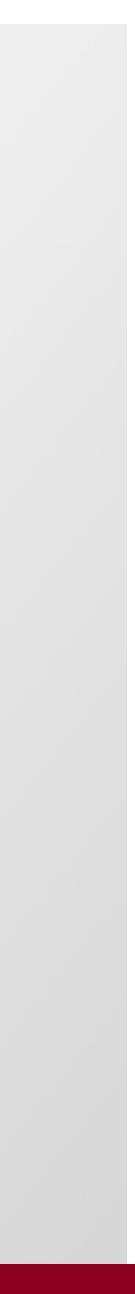


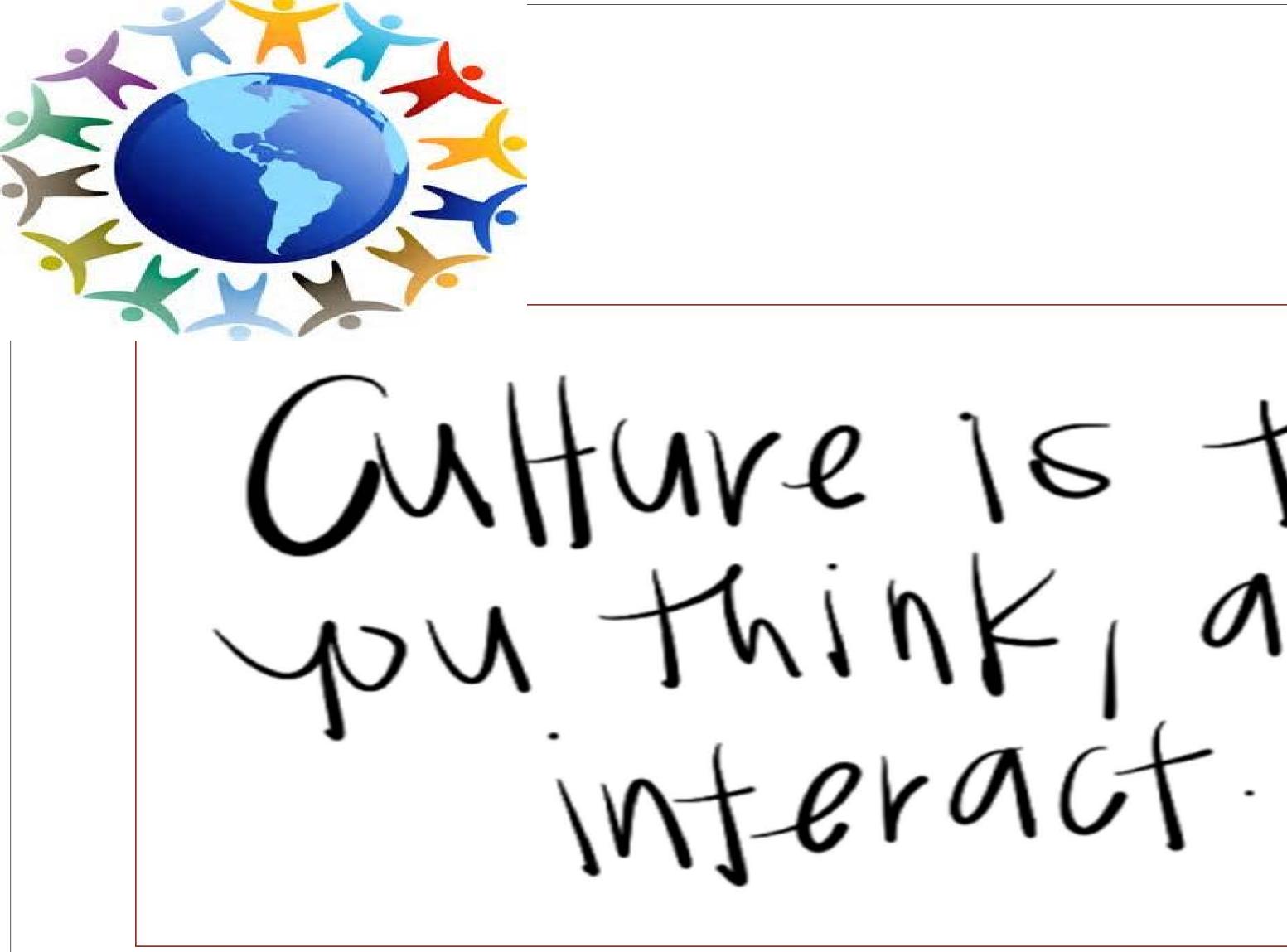
THE UNIVERSITY OF CHICAGO MEDICINE

A Cross Cultural Approach: The path to addressing health and language disparities in pediatric hearing loss

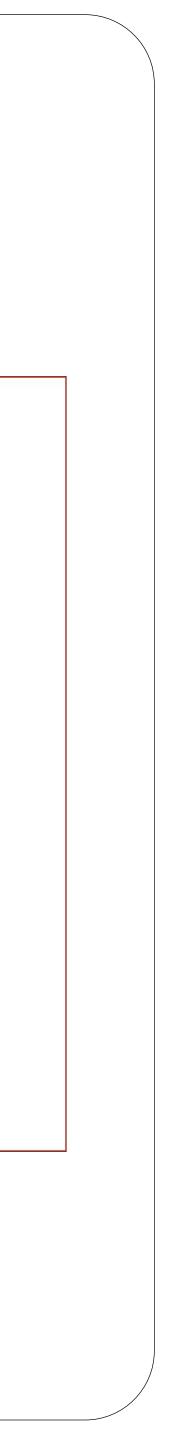
Alejandra Ullauri, Au.D., MPH, CCC-A Sally Tannenbaum-Katsaggelos, M.Ed., DT/H, LSLS Cert. AVT Dana Suskind, M.D.

Department of Ear, Nose, Throat, Head and Neck Surgery Pediatric Hearing Loss and Cochlear Implant Program





Culture 15 the way pu think, act, and

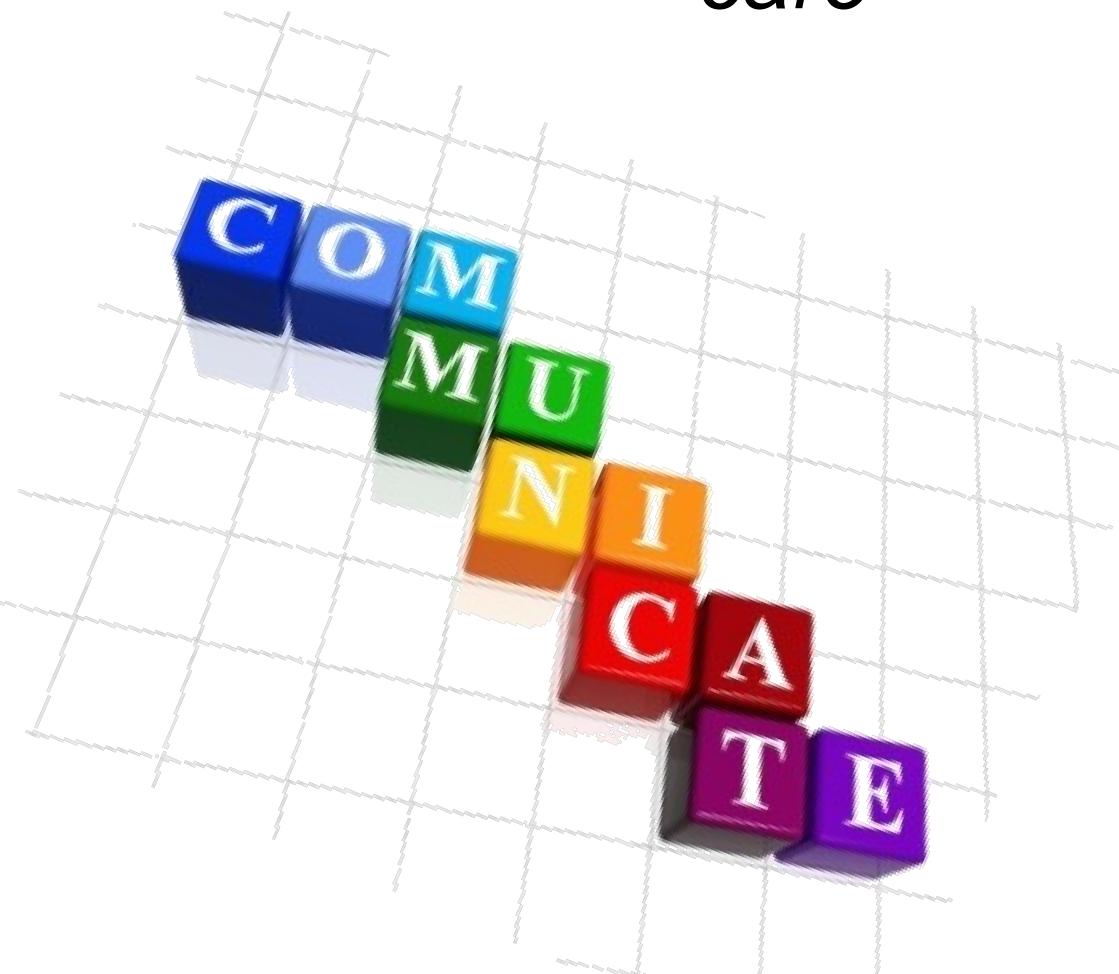


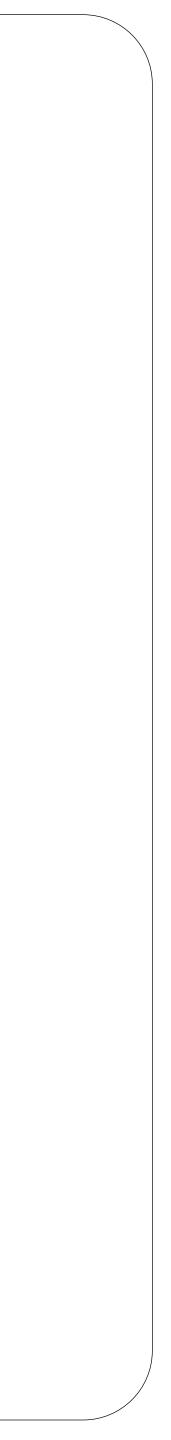
Culture & Ethnic Groups:

