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CHILD-PARENT-PROVIDER COMMUNICATION ON AN INPATIENT UNIT: A CASE STUDY

### **DISCLOSURES**

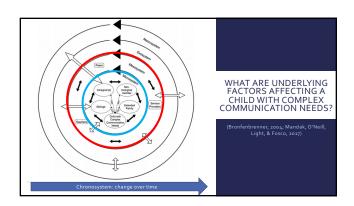
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# WHY STUDY CHILD-PARENT-PROVIDER COMMUNICATION?



"Communication is the most common 'procedure' in medicine."

(Levetown & the Committee on Bioethics, 2008, p. e1441)



# CHILDREN WITH COMPLEX COMMUNICATION NEEDS IN THE HOSPITAL:



- Rely on AAC strategies to communicate
- Experience multiple challenges communicating with staff (Shilling et al., 2012)
- Children with complex communication needs have been reported to:
- Play passive roles during interactions (Hemsley et al., 2013)
- Express a desire to more actively participate in interactions (Hemsley et al., 2013)

# PARENTS OF CHILDREN WITH DISABILITIES:

- Report higher perceived levels of stress and lower satisfaction with hospital services relative parents of children without disabilities (Phua et al., 2005)
- Parents of children with complex communication needs report:
- Feelings of reluctance or stress when leaving their child in the hospital for fear of communication breakdowns (Hemsley et al., 2012)
- Feelings of comfort when staff talk directly to child, use the child's AAC system, assign professionals that are familiar with the child (Hemsley et al., 2013; Sharkey et al., 2016)



# HOSPITAL PROVIDERS WHO SERVE CHILDREN WITH DISABILITIES REPORT:

- Time constraints as a critical barrier to effective communication (e.g., Gormley & Light, 2018; Hemsley & Balandin, 2014)
- Limited training to effectively communicate with individuals with complex communication needs (e.g., Finke et al., 2008)
- Supporting the child's communication in hospitals is not part of their roles on the interdisciplinary team (Sharkey et al., 2016)
- Prioritizing other aspects of care (e.g., feeding) above communication (Hemsley et al., 2014)





### **PURPOSE**

To describe the childparent-provider communication patterns of a young child with complex medical and communication needs in an inpatient rehabilitation unit during day shift hours



#### **RESEARCH QUESTIONS**

#### Mesosystem

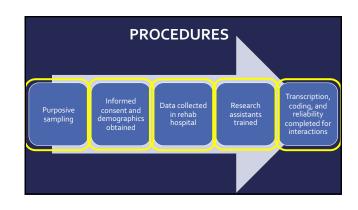
- How many unique communication partners does the child interact with during day shift hours?
- Where, when, and during what activities do child-parent-provider interactions occur?
- What percentage of conversational turns is taken by each partner? Who are these turns directed to?

#### Microsystem

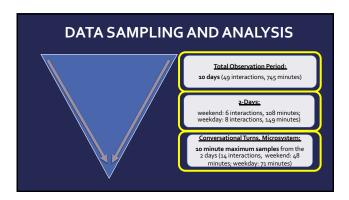
- What communicative purposes are directed to the child by adults?
- What communication modes are used by the child during interactions?

# **METHODS**

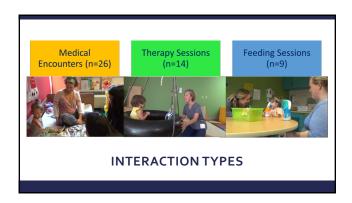
A descriptive, exploratory case study was selected for this investigation.
 Allows for rich, in-depth exploration of a topic using direct observation to provide a detailed description of a phenomenon (Gillham, 2000)
 Can be useful to build theory, generate research hypotheses, and inform future intervention targets (McEwen & Karlan, 1990)





