Innovations in Parent and Staff Training

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Presentation Overview

- · Importance of behavioral training
- Issues related to behavioral staff and parent training
- Types of skills that need to be taught
- Procedures that have been used
 - Behavioral skills training and video modeling
- Literature review on those procedures
- Current research
- Clinical and research recommendations



What is Training?

Teaching a person a particular skill or set of behaviors

- Verbal
 - Lectures
 - Discussions
 - Books
- Performance
 - Modeling
 - Practice
 - Feedback



I 🕪 Feedback

Reid & Fitch, 2011

Who Needs Training?

- 210 days (in school) x 6 hours/day = 1260 hours with staff
- 155 days (at home) x 24 hours/day + 18 hours/day x 210 days = 7500 hours with parents
- A lot of time for learning in both environments
- Imperative that we train both staff and parents



Why do Behavioral Training?

- Evidence-based
 - Research support
- Combines verbal and performance training
 - Didactic and behavior
- Ensures competency
 - Meet some sort of criterion, procedural integrity
- Should include continued supervision
 - Although we might slip up here



Why is Training often Neglected?

- Lack of knowledge regarding evidence-based training procedures (Reid, Parsons, Lattimore, Towery, & Reade, 2005)
- Training can be time consuming and effortful (Phillips, 1998)
- Need additional research that targets these issues



Challenges Related to Training Staff

• Difficult job that requires a specific skill set





Challenges Related to Training Staff

Hire only those who have this skill set?





Challenges Related to Training Staff

What are we to do?



What can we do?

- ID most difficult skills and focus on teaching those
 - Communicating effectively
 - Incidental or naturalistic teaching
 - Clinical decision making
 - Evaluate claims about interventions
 - Generalization of skills
 - Training others



What can we do?

- Train other important skills too
 - Preference assessments
 - Functional behavior assessments
 - Discrete trial teaching (DTT)
 - Activity schedules
 - Reinforcement procedures
 - Guided compliance



What can we do?

- Train effectively
 - Focus on procedural integrity
- Use evidence-based practices to train
 - Behavior skills training
 - Video modeling
- Evaluate social validity
 - Ask staff what they think, will staff use what they've learned?
- Assess maintenance
 - Will staff continue to do it?



Behavior Skills Training (BST)

- Instructions
- Modeling
- Rehearsal
- Feedback

(Miltenberger, 2004; Reid & Parsons, 2006)



Behavior Skills Training (BST)

- Instructions
- Modeling
- Rehearsal
- Feedback



Verbal

Parsons & Reid, 2012



Behavior Skills Training (BST)

- Instructions
- Modeling
- Rehearsal Performance
- Feedback

Parsons & Reid, 2012



Benefits of BST

- Provides learners an opportunity to:
 - Observe & practice the desired behavior
 - Receive feedback
- Provides trainers an opportunity to ensure that learners are able to perform the new skill
- Group BST: (Bishop & Kenzer, 2012; Miltenberger, 2004; Parsons, Rollyson, & Reid, 2012)
 - More efficient
 - Learn from others during rehearsal and feedback
 - Generalization may be enhanced



Previous Research

- Successful in training staff a wide variety of skills across a variety of settings
 - Communicating effectively (e.g., Miltenberger & Fuqua, 1985)
 - Incidental or naturalistic teaching (e.g., Fetherston & Sturmey, 2014; Ryan, Hemmes, Sturmey, Jacobs, & Grommet)
 - Preference assessments (e.g., Lipschultz, Vladescu, Reeve, Reeve, & Dipsey, 2015; Weldy, Rapp, & Capocasa, 2014)
 - Functional behavior assessments (e.g., Lambert, Bloom, Kunnavatana, Collins, & Clay, 2013)
 - Discrete trial teaching (DTT) (e.g., Fetherston & Sturmey, 2014;
 Sarakoff & Sturmey, 2004; Severtson & Carr, 2012)
 - Activity schedules (e.g., Fetherston & Sturmey, 2014)

Can BST be used to Teach more Challenging Skills?

- Clinical decision making (data-based decisions)
- Evaluate claims about interventions
- Train other trainers
- Generalization



Can BST be used to Teach more Challenging Skills?

- · Clinical decision making
- Evaluate claims about interventions (e.g., Love, Carr, LeBlanc, & Kisamore, 2013)
- Train other trainers (e.g., Parsons, Rollyson, & Reid, 2012)
- Generalization (e.g., Cordier, Reeve, Reeve, Vladescu, & Sturmey, in preparation)



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Training Behavioral Research Methods to Staff in an Early and Intensive Behavioral Intervention Setting: A Program Description and Preliminary Evaluation

Jessa R. Love, James E. Carr, Linda A. LeBlanc, and April N. Kisamore

Western Michigan University

The Scientist-Practitioner Model

- Science and practice are inseparable
 - What advances one advances the other (Witmer, 1907/1996)
- 3 Roles: (Hayes, Barlow, & Nelson-Gray, 1999)
 - Consumer of research
 - Evaluator of interventions
 - Researcher



Single-case Methodology in ABA

- Effective clinicians:
 - Evaluate interventions on an on-going basis
 - Make data-based changes as needed
- Effective scientists:
 - Demonstrate experimental control over behavior change



Scientist-practitioners in EIBI

- A scientist-practitioner approach would be helpful:
 - Research should be directly applicable to clinical problems
 - Foster scientific thinking that is useful in developing and evaluating interventions even outside a specific research protocol



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Research in EIBI Settings

- Data-based decisions and intervention evaluations are critical
 - BACB code of ethical conduct
- Why might data-based decision-making and intervention evaluations be difficult in these settings?
 - Inadequate training for direct-care staff
 - Methods courses may not address research in clinical settings
 - Contingencies may not support research or contact with research

Purpose

- Evaluate a modified BST approach for training staff to design and implement single-case research protocols in an EIBI setting
 - Are participants able to learn the necessary skills?
 - Are participants able to apply those skills?
 - Are participants satisfied with the training and experience?
 CALDWELL UNIVERSITY.

