

Functional  
Communication  
Training in the  
Natural  
Environment: A Pilot  
Investigation with a  
Young Child with  
Autism Spectrum  
Disorder

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# Abstract (p. 615).

1. Purpose: To evaluate the effectiveness of FCT implemented in a natural setting.

- This study investigates the success of applying FCT in real-world environments.

2. Participants: One young child diagnosed with ASD.

- The study focused on a single participant for detailed observation.

3. Setting: Natural environments like home and school.

- The intervention was implemented where the child interacts daily.

4. Results: Significant reduction in challenging behavior and increased functional communication.

- The findings highlight the potential benefits of FCT in everyday contexts.

# Introduction -What is Functional Communication Training (FCT)? (p. 616).



**Behavioral  
intervention  
strategy.**

FCT is  
designed to  
address  
challenging  
behaviors  
effectively.



**Replaces  
challenging  
behavior with  
appropriate  
communication.**

The goal is to  
substitute  
problematic  
behaviors with  
functional  
alternatives.



**Rooted in Applied  
Behavior Analysis  
(ABA).**

It is a core  
component of  
evidence-based  
ABA  
interventions.

## Importance of the Natural Environment (p. 629).

### Why Natural Settings Matter

**Generalization of skills.**

Skills learned in natural environments are more likely to generalize.

**Greater ecological validity.**

Real-world settings improve the relevance and applicability of interventions.

**Opportunities for naturally occurring reinforcers.**

Reinforcers in natural settings enhance the sustainability of behavior changes.

# Participant Details – (p. 615).

## Age: 4 years.

- The participant was a preschool-aged child, allowing for early intervention.

## Diagnosis: Autism Spectrum Disorder.

- The child exhibited symptoms characteristic of ASD.

## Communication Profile: Limited verbal skills.

- The participant's limited verbal ability necessitated a communication-based intervention.

# Methodology

## Study Design (pp. 618-622):

**Baseline phase:  
Observing challenging behaviors.**

- Initial observations established the frequency and types of challenging behaviors.

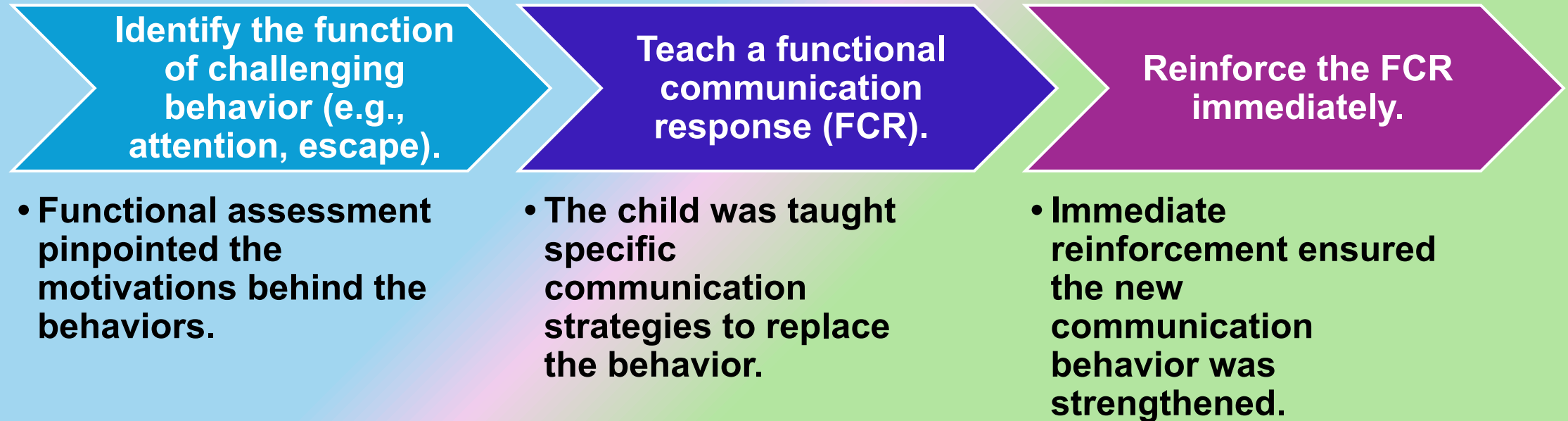
**Intervention phase:  
Implementing FCT.**

- The intervention was introduced systematically after the baseline.

**Data collection in home and school settings.**

- Observations occurred in settings familiar to the participant.

# Intervention Procedure - How FCT Was Implemented?



## Data Collection Methods

**Frequency of challenging behaviors.**

- Behaviors were recorded to evaluate the effectiveness of the intervention.

**Frequency of functional communication responses.**

- Increased FCRs indicated the success of the training.

**Observations across settings.**

- Multiple settings ensured the intervention's generalization and reliability.



# **Results: Reduction in Challenging Behavior (p. 626).**

## **Behavioral Outcomes:**

### **Significant decrease in tantrums.**

- The frequency of tantrum behaviors reduced markedly.

### **Reduced aggression and non-compliance.**

- Problematic behaviors such as aggression and non-compliance showed notable improvements.

# **Results: Increase in Functional Communication (p. 628).**

## **Communication Outcomes:**

- **Increased use of communication boards.**
  - **The participant began to rely on communication boards as an alternative.**
- **Increased verbal requests.**
  - **Verbal communication improved, with more frequent and context-appropriate requests.**

## **Discussion (p. 629).**

# **Key Findings:**

**FCT is effective in natural environments.**

**Importance of individualized interventions.**

**The intervention proved successful in everyday settings.**

**Tailoring interventions to the participant's needs is critical for success.**

## **Limitations (p. 630).**

### **Study Constraints:**

- **Single-subject design.**
  - **The findings may not generalize to all children with ASD.**
- **Short duration.**
  - **The study's time frame limited the scope of observed changes.**
- **Limited generalizability.**
  - **Further research with larger samples is necessary to validate findings.**

# Implications for Practice (p. 629).

## Application in ABA:

**Use FCT to address challenging behaviors.**

- Practitioners should consider FCT as a primary intervention for behavior management.

**Train caregivers to implement FCT in natural settings.**

- Caregiver involvement ensures consistency and effectiveness.

## Future Directions (p. 630).

# Next Steps in Research:

### **Larger sample sizes.**

- Expanding research to include more participants enhances reliability.

### **Longer follow-up periods.**

- Extended observations will help understand the long-term effects.

### **Application across diverse populations.**

- Testing FCT in varied cultural and demographic contexts ensures broader applicability.

# Conclusion

## Study Takeaways:

**FCT is an effective strategy.**

**Natural settings enhance skill generalization.**

**Encourages independence and communication.**

**The intervention shows promise in addressing communication challenges.**

**Skills learned in these environments have lasting impacts.**

**FCT fosters autonomy and social interaction.**

# Reference

- Mancil, G. R., Conroy, M. A., Nakao, T., & Alter, P. J. (2006). Functional communication training in the natural environment: A pilot investigation with a young child with autism spectrum disorder. *Education & Treatment of Children*, 29(4), 615-633.

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