

# Interdisciplinary Collaboration to Change Policy in Tele-Intervention

Joy Kearns, MS, CCC-SLP, LSLS Cert. AVEd. Director, BabyTalk Teletherapy Program Administrator, Weingarten Children's Center

Dylan K. Chan, MD, PhD, FAAP Director, Children's Communication Center AAP CA Chapter 1 Champion Early Hearing Detection and Intervention Assistant Professor Pediatric Otolaryngology-Head and Neck Surgery University of California, San Francisco

EHDI 2019 Hyatt Regency O'Hare Tuesday, March 5, 4:20-4:45 Malpensa



Teletherapy to improve access to aural habilitation

- Can teletherapy address disparities in access to hearing health care?
- Creating a sustainable teletherapy program

Changing policy to sustain teletherapy

- Getting in the door
- Making the argument
- Implementation
- Building on the future



Teletherapy to improve access to aural habilitation

- Can teletherapy address disparities in access to hearing health care?
- Creating a sustainable teletherapy program

### Changing policy to sustain teletherapy

- Getting in the door
- Making the argument
- Implementation
- Building on the future





# Hearing health disparities Access

Hearing loss is a low-incidence condition (1:1000 with severe HL) that affects low SES, racial/ethnic/linguistic minorites, and rural populations disproportionately



# Counties with 1 or fewer expected DHH child/year



# Hearing health disparities Access

Distribution of trained providers with expertise working with children with hearing loss is uneven.





Dylan





## Hearing health disparities Access

Teletherapy can extend the reach of trained providers





Teletherapy can be a means to improve access to linguistically-matched, culturally-competent, specialty-trained providers

What has been our experience/challenges in developing a sustainable teletherapy program?



### Teletherapy to improve access to aural habilitation

- Can teletherapy address disparities in access to hearing health care?
- Creating a sustainable teletherapy program

### Changing policy to sustain teletherapy

- Getting in the door
- Making the argument
- Implementation
- Building on the future

# BabyTalk









Stanford University Medical Center



A cooperative offering between Weingarten Children's Center, an Option School/LSL Center of Excellence and Stanford University. Originally funded with "seed money"; a 3 year "start up" grant – the program was a test case for how telemedicine can make patient's lives easier, save money, and bring specialized medical care to underserved and remote communities.

Kelly, H. (2015, February 8.) Reaching deaf babies with implants, iPads and therapy. *CNN*. Retrieved from http://money.cnn.com/2015/02/09/technology/ipads-deaf-kids-therapy/

# WHY BABYTALK?

- Because only 6% of children who are D/HH in CA are receiving specialized services from the CA Schools for the Deaf (ASL) or an Option School (LSL).
- LSL certified providers and centers in only 12 of 58 (21%) CA counties with 31 of 51 (61%) in a single county (Los Angeles County).
- Because teletherapy improves access to linguisticallymatched, culturally-competent, specialty-trained providers.





Parent-Coaching Model

Birth to 3.5 years

Known hearing loss, using appropriate amplification

Consultative services too

Parent/child

### iPad/FaceTime







 BabyTalk is an "add on" to "usual care", which in CA typically means inperson home visits from a local itinerant teacher of the D/HH or SLP Part C provider. We are finding that through the BabyTalk teleintervention program we can improve a family's access to quality, specialized LSL services, thus addressing disparities in language outcomes.



 BabyTalk emphasizes collaboration with the child's hearing healthcare team and the family's local early intervention team members, because we are "in addition to" not "instead of".



In contrast to the uneven geographic distribution of LSLcertified therapists/centers (only 21% of counties with 61% of therapists concentrated in a single county), BT families were distributed across 64% of CA counties.



Teletherapy National Variability/Ch allenges

- Medical Model vs Educational Model or BOTH – for Early Intervention?
- It's different in every state <u>https://www.asha.org/advocacy/state/</u>





In CA, do families access these services through the educational or medical model?

Do IDEA Part C (IFSP) Services Pay for BabyTalk Teletherapy?

RARELY. In the last 6 years only 3 children have had their BabyTalk services paid by their County/SELPA as part of their IFSP services, though MANY have asked.

# AB 415 The Telehealth Advancement Act

### Does private insurance pay for BabyTalk tele-speech therapy?

Often – thanks to AB 415, The Telehealth Advancement Act, which recommends coverage for services that are provided via telehealth to the same degree as equivalent in-person services.

### **California Telepractice State Licensure Board Requirements**

California has a <u>policy</u> related to the use of telepractice for audiologists and speechlanguage pathologists.

Telehealth is viewed as mode of delivery of health care services, not a separate form of practice. There are no legal prohibitions to using technology in the practice of speechlanguage pathology, audiology, or hearing aid dispensing, as long as the practice is done by a California licensed practitioner. Telehealth...typically involves the application of videoconferencing...The standard of care is the same whether the patient is seen in-person, through telehealth or other methods of electronically enabled health care.

<u>https://www.asha.org/Advocacy/state/info/CA/California-Telepractice-Requirements/</u>



### Teletherapy to improve access to aural habilitation

- Can teletherapy address disparities in access to hearing health care?
- Creating a sustainable teletherapy program

### Changing policy to sustain teletherapy

- Getting in the door
- Making the argument
- Implementation
- Building on the future

# **Teletherapy Addressing Challenges**





- How did we start the conversation with the folks at MediCal/CCS?
- What did they want to know?

