

# Twitter Representations of "Early Intervention"

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### INTRODUCTION

### Early Intervention

- Early intervention refers to services that are provided by any skilled professional working with children with disabilities to support development and address developmental delays or differences.<sup>1</sup>
- Federally-funded early intervention calls for the engagement of families by<sup>1</sup>:
- attending appointments to determine needs
- setting intervention goals
- applying the skills learned from professionals to daily life

#### Social Media

- One growing method of information dissemination that could support these goals is social media.<sup>2</sup>
- Twitter was one of the widest used social media platforms during COVID/social isolation. Use is associated with the same age range as typical first time parenthood. <sup>2,3,4</sup>

### PURPOSE



The goal of this study is to provide a preliminary assessment of the types of information accessible on Twitter about early intervention.

### METHODS

This study was determined to be non-human subjects work by the UConn IRB. Data analysis was supported by Leadership Education in Neurodevelopmental and Related Disabilities (LEND) trainees in the Audiology Discipline as part of their research competencies

### Tweet Collection

 A sample of tweets with both text and images including the key term "early intervention" were collected for this retrospective study across three time periods.

#### **Date Selection**

- Pre-COVID 6/20/19 to 12/20/19
- COVID -1/20/20 to 5/10/21
- Post-Vaccination 6/10/21 to 12/10/21

### Tweet Exclusion

- Each tweet was reviewed by a member of the research team to ensure
- It was in English
- It discussed Early Intervention as described in the introduction

#### Data Analysis

- Tweets were assessed based on:
- Twitter Account of Origin Based on a review of the account biography and linked website