Participants

- 24 Clinical supervisors & senior therapists
 - CS: caseload of clients, develop and supervise individual treatment plans
 - ST: assist CS, supervise instructor therapists who work directly with the clients
- Organization providing EIBI services
- · Ontario, Canada
- Demographic Questionnaire



	Mean (years)	Range (years)	
Age	29.5	25 - 39	
Duration of Experience	5.5	2.9-9.2	
	3	Number of Participants	Percentage of Sample
Sex	Male	2	8.3%
	Female	22	91.7%
Position	Senior Therapist	20	83.3%
	Clinical Supervisor	4	16.7%
Degree	High School Diploma	1	4.2%
	Bachelor's	18	75.0%
	Master's	5	20.8%
Discipline	Psychology	13	54.2%
5	Behavior Analysis	6	25.0%
	Linguistics	3	12.5%
	English	2	8.3%
	Behavior Science Tech.	2	8.3%
	Early Education	1	4.2%
	Applied Science	1	4.2%
	Special Education	1	4.2%
	Sociology	1	4.2%
Certification	None	19	82.6%
	BCBA	4	17.4%
Methods Course	No	6	25.0%
	Undergraduate	11	45.8%
	Graduate	5	20.8%
	Both (undergrad & grad)	2	8.3%
Performance			
Management Training	Yes	9	37.5%
	No	15	62.5%

Curriculum: 8 Modules

- 1. Measurement
- 2. IOA & Procedural Integrity
- 3. Data Sheets
- 4. Single-case Designs
- 5. Graphing
- 6. Research Ethics & Informed Consent
- 7. Protocol Implementation
- 8. Protocol Development



1. Measurement

- Reasons for & importance of measurement
- Operational definitions
- Event, trial, and momentary time sampling
- When to use, how to report data

2. IOA & Procedural Fidelity

- Assessing reliability of data why and how
- Measuring fidelity of IV
- Frequency of IOA and fidelity assessments
- Standard acceptable results



3. Data Sheets

- Creating user-friendly data sheets
- Necessary components
- Piloting data sheets
- Samples

4. Single-case Design

- Experimental control
- Reversal, multiple baseline, alternating treatments
- When & how to use each design



5. Graphing

- Step-by-step instructions
- Visual inspection
- Samples

6. Research Ethics & Informed Consent

- Confidentiality of data, risks to participants, falsification of data
- Developing consent documents & obtaining consent
- Sample informed consent documents
- Conducting research with clients



7. Protocol Implementation

- Instructions for running sessions
 - Scheduling
 - Planning IOA and fidelity assessments
 - Managing Data
- Practice running sessions

8. Protocol Development

- How to develop a protocol
- Develop a protocol & materials
 - Given a relevant research question



Structure of Training

- Pre-test
- Lectures (Instructions & Modeling)
- Supplementary reading when applicable
- Homework (Rehearsal & Feedback)
- Post-test



Evaluation of Training (Kirkpatrick, 1967)

- Learning, Behavior, Reactions, Results
- Learning
 - Principles, facts, and techniques learned
 - Acquisition of verbal information
 - Application evaluated elsewhere
 - Pre-test vs. Post-test scores
 - Content taken directly from lectures



Evaluation of Training (Kirkpatrick, 1967)

- · Learning: Inter-rater Agreement
 - -2^{nd} independent rater, with key
 - Agreement = both raters providing same score for a given question on a given test
 - Pre-tests:
 - 33% of tests (range 29-41%)
 - Average agreement: 95% (range 87-99%)
 - Post-tests:
 - 30% of tests (range 26-32%)
 - Average agreement: 95% (range 90-98%)



Evaluation of Training (Kirkpatrick, 1967)

- Behavior
 - Changes in participant behavior that result from training
 - Maintenance & application of information in nontraining environment
 - Homework assignments
 - Inter-rater agreement:
 - 32% of assignments (range 27-40%)
 - Average agreement: 94% (range 90-100%)

Evaluation of Training (Kirkpatrick, 1967)

Reaction

- Participants' subjective views of training
- Social validity questionnaire:
 - · Value of goals
 - Satisfaction with knowledge and skills acquired
 - Satisfaction with teaching procedures
 - · Rating of workload
 - · Evaluation of improvement in knowledge and skills
 - Most helpful training component
 - · Preferred teaching method
 - Recommendation for other staff

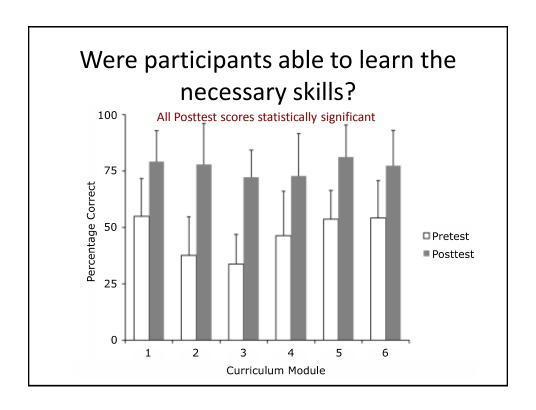


Evaluation of Training (Kirkpatrick, 1967)

Results: Follow-up Investigation

- Tangible results of training for the organization
- Comparing research activity of participants before and 1-year after training:
 - # of single-case design research projects
 - # presented at professional conferences
 - # published or submitted to peer-reviewed journal
- 2 of 24 (8%) reported being involved in research
- 1 of 24 (4%) reported a project presented at a conference





Were participants able to learn the necessary skills?

- In Kirkpatrick's framework, Learning refers only to acquisition of verbal knowledge
- Background knowledge makes it easier for an individual to take part in research
- Need not seek out reference materials to gather all information



Were participants able to learn the necessary skills?

Bachelor's (n=13) vs. Master's (n=5)

- 2 MANOVA tests
- Significant relationship between degree and performance on pre-tests: F(6,11)=5.02, p=0.01
- Participants with a Master's degree performed significantly better on Modules 1, 2, 4, 5, & 6
- No significant relationship on post-tests: F(6,11)=2.56, p=0.84
- Relatively small sample size



Were participants able to learn the necessary skills?

Bachelor's (n=13) vs. Master's (n=5)

- Participants with a Master's entered training with more background knowledge
- Training brought all performance to a similar level
 - Refresher for participants with previous graduate training
 - New teaching for those without previous graduate training



Were participants able to learn the necessary skills?

Present vs. Absent from Lecture

- Modules with several absent participants: 1, 2, & 5
- 2 sample t-tests
- No statistically significant differences in performance found (small sample size)
- Absent participants still accessed materials, could discuss with peers, ask questions



		Mean Score		
Module #	Assignment	n	(SD)	
1	Measuring behavior & reporting data	24	90.8 (9.9)	
2	Calculating & evaluating IOA	24	98.0 (2.8)	
3	Creating a data sheet	24	85.5 (11.3)	
4	Matching research questions with designs, formulating example questions for designs	22	84.5 (13.7)	
5	Creating several graphs	22	84.8 (14.5)	
6	Developing application materials for institutional review board	20	93.8 (4.7)	
7	Conduct several research sessions following a protocol	18	85.5 (3.0)	
8	Develop a protocol to answer a research question	18	93.6 (2.8)	

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Were participants able to apply the skills?

Bachelor's (n=13) vs. Master's (n=5)

- MANOVA test
- No significant relationship with performance on homework F(6,11)=2.196, p=.122
- Small sample size



Were participants able to apply the skills?

Present vs. Absent from Lecture

- 2 sample t-tests
- No statistically significant differences in performance found
- Absent participants still accessed materials, could discuss with peers, ask questions
- Small sample size



Were participants able to apply the skills?

- Variability across assignments
 - Variation in skills required to complete assignments & difficulty
- Variability between participants
 - Variability in prior experience with material



Were participants able to apply the skills?

- No pre-training measures of performance on homework
 - Infer that performance was a function of training
 - Some skills may have already been in participants' repertoires



Were participants satisfied with the training and experience?



