Extensions of Assessment and Treatment for Food Selectivity

Presented by: Holly C. Gover, PhD, BCBA-D Vanderbilt University Medical Center -TRIAD



VANDERBILT KENNEDY CENTER

TREATMENT & RESEARCH INSTITUTE FOR AUTISM SPECTRUM DISORDERS



Lessons learned and modifications for children with varying skill levels

Shaping without escape extinction

Chew food for 5 s

Chew food for 3 s

Balance food on tongue

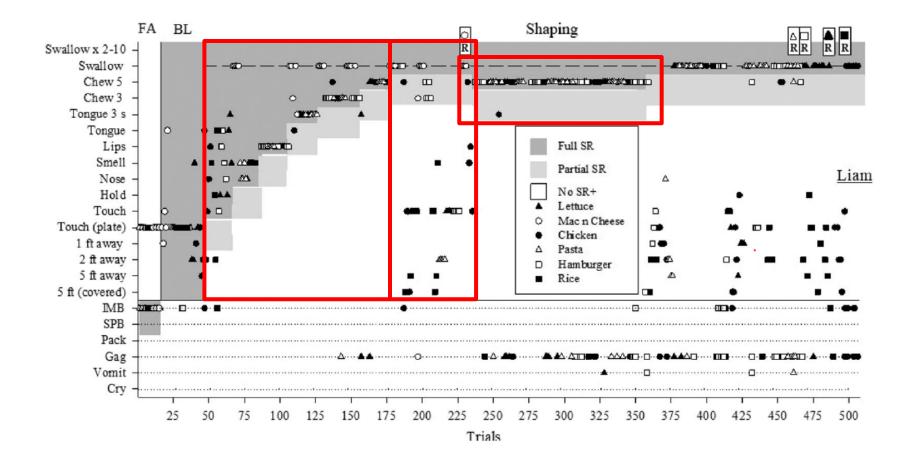
Lick the food

Smell the food

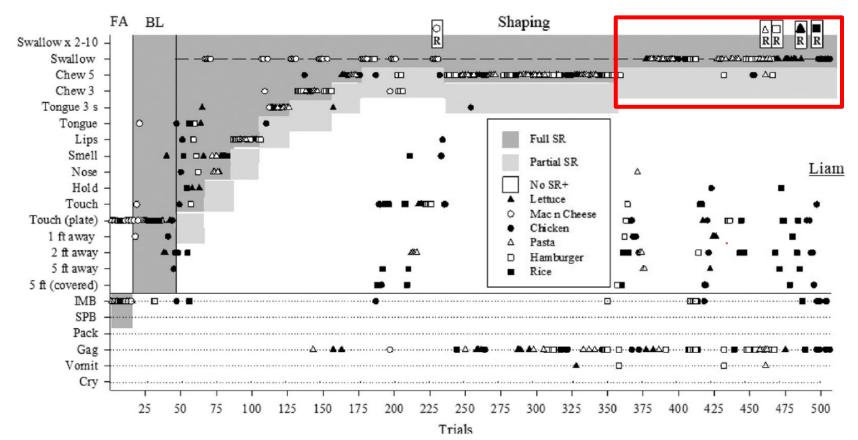
Touch the food

Look at food across the table

Task analyze if the child is struggling.



Modifications



Levels for Luke – 6 yo

- Look at food, uncovered, food is within arm's reach
- 2. Touch plate
- 3. Touch food with utensil or hand
- 4. Hold food in spoon or hand
- 5. Bring to nose
- 6. Bring to nose and smell
- 7. Touch piece of food to lips
- 8. Touch piece of food to tongue
- 9. Balance on tongue 3 s
- 10. Chew food 3x, spit out
- 11. Chew food 5x, spit out
- 12. Swallow 1 bite of food