- Integrated pattern of learned beliefs and behaviors
- Explains how we view and value the world
- Influenced by socioeconomic status, religion, sexual orientation, education, OCCUPATION, etc (Nunez, 2006; Betancourt, 2003)



Can you share an encounter where cultural differences had an impact on patient's access to care

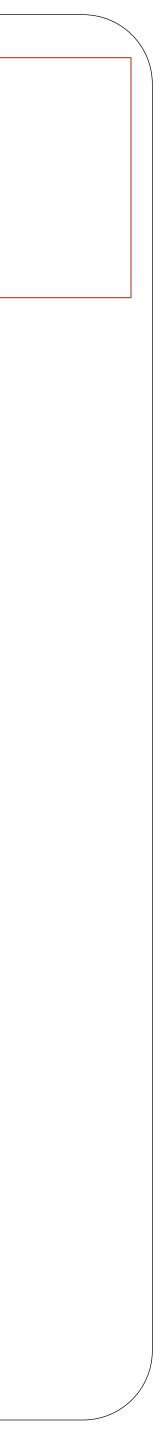




Main barriers to accessing health care:

- Language
- Low literacy
- Lack of understanding & mutual understanding
- Gender attitudes
- Health beliefs
- Retention of information
- Relationship with provider

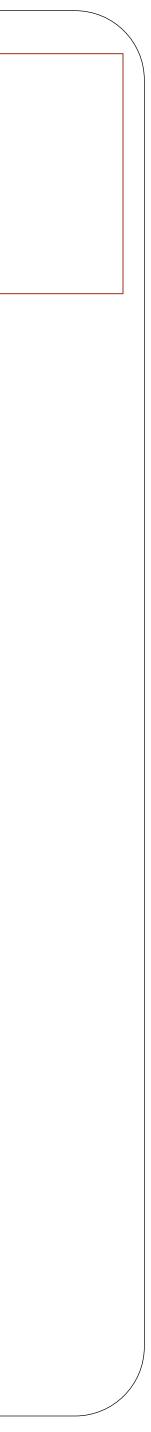
Review of the literature



Review of the literature

Relationship with the provider:

- Culture & ethnicity effect satisfying provider-patient relationship
- Minority patients less verbal, less assertive, & less emotional during medical encounters
- Providers less verbal and affective when interacting with minority patients

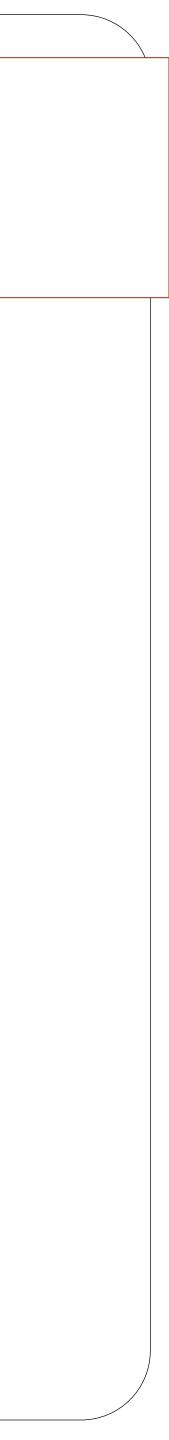


Cultural Competence

patient's health beliefs and behaviors

 Ability of health care providers to interact with patients who are different than themselves (Nunez, 2006, Dy, 2011)

Understanding social and cultural influences in a



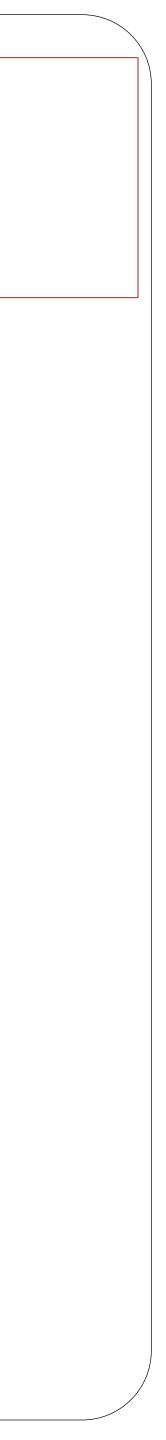
Multicultural Health Care

Categorical approach: might risk falling into *stereotyping* (Masi, 1988).

DIME SI SOY LATINO! (Proyecto Uno)



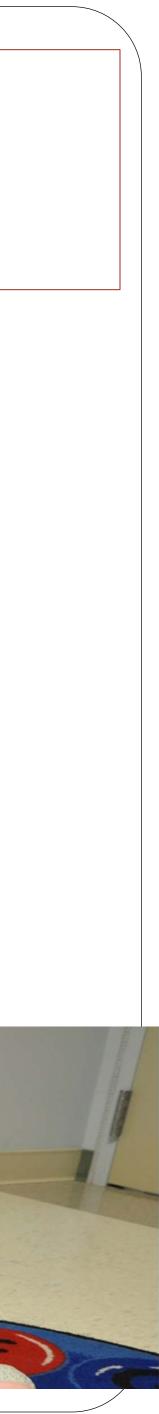
STEREOTYPES DON'T DEFINE US



Cross-Cultural Approach

- patient's culture & local culture = promotes two way communication
- understanding that the system is in place to provide care for them
- understanding the cultures and worldviews of others teach our patients how to navigate the system



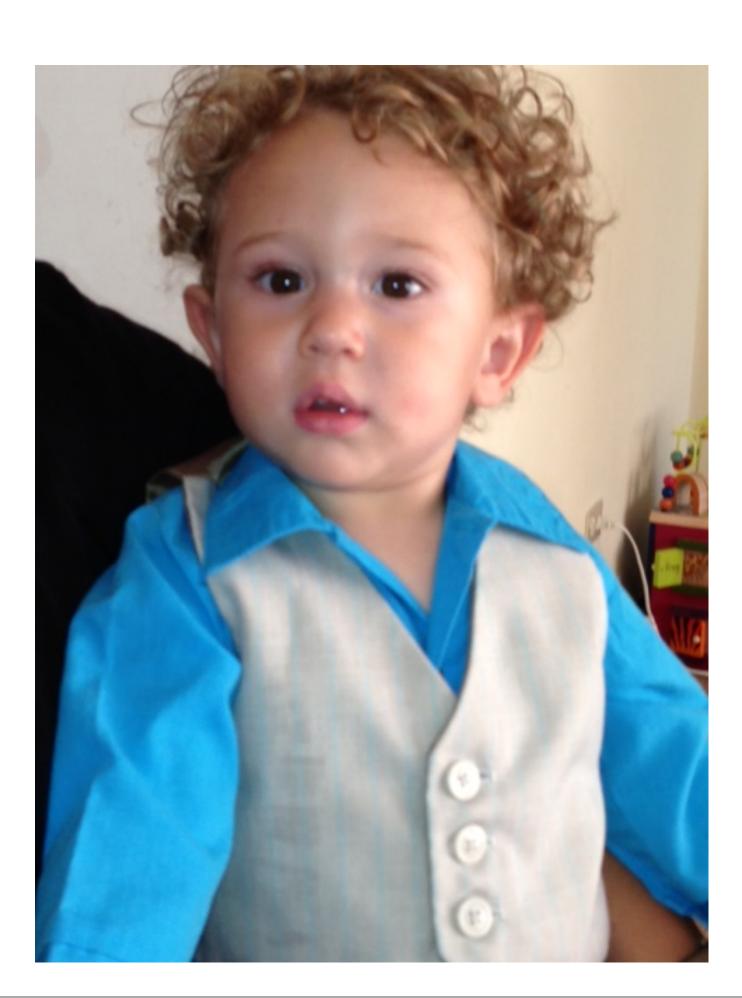




Cross-Cultural Approach

Main difficulties: System Navigation

- Delays in accessing services
- Delays in accepting services
- Delays in incorporating services to daily life

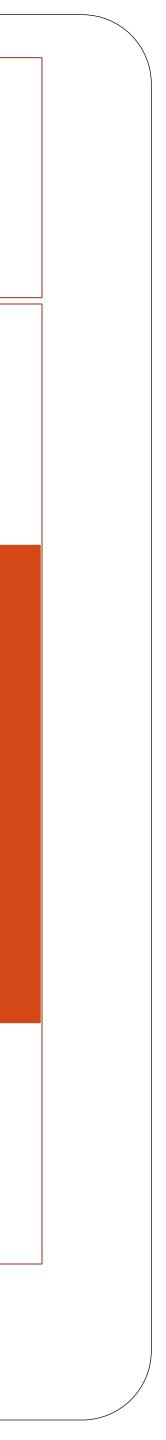




Cross- Cultural : A TWO WAY STREET

Patient's Culture

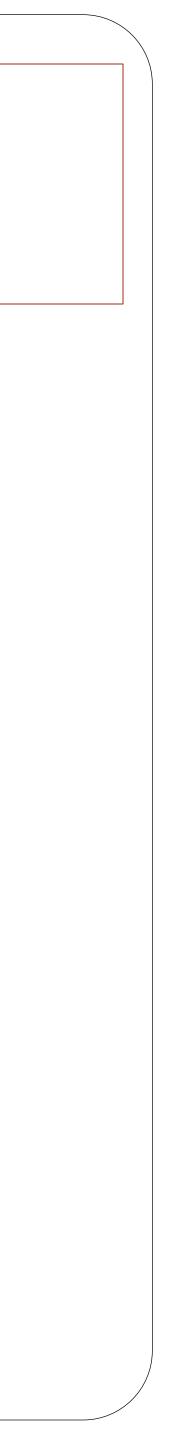
The Local Culture



Cross-Cultural Approach

- Understanding the local culture, the institutions' culture and the provider's culture is vital to access services
- Understanding the local health system is essential for accessing and using it effectively
- Need to understand your institutions' culture, your program's culture and your cultural lens

