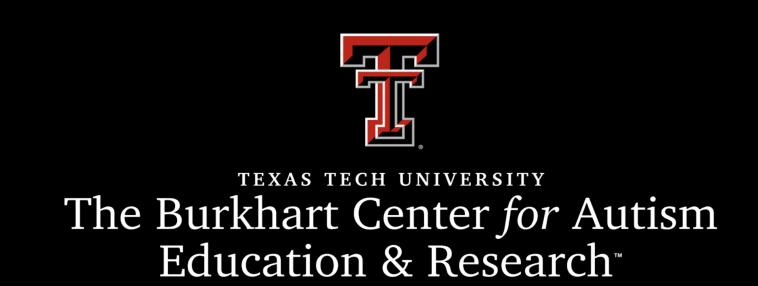
## **Evaluating the Effects of a Parent-Implemented Picture Exchange Intervention** on a Child with Autism Via Telehealth



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#### **BACKGROUND**

Functional Communication Training (FCT) is a widely used Evidence-Based Practice to teach children how to effectively communicate their wants and needs while reducing challenging behavior (Hollo & Burt, 2018; Wong et al., 2015). Picture exchange is an augmentative/alternative communication intervention that is frequently utilized for individuals to communicate with others through picture cards (Ganz, 2014). Providing parents with FCT training via telehealth is effective for children with autism (Wacker, 2013).

# Utilizing Parent-Implemented Intervention to teach FCT through a picture exchange intervention can be effective via telehealth for children who have high magnitude challenging behavior and limited language. This intervention can also be beneficial for families who have limited resources or access to services in their area.



#### **M**ETHODS

#### Participants:

- Child: 5-year-old Black male diagnosed with autism
- Parent: Mother

#### Setting:

Telehealth- Zoom platform

#### Materials:

- Known preferred and distractor items/ activities
- Picture cards of preferred and distractor items
- Communication book
- Wireless headphones
- Reliable internet connection
- Bluetooth technology
- Personal device (i.e., iPad, computer, phone) to connect to sessions
  Independent Variable:
- Parent-Implemented Intervention to teach FCT through a Picture Exchange Intervention

#### Dependent Variables:

- Parent's independent use of steps for FCT intervention (I.e., Picture Exchange Intervention)
- Parent's report of social validity (i.e., acceptability) of intervention
- Child's independent accuracy of responding using a functional communication response (I.e., Picture Exchange Intervention)
- Child's frequency of challenging behavior (I.e., aggression, self-injurious behavior (SIB)) throughout session

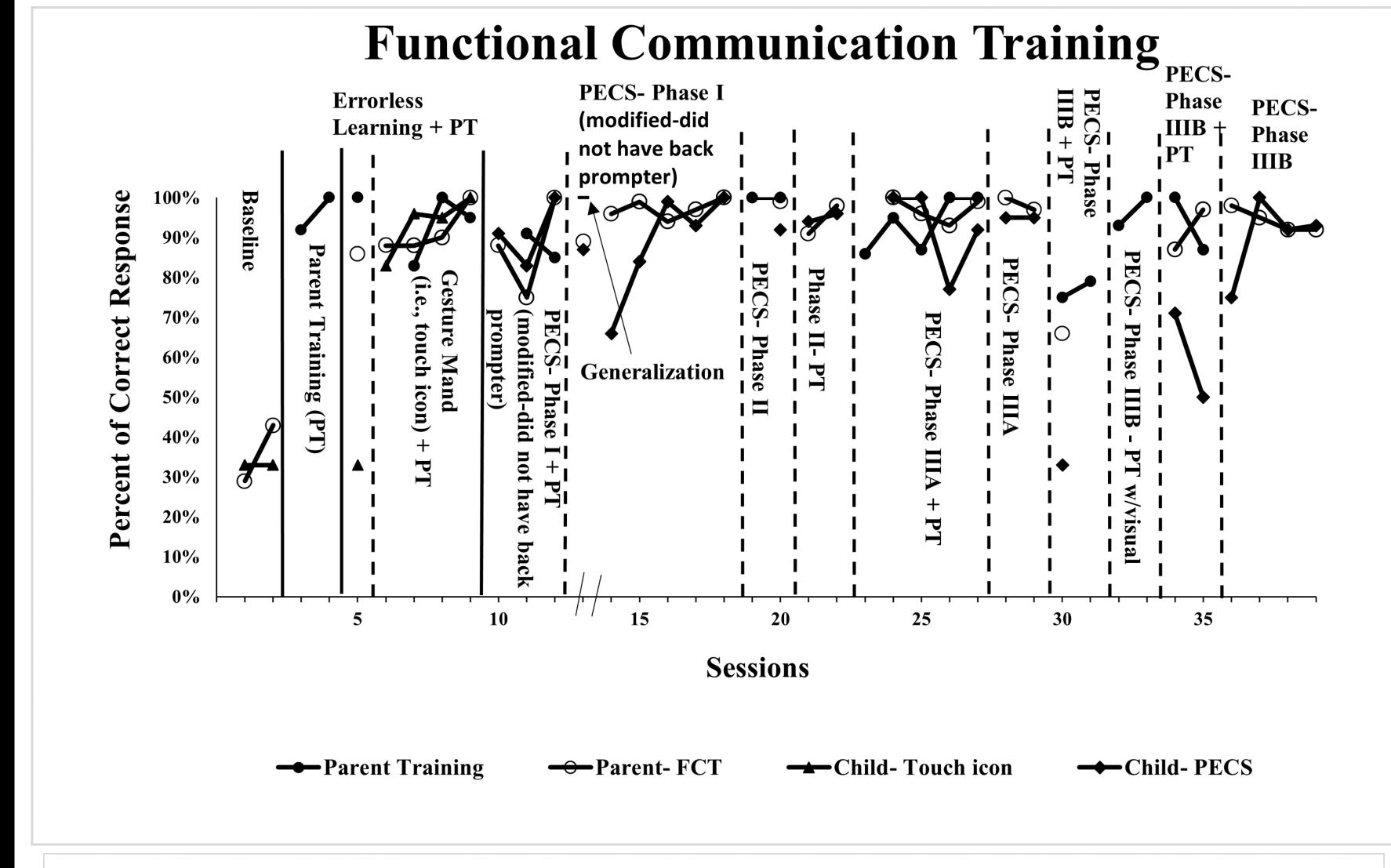
#### <u>Interobserver Agreement (IOA):</u>