Levels for Derek – 4 yo	
1.	Look at food, uncovered, food is within arm's reach
2.	Touch plate
3.	Touch food with utensil or hand
4.	Analyst hands food to hold
5.	Hold food
6.	Bring to chin
7.	Bring to nose
8.	Bring to nose and smell
9.	Touch piece of food to lips
10.	Touch piece of food to tongue 1 s
11.	Food to tongue 2 s
12.	Food to tongue 3 s
13.	Balance on tongue, 3 s
14.	Balance on tongue, close mouth, 1 piece
15.	Balance on tongue, close mouth, 2 pieces
16.	Balance on tongue, close mouth, 3 pieces
17.	Balance on tongue close mouth, 4 pieces
18.	Hold on tongue, move back and forth
19.	Move back and forth, 2 pieces
20.	Move back and forth, 3 pieces
21.	Move back and forth, 4 pieces
22.	Hold food with front teeth
23.	Bite food in 2 pieces with front teeth
24.	Bite in 2, hold 3 s
25.	Bite in 2, hold 5 s
26.	Hold food with side teeth
27.	Bite in 2, side teeth
28.	Bite in 2, hold 3 s
29.	Bite in 2, hold 5 s
30.	Put on back teeth
31.	Chew food 1x (back teeth), spit out
32.	Chew food 2x, spit out
33.	Chew food 3x, spit out
34.	Chew food 4x, spit out
35.	Chew food 5x, spit out
36.	Chew food 10x, spit out
37.	Chew food 20s, spit out
38.	Swallow 1 bite of food

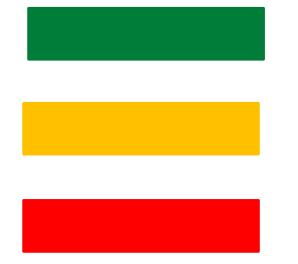
Treatment components



- Differential reinforcement with synthesized reinforcers
- Shaping
- Choice to participate



- Choice-board
- Varying levels of differential reinforcement
- Choice of food
- Choice of what to do with food
- Hang-out corner



Leave the table, eat fruit snacks, watch YouTube videos of kids unwrapping toys, analyst watches with you and makes positive comments

Chat with the analyst at table

Sit quietly at tab next trial

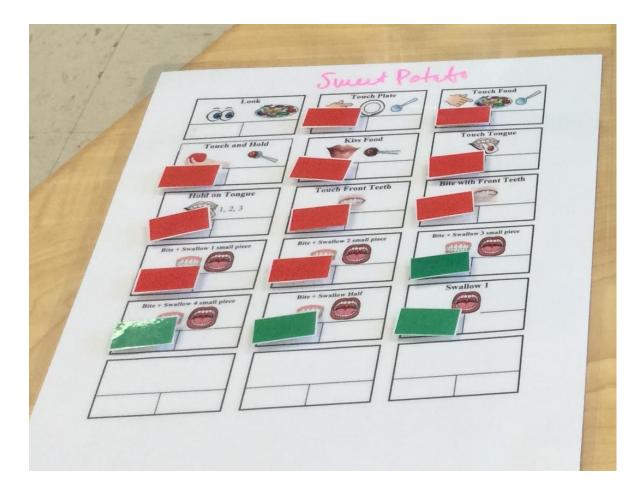
Differentially reinforce in whatever way is meaningful.



Leave the table, eat fruit snacks, watch YouTube videos of kids unwrapping toys, analyst watches with you and makes positive comments



Sit quietly at table for \sim 30s until next trial





Leave the table, eat fruit snacks, watch YouTube videos of kids unwrapping toys, analyst watches with you and makes positive comments



Sit quietly at table for \sim 30s until next trial



Leave the table, eat fruit snacks, watch YouTube videos of kids unwrapping toys, analyst watches with you and makes positive comments for 2 min



Leave the table, eat fruit snacks, watch YouTube videos of kids unwrapping toys, analyst watches with you and makes positive comments for 30 s