Question		Response	# of Participants	Percentage
1	Value of goal	Highly	11	91.7%
		Somewhat	1	8.3%
2	Satisfaction with	Very satisfied	6	50%
	knowledge and skills	Somewhat satisfied	6	50%
3	Satisfaction with teaching	Very satisfied	5	41.7%
	procedures	Somewhat satisfied	6	50%
		Somewhat dissatisfied	1	8.3%
4	Rating of workload	Heavy	7	58.3%
		Reasonable	5	41.7%
5	Improvement in knowledge	A lot	7	58.3%
	and skills	Somewhat	5	41.7%
6	Helpful training	Lectures	5	41.7%
	component	Homework	6	50%
		Readings	1	8.3%
		Final projects	5	41.7%
7	Preferred teaching method	Lectures	6	50%
		Rehearsal	4	33.3%
		Feedback	4	33.3%
8	Recommendation for other staff	Definitely	12	100%

_		D	# of	
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	1.5	Readings	1	8.3%
		Final projects	5	41.7%
7	Preferred teaching method	Lectures	6	50%
	The state of the s	Rehearsal	4	33.3%
		Feedback	4	33.3%
В	Recommendation for other staff	Definitely	12	100%

Implications

- Modified BST-approach to staff training was effective in training therapists to design and implement singlecase research protocols
- Addresses the lack of this training for staff without formal graduate-level coursework
- Unreasonable to expect all EIBI therapists to acquire graduate training
- Potentially large impact on amount of research published from EIBI settings



Implications

- · Heterogeneous group of staff
- Organizational culture must be considered for external validity
 - Research highly valued
 - Supportive environment
 - Incentives for involvement in research
 - Many staff view opportunity as a reward



Implications

- Impact on clinical practice
- Relevant to data-based clinical practice outside context of research protocols
 - Operationally defining behavior
 - Creating data sheets
 - Graphing



Limitations

- Lengthy duration of training: attrition, motivation
- Atypical rehearsal: no direct observation of behavior, feedback based on products
- Labor intensive: development of materials, grading, feedback
 - No treatment integrity measures, but low-risk
 - Replications will require administrative support & resources



Future Research

- Follow-up investigation
- Video recorded lectures
- Revise curriculum and test in other ABA settings
 - Day programs for adults with DDs
- Evaluate training with more senior staff
 - Current model provided research question
 - Future model how to develop guestions



What is it about BST that Works?

Behavioral Interventions

Behav. Intervent. **27**: 75–92 (2012) Published online in Wiley Online Library (wileyonlinelibrary.com) **DOI**: 10.1002/bin.1339

COMPONENT ANALYSIS OF BEHAVIOR SKILLS TRAINING IN FUNCTIONAL ANALYSIS

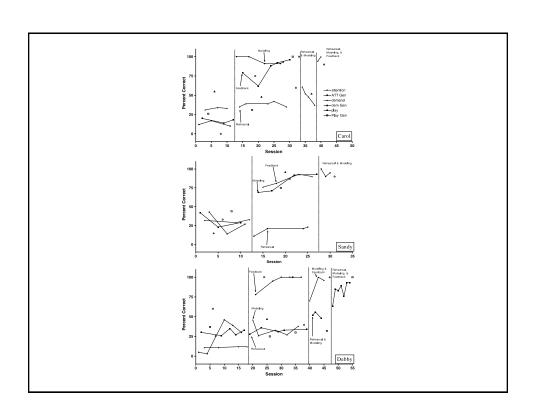
John Ward-Horner 1,2 and Peter Sturmey 1,2

¹The Graduate Center, CUNY, 365 Fifth Avenue, New York, NY 10016, USA ²Queens College, 65-30 Kassena Blvd, Flushing, New York, NY 11367, USA

Component Analysis

- Of individual components to determine which most effective or critical
 - Instructions
 - Modeling
 - Rehearsal
 - Feedback





Results

- Feedback most effective and critical component
 - Modeling also effective for some
 - 2 of 3 rated feedback as favorite
 - 1 rated modeling as favorite



Does it always work?

- Generalization of skills (Stokes & Baer, 1977)
 - Behavior occurs in novel settings, with novel people, and within skill sets
 - Across responses and skill sets (Fetherston & Sturmey, 2014)
 - Across and within instructional areas (Cordier, Reeve, Reeve, Vladescu, & Sturmey, manuscript in preparation)



Combining Behavior Skills Training and Generalization Strategies To Train Staff Across and Within Instructional Areas

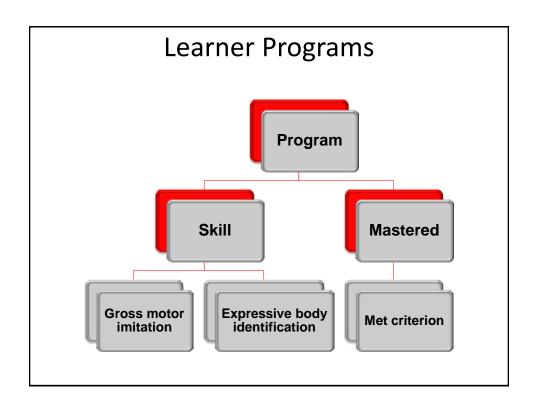
Jessica L. Cordier, Sharon A. Reeve, Kenneth F. Reeve, Jason C. Vladescu Caldwell University

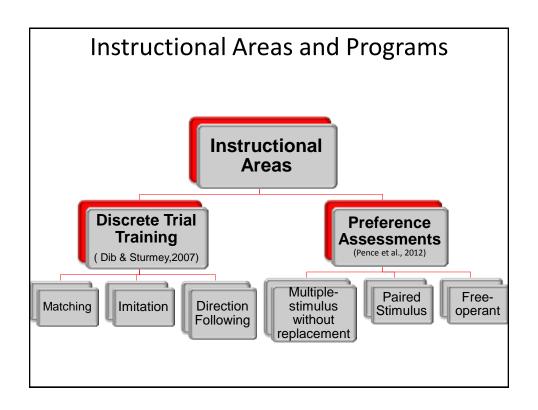
Peter Sturmey

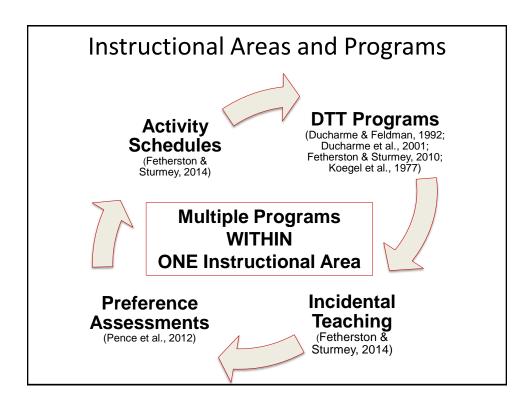
Queens College



Procedure	Research
Assessment	Gianoumis, Seiverling, & Sturmey, 2012; Iwata, Wallace, Kahng, Lindberg, Roscoe, Conner, Hanley, Thompson, & Worsdell, 2000; Lambert, Bloom, & Kunnavatana, 2013; Lavie & Sturmey, 2002; Moore, Edwards, Sterling-Turner, Riley, DuBard, & McGeorge, 2002; Pence, Peter, & Tetreault, 2012
Language	Gianoumis et al. 2012; Madzharova, Sturmey, & Jones, 2012; Nigro-Bruzzi & Sturmey, 2010; Rosales, Stone, & Rehfeldt, 2009; Ryan, Hemmes, Sturmey, Jacobs, & Grommet, 2008; Seiverling, Pantelides, Ruiz, & Sturmey, 2010; Wood, Luiselli, & Harchik; 2007
Discrete trial training	Dib & Sturmey, 2007; Fetherston & Sturmey 2014; Koegel, Russo, & Rincover, 1977; Sarokoff & Sturmey, 2004; Sarokoff & Sturmey, 2008
Activity Schedules	Fetherston & Sturmey, 2014