Cross-Culture

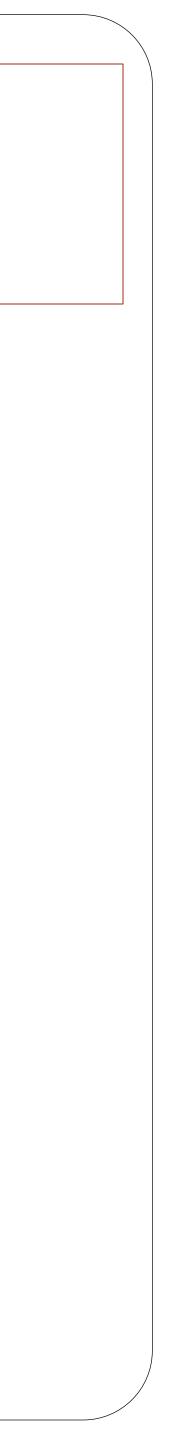


Cross-Culture

Cross-Cultural Approach

Institute's Culture:

- Parking
- Registration
- Check in
- Insurance
- Our Program's Culture:
- Doctor availability
- Clinic days
- Resources available



Audiologists



Dev. Pediatricians/ Geneticists

> Social Workers Psychologists

LSLS Cert. AVT/Speech Pathologist



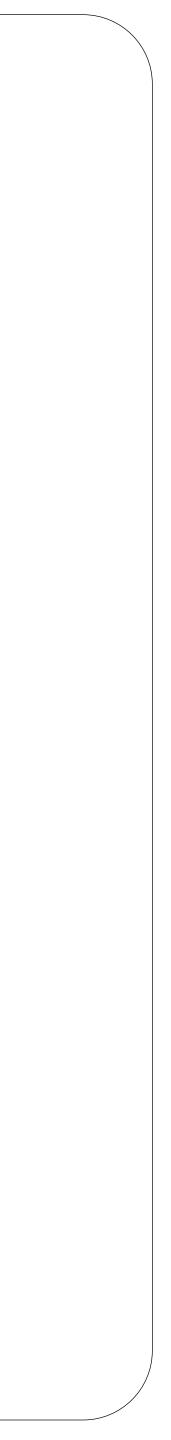
EI Providers/ Educators

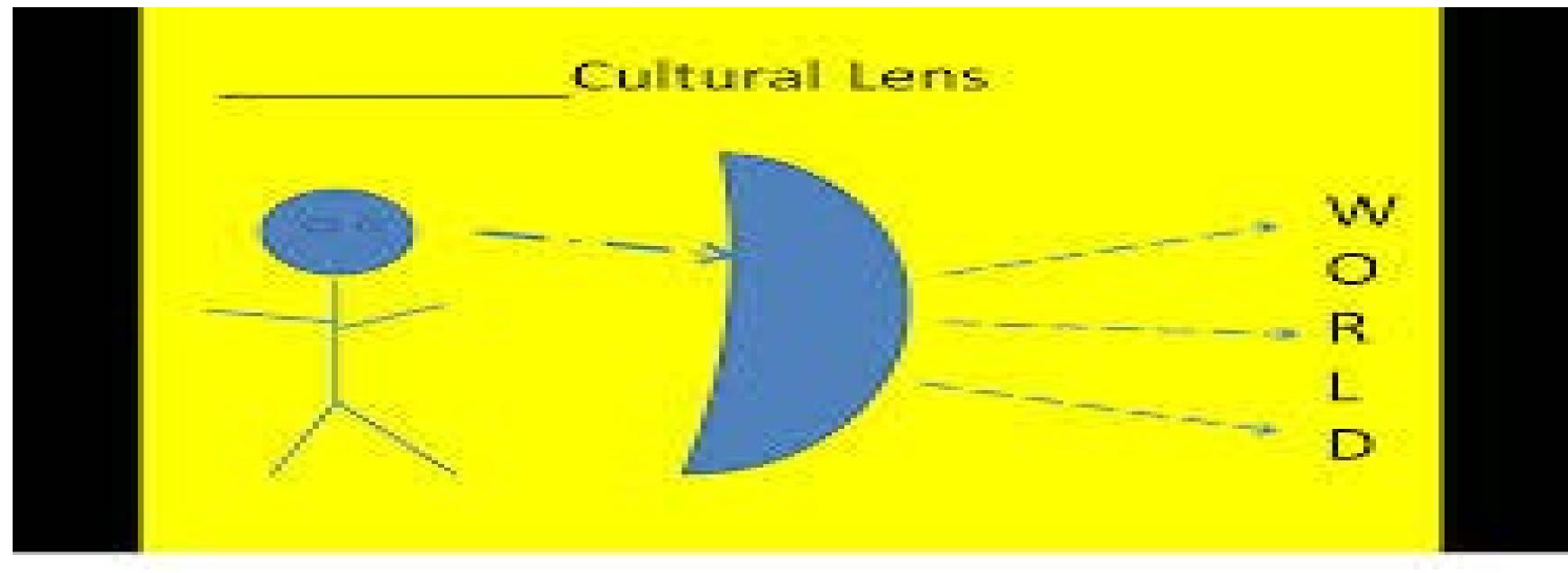
Parents/ Caregivers



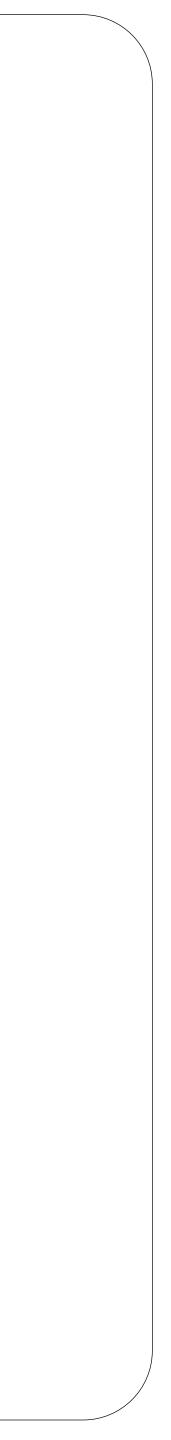




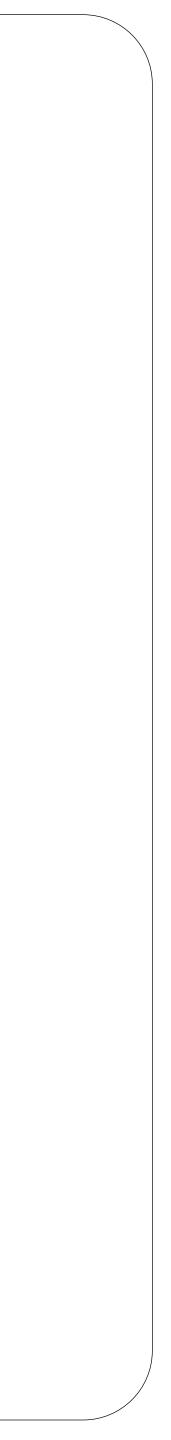




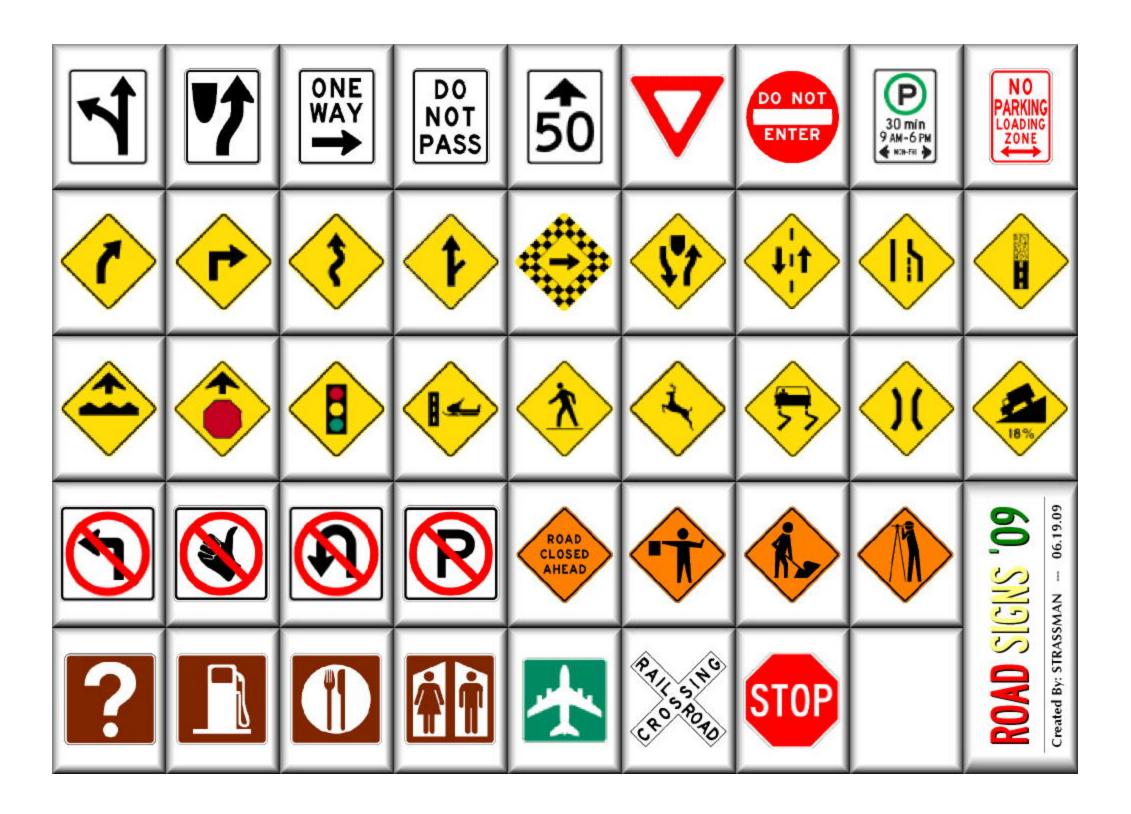








The Road Map to Success Introductions- Services - Support





Introductions: emphasis on parent education

- Meeting the team
- What do they need immediately
- Evaluation Process
- Questions to ask team members
- Information on communication options
- Emotional impact
- Next appointments & follow up





