

Virtual Site Visits (VSV)

Supporting the Newborn Hearing Screening Program in Colorado

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Special thanks to:

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Madison Romero, AuD Student & LEND trainee

Colorado Hearing (CO-Hear) Resource Coordinators



COEHDI

Colorado Early Hearing
Detection and Intervention



University of Colorado **Boulder**

Colorado Chapter

American Academy of Pediatrics

DEDICATED TO THE HEALTH OF ALL CHILDREN®



COLORADO
HANDS & VOICES™

How VSV Came About in Colorado



- Our 52 birthing facilities have unique NBHS practices; we sought information to guide system uniformity and suggest enhancements
- COEHDI adopted NCHAM's VSV Curriculum (Randi Winston Gerson)
- COEHDI, in partnership with CO Hands & Voices, adapted the VSV Curriculum (with NCHAM permission); uploaded data to Google Workspace for easy recording and analyses
- Compiled a comprehensive team

Our Team: The Whole System

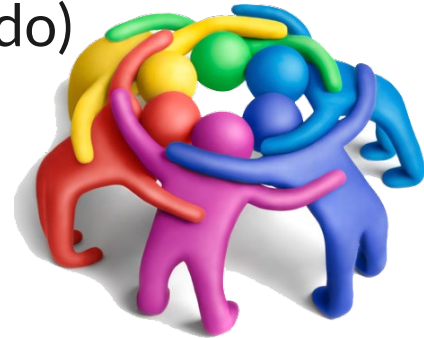
Co-Facilitators: CO-EHDI Coordinator and Executive Director of CO Hands & Voices

CO-EHDI Contracted Audiologist (University of Colorado)

Pediatrician to support cCMV targeted screening

LEND Trainee (also an AuD student)

Colorado Hearing (CO-Hear) Resource Coordinator (EI system)

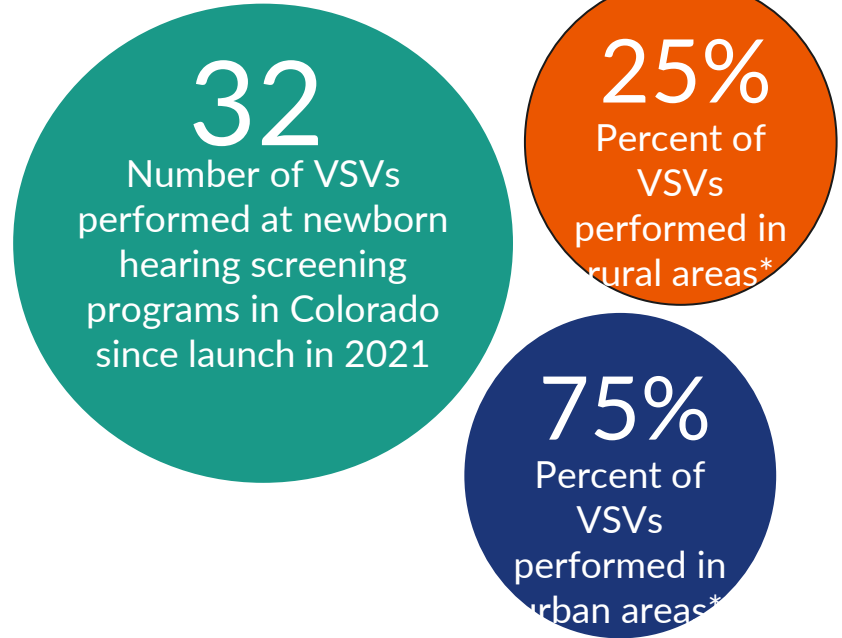


Recruitment

Hospitals contacted by email to schedule a 1-hour VSV held via Zoom

Don't give up! Up to 5-6 requests are sometimes required; no one has denied a visit

Prior to, or during the visit, hospitals were asked to share their quarterly NBHS data report



*Rural \leq 49,999; *Metro \geq 50,000

Congenital Cytomegalovirus (cCMV)

By age 4: cCMV accounts for 25% of non-genetic hearing differences

Fewer than $\frac{1}{2}$ to $\frac{1}{3}$ of infants are being identified

cCMV discussion illustrates one of the big reasons (the why) for NBHS

cCMV is common. Infection occurs in 1 in every 200 infants

Robust NBHS does identify many children with cCMV with targeted testing

Investigating cCMV during VSVs

Because of the high incidence of hearing differences amongst the cCMV population, and inclusion by NCHAM, this was included in our VSV Project