Instructional Areas and Programs

Multiple Programs ACROSS MULTIPLE Instructional Areas

DTT

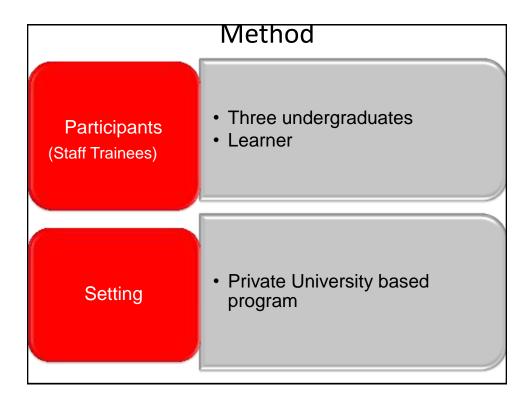
- Direction following
- Matching
- Imitation

Activity Schedules

- · Leisure skills
- Self-care
- Independence

Preference Assessments

- · Paired stimulus
 - Free operant
- Multiple stimulus



Instructional Area	Programs	Within- Instructional Area Probe	Across Instructional Area Probe
DTI	Identification of ColorsIdentification of Body partsOne-Step Directions	GMI	
Activity Schedule	Self-HelpIndependent ActivityBuild a model	Leisure	
Preference Assessment	•Multiple Stimulus Without Replacement•Single Stimulus•Free Operant		
Token Economy			Check Marks

Instructional Area	Programs	Within- Instructional Area Probe	Across Instructional Area Probe
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Dependent Measures

DTI Components

(Adapted from Dib & Sturmey, 2007; Fetherston & Sturmey, 2014; Sarokoff & Sturmey, 2004)

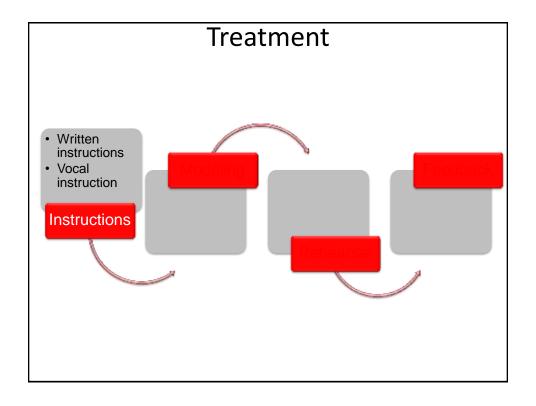
- Attending behavior
- · Present the task and verbal instruction
- Deliver a prompt
- Error correction
- · Praise statement and access to snack
- · Score data
- Wait 5 s
- · Score data
- Ignore off task behavior

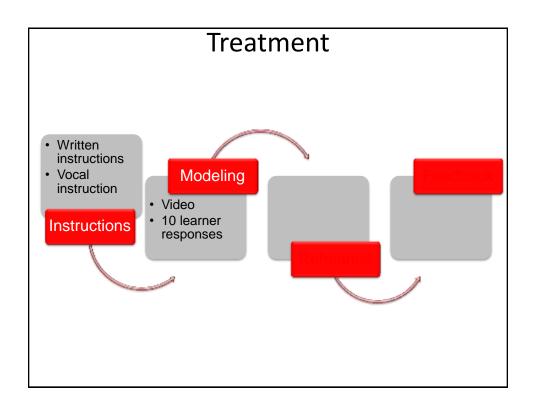
Experimental Design

- Multiple-baseline across instructional areas
 - DTI
 - Preference assessments
 - -AS
 - Token Economies



Baseline Vocal instruction only Baseline with written instructions Vocal instruction & written instructions





Learner Responses

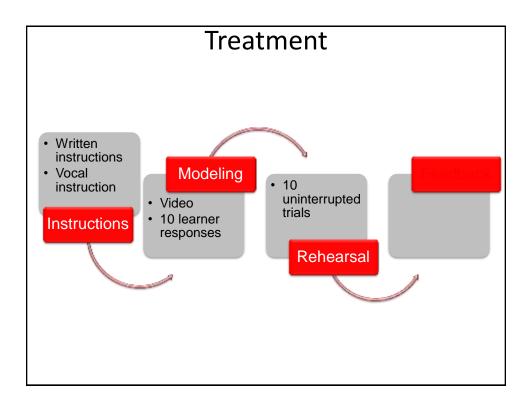
- A. Oriented in the absence of off task behavior
- B. Not oriented and engages in off task behavior
- C. Did not engage in the task when presented
- D. Incorrect response
- E. Requested or touched another item in the room unrelated to the task
- F. Tolerated the prompt or representation of the trial
- G. Resisted the prompt by attempting to leave the instructional area
- H. Independent correct response
- I. Independent correct response followed by an incorrect response
- J. Independent correct response followed by off task behavior

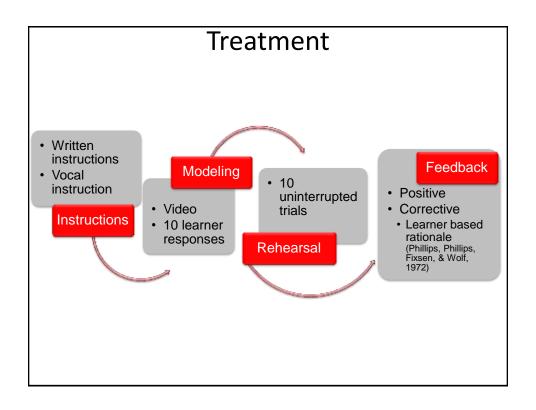
Learner Responses

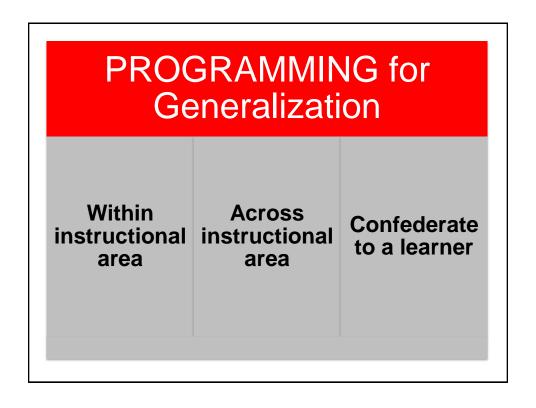
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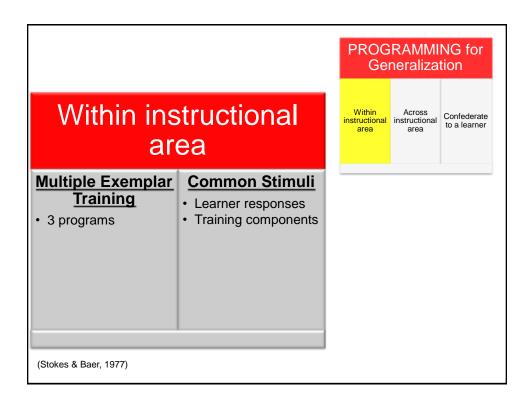
Learner Responses