Services –single page handouts

- Audiology
- Speech
- Medical
- Educator
- CI packets sent before device selection
- Insurance codes & billing
- Appointment schedule
- Terminology
- Pre & Post Op instructions
- Hearing Birthday Activation- what to expect





Support

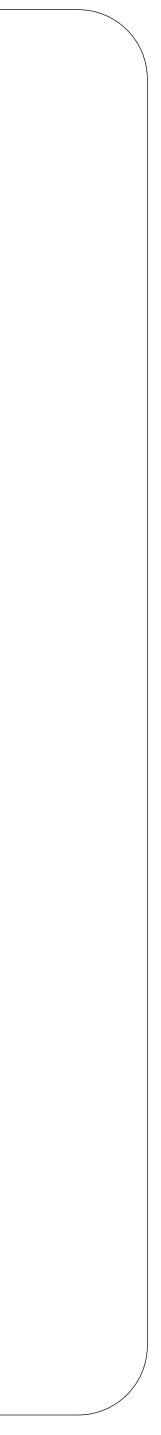
- A commitment for life!
- Family connections
- On going educational support
- Young adult interns
- Walk4hearing
- Choices
- GBYS
- Local agencies & Research





Culture is part of ALL of us and it's influenced by socioeconomic status

Addressing Language Disparities in the Pediatric Population and Enhancing Family Function







Chicago's Southside faces a myriad of social and

economic challenges



90 Nobel Lauretes





Profound differences in Children who looked very similar at the outset

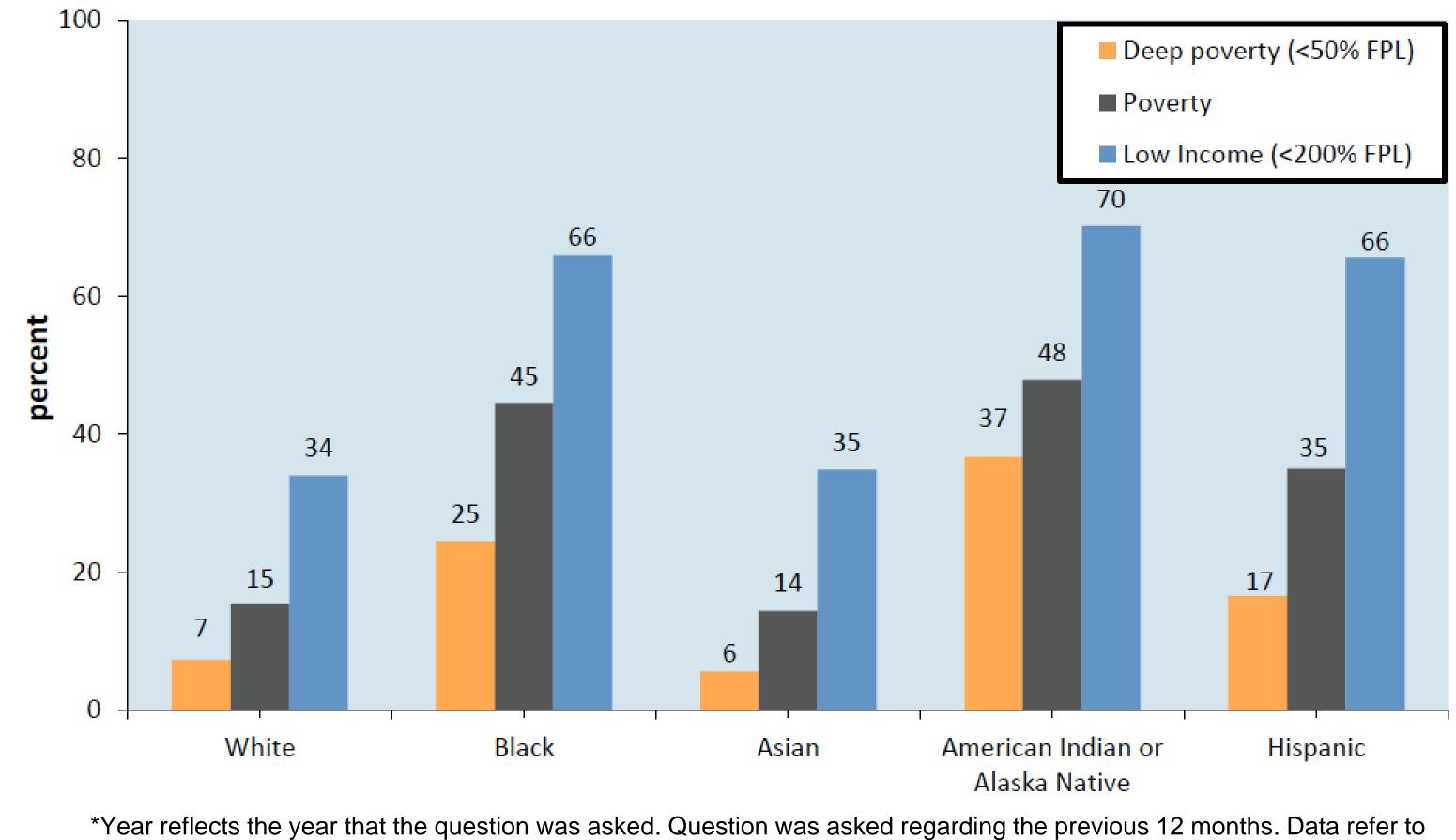
Lagging responses:

- hearing sounds
- responding to name
- comprehension
- saying first words
- interest in reading books





Infants/toddlers living in deep poverty, poverty, and with low income (2012) Significant disparities by race/ethnicity



*Year reflects the year that the question was asked. C children residing with and related to the householder.

The Youngest Americans / A report by The Robert R. McCormick Foundation and Child Trends

6



Children Born Into Poverty

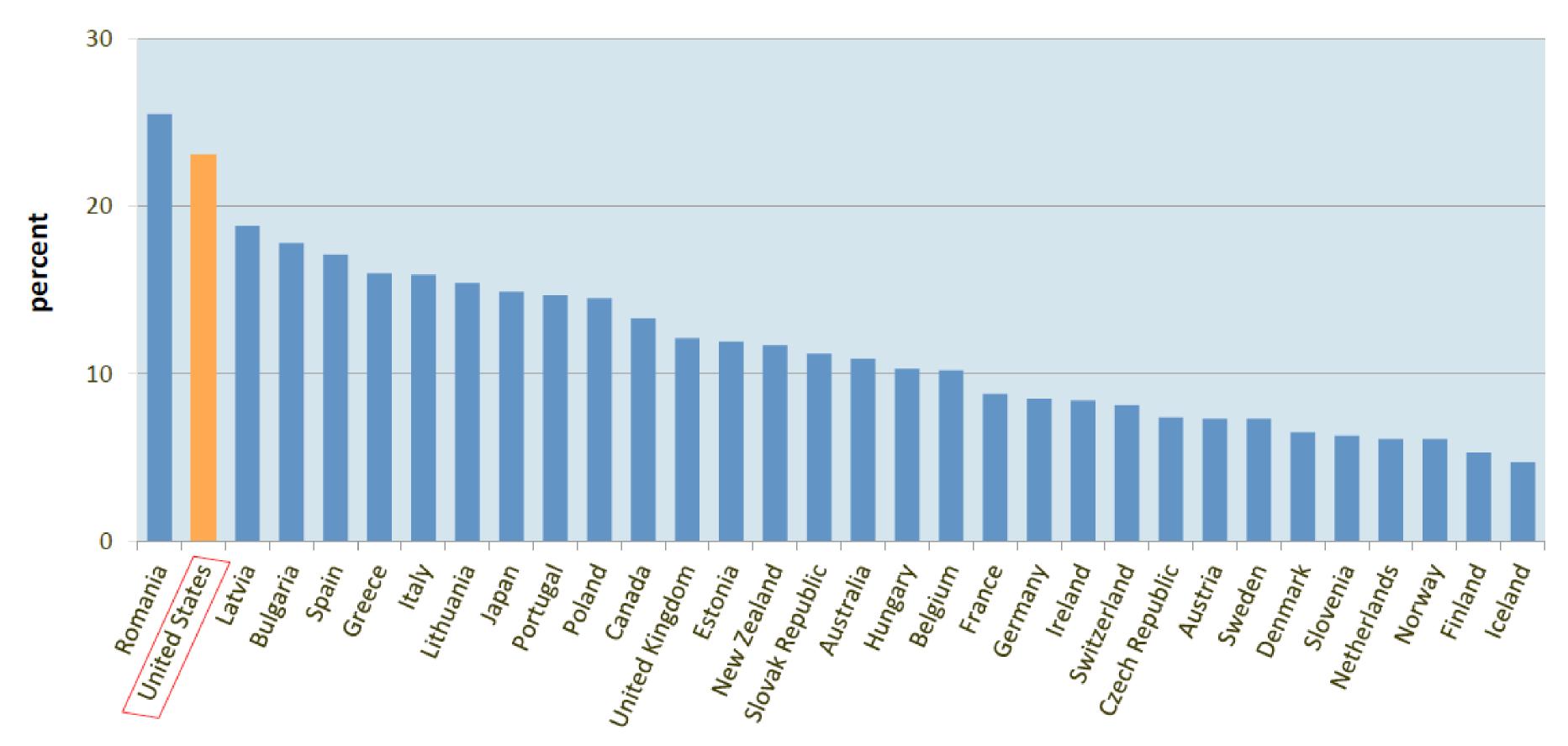
- Income inequality has never been greater in this country
- Children are profoundly impacted
- 16.1 million children in the US live in poverty
- An additional 16.3 million children are living just above the federal poverty live