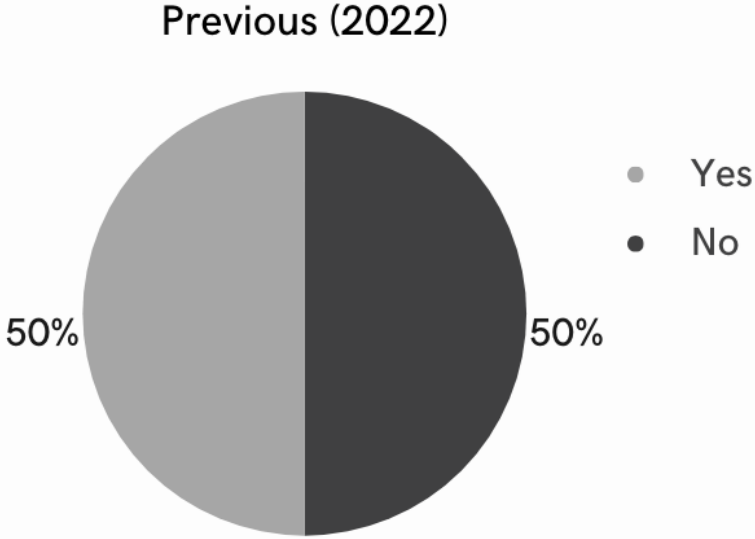
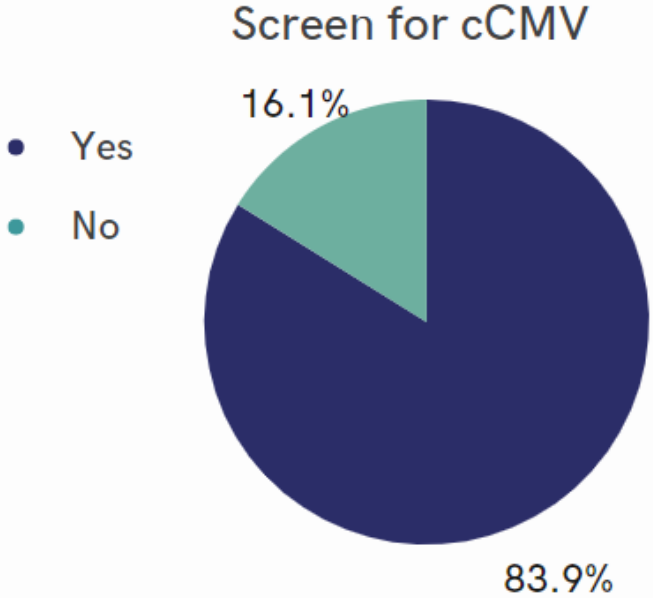
CO does not currently have legislation on screening for cCMV (but it is currently before the BOH)

In an effort to implement targeted testing in CO newborns, the CO Chapter of the AAP created a workgroup to address screening of newborns based on risk factors (did not pass NBHS, low birth weight, small head size, etc)

During the VSV we gather information on how this process is implemented

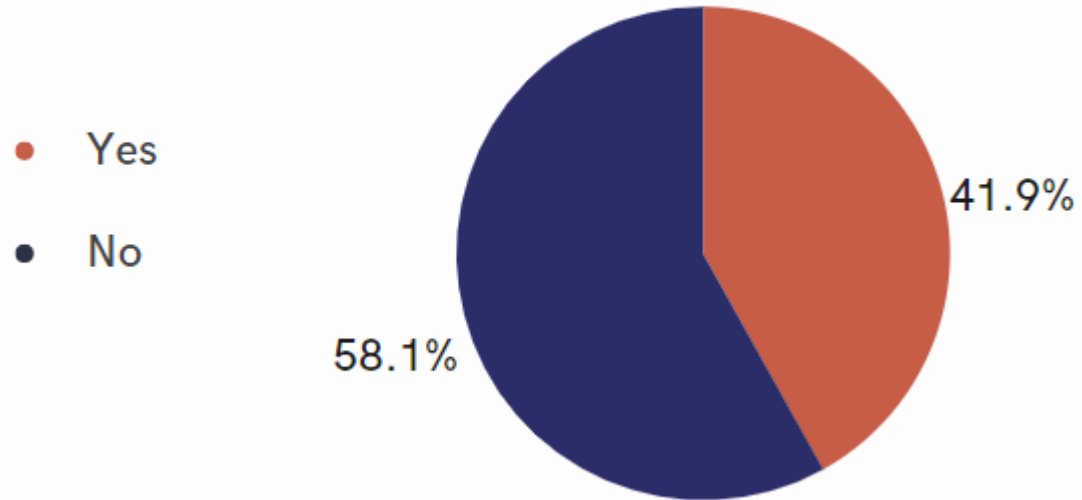
Follow-up CMV Education is offered to facilities; led by Dr. Kirsten Nelson and Dr. Ted Maynard (CO-AAP)