Access to computer, attention, mand compliance, **twizzlers**

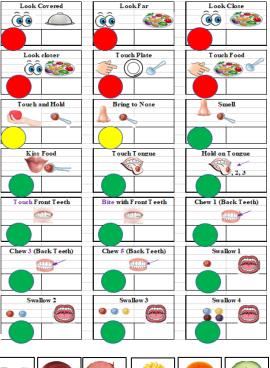


Access to computer, attention, mand compliance

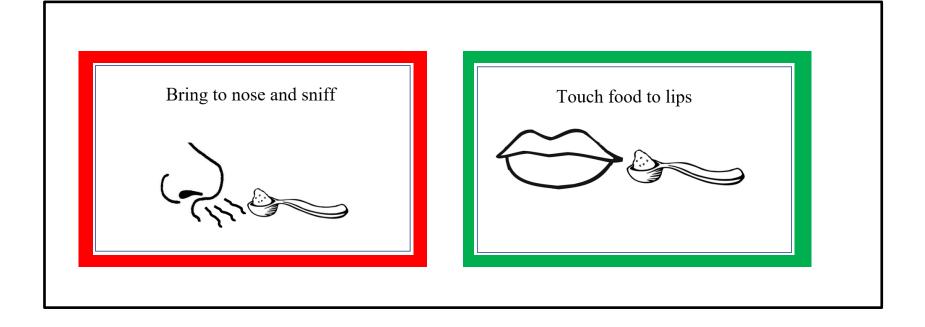
Choice

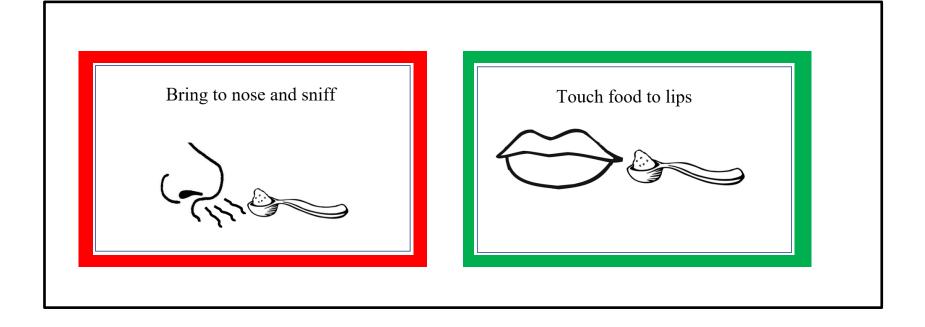




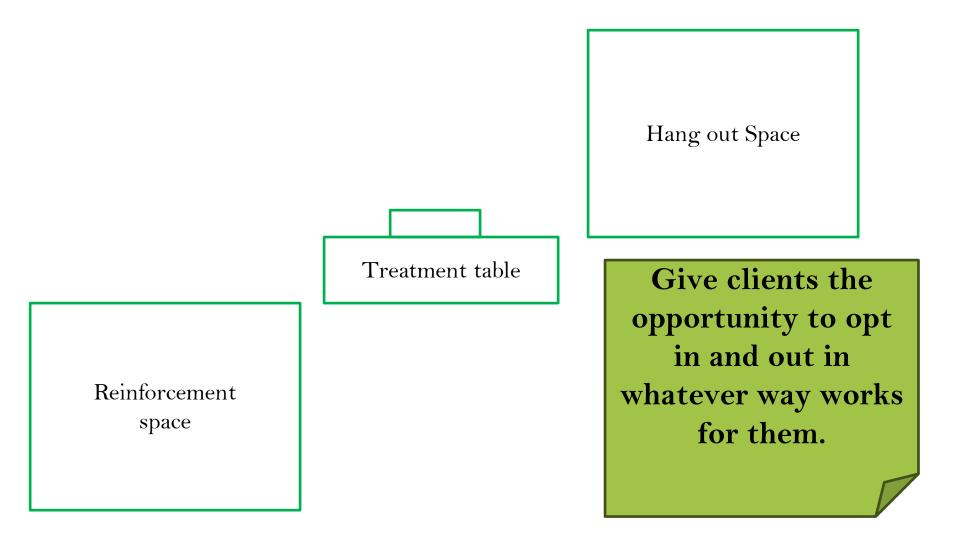












Choice

• The Enhanced Choice Model (Rajaraman et al. 2021)

Potentially more appropriate for a controlled settled and kids with strong communication skills

• Open-door / Vote "with your feet"

Potentially more appropriate for children with less language Be attuned to behavior suggesting withdrawal of assent

Full-assent based procedures

Potentially more appropriate for children with strong communication skills and less controlled settings



Applications of Traumainformed Care to the Assessment and **Treatment of Food** Selectivity

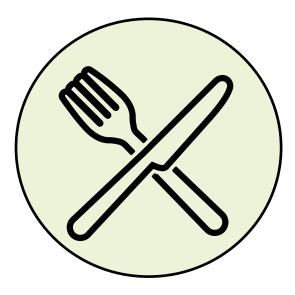
Holly C. Gover, Adithyan Rajaraman, & Tara Weiss