those born into poverty

•Health disparities: that in every disease worse outcomes occur in



Children (birth – age 17) living in relative poverty* in 32 developed countries (2009**) U.S. ranks second to last



*Relative poverty is defined as living in a household where disposable income, adjusted for family size and composition, is less than half (50%) of the national median income.. **Data for the United States are from 2007 and data for New Zealand and Japan are from 2011

The Youngest Americans / A report by The Robert R. McCormick Foundation and Child Trends



It's More Than Just Income

What does it really mean for a child?

Poverty impacts every aspect of a child's life.

Limited access to:

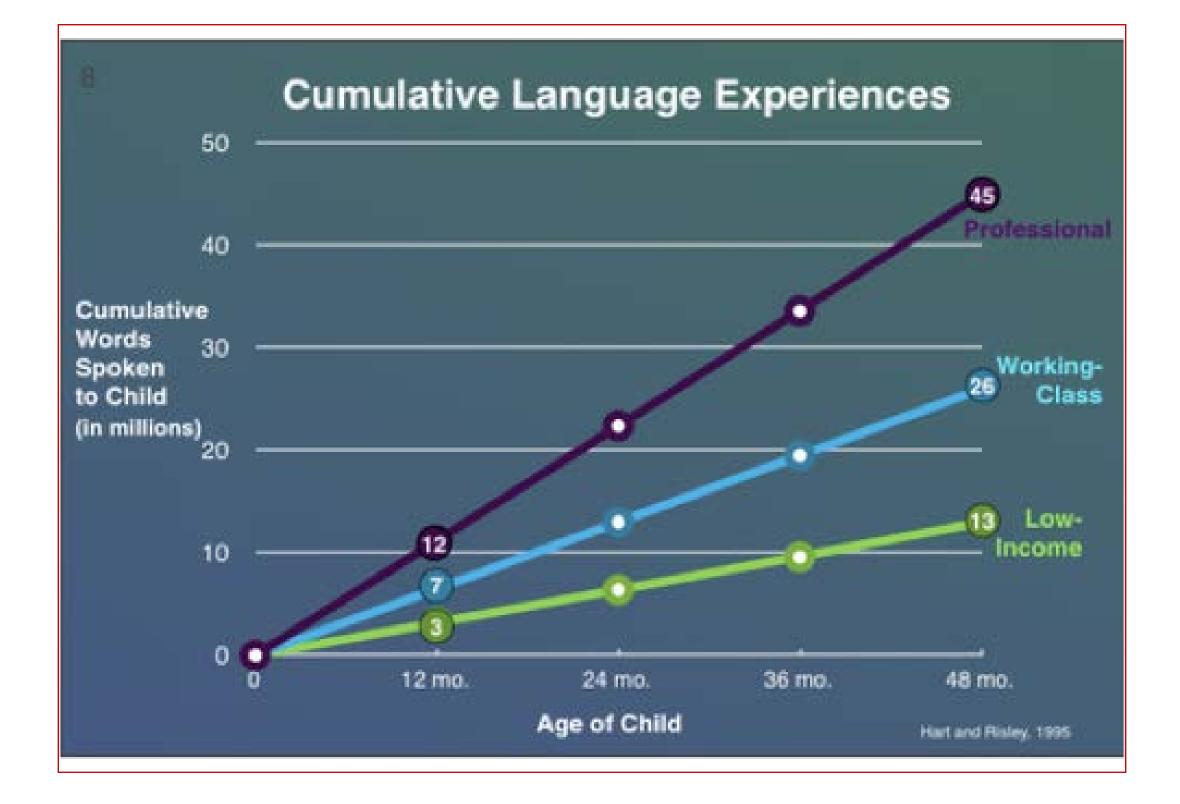
- health care
- quality education
- healthy food
- stable and safe housing



The Achievement Gap

- More than 80% of black and Latino public school students can't read or do math on grade level in the 4th, 8th, and 12th grades
- 52% of low-SES children are not school ready by age 5
- Disparities can be seen by 9 months between low and high SES children
- Root Cause: A Child's Early Language Environment

30 Million Word Gap







The Thirty Million Word Gap

- Hart & Risley (1995):

• High-SES children: 45 million words by age 4 Low-SES children: 13 million words by age 4



DISPARITIES IN EARLY LANGUAGE ENVIRONMENTS

- Both quantitative and qualitative
- - significantly less talk and gesture
 - shorter and less complex phrases
 - less use of open-ended questions
 - greater use of directives
 - decreased maternal responsiveness
 - decreased joint attention

Inequities in parents' language input include:



DISPARITIES IN EARLY LANGUAGE ENVIRONMENTS

- Decreased parental language input leads to significant disparities in children's development of:
 - vocabulary
 - grammar
 - narrative skills
 - early literacy skills
 - cognitive processing/processing speed
- high school, and the gap widens with age

Disparities in language skills are seen from infancy through



- Fernald)
- through their words

90% of our brain is developed by 4 years of age Language is the food for the developing brain Parents are the key architects in brain development Poor early language environments =not "school ready" but remain poor learners their entire life (Anne

Parents have the power to profoundly impact their children's development and ultimate trajectories

ASPIRE + TMW Home Visiting







- Theoretically-driven, culturally sensitive
- Parent talk: Lens into whole parent-child relationship
- Standardized, computerbased curriculum designed for future scalability



Project ASPIRE: Addressing the Disparities

- 10 week home visit program
- Empowering and guiding parents to provide an enriched language environment
- Children under age 4
- In addition to Early Intervention
- Wearing a hearing device
- Lower SES families
- Funded by Dept. of Ed. grant
- 32 families in the Chicagoland Area
- Currently analyzing the data



Research Behavioral Intervention

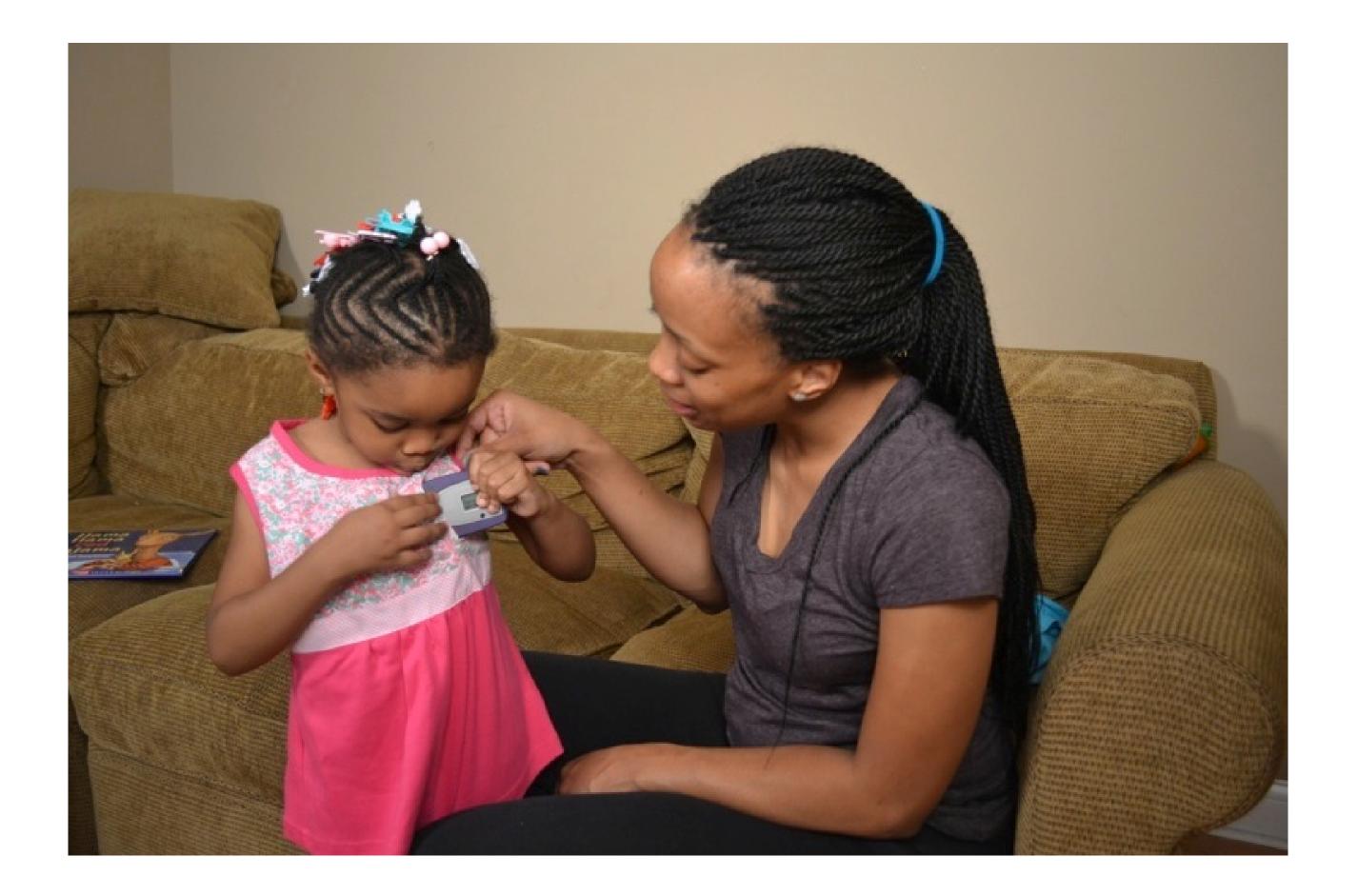
- Theoretically-driven, multimedia program translating cross-disciplinary science into easy-to-understand and easy-to-apply concepts
- Standardized, computer-based curriculum designed for future scalability
- Education component combines animation and real parent video to make strategies easily accessible to parents