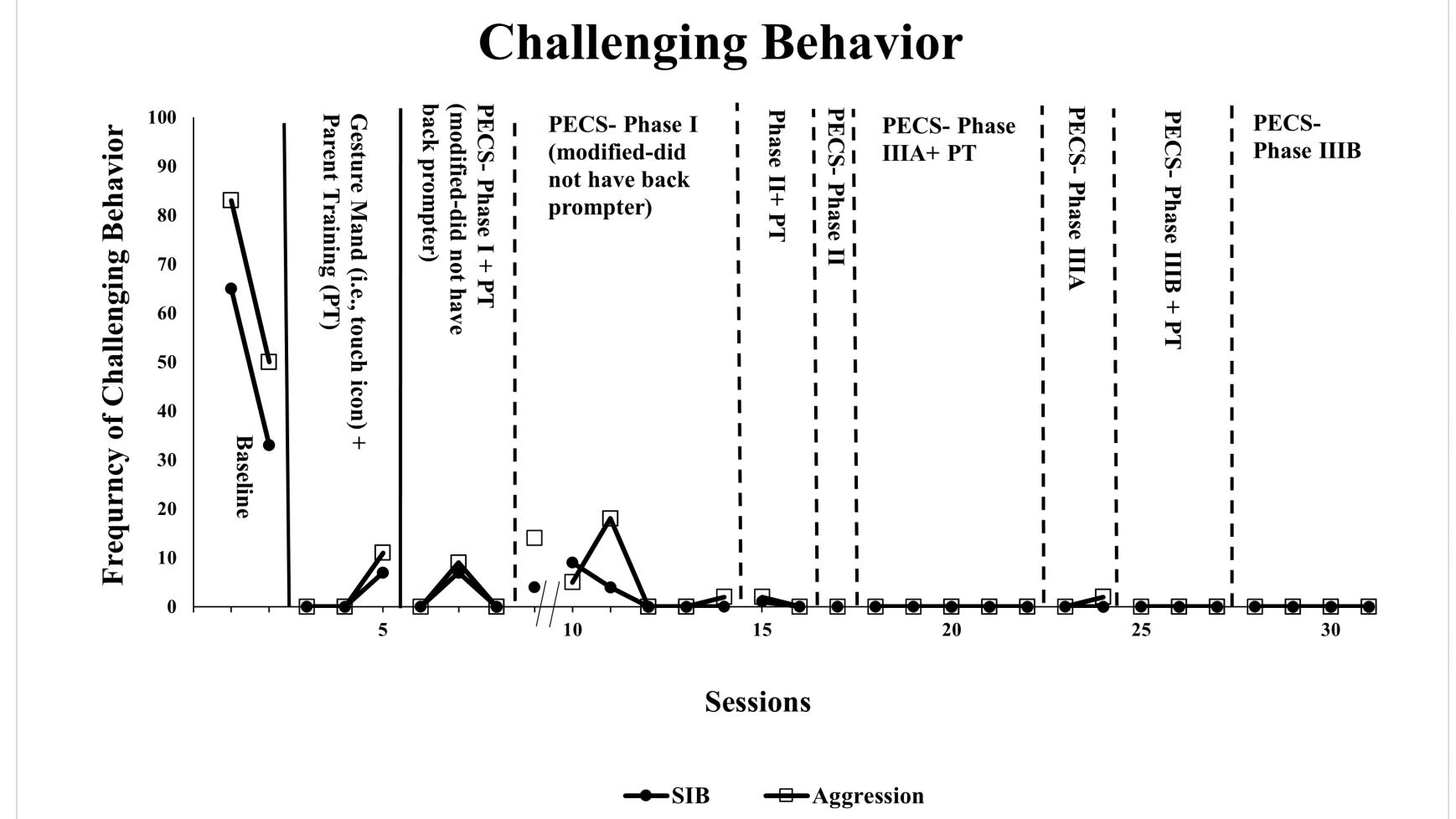
- IOA was collected for 31% of sessions
  - Parent Data: Average of 94% agreement, ranging from 81%-100%
  - Child Data: Averaged of 92% agreement, ranging from 75%-100%