# Making it Real in the Home!

https://youtu.be/vbPSuxKUTIo





### Teletherapy to improve access to aural habilitation

- Can teletherapy address disparities in access to hearing health care?
- Creating a sustainable teletherapy program

### Changing policy to sustain teletherapy

- Getting in the door
- Making the argument
- Implementation
- Building on the future

## Presentation of Evidence Key Questions



Key question #1: Are home-based intervention services (including speech therapy) equivalent to center-based services for DHH children?

Key Question #2: Are outcomes with speech-language teletherapy equivalent to those achieved with in-person therapy for DHH children?

Key Question #3: What is the role of speech teletherapy in addressing disparities in hearing health care?

## Presentation of Evidence Key Questions



Key question #1: Are home-based intervention services (including speech therapy) equivalent to center-based services for DHH children?

Key Question #2: Are outcomes with speech-language teletherapy equivalent to those achieved with in-person therapy for DHH children?

Key Question #3: What is the role of speech-language teletherapy in addressing disparities in hearing health care?

### Home-based Early Intervention



BEST PRACTICES FOR EARLY START FOR INFANTS AND TODDLERS WHO ARE DEAF OR HARD OF HEARING

Recommendations from the California Deaf and Hard of Hearing Early Start Workgroup

Project Funded by the Maternal and Child Health Bureau Universal Newborn Hearing Screening Grant

California Department of Education 2005

## Home-based Early Intervention

Family Centered Services. The parents are considered to be the child's primary teacher, such that the child is receiving communication experiences in the natural environment (i.e., everyday routines, relationships, activities, places and partnerships).

"To the extent possible, services for infants and toddlers who are DHH and their families should be provided to promote natural environments, with appropriate accommodations to ensure the infant or toddler has complete access to the language of the environment

### Home-based Early Intervention



American Academy of Pediatrics



FROM THE AMERICAN ACADEMY OF PEDIATRICS

Guidance for the Clinician in Rendering Pediatric Care

CLINICAL REPORT

Early Intervention, IDEA Part C Services, and the Medical Home: Collaboration for Best Practice and Best Outcomes

"The most recent reauthorization of IDEA Part C in 2004 placed increasing importance on quality measures of outcome, provision of services in the child's natural environment..."

Adams (2013), Pediatrics

# Presentation of Evidence Key Questions



Key question #1: Are home-based intervention services (including speech therapy) equivalent to center-based services for DHH children?

Key Question #2: Are outcomes with speech-language teletherapy equivalent to those achieved with in-person therapy for DHH children?

Key Question #3: What is the role of speech-language teletherapy in addressing disparities in hearing health care?

### Speech Therapy In-person vs. Remote



Infants & Young Children Vol. 30, No. 2, pp. 147-161 Copyright © 2017 Wolters Kluwer Health, Inc. All rights reserved.

### A Multisite Study Evaluating the Benefits of Early Intervention via Telepractice

Diane D. Behl, MEd; Kristina Blaiser, PhD; Gina Cook, PhD; Tyson Barrett, BS; Catherine Callow-Heusser, PhD; Betsy Moog Brooks, MS; Pamela Dawson, MEd; Suzanne Quigley, PhD; Karl R. White, PhD

"On average, families and children receiving services via telepractice had at least the same if not better language outcomes and auditory skills than children who received services solely through traditional in-person visits"

### **Teletherapy Baby Talk - Hearing**





Kearns and Fitzgerald, unpublished

### Teletherapy Baby Talk - Language





Kearns and Fitzgerald, unpublished

### **Teletherapy Baby Talk - Communication**



Kearns and Fitzgerald, unpublished

# Presentation of Evidence Key Questions



Key question #1: Are home-based intervention services (including speech therapy) equivalent to center-based services for DHH children?

Key Question #2: Are outcomes with speech-language teletherapy equivalent to those achieved with in-person therapy for DHH children?

Key Question #3: What is the role of speech-language teletherapy in addressing disparities in hearing health care?

# Hearing health disparities Access



### REVIEW



Disparities in access to pediatric hearing health care

Matthew L. Bush, Michael R. Kaufman, and Beth N. McNulty

"Telemedicine can also be utilized to address unmet need for speech therapy services [33]. Delivery of remote speech therapy is highly acceptable to parents [72,73], and the outcomes are comparable with in-person therapy [74,75]."

### **Teletherapy Addressing Disparities**



Retrospective data with significant confounders Could teletherapy be effective at reducing hearing health care disparities? Dylan



# Summary Teletherapy

- The preponderance of evidence suggests that home-based speech-language teletherapy has at least equivalent, if not better, efficacy to in-person therapy
- There is considerable potential for teletherapy to reduce disparities in outcomes in California
- We recommend that home-based speechlanguage teletherapy be an equivalent covered benefit to in-person speech therapy under CCS SAR 04 for DHH children.



### Teletherapy to improve access to aural habilitation

- Can teletherapy address disparities in access to hearing health care?
- Challenges to creating a sustainable teletherapy program

### Changing policy to sustain teletherapy

- Getting in the door
- Making the argument
- Implementation
- Building on the future



# **Teletherapy Implementation**

Challenges in implementation...

- Insurance contracts
- MediCal/CCS credentialing
- Who pays the shortfall?
- Exploring models for ongoing collaboration (partnering of non-profits and larger health care centers)



### Teletherapy to improve access to aural habilitation

- Can teletherapy address disparities in access to hearing health care?
- Challenges to creating a sustainable teletherapy program

### Changing policy to sustain teletherapy

- Getting in the door
- Making the argument
- Implementation
- Building on the future



Patient-centered outcomes Stakeholder advisory group Real-life comparative effectiveness trial Does supplemental speech-language teletherapy reduce disparities in hearing health care?

Dylan



### Discussion