VANDERBILT KENNEDY CENTER

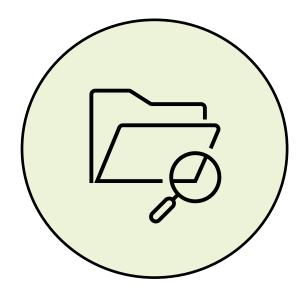


TREATMENT & RESEARCH INSTITUTE FOR AUTISM SPECTRUM DISORDERS









Prioritizing choice and assent in the assessment and treatment of food selectivity

Holly C. Gover, Gregory P. Hanley, Kelsey W. Ruppel, Robin K. Landa and Juliana Marcus

Vanderbilt Kennedy Center, Treatment and Research Institute for Autism Spectrum Disorders, Vanderbilt University Medical Center, Western New England University, Springfield, MA, USA

Food selectivity affects up to 72% and 45% of individuals with and without disabilities, respectively, and there is a need for interventions that rely on positive, unrestrictive strategies. We evaluated an assessment and treatment package for food selectivity for young children with developmental disabilities that prioritized caregiver collaboration, client autonomy, and did not rely on restrictive procedures (e.g. escape extinction). The

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Toward trauma-informed applications of behavior analysis

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Despite a growing acknowledgement of the importance of understanding the impacts of trauma on therapeutic approaches across human service disciplines, discussions of trauma have been relatively infrequent in the behavior analytic literature. In this paper, we delineate some of the barriers to discussing and investigating trauma in applied behavior analysis (ABA) and describe how the core commitments of trauma-informed care could be applied to behavior analysis. We then



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(UrTiPR) team-to assist an ideating with public ... health emergencies (Wolkin & Everett, 2018). Harris and Fallot (2001), frequently cited as establishing some of the foundational concepts in TIC, argued that being trauma-informed "means to know the history of past and current abuse in the life of the consumer with whom one is working" and "to use that understanding to design service systems that accommodate the vulnerabilities of trauma survivors and allow services to be delivered in a way that will facilitate consumer participation" (p. 4). The concept of consumer participation implies not only that the nargan jaan activa willing narticing pt, in that bar varriers to discussing and investigating trauma in applied behavior analysis (ABA) and describe how the core commitments of trauma-informed care could be applied to behavior analysis. We then *Journal of* Applied Behavior Analysis



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Key Components of TIC

Acknowledge Trauma and its Potential Impact



AND A

Promote Choice and Shared Governance

Emphasize Skill Building

Skyler

- 12 years old, autism
- Encyclopedic mind for movie/TV characters
- Loves creating homework and quizzes

Highly selective eater

Specific rules about what he eats where



Journal of Applied Behavior Analysis

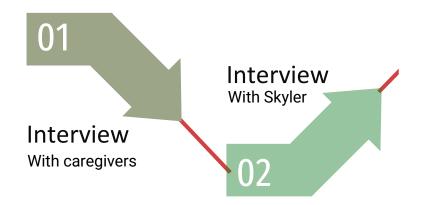


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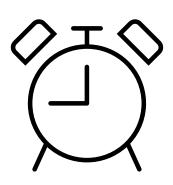
Assessment