cCMV Targeted Screening



cCMV Brochures

Provide Family with Brochures on cCMV

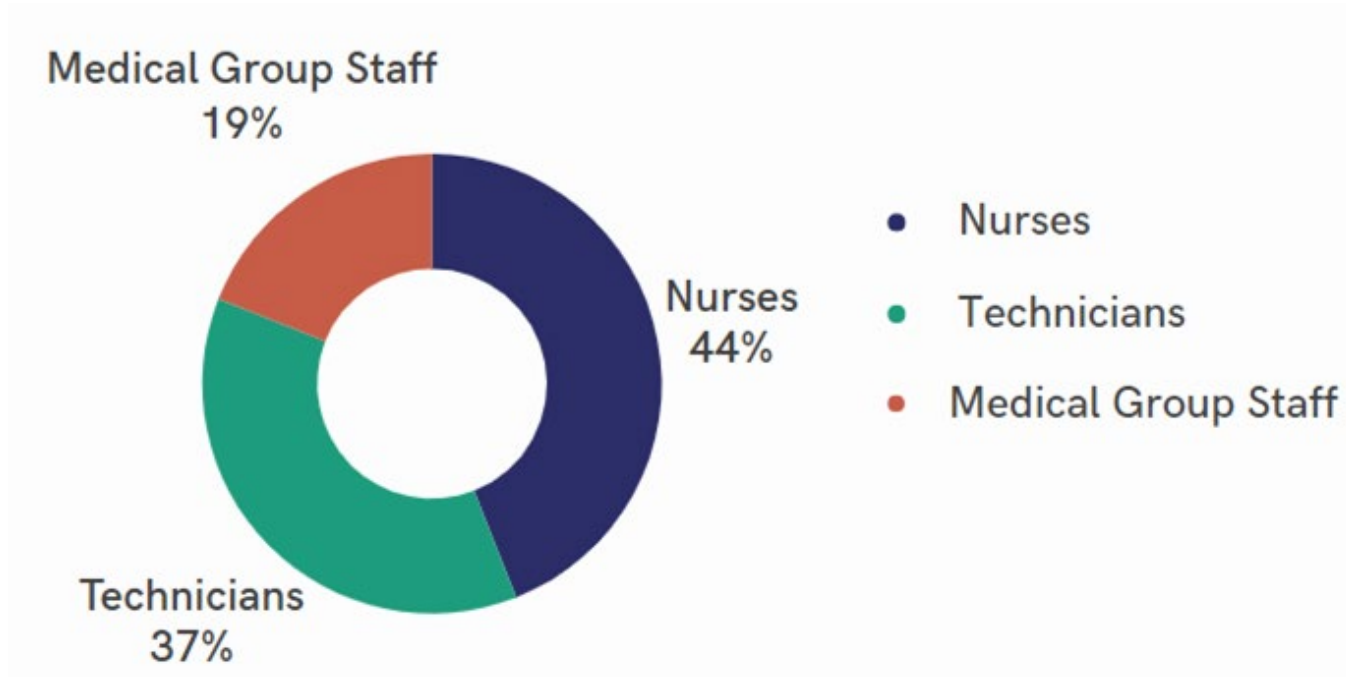


Data Informs Practice

EVIDENCE BASED



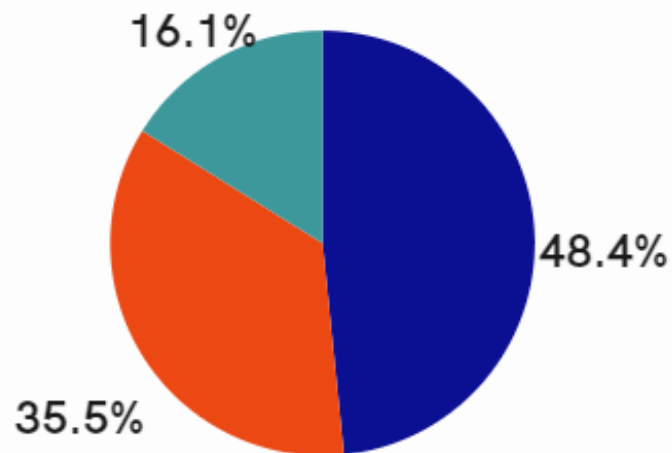
Newborn Hearing Screener Background



Training of Newborn Hearing Screeners