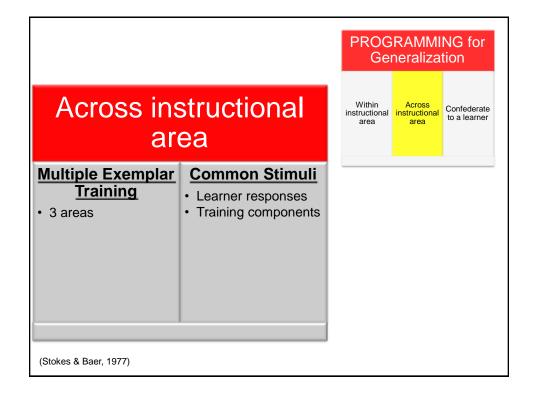
- A. Oriented in the absence of off task behavior
- B. Not oriented and engages in off task behavior
- C. Did not engage in the task when presented
- D. Incorrect response
- E. Requested or touched another item in the room unrelated to the task
- F. Tolerated the prompt or representation of the trial
- G. Resisted the prompt by attempting to leave the instructional area
- H. Independent correct response
- I. Independent correct response followed by an incorrect response
- J. Independent correct response followed by off task behavior





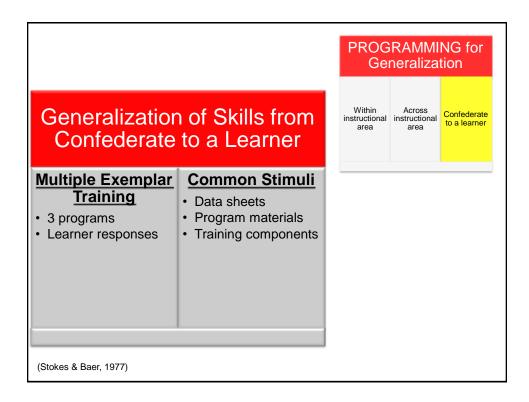


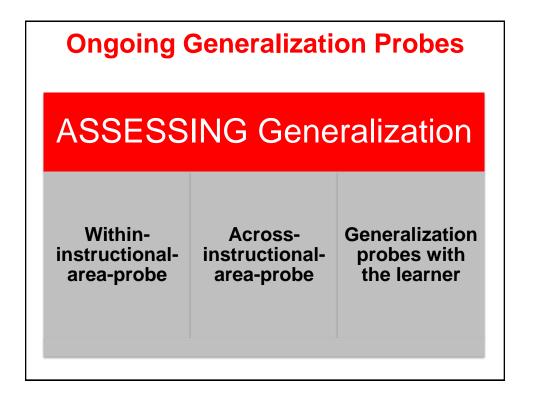




Components	DTI	Preference Assessment	Activity Schedule	Token Economy
Attending behavior	Х	Х	Х	Х
Present the task and instruction	Х	Х	Х	Х
Prompt	Х		X	
Error correction	X		X	
Praise	X	X	X	X
Wait 5s	X			
Ignore off task behavior	Х	Х	Х	Х
Block attempts		X		
Access to item	X	X	X	X
No selection		X		
Remove unselected items		Х		
Rotate items		X		
Reset				X
Prompt to remove picture				Х
Score data	X	X	X	X

Components	DTI	Preference Assessment	Activity Schedule	Token Economy
Attending behavior	X	X	X	X
Present the task and instruction	X	X	X	
Prompt	X		X	
Error correction	X		X	
Praise	X	X	X	X
Wait 5s	X			
Ignore off task behavior	X	X	X	X
Block attempts		X		
Access to item	X	X	X	X
No selection		X		
Remove unselected items		X		
Rotate items		X		
Reset				X
Prompt to remove picture				Х
Score data	X	X	X	X





Ongoing Generalization Probes

Within Instructional Area

- Baseline conditions (i.e., without written instructions)
- Every three sessions
- Novel program with confederate



Ongoing Generalization Probes

Across Instructional Area

- Baseline with written instructions
- Every fourth session
- Novel instructional area with confederate



Ongoing Generalization Probes

Generalization Probes with a Learner

- After training probes
- Baseline conditions (i.e., without written instructions)



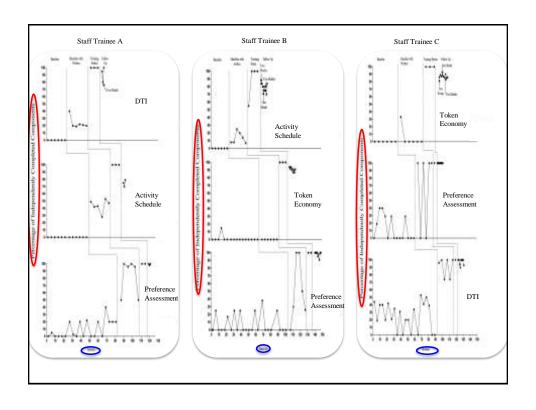
Data Collection and Analysis

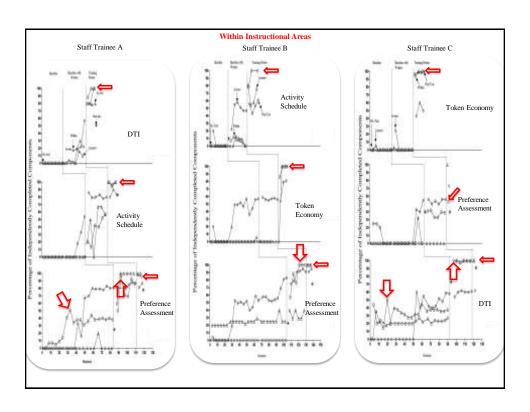
Inter-observer agreement

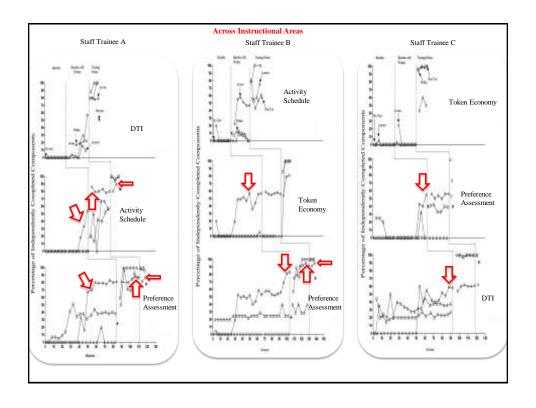
Staff Trainee	Baseline	Baseline with written instructions	Training
Α	100%	99.8% 🛑	100%
В	100%	99.9%	100%
С	100% 🛑	100%	100%