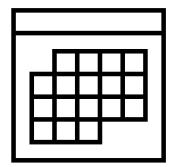


Assessment

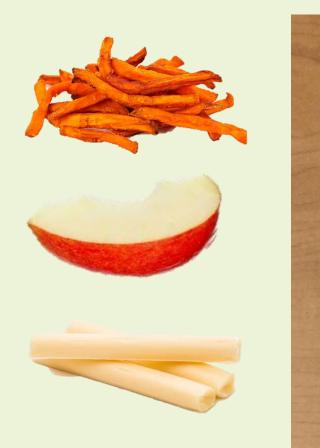


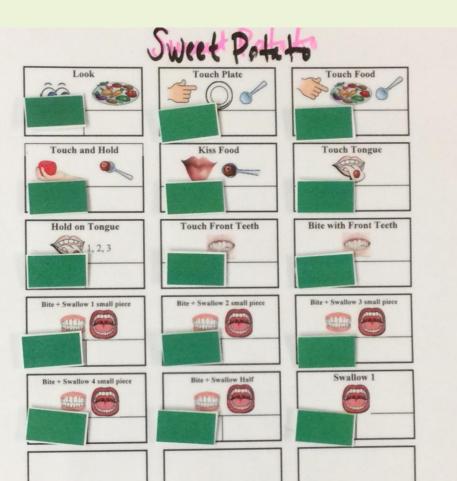




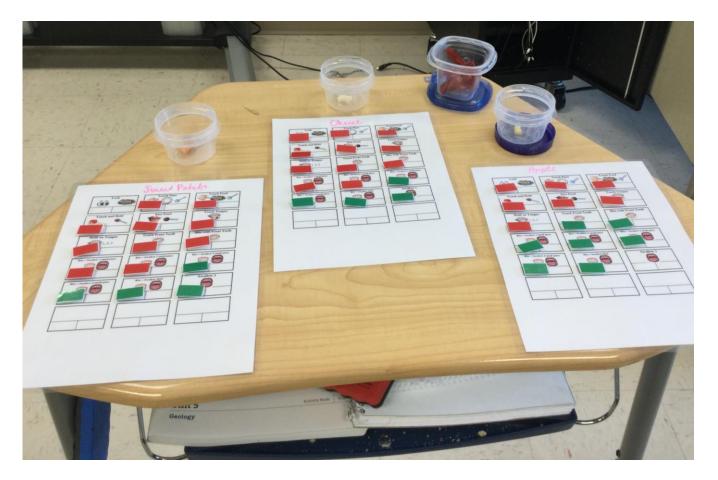


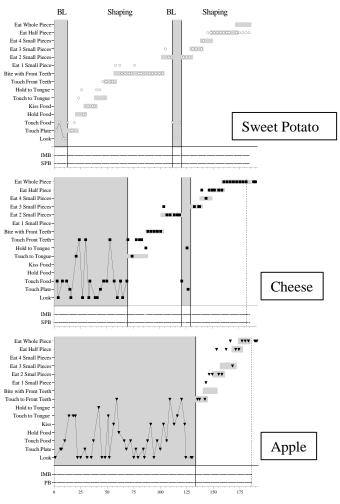
Baseline

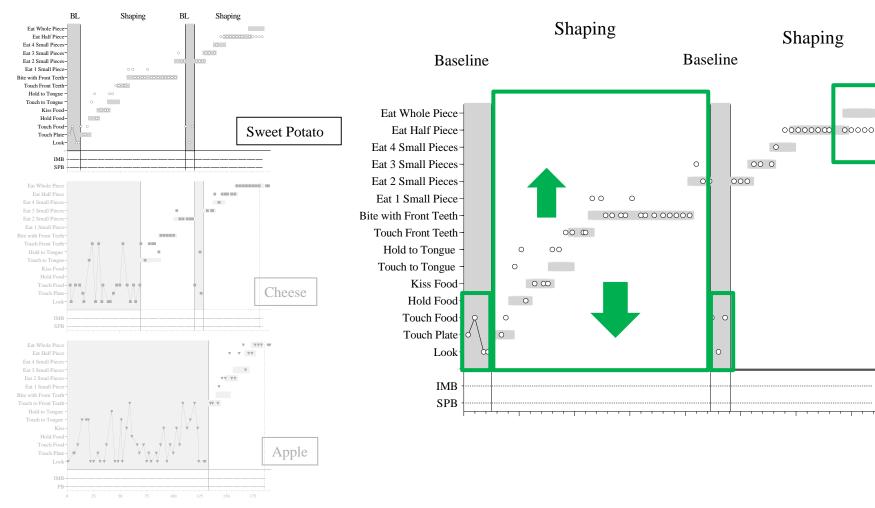