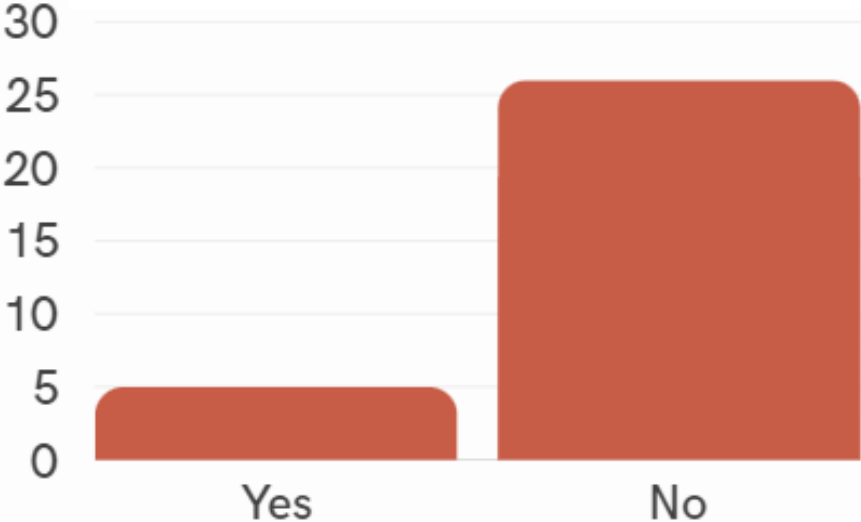
100% of hospitals interviewed provide some type of training in NBHS. However, the format and type of training widely varies.

- Hands-on training by newborn hearing screening coordinator
- Hands-on training by nurse manager
- Other (e.g. NCHAM training curriculum)