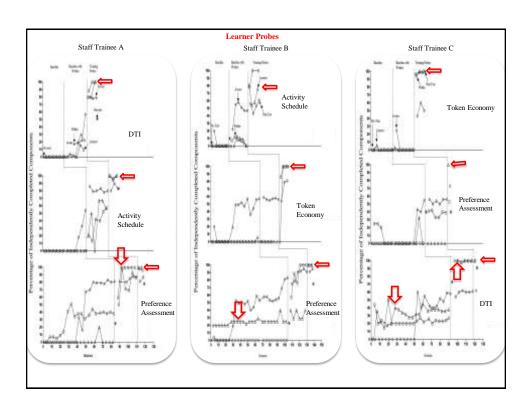
Procedural Integrity

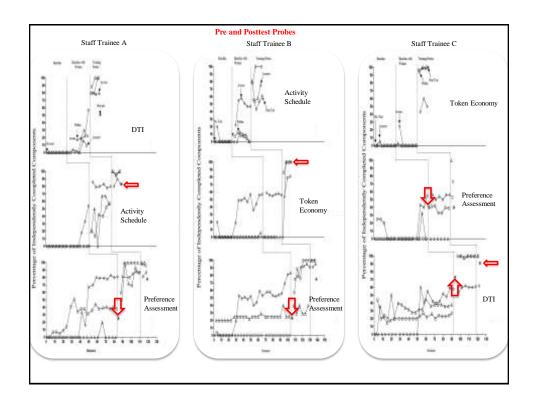
Staff Trainee	Baseline	Baseline with written instructions	Training
A	99.8% 100%	99%, 100%	100% 100%
В	100% 100%	98.7%, 100%	100% 100%
С	100% 100%	99.7%, 100%	100% 100%

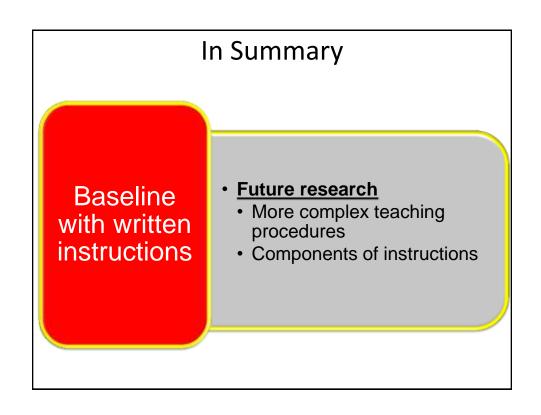




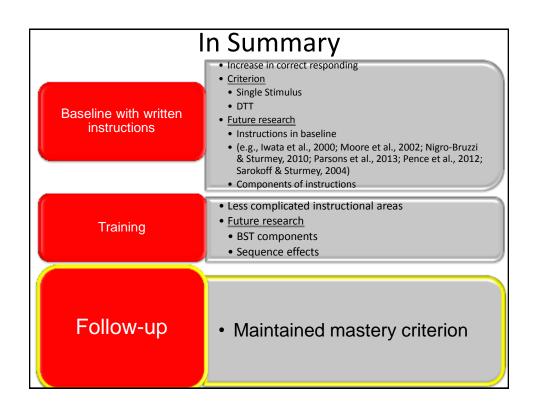








Baseline with written instructions • Future research • More complex teaching procedures • Components of instructions • Less complicated instructional areas • Future research • BST components • Sequence effects



Generalization

Within instructional areas

- Written instructions alone
- Future research
 - Generalization strategies

Generalization

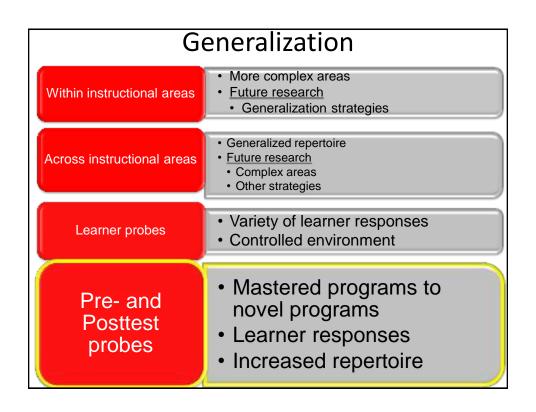
Within instructional areas

- · Written instructions alone
- Future research
 - · Generalization strategies

Across instructional areas

- Generalized repertoire
- Future research
 - Complex areas
 - Other strategies

Generalization Written instructions alone Within instructional areas Future research Generalization strategies · Generalized repertoire Across instructional Future research areas · Complex areas · Other strategies Variety of learner Learner responses probes Controlled environment



Limitations of BST

- Trained supervisor
- Travel to trained supervisor
- Time consuming?



Video Modeling (VM)

- Might address some limitations of BST
- Show a video model of behavior such that it can be imitated in appropriate contexts (Catania et al., 2009)
 - Might limit need for trained professional
 - Convenience
 - Less costly
 - Less time consuming?
- Addition of voiceover instruction likely makes important components more salient
 - Parent training (e.g., Webster-Stratton, 1990)
 - Staff training (e.g., Catania et al., 2007; Lipschultz et al., 2015; Vladescu et al., 2012)

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What Can VM be used for?

- Still scratching the surface of VM benefits
- Teach staff a variety of skills
 - Direct teaching procedures (Giannakakos, Vladescu, Kisamore, & Reeve, 2015)
 - Preference assessments (Lipschultz, Vladescu, Reeve, Reeve, & Dipsey, 2015)
 - Focus on generalization, maintenance, and social validity



Relay Australia Partice DCI 10.1000/w0617-015-0007-6



EMPIRICAL REPORT

Using Video Modeling with Voiceover Instruction Plus Feedback to Train Staff to Implement Direct Teaching Procedures

Antonia R. Giennekakoe¹ aJeson C. Vladescu ¹ aApril N. Kisemore¹ aSharon A. Reeve¹

- Direct teaching procedures
 - Most-to-Least, Least-to-Most, Prompt delay
- Utility of prompting procedures (Demchak, 1990)
- Staff preference (McDonnell & Ferguson, 1989)



Video Modeling with Voiceover Instruction (VMVO)

 Demonstrates for the viewer behavior she is expected to engage in



Catania et al. (2009) Lipschultz et al. (2015) Neef et al. (1991) Macurick et al. (2008) Moore et al. (2007) Rosales et al. (2015) Vladescu et al. (2012) Weldy et al. (2014)

Performance Feedback

- Increase staff treatment integrity (e.g.,Casey & McWilliam, 2011; Ward-Horner & Sturmey, 2012)
- Decrease in trainer presence and training duration (DiGennero-Reed & Henley, 2015)