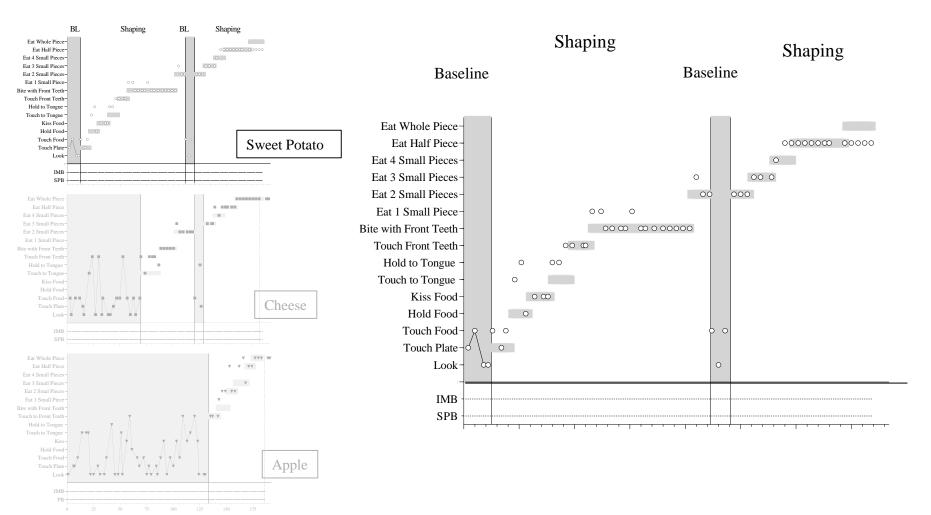


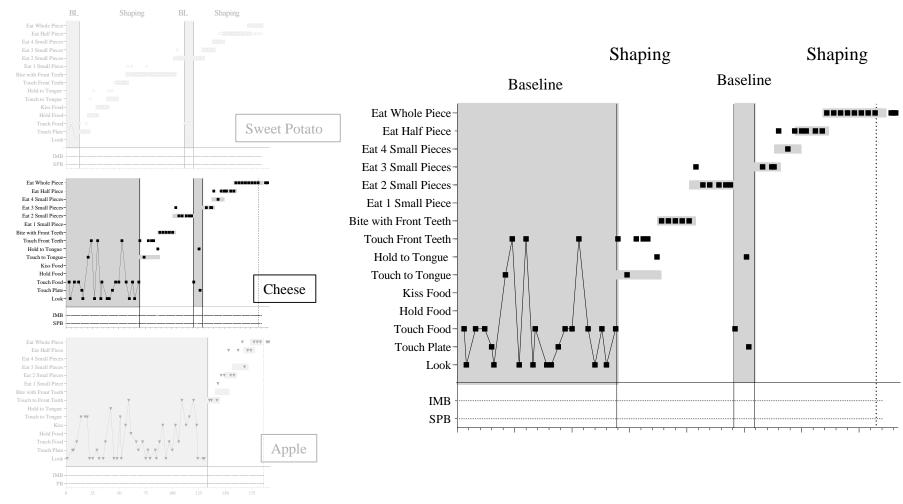
Treatment – Differential Reinforcement

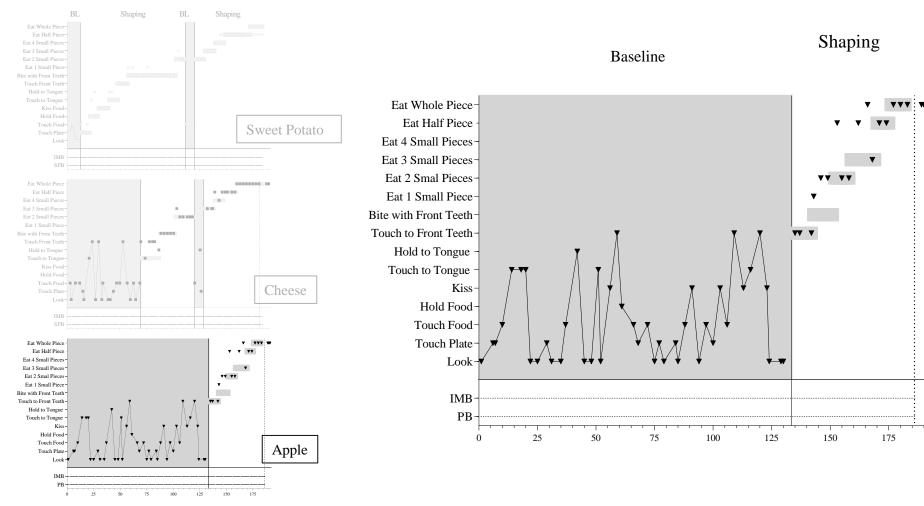


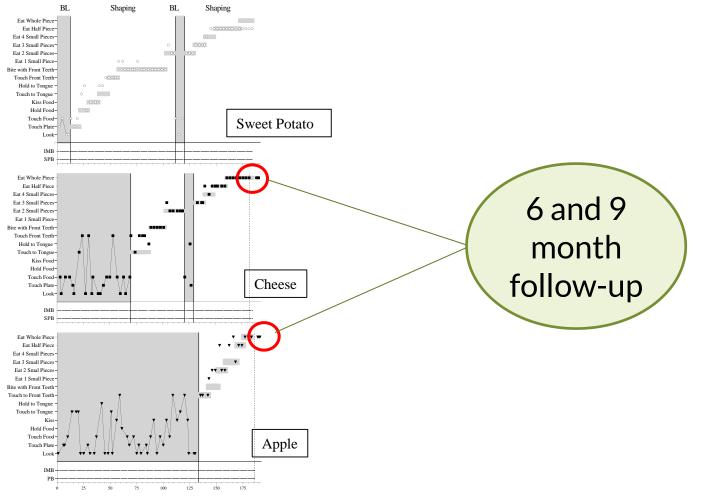












Question

Rating

How do you feel like you were treated during our food program?