#### RESULTS

#### Parent:

- Baseline: Parent independently implemented FCT intervention an average of 36% opportunities
- Intervention: Parent independently implemented all intervention phases (i.e., gesture mand, picture exchange phase I, PECS phase II, PECS phase III A, PECS phase III B, parent training sessions across all phases) 90% of opportunities across at least 3 consecutive sessions





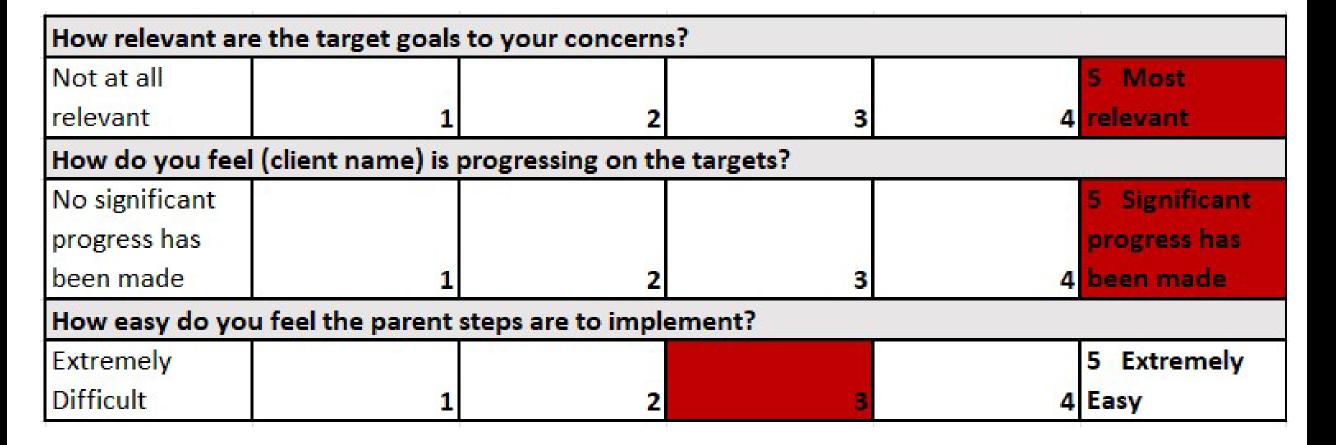
#### RESULTS (CONT.)

#### Child:

- Baseline: Child functionally requested for reinforcement an average of 33% of opportunities
- Intervention:
  - Child independently requested his wants and needs during all phases of functional communication (i.e., gesture mand, picture exchange phase I, PECS phase II, PECS phase III A, PECS phase III B) 90% of opportunities across at least 3 consecutive sessions
  - Child engaged in 0 instances of challenging behavior across 16 consecutive sessions

#### Social Validity:

 Parent expressed high acceptability in treatment regarding the benefits and effectiveness of the intervention phases



#### **LIMITATIONS**

- Back prompter was not utilized during picture exchange intervention due to availability of parents/ caregivers
- Minimal data points during initial phase changes
- Post intervention social validity was not accessed due to lack of parent communication
- Technological difficulties and limited availability for in vivo modeling
- Lack of generalization/ maintenance data due to scheduling

#### FUTURE RESEARCH

 Replicating this study to multiple participants with similar communication deficits and/or challenging behavior via telehealth