Purposes

- Evaluate VMVO as a prelude to in vivo training
- Evaluate generalized responding
 - Untrained direct teaching procedures
 - Actual consumer



Participants & Setting

- Three female graduate students (staff trainees)
- Actual consumer with autism spectrum disorder (ASD)
- Simulated consumer



Design and Dependent Variable

- Multiple baseline across participants (Baer, Wolf, & Risley, 1968)
- Percentage of correctly completed steps



Direct Teaching Procedures

- Trained Procedures
 - Most-to-Least (MTL)
- Untrained Procedures
 - Least-to-Most (LTM)
 - Prompt Delay (PD)



Steps	MTL	LTM	PD
Fill out the data sheet	Х	Х	Х
Establish attending	Х	Х	Х
Present clear instruction	Х	Х	Х
Present correct prompt -Physical, model, verbal	Х		
Present correct prompt -Verbal, model, physical		Х	
Provide immediate prompt (0 s)			Х
Wait 5 s for response	Х	Х	Х
Increase/ decrease intrusiveness of prompts	Х	Х	Х
Immediate reinforcement for correct response	Х	Х	Х
Manage errors and inappropriate behaviors	Х	Х	Х
Record data	Х	Х	Х
Calculate data	Х	Х	Х

Simulated Consumer Skill Programs

Leisure

(Playing with blocks, completing a puzzle)

Self-help

(Zipping a jacket, buttoning a shirt)

Educational

(Receptive ID of body parts, following one step directions)

Actual Consumer Skill Programs

Stuffing envelopes

Folding towels

Simulated Consumer Scripts

Trial		Simulated Consumer
1	•	Provide eye contact
	•	Correct response (prompted)
2	•	Do not provide eye contact
	•	Correct response (prompted)
3	•	Provide eye contact
	•	Incorrect response
4	•	Provide eye contact
	•	No response
5	•	Provide eye contact
	•	Correct response (prompted)
6	•	Provide eye contact
	•	Correct response (prompted)
7	•	Provide eye contact
	•	Stereotypy
8	•	Provide eye contact
	•	Correct response
9	•	Provide eye contact
	•	Problem behavior
10	•	Provide eye contact
	•	No response

General Procedure

- Provide materials
- 10 minutes to review
- Provide instruction
- Sessions consisted of up to 10 trials



Procedure

Baseline

VMVO plus Feedback

Generalization

Feedback

Video Feedback

- No video
- No feedback



Procedure

Baseline

VMVO plus Feedback

Generalization

Feedback

Video Feedback

- First session
 - Viewed video
 - No feedback
- 26 min 47 s
- MTL procedure
- Voiceover instruction



Procedure

Baseline

VMVO plus Feedback

Generalization

Feedback

Video Feedback

- Subsequent sessions
 - Feedback only



Procedure

Baseline

VMVO plus Feedback

Generalization

Feedback

Video Feedback

- Untrained direct teaching procedures
 - Least-to-Most
 - Prompt Delay
- Actual consumer
- No video or feedback



Procedure

Baseline

No video

VMVO plus Feedback

Generalization

· Feedback provided

Feedback

Video Feedback



Procedure

Baseline

No video

VMVO plus Feedback

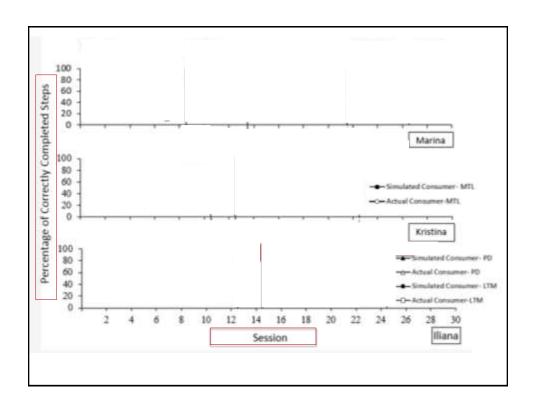
Generalization

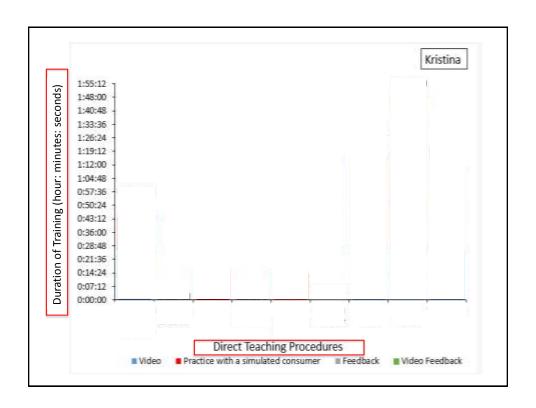
Feedback

Video Feedback

- Video of previous session
 - Feedback provided simultaneously







Conclusions

- VMVO plus feedback was effective
 - Generalization to untrained procedures
 - Generalization to an actual consumer



Conclusions

- VMVO as prelude to in vivo training
 - Feedback as needed
 - Reduced training times



J Dev Phys Disabil DOI 10.1007/s10882-015-9434-4

ORIGINAL ARTICLE

Using Video Modeling with Voiceover Instruction to Train Staff to Conduct Stimulus Preference Assessments

Joshua L. Lipschultz¹ & Jason C. Vladescu¹ & Kenneth F. Reeve¹ & Sharon A. Reeve¹ & Casey R. Dipsey¹

Assessing Preferences of Individuals With Developmental Disabilities: A Survey of Current Practices

Richard B. Graff, New England Center for Children Amanda M. Karsten, Western New England University

Preference Assessment Type	Percentage
Paired-Stimulus	70
Multiple-Stimulus with Replacement	34
Free Operant	34
Single-Stimulus	27
Multiple-Stimulus without Replacement	20

Implementing Assessments

- 1. Choose SPA
- 2. Identify stimuli
- 3. Implement assessment
- 4. Score/interpret results



Video Modeling

Might not require trainer



		Components Taught			
Deference	Assessment	Select	Identify	Implement SPA/	Score/interpr
Reference	Trained	SPA	Stimuli	collect data	et results
Rosales et al. (2015)	PS, MSWO, FO	No	No	Yes	Yes
Weldy et al. (2014)	Brief MSWO, Brief FO	No	No	Yes	Yes

	Preference assessment			
Step	Single stimulus	Paired Stimulus	MSWC	
Choose appropriate SPA to conduct	X	X	X	
Identify correct items to use in SPA	X	X	X	
Present correct items	X	X	X	
Present items appropriate distance from consumer	X	X	X	
Present items in correct location		X	X	
Present items spaced evenly apart and/or equidistant from consumer		X	X	
Deliver instruction		X	X	
Block attempts to approach more than one item		X	X	
Allow 10 s to approach item	X	X	X	
Provide access to approached item	X	X	X	
Allow time to manipulate or consume item	X	X	X	
If no item is approached within 10 s, re-present item(s)	X	X	X	
Remove items that were not approached		X	X	
Record response	X	X	X	
Rotate items before presenting next trial			X	
Ignore problem behavior	X	X	X	
Correctly calculate percentage of approaches	X	X	X	
Rank items correctly	X	X	X	
Identify item to use during teaching	X	X	X	

