

# What Evidence Based Strategies Do Parents Spontaneously Use With Their Infants?



MIND

Meagan Nguyen, B.S.<sup>13</sup>, Meagan Talbott, Ph.D<sup>2</sup>

<sup>1</sup> Maternal Child Health Careers/ Research Initiatives for Student Enhancement-Undergraduate Program at Kennedy Krieger Institute,

<sup>2</sup>University of California, Davis MIND Institute, <sup>3</sup>Virginia Commonwealth University



### INTRODUCTION

- Although clinicians have improved identifying and treating early signs of autism, there are still barriers that stop families from treatment
- Barriers to early identification:
- Long waitlists for assessments
- Traveling long distances
- Lack of specialized providers
- The TEDI project has developed a telehealth assessment for infants to improve families' access to treatment options
- Provide support and resources
- Goal: To identify behavioral strategies that could be taught in future intervention

#### **OBJECTIVE**

- 1. To examine whether parents spontaneously use specific developmental support strategies at fidelity
- 2. To determine whether parents use certain strategies at higher fidelity than others

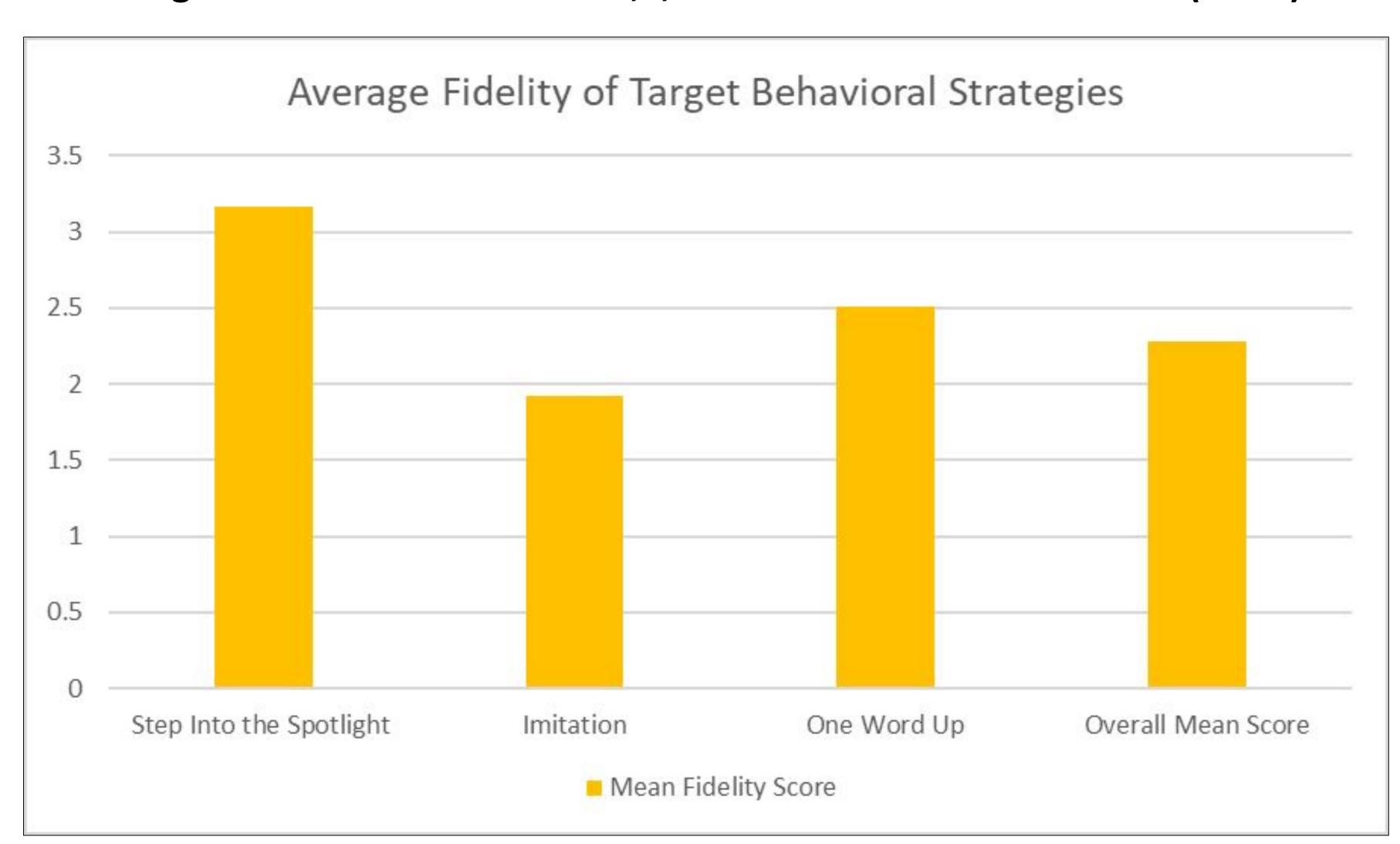
### **METHODS**

- Participants: 17 Parents (N=17)
- Self-selected sample
- 1-hour session, two 3-min segments of free play
- Parent was instructed to "play as you normally would" with their 8-12 month old child during parent-child interactions
- Scored 3 target strategies on a 1-5 Likert Scale::
- Step Into the Spotlight: face-to-face, close contact
- o **Imitation**: facial expressions, vocalization, gestures
- One Word Up: labeling/interpreting actions, feelings, expressions, reactions
- Conducted a Wilcoxon-signed rank-test
- Compared parent mean fidelity score to a score of 4, representing target fidelity levels
- Compared parent mean fidelity scores on each strategy using repeated measures ANOVA and post-hoc pairwise tests