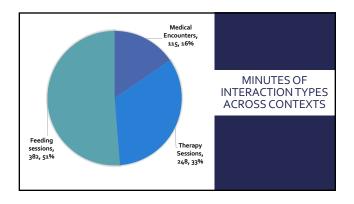


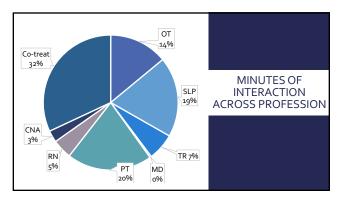
RESULTS



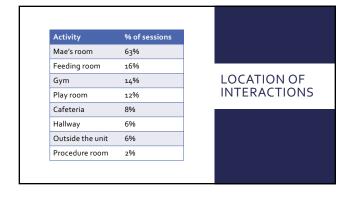
VIDEO 1 – MEDICAL ENCOUNTER

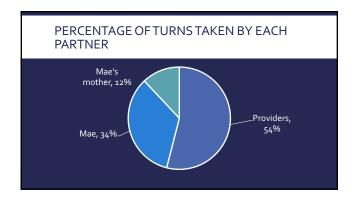


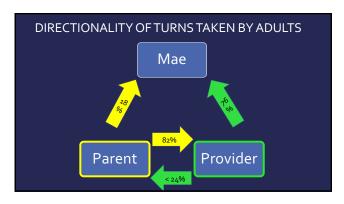


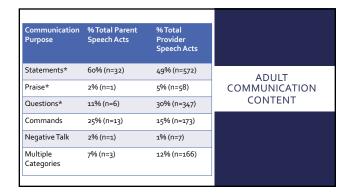


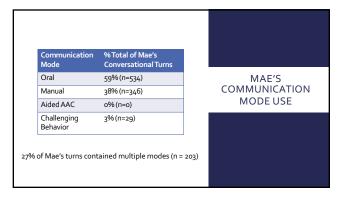
	Activity	% of sessions
	Supervising mobility	47%
	Rounding/parent education	41%
	Feeding sessions	31%
	Medication or formula administration	25%
	Physical therapy sessions	16%
	Taking vitals	12%
ı	Speech-language sessions	6%
•	Inserting or removing a feeding tube	4%
	Recreational therapy	4%
	Occupational therapy (non-feeding)	2%











# **DISCUSSION**

# MESOSYSTEM

- During 49 interactions with providers over 10 days 
   Anae interacted with 28 unique communication partners
   Low representation of total number of providers who interact
- Low representation of total number of providers who interacted with her
- Variability was observed in Mae's routine (duration of each interaction, activity location, staff member) which could present challenges establishing consistency and support Mae's anticipation of interaction goals and content.
- The focus of interactions was completion of a structured, goaloriented activity dictated by a provider.

## **MICROSYSTEM**

- Health care providers tended to dominate the interactions by taking the most turns
- Mae was observed to actively participate in each interaction; however, there were instances were she (a) did not interact frequently and (b) adults did not direct many turns towards her.
- Mae's mother was observed to act as an interpreter of Mae's communication attempts
- No aided AAC mode was used in any interaction despite materials being available and Mae possessing the skills to use this mode.

# MACROSYSTEM AND EXOSYSTEM

- Approximately 20% of Mae's life was spent in a hospital.
- Mae's mother often described the challenges living within a hospital and her fear and hesitance of leaving Mae with staff due to communication and behavior challenges.
- Only 6% of sessions in the total observation period were dedicated to directly supporting Mae's speech and language skills.
- Although attitudes and beliefs were not directly measured, it is suggested that used of aided AAC tools when interacting with Mae may not be highly valued.

### **CLINICAL IMPLICATIONS**

- Consider efficient and effective methods to train a large number of communication partners, across a variety of settings and locations, for potentially short durations of time.
- Establish parent-provider partnerships to ensure active involvement of the child's parent, the child, and providers during each communication interaction.
- Train health care providers and parents to be responsive to child communication attempts with diverse linguistic input
- Train health care providers to comprehend and model use of aided and unaided AAC strategies to support the child's communication within the hospital.

### **LIMITATIONS**

- Limited generalization due to small sample size and brief observation period
- Limited demographic data was obtained about Mae's adult partners
- · Not all interactions were captured:
  - (a) night shift,
  - (b) physician,
  - (c) parent only,
  - (d) interactions in public areas

#### **FUTURE DIRECTIONS**

- Development and evaluation of specialized trainings to support AAC use in hospitals
- Use direct observational techniques to rate aspects of family-centeredness between parents of children with complex communication needs and inpatient providers.
- Investigations related to environmental factors and participant characteristics on the familycenteredness and communication effectiveness of inpatient interactions with this group



# THANK YOU!!!

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