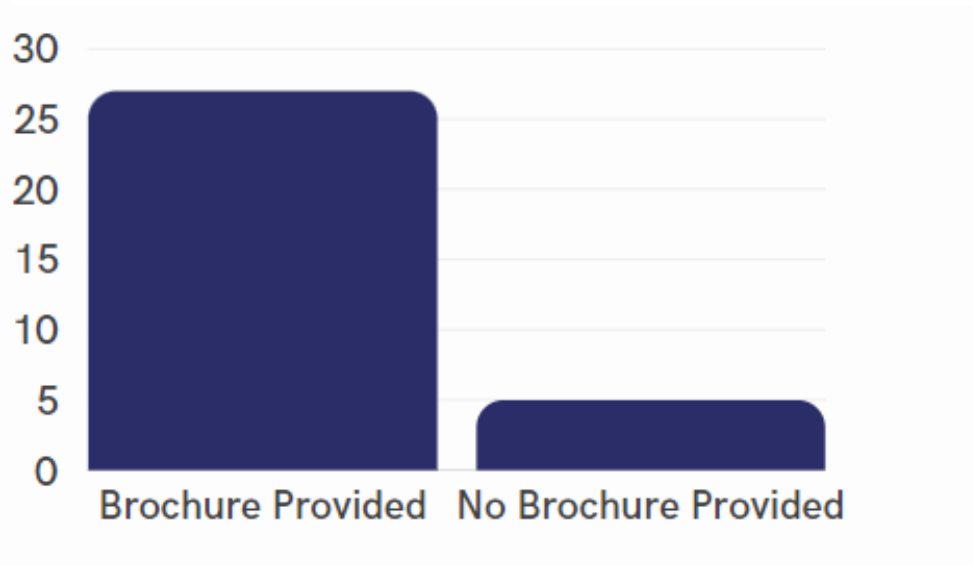
On-Site Audiology Support

16% of hospitals
have on-site
audiology support



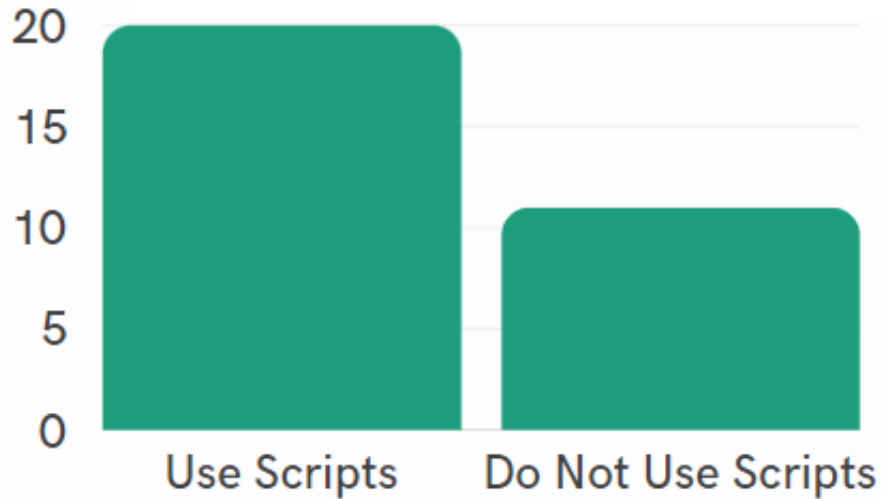
Informational Brochures

13% of hospitals surveyed do not provide informational brochures to families about newborn hearing screening, results, or next steps



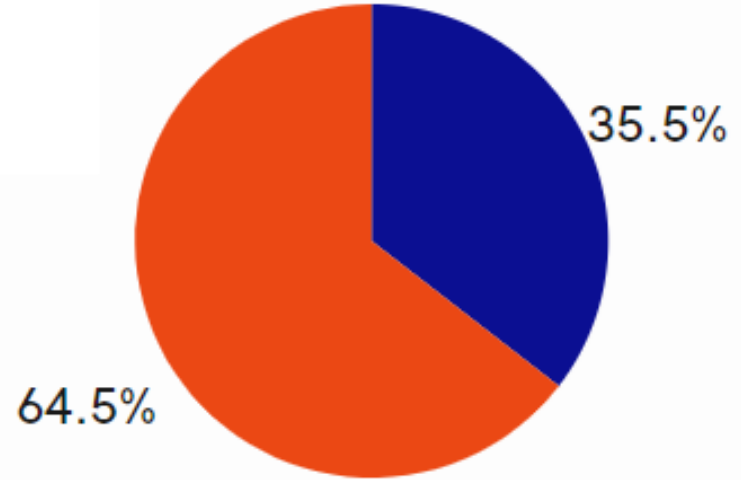
Use of Screener Scripts

36% of hospitals surveyed do not use scripts when explaining NBHS procedures or communicating results with families



Late Onset, Progressive Hearing Loss & Risk Factors

- Yes, this information is shared
- No, this information is not shared



Data Analysis and Trends

How Newborn Hearing Screening Results
are Relayed to Physicians

Fax and Discharge Summary
12%



Discharge Summary Only
88%

- Results relayed on discharge summary only
- Results relayed via fax + discharge summary

After the VSV Visit: Summary & Recommendations

- Access to audiology technical support (from Colorado EHDI)
- CO-EHDI Newborn Hearing Screening Brochure
- NCHAM Newborn Hearing Screening Training Curriculum
- Scripts for screeners to use when talking to families
- Contacts for family supports (CO Hands & Voices and EI)
- EHDI PALS
- Colorado Hands & Voices Roadmap; Hands & Voices Virtual Waiting Room
- Ongoing cCMV Education from the CO-AAP



Colorado's VSVs have impacted screening procedures, informed policies, supported trainings, & addressed gaps. This has led to statewide improvements. Changes directly affect families, & their experience with the NBHS program in CO hospitals.

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