#### RESULTS

- The mean fidelity scores were significantly lower than the target fidelity score of 4 (Z= .000, p> .001)
- There was a statistically significant effect of behavior category on mean fidelity score, F(2, 30) = 14.257, p < .001
- Post-hoc, pairwise tests found that mean fidelity scores for Imitation were significantly lower than both Step Into the Spotlight (p = <.001) and One Word Up (p = .008), which did not differ from each other (p = .10)

Figure 1: Mean scores for SIS, I, OWU and overall mean score (N=17)



### METHODS (cont'd)

#### Demographics

	PARENT	INFANT
SEX	N/A	Male: 64.7% Female: 35.3%
RACE	Asian: 11.8% Asian, White: 5.9% White: 82.4%	Asian: 11.8% Asian, White: 23.5% White: 64.7%
ETHNICITY	Hispanic or Latino: 0 Non-Hispanic or Latino: 100%	Hispanic or Latino: 5.9% Non-Hispanic or Latino: 94.1%

### DISCUSSION

#### **Conclusion:**

- Overall, parents did not spontaneously use these behavioral strategies at fidelity
- There was significant variability in the use of their strategies
- Our findings suggest these behaviors may be good candidate intervention targets because they are skills that need to be taught

#### **Next Steps:**

- Determine whether parents use of these strategies improves infant development
- Work with families to identify areas of need and develop supports for them in those areas

#### **Future Direction:**

• Identify new strategies for parents that are more desirable and feasible

### STRENGTHS & LIMITATIONS

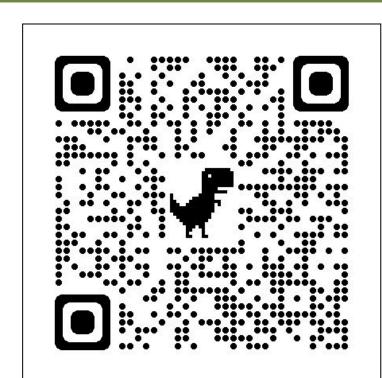
#### • Strengths:

- Inclusion of families with concerns about their infants development
- Convenience of telehealth

#### • Limitations:

- Time constraints
- Small sample size

### ACKNOWLEDGEMENTS



I would like to express my gratitude to my mentor Dr. Meagan Talbott and members of the TEDI lab for their assistance and direction throughout this project as well as their ongoing support!





## INTRODUCTION

- Although clinicians have improved identifying and treating early signs of autism, there are still barriers that stop families from treatment
- Barriers to early identification:
- Long waitlists for assessments
- Traveling long distances
- Lack of specialized providers
- The TEDI project has developed a telehealth assessment for infants to improve families' access to treatment options
- Provide support and resources
- GOAL: To identify behavioral strategies that could be taught in future intervention



# OBJECTIVES

- 1. To examine whether parents spontaneously use specific developmental support strategies at fidelity
- 2. To determine whether parents use certain strategies parents at higher fidelity than others

# METHODS

- Participants: 17 Parents (N=17)
- Self-selected sample
- 1-hour session, two 3-min segments of free play
- Parent was instructed to "play as you normally would" with their 8-12 month old child during parent-child interactions
- Scored 3 strategies on a 1-5 Likert Scale:
- Step Into the Spotlight: face-to-face, close contact
- Imitation: facial expressions, vocalization, gestures
- One Word Up: labeling/interpreting actions, feelings, expressions, reactions