- Parent is first and most important teacher
- Limit background noise
- Learning to Listen
- Tune In joint attention
- Child-directed speech
- Turn taking
- Wait time & Expectant look

- Talk More description and using detail
- Labeling take the ''IT'' out
- Self talk & parallel talk
- Choices & open ended questions
- Book sharing
- Decreasing TV and technology time

Quantitative Linguistic Feedback







Language ENvironment Analysis System: LENA

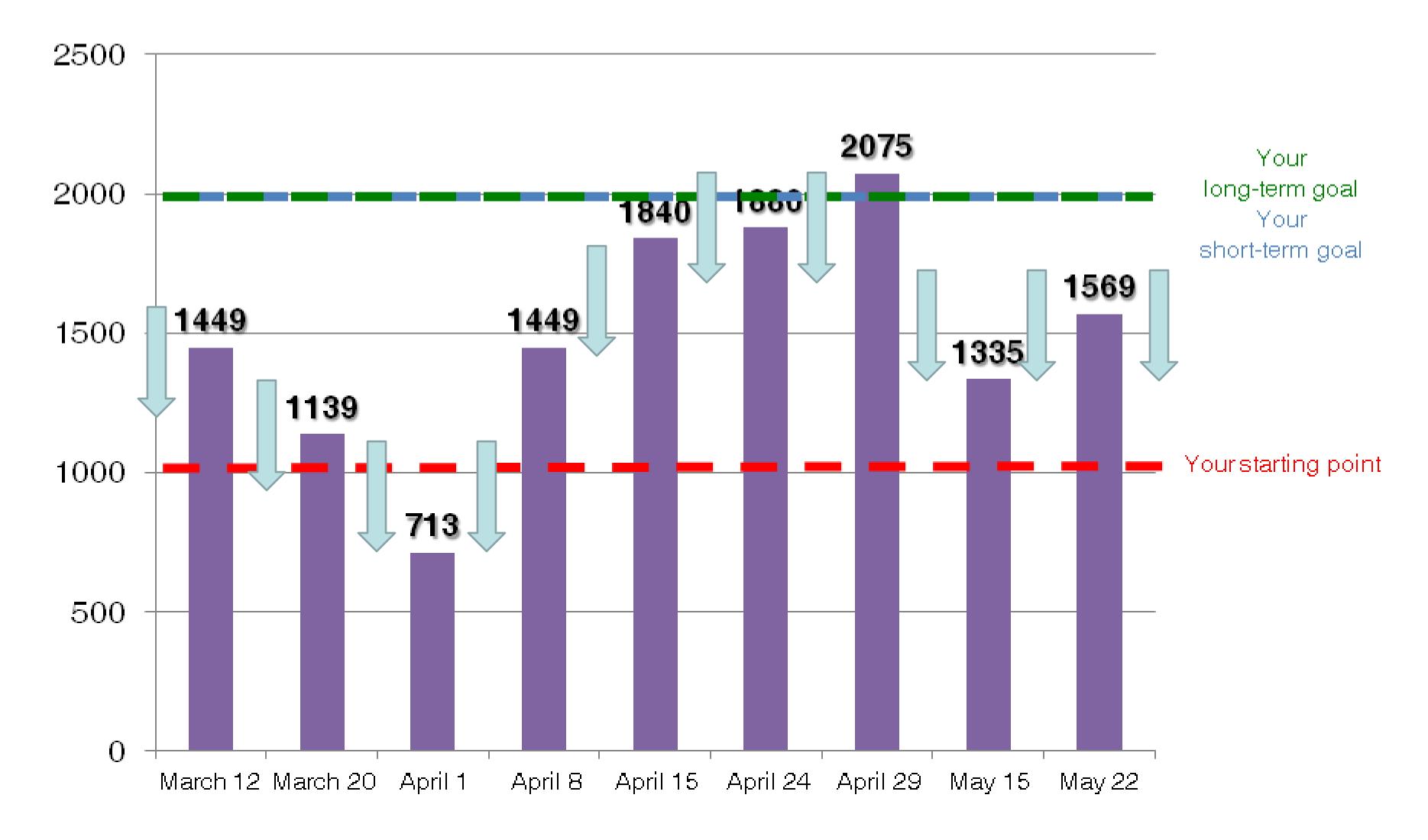
- natural language environment
- Records 10-16 hours
- Measures
 - Adult Words
 - Conversational Turns
 - Child Vocalizations
 - TV time