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Did you feel comfortable and safe during the food program?	7

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How proud are you of what you accomplished thus far (i.e., trying and eating these foods)?	5

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How proud are you of what you accomplished thus far (i.e., trying and eating these foods)?	5
How willing would you be to try new foods if you could do it like we did?	

TIC Components

In practice

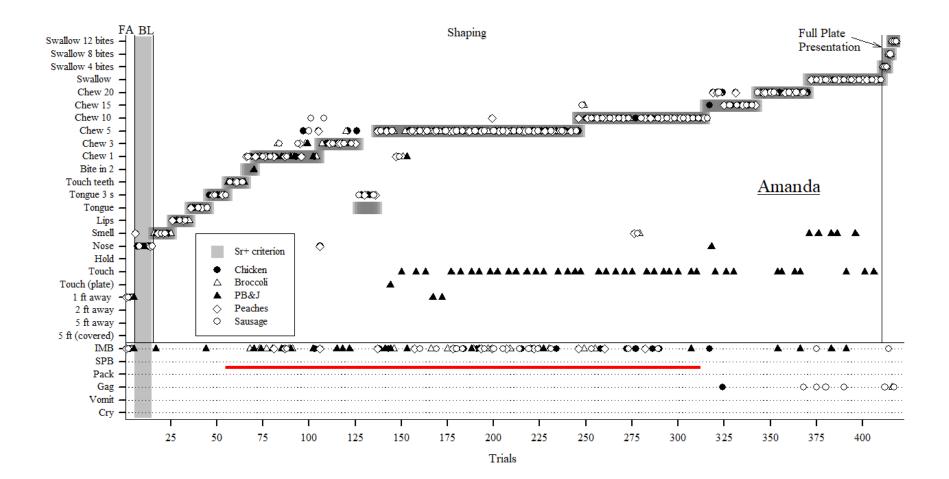
Acknowledge trauma and its potential impact	 Open-ended interview with caregivers and school team Open-ended interview with Skyler Record and context review
Ensure safety and trust	 Termination of sessions up to Skyler Control embedded into procedures Assent for all parts of the intervention
Promote shared governance and choice	 Selection of target foods and preferred foods Choice of when and how often sessions were run Skyler involved in problem solving
Emphasize skill-building	 Focus on skills not compliance Self-advocacy skills embedded within

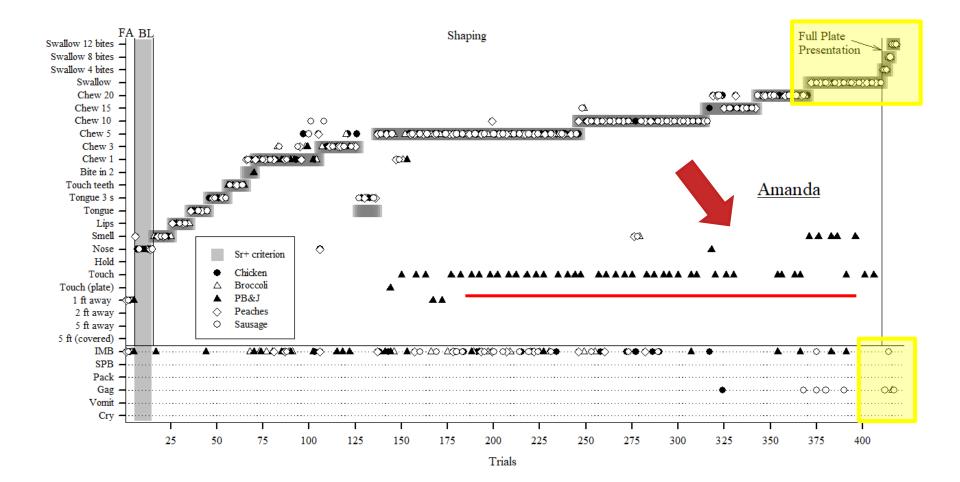
Treating Food Selectivity in Autistic Adolescents and Adults: A Systematic Replication

