

#### **Expanding Access to Pediatric Diagnostic Audiology**

Early Hearing Detection and Intervention Meeting, 2024

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Massachusetts Department of Public Health
Universal Newborn Hearing Screening





# Genesis of Project



CARES Act funding, Maternal and Child Health Telehealth Capacity in Public Health Systems Direct Awards



Received \$50K, equipment purchases allowed



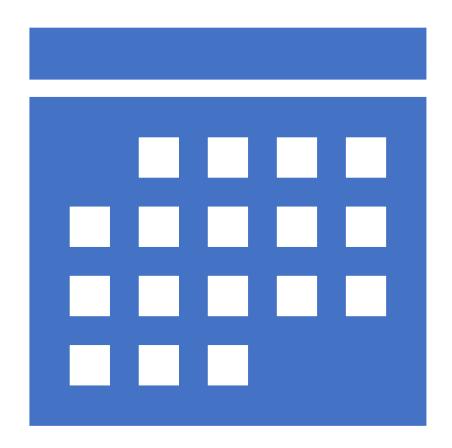
Demonstration project

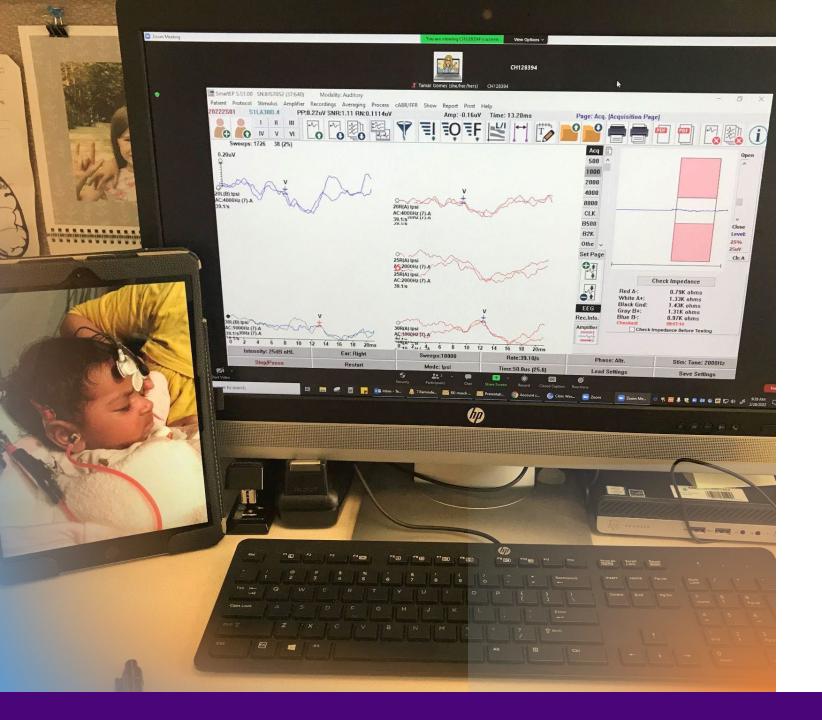


Collaboration between MA DPH, Boston Children's Hospital and Cape Cod Hospital

#### **Timeline**

- Project funding period October 2020-April 2021, no cost extension until June 2021
- Project put on hold to work out legal, administrative and billing issues
- Restarted February 2022