Innovative, automated, technology grants an unprecedented window into a child's





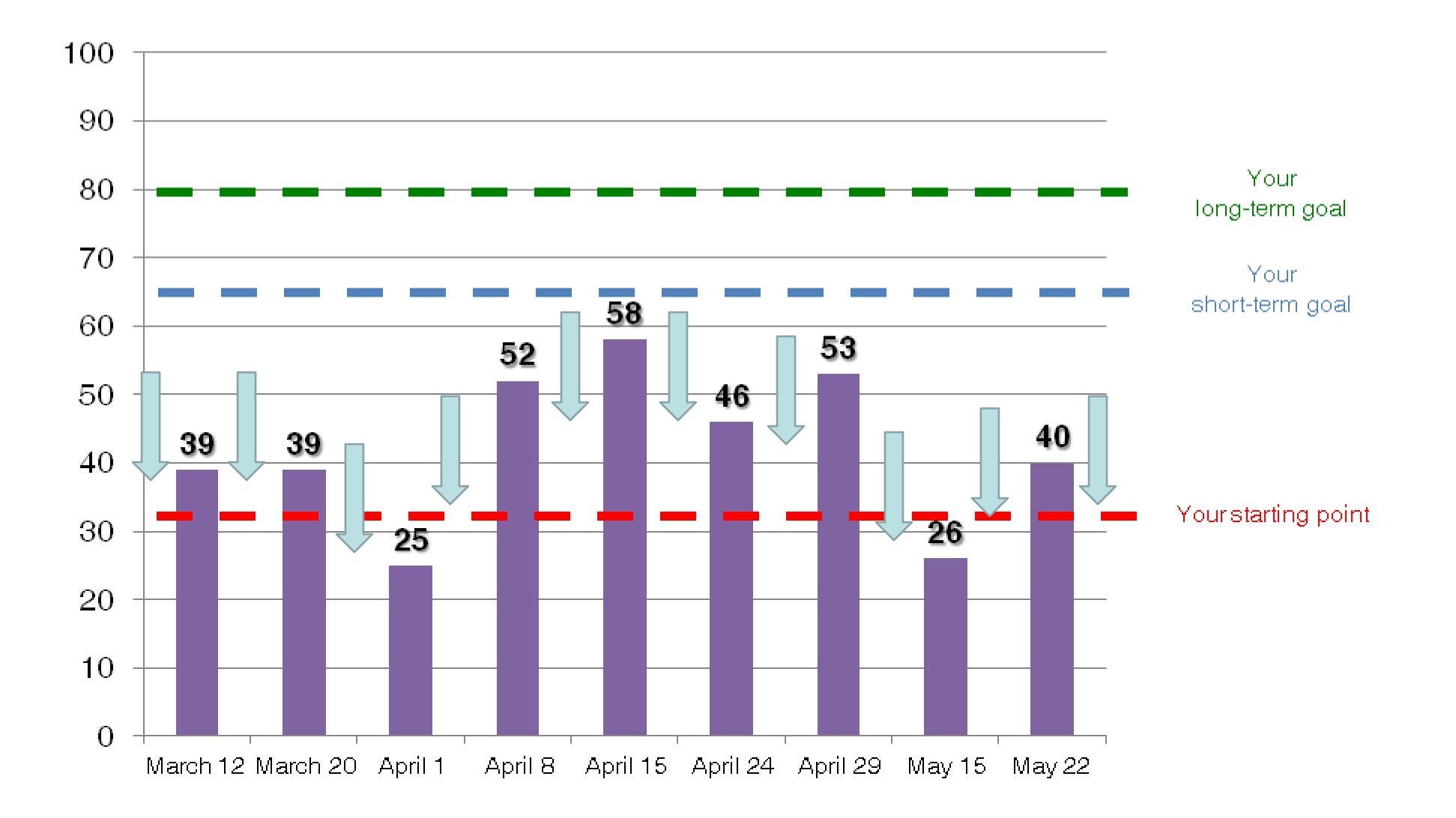




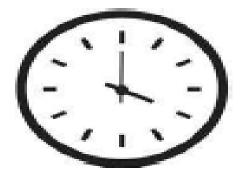
Average words per hour

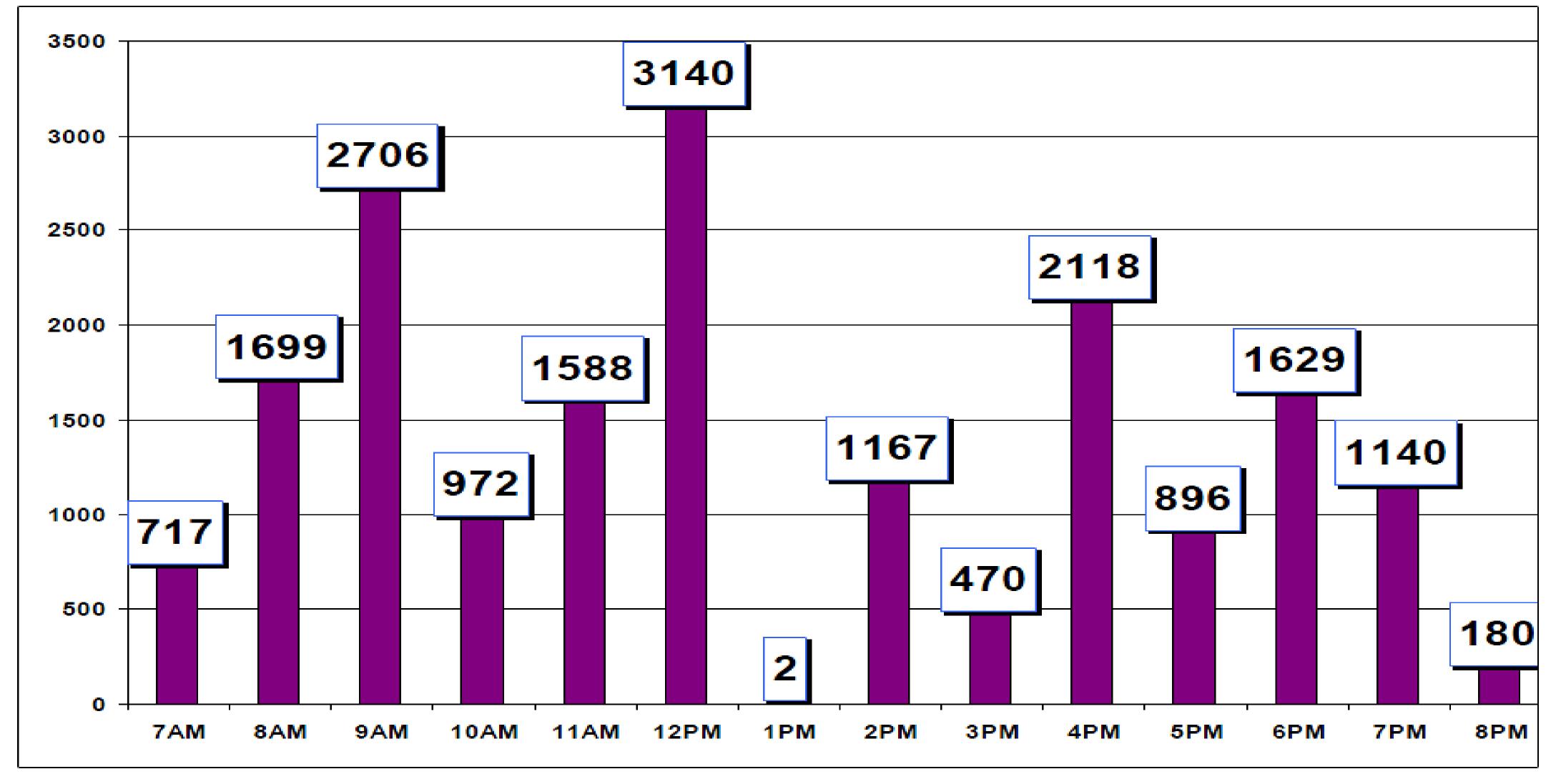






Average turns per hour





Words Each Hour - Sep. 10



The Thirty Million Words Initiative at the University of Chicago

• Vision: impact early language environments of children living in poverty to improve school readiness and school outcomes





Reaching one parent at a time makes a difference in one child's life at a time

be broadened to the population level

But to narrow the gap, the approach must

Longitudinal RCT

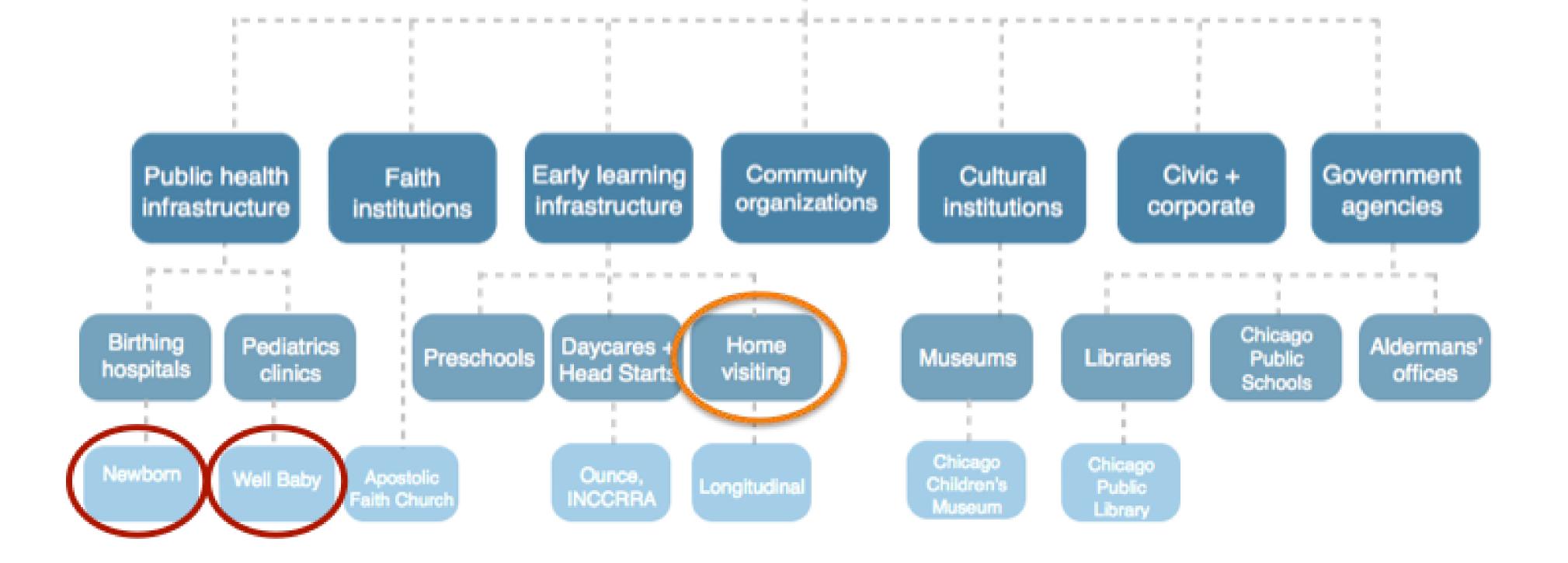
- PNC Grow-up Great Funding
- 5-year RCT to assess impact on Kindergarten School Readiness
 - 200 families
 - Assess children age 15mo to kindergarten
 - TMW versus Nutrition Intervention
 - Overlay onto Early Head Start infrastructure



Outcomes to be assessed:

| Parent: | Understanding of child language development and parents' role in development |
|---------|---|
| | Language input |
| | Responsiveness and engagement |
| Child: | Oral language development |
| | Social-emotional development |
| | School readiness (especially linguistic development, self0regulation, early literacy skills) |

Community Touch Points





TMW Newborn Initiative

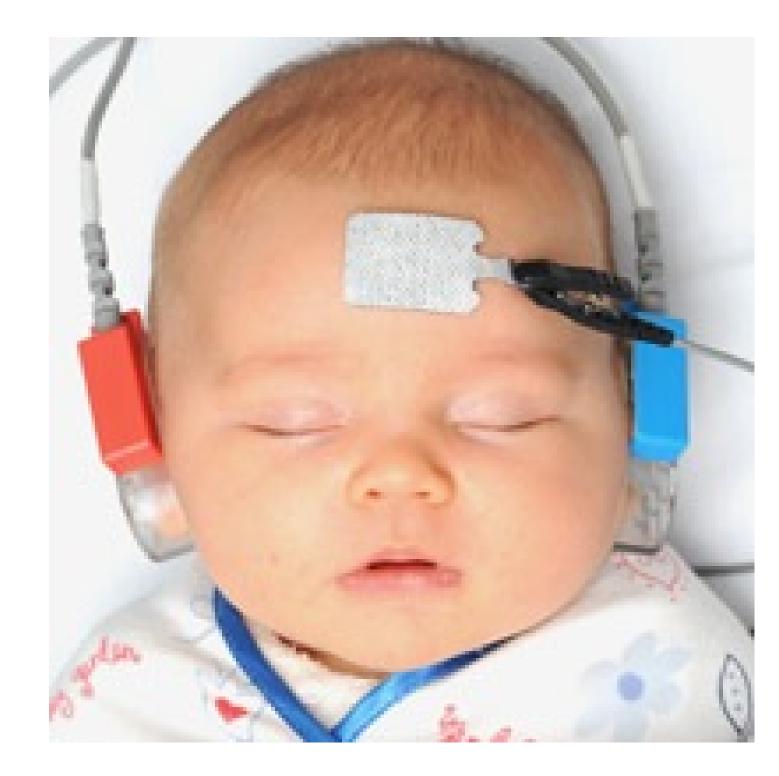


Photo courtesy of <u>blogs.rch.org.au</u>



- Bilingual intervention piggybacks on the Universal Newborn Hearing Screening (UNHS)
- 10 minute multi-media presentation designed to reach mothers immediately postpartum
- Impact parents' beliefs about their role in their child's language & cognitive development
- Currently in Formative Development at the University of Chicago and Northwestern

