li> <li>Cocks head to one side</li> <li>(Sources: Chen, 1998, 1990; Gatty, 1996; Fewell,</li> </ul>	
<ul> <li>High sensitivity to bright light (observe squinting, closing eyes, or turning away)</li> </ul>	<ul> <li>Child was exposed prenatally</li> </ul>	Shows a preference for certain types of sounds	1983; Joint Committee on Infant Hearing, 1991)	

#### Washington state (continued)

 A developmental screening checklist for "Functional Vision" (Birth through 5 years) and "Observations: Developmental Skills Related to Hearing in Young Children (Birth though 36 months)

#### **Developmental Screening Checklist: Functional Vision**

	Birth to C	)ne	Month		
•	Stares at windows and bright walls	•	Eyes turn the opposite direction that the head turns		HEARING: Does the Ch
•	Blinks when light is too bright		or tilts; this reflex is inhibited after the first few weeks as a child's fixation increases (doll's eye		BIRTH - 3 MONTHS OLD:
•	When penlight is shone into the eyes, pupils		reflex)		Startle or jump when there is sound?
	constrict; when light is removed, pupils dilate (pupillary response)	•	Grasping, looking, and sucking occur in isolation of		Stir or awaken from sleep, or
•	Looks at faces briefly		each other; hands are usually fisted Seems to focus the best on objects 8-12 inches from		talks or makes a noise? Recognize and get comforted
•	Looks briefly at objects placed in field of vision		face		voice? BY 3 – 6 MONTHS OLD:
	One to Thr	ee	Months	1	Turn his/her eyes to look for a
•	Stares at objects within field of vision	•	Follows movement of person nearby		sound?
•	Eye-to-eye contact increases	•	Looks at hand on side favored by tonic neck reflex;		Respond to mother's or careg Turn eyes forward when his/h
•	At one month, looks at outside features of face such		may swipe at objects on this side		BY 6 – 12 MONTHS OLD:
	as hairline, ears, chin	•	Visually inspects nearby surroundings; may move head and eyes as well as body toward the stimulus		Turn toward an interesting so
•	At two months, looks at inside features such as eyes, nose, mouth, eyebrows	•	Prefers to look at some pictures, people, or toys		caregiver when his/her name behind?
	Eve movemente are nearly coordinated and even		longer than others; alerts to a favorite object		Search or look around when r

Related to H	in Young Children			
EARING: Does the Child	<b>Y</b> √	N √		HEARING: Does the Child
RTH – 3 MONTHS OLD:			Ι	24 – 30 MONTHS OLD:
artle or jump when there is a sudden loud und?				Follow two requests ("Get the ball and pu the table")? (24 mos.)
r or awaken from sleep, or cry, when someone ks or makes a noise?				Understand conversation easily?
cognize and get comforted by a familiar ice?				Identify objects in a book by pointing to the when they are named?
( 3 – 6 MONTHS OLD:			I	Hear when you call from another room?
rn his/her eyes to look for an interesting und?				Produce the following sounds clearly: P,B,M,K,G,W,H,N,T,D ?
spond to mother's or caregiver's voice?				Use three-word sentences?
rn eyes forward when his/her name is called?				Use past tense verbs?
( 6 – 12 MONTHS OLD:				Name five pictures?
rn toward an interesting sound or toward regiver when his/her name is called from hind?				Answer questions? Replace "jargon" with sentences?
arch or look around when new sounds are				Use 1-2 prepositions (in. on. under)?

**Observations: Developmental Skills** 



### Learners who experience deafblindness are an incredibly <u>heterogeneous</u> group!

### **Thank You!**

I sincerely appreciate your participation today! Please feel free to contact me with any questions:

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