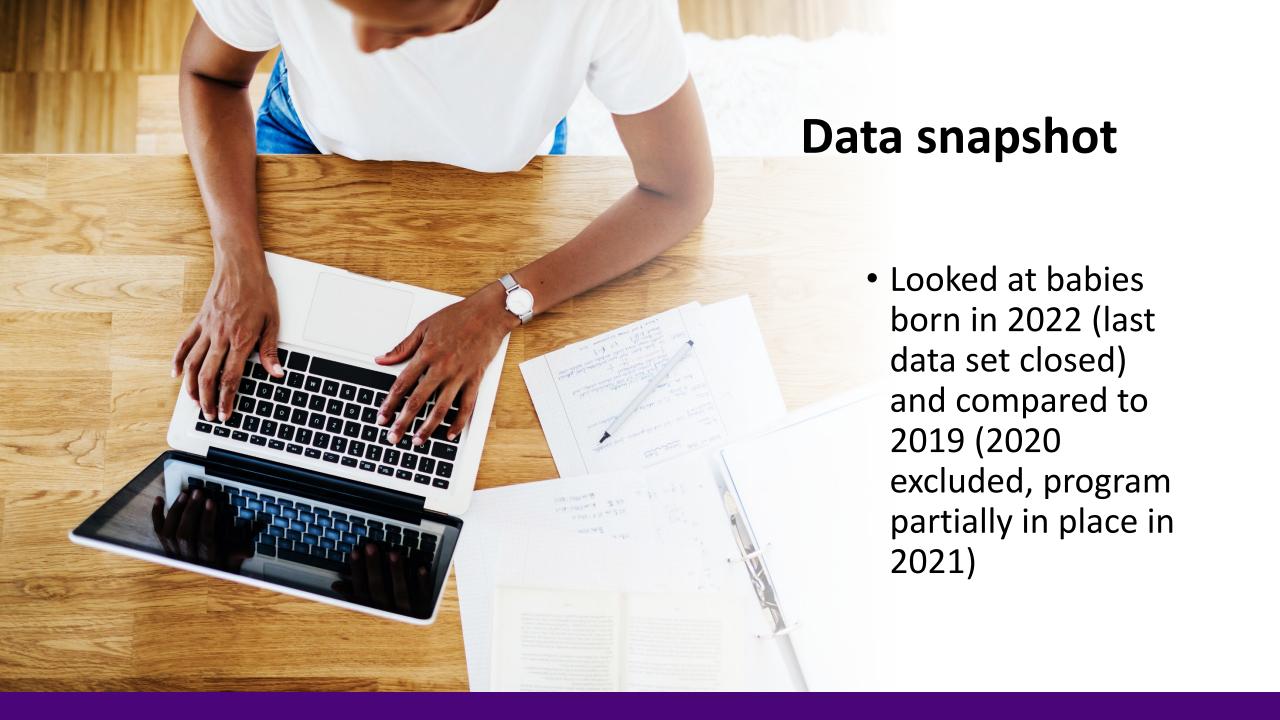




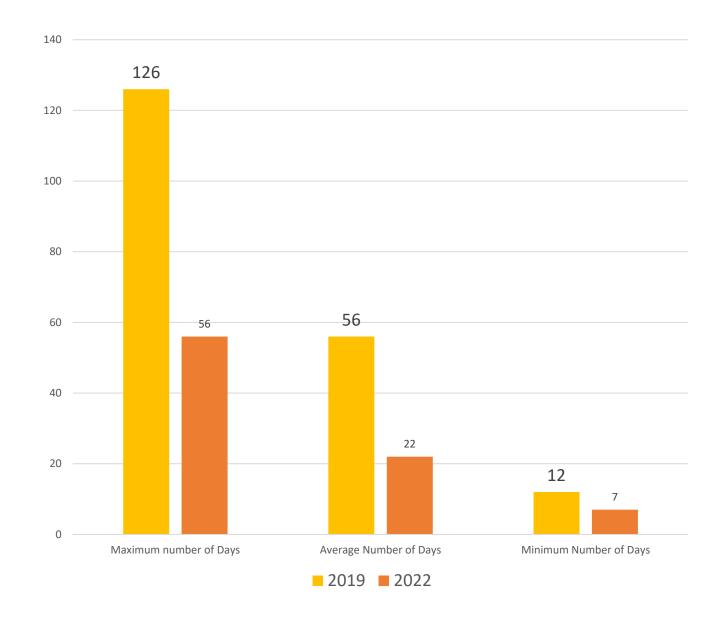
#### **How it works**

- Babies in the area that refer on their hearing screen are offered an appointment for diagnostic testing performed remotely at Cape Cod Hospital
- Appointments are twice a month on Fridays
- Family goes to CCH, nurses from CCH have been trained to assist with diagnostic testing
- Audiologist at Boston Children's remotely controls the testing
- If additional testing is needed, family is referred to a Boston Children's site
- Results are reported to EHDI program
- EHDI program owns equipment and pays for annual calibration





Time Between Screening and first Diagnostic **Appointment** (Babies that did not pass screen at Cape Cod Hospital and evaluated at Remote ABR site)









#### What do families think?

• Phone survey of mothers of babies born in 2022, 27 were seen at the remote ABR site

- 11 mothers answered the phone, 10 of those remembered the hearing testing
- 9 spoke English, 1 Haitian Creole and an interpreter was used
- 10 did not pick up call, name not in voice mail
- 5 were no longer valid phone numbers
- 1 message was left, never connected





#### What do families think?

- 9 of 10 reported they were very satisfied with scheduling (1 did not remember the scheduling process)
- 9 of 10 reported they were very satisfied with appointment availability
- 8 of 10 reported they were very satisfied with the travel time to the appointment
- 10 out of 10 reported that they were very satisfied with the overall experience
- 10 out of 10 would recommend remote ABR testing to other families

## **Conclusions and Future Activities**

- Limitations of small numbers
- Improvement to the EHDI goal of diagnosis by three months of age
- No families identified with a child with reduced hearing through the program in 2022
- Continue to monitor timeliness





### Thank you!

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