TMW Well Baby Initiative



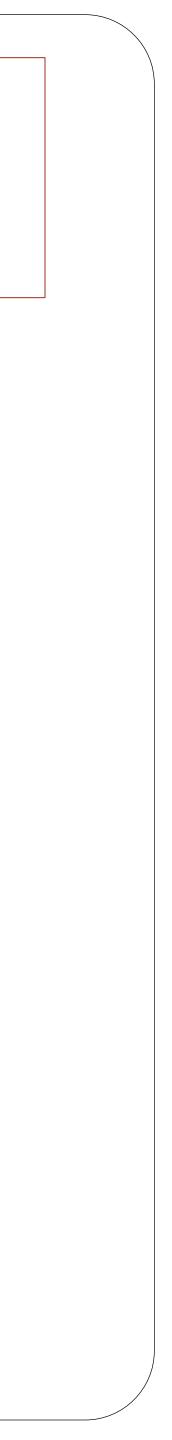
Photo courtesy of: https://www.pinterest.com/capbluecross/well-baby-well-child-visits/



- Bilingual, perinatal intervention built into well baby pediatric visits at 1, 2, 4, & 6 months
- 4 multi-media modules designed integrate into existing infrastructures
- Will scale out with Reach Out and Read
- Targets parents to impact language & cognitive development from the start of life

University of Chicago Medicine

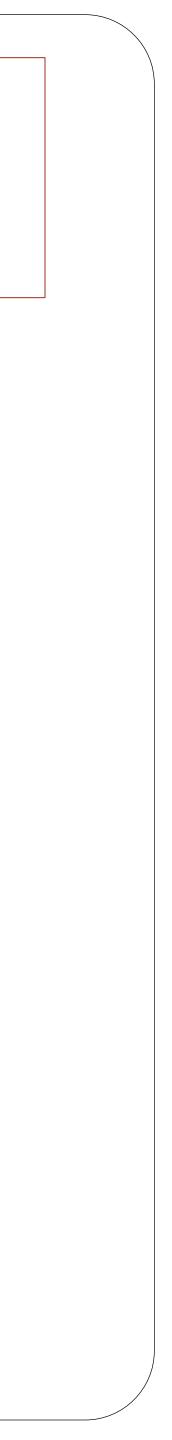
- Department of Diversity, Inclusion and Equity began in 2013
- 5 Year Enterprise Wide Diversity and Inclusion Strategy • Workforce: Recruits, promotes and develops a work
- force that represent the patient population
- Inclusion: seeks to build and sustain an environment that promotes respect and values differences
- Equity strives to transform us to a culturally and linguistically competent organization



Medical Center / Sub-Committees:

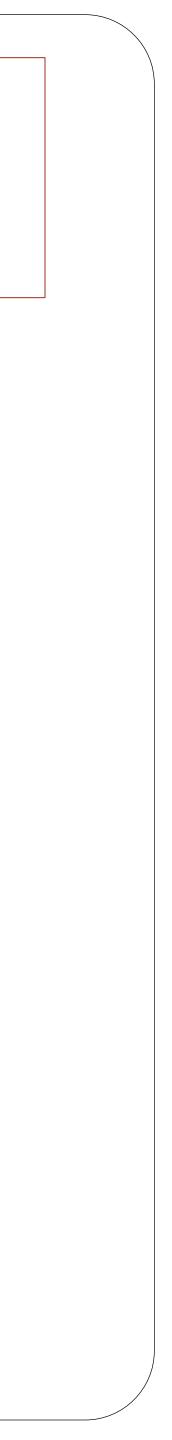
practice changes training strategy reporting of performance measures

- **Policy:** Aims to advance culturally and linguistically appropriate services and practices through policy and
- Education and Training: informs and supports the successful implementation of cultural competence
- **Data:** recommends policy for collection, stratification and



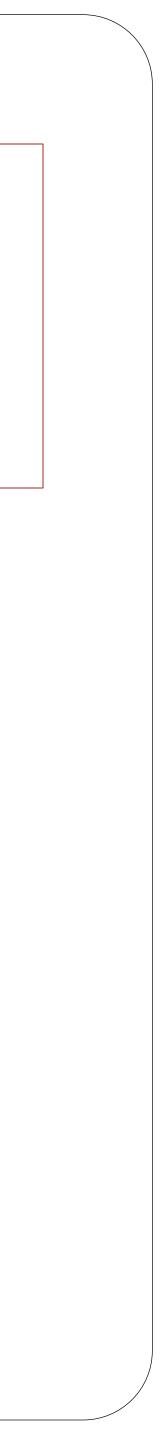
Cultural Competence Course

- Aims to provide tools to work more effectively in a multicultural setting.
- 1. Cultural competence & the dimensions of diversity
- 2. Power and privilege and self- awareness
- 3. World view and transcultural communication
- 4. Addressing limited health literacy and communication via interpreters
- 5. Ethical dimensions of care
- 6. Health disparities and change agency



Creating a PATH for all our children with hearing loss to become ACTIVE CITIZENS of the world





THANK YOU to OUR TEAM

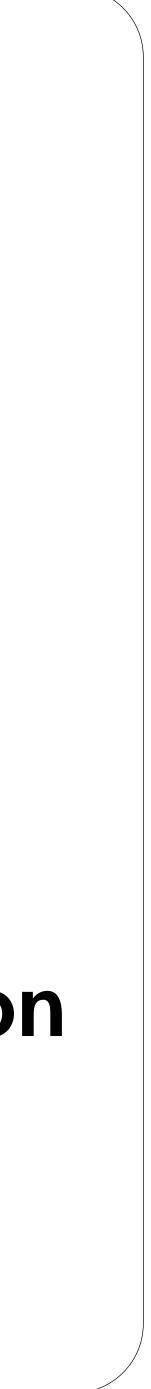
Medical:

- Dr. Dana Suskind
- Dr. Michael Gluth
- Dr. Ernest Mhoon
- Dr. Fuad Baroody
- Christina Monteiro, RN, NP-C
- Mary Brady, RN

Audiology:

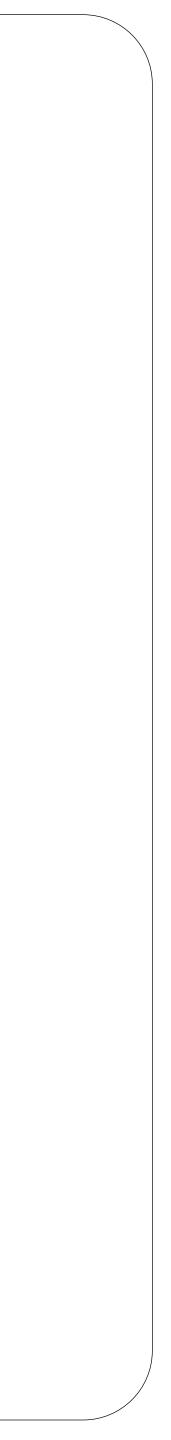
- Dr. Lia Ferro
- Dr Barbara Corbett
- Dr. Brittney Sprouse
- Dr. Jessica Elliott

Habilitation / Rehabilitation Michelle Havlik, MS, SPL





Questions and Thank You!



BIBLIOGRAPHY

- Medicine, 78(6), 560-569.
- Practice. 14(1) 160-170.
- 834
- 1882.
- Intercultural Relations 35, 767-775.
- Preparedness. Academic Pediatrics, 13 (1), 65-71.
- is a Cross-Cultural Encounter. Acad Pediatr. 13(6), 495-498.
- Resource Development Review. 4(3), 305-334.
- US CENSUS (2010). State and County Quick Facts. Retrieved July 5, 2014, from http://quickfacts.census.gov/qfd/states/17000.html

Betancourt, J.R. (2003). Cross-Cultural Medical Education: Conceptual Approaches and Frameworks for Evaluation. Academic Cadoret, C.A., Garcia, R.I. (2014) Health Disparities and the Multicultural Imperative. Journal of Evidenced Based Dental Carrillo, J.E., Green, A., Betancourt, J. (1999) Cross-Cultural Primary Care: A Patient-Based Approach. Ann Intern Med, 130, 829-Dy, C.J., Nelson, C.L. (2011). Diversity, Cultural Competence, and Patient Trust. Clinical Orthop Related Research 469, 1878-Fischer, R. (2011). Cross-Cultural training effects on cultural essentialism beliefs and cultural intelligence. International Journal of Frintner, M.P., Mendoza, F.S., Dreyer, B.P., Cull, W.L., Laraque, D. (2012) Resident Cross-Cultural Training, Satisfaction and Garcia, R.I., Cadoret, C.A., Henshaw, M. (2008). Multicultural Issues in Oral Health. Dent Clin North Am. 52(2), 319-332. Javier, J.R., Hendriksz, T., Chamberlain, L.J. & Stuart, E. (2013). Cross-Cultural Training in Pediatric Residency: Every Encounter

Littrell, L. & Salas, E. (2005). A Review of Cross-Cultural Training: Best Practices, Guidelines, and Research Needs. Human

Masi, R. (1988). Multiculturalism, Medicine and Health Part I: Multicultural Health Care. CAN FAM Physician. 34, 2173-2178.