Key Take

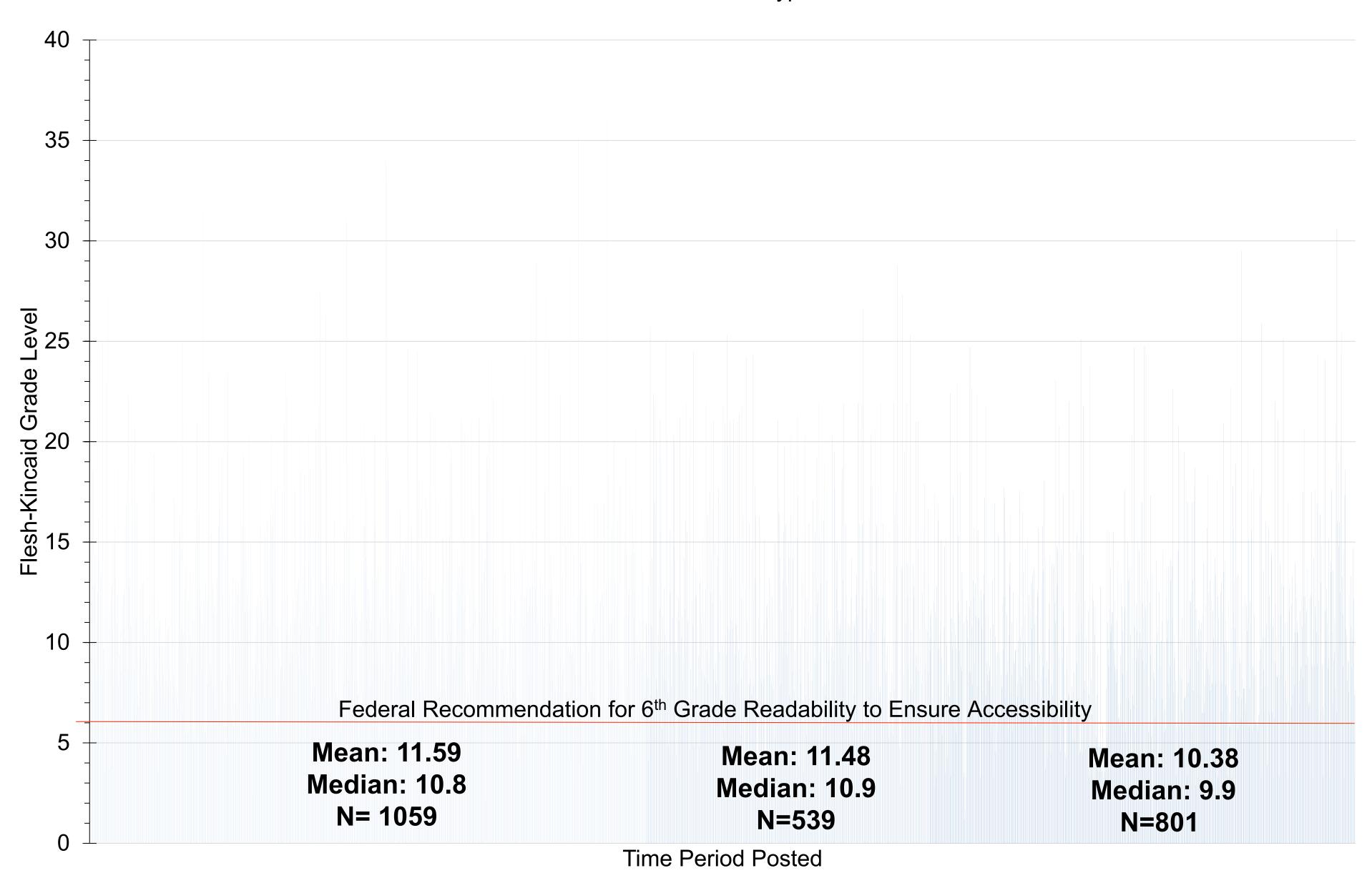
Aways

- Engagement Statistics The number of likes, retweets, and replies collected by a web scraper
- The number of followers the account of origin had collected within a 24 hour period
- Flesh-Kincaid Grade Level (FKGL) analysis calculated on the text collected by the web scraper
- Diagnostic Label All tweets were coded in the inductive method based on the diagnostic label discussed.

## RESULTS

Account Type	Pre-COVID	COVID	Post-Vaccine
Individual/Personal	425	197	329
Clinical Practices/Providers	114	125	109
Nonprofit Organizations	121	33	89
Ambiguous/Undeterminable	109	48	64
Government/State Organizations	53	41	43
Academic	60	15	40
Job Agencies	45	15	55
Commercial/For Profit Organizations	63	16	28
News Outlets	12	25	23
Account Suspended/No Longer Exists	16	11	17
School Districts	19	10	8
Professional Organizations	22	3	6
TOTAL	1059	539	811

Table 1. User Account Types Over Time.



DISCUSSION

Personal accounts create 39% of tweets that

include personal stories and unverified

Readability is over federal recommendation for

Pre COVID Post

Figure 1. Readability of Tweets Over Time<sup>6</sup>

General El information that is not specific to

# Future Directions

Continued work in the AR Lab is assessing the content of hearing-specific tweets to determine the type of content that is being distributed.

Twitter represents one means of information distribution, other social media platforms that use different mediums, should be assessed.