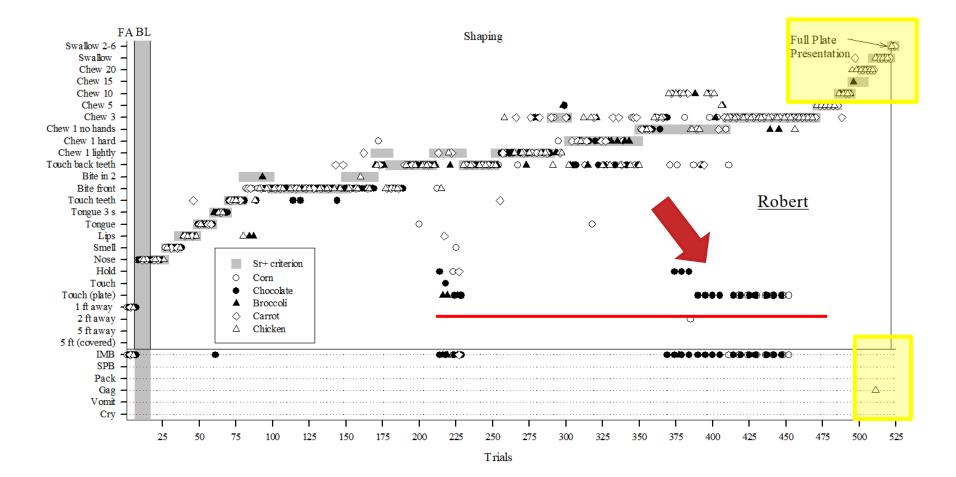
Mara L. Vanderzell, Holly C. Gover, Sean Badger, Jessica Hanson, Yvonne Smith

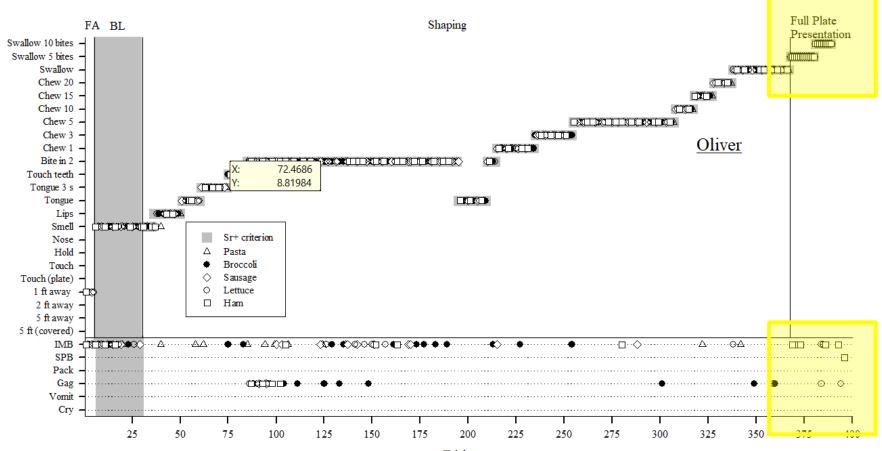














Thank you!

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Thank you!

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Initial Screening

Which clients to work with?

- Food selectivity vs. food refusal
- Receptive and expressive communication
 - Strong imitation skills needed, at minimum
- Special considerations for "client zero"

Logistics

- Who?
 - Whoever is comfortable/trained/knows the client well
 - Keep consistent, if possible
- Where?
 - Separate or different from typical environment
- When?
 - Not during snack/lunch/mealtimes
 - Space out from meals, less important in beginning
- How often will sessions be run?
 - Minimally ~3 hours per week

Safety

- Anyone running sessions
 - · CPR/First Aid Certified
 - Trainings available for identifying choking: (https://opwdd.ny.gov/providers/choking)
- Recruit professional advice from SLPs/OTs
 - Specializing in feeding/swallowing, if needed
- Do not practice on an island
- Allergy and medical history informed
- Ensure emotional safety
 - History with feeding interventions
 - History with certain foods

Beyond bite shaping

- 1. Meal-building
- 2. Generalization to mealtimes
- 3. Generalization to caregivers and the home
- 4. Assess need to repeat treatment with new foods