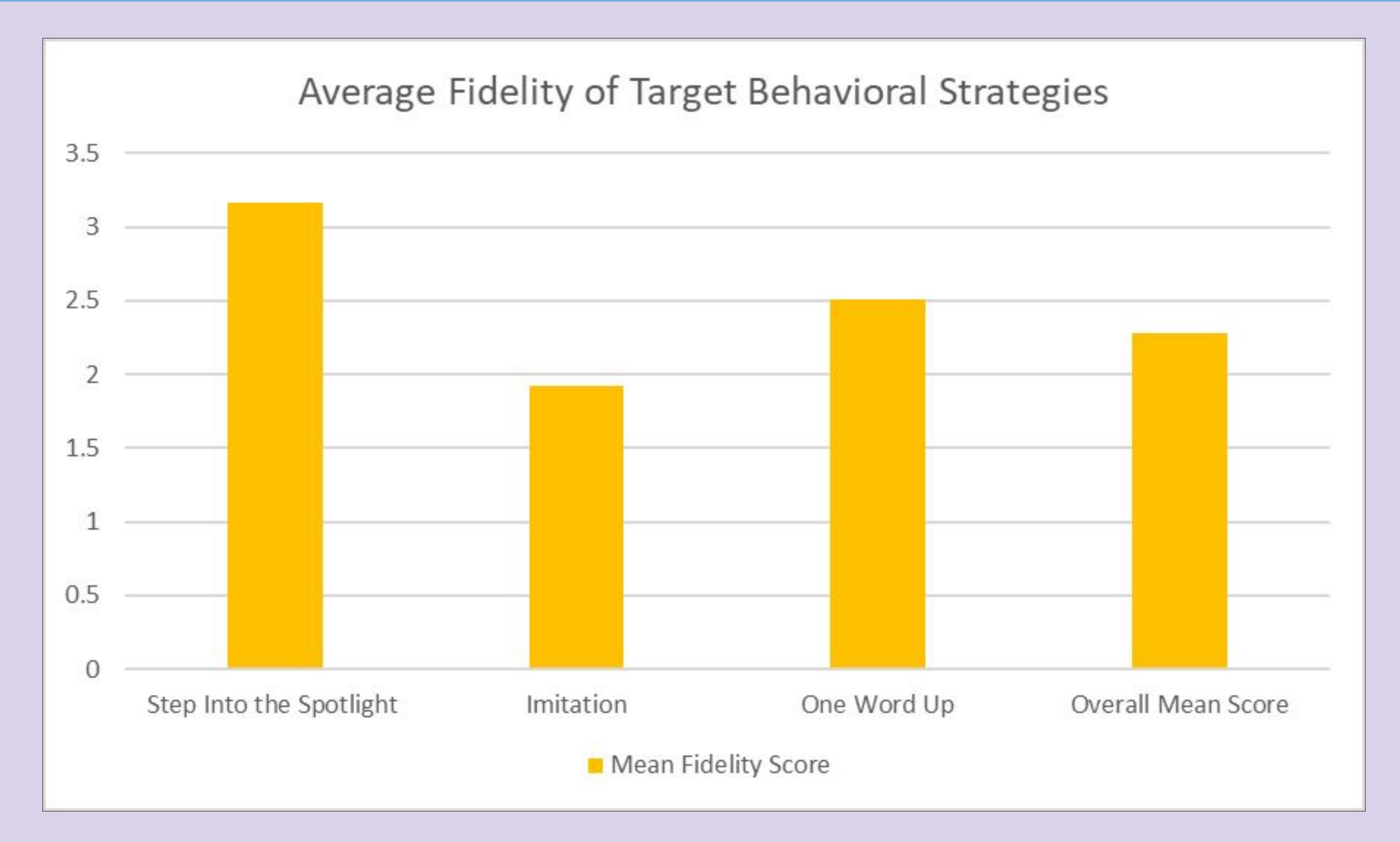
### DEMOGRAPHICS

	PARENTS	INFANT
SEX	N/A	Male: 64.7% Female: 35.3%
RACE	Asian: 11.8% Asian, White: 5.9% White: 82.4%	Asian: 11.8% Asian, White: 23.5% White: 64.7%
ETHNICITY	Hispanic or Latino: 0 Non-Hispanic or Latino: 100%	Hispanic or Latino: 5.9% Non-Hispanic or Latino: 94.1%

# METHODS

- Conducted a Wilcoxon signed-rank test
- Compared parents mean fidelity score to a score of 4, representing target fidelity levels
- Compared parent mean fidelity scores on each strategy using repeated measures ANOVA and post-hoc pairwise tests

## RESULTS



- The mean fidelity scores were significantly lower than the target fidelity score of 4 (Z=.000, p>.001)
- There was a statistically significant effect of behavior category on mean fidelity score, F(2, 30) = 14.257, p < .001
- Post-hoc, pairwise tests found that mean fidelity scores for Imitation were significantly lower than both Step Into the Spotlight (p = <.001) and One Word Up (p =.008), which did not differ from each other (p = .10)

# DISCUSSION

### Conclusion:

- Overall, parents did not spontaneously use these behavioral strategies at fidelity
- There was significant variability in the use of their strategies
- Our findings suggest these challenging behaviors may be good candidate intervention targets because they are skills that need to be taught

### Next Steps:

- Determine whether parents use of these strategies improves infant development
- Work with families to identify areas of need and develop supports for them in those areas

### Future Direction:

• Identify new strategies for parents that are more desirable and feasible



# STRENGTHS & LIMITATIONS

## • Strengths:

- Inclusion of families with concerns about their infants development
- Convenience of telehealth

### • Limitations:

- Time constraints
- Small sample size

## ACKNOWLEDGEMENTS

This project would not have been possible without the support of my mentor Dr. Meagan Talbott, Dr. Janice Enriquez, and members of the TEDI Lab. Thank you for your guidance and contributions to this project!

### REFERENCES



Scan the QR
Code