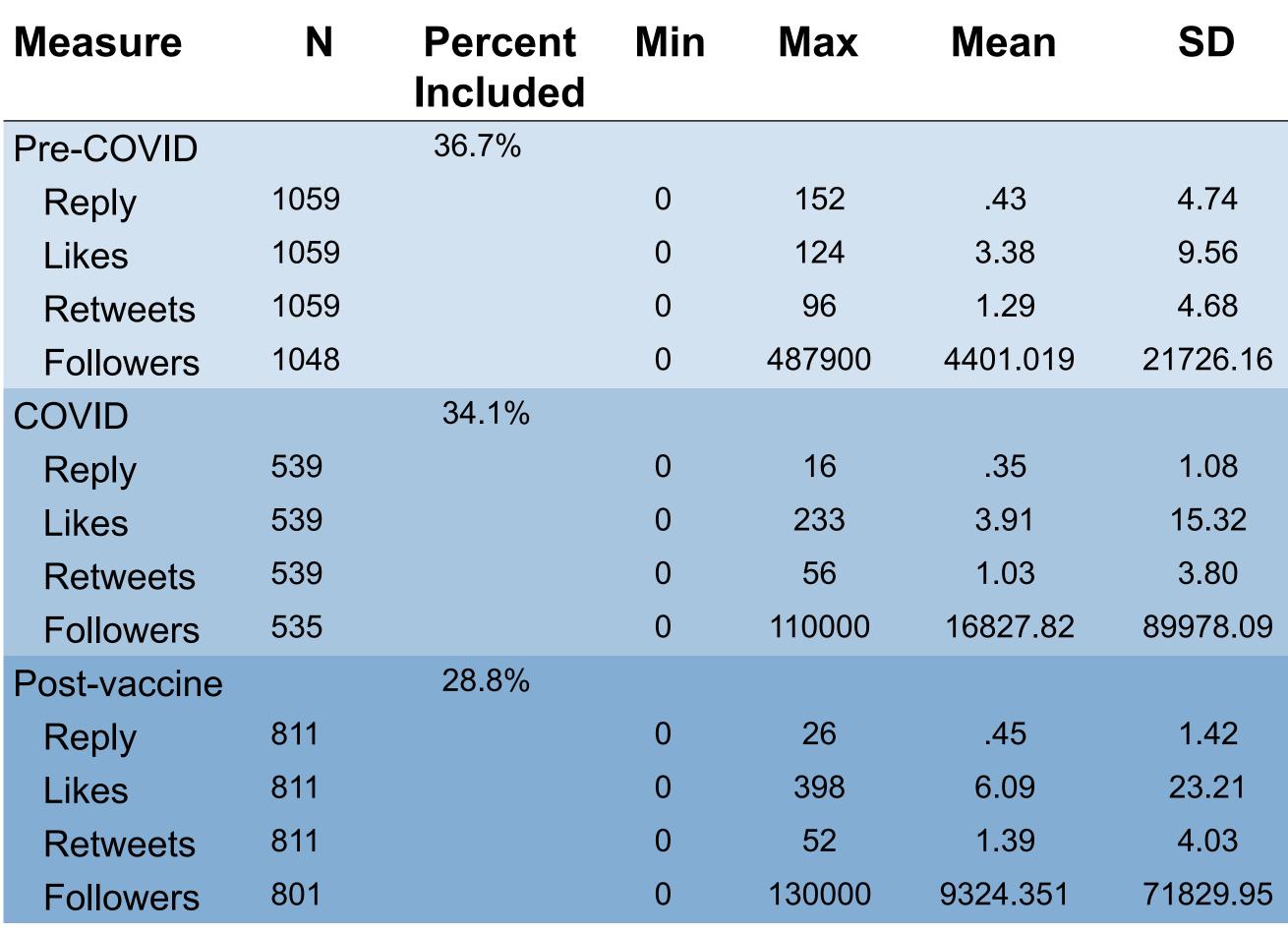


Table 2. Engagement Statistics Over Time.

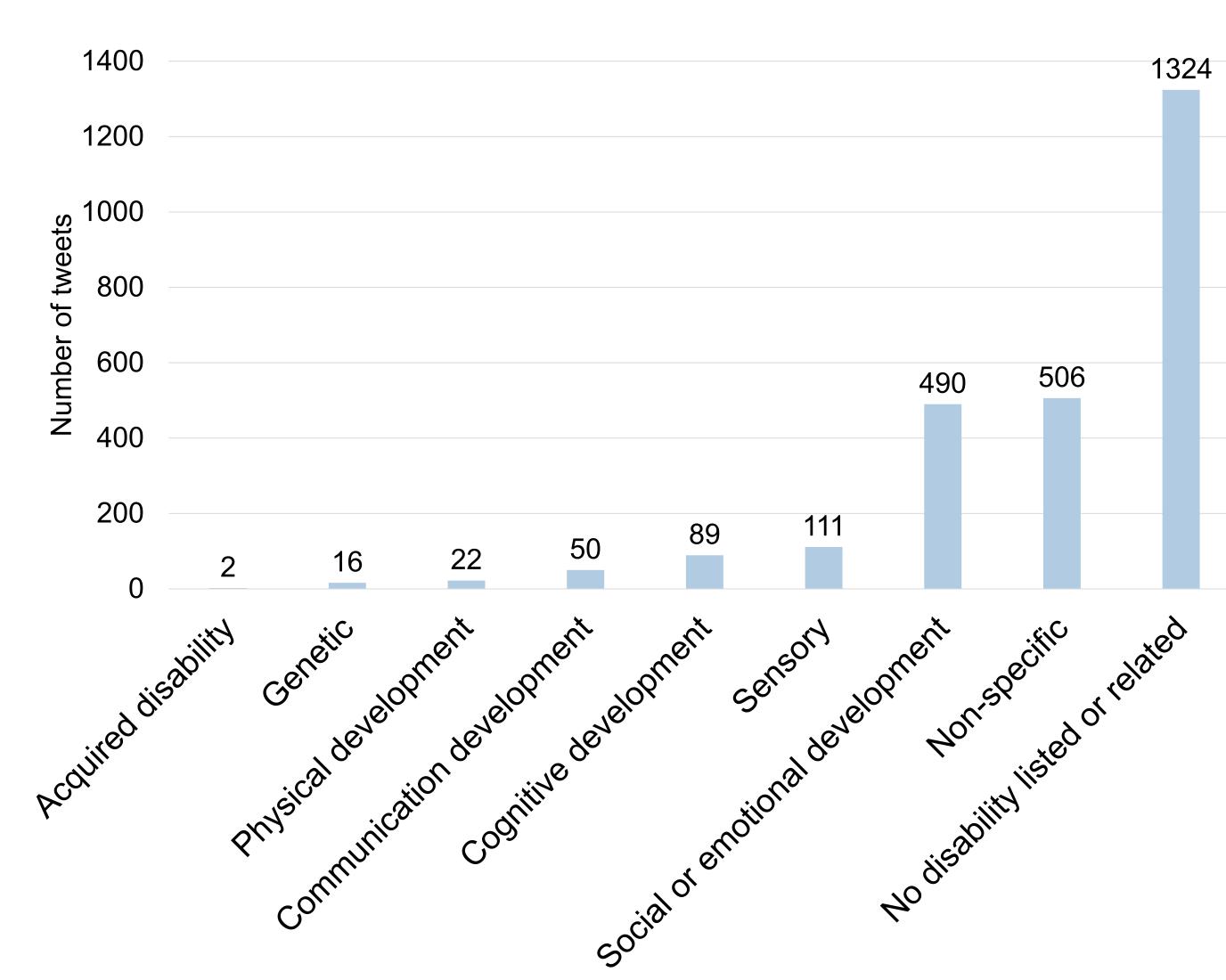


Figure 2. Diagnostic Label Referenced in Tweet

A breakdown of the Sensory Category indicated that 97 tweets directly related to hearing.

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### REFERENCES

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Figure 3. Main components of the dataset.

reports

6<sup>th</sup> grade accessibility