Purposes

- Train staff to conduct three types of preference assessments (SS, PS, MSWO) using a single video
- Train staff in the four identified components discussed earlier
- Generalization/Follow-up and Content and Social Validity



Staff trainees, Instructors, & Consumers

Staff Trainees		4 individuals Limited experience	
Instructors	Simulated	5 staff members	Baseline, Video Modeling, Follow-up, Generalization sessions
	Actual	Actual consumers' teachers	Generalization sessions
Consumers	Simulated	Experimenter	Baseline, Video Modeling, Follow-up, Generalization sessions
	Actual	1 male with autism	Generalization sessions

Single-stimulus			
Response			
Hands on desk/ Typical response			
Typical response			
No response/ No response			
Typical Response/ Stereotypy			

MSWO			
Trial	Response		
	Consecutive selection/ Typical		
1	response		
	Typical Response w/ Problem		
2	behavior		
3	Hands on desk/ Typical response		
4	No response/ no response		

Paired-stimulus			
Trial	Response		
1	Consecutive selection/ Typical response		
2	Typical response		
3	Hands on desk/ Simultaneous selection/ simultaneous selection		
4	Typical response		
5	Typical response		
6	Hands on desk/ No response/Typical response		

Design and Measurement

- Multiple baseline across staff trainees
- Dependent variable
 - Percentage of correctly implemented steps
- Two consecutive sessions above 90%



Baseline

- Materials to conduct session
- •Choose SPAs to conduct with hypothetical consumers
- •Instructed to implement each of the preference assessments with a simulated consumer
- •No feedback



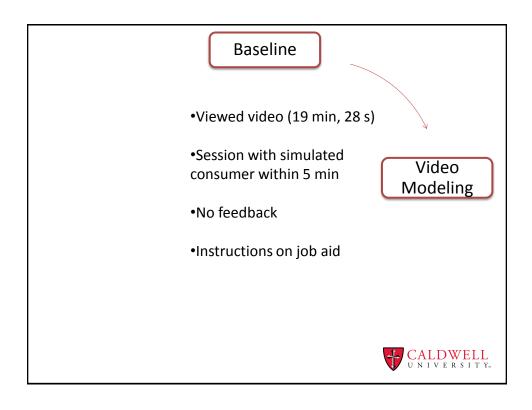
Baseline

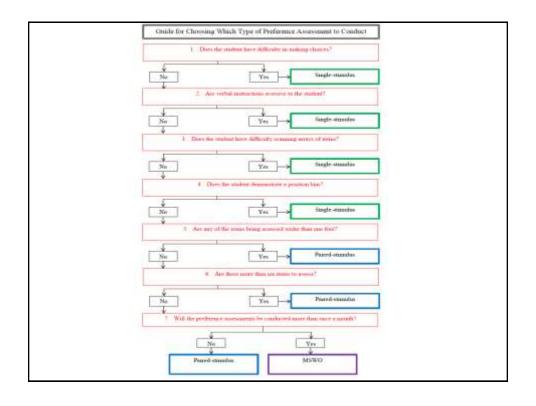
- Three BCBAs were surveyed
- Rated the video to have all the steps necessary to implement the three SPAs

Video Modeling Content Validity

Additional information



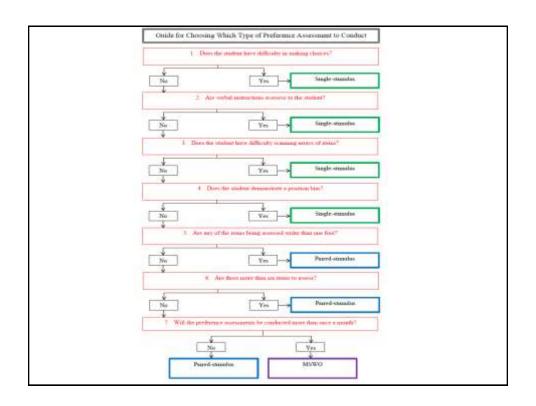




Sample Description

Gale is a 14-year-old female diagnosed with autism. She has been in an ABA program since she was 3 years old, so she has lots of experience learning in a discrete-trial training format. Throughout her schooling, she has never showed signs of a positional bias, nor has she had issues scanning and picking items out of an array. She is very good at staying in her seat, but she sometimes has tantrums that disrupt the classroom. **She** does not seem to have difficulty making choices during school. She frequently screams during tantrums that she does not want to work anymore, and she wants to go home. Her teachers don't believe that instructions are aversive to her. Her teachers are concerned that she has no motivation to work in school, and they feel like they can never figure out what she wants to work for during class. All of her toys that she plays with are less than 1 foot wide, and her teachers want to assess her preference for five toys. Her teachers want to conduct preference assessments with her about twice a month so she remains interested in working during school.

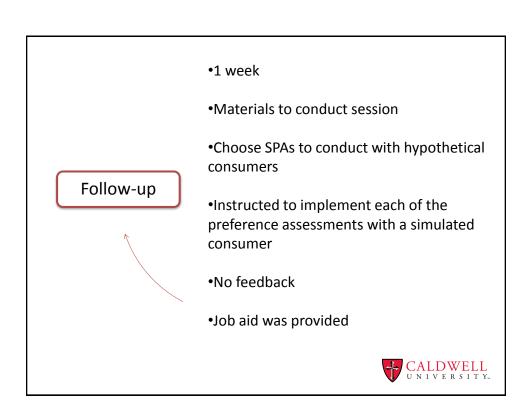


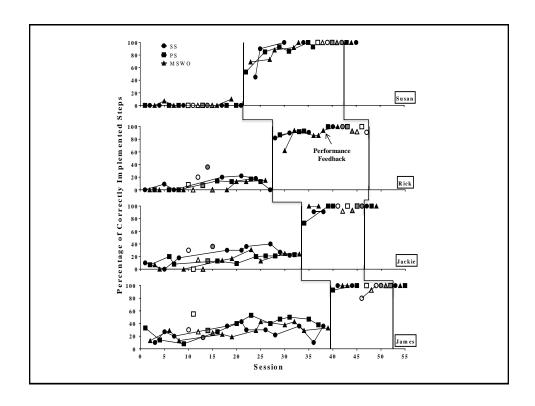


Actual and simulated consumers
Materials to conduct session
Choose SPAs to conduct with hypothetical consumers
Instructed to implement each of the preference assessments with a simulated consumer
No feedback
Job aid was provided

Generalization

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Social Validity (Outcome)

- Graduate students watched pre- and post-treatment video clips
- Post-treatment clips rated as more competent



Items	P1	P2	P3	М
How clear is your understanding of the procedure?	6	6	6	6
How acceptable do you find the training you received?	6	5	7	6
How willing are you to implement the training you received?	7	7	6	6.7
To what extent do you think there might be disadvantages in following this treatment?	2	4	2	2.7
How cost effective do you think it will be to implement this strategy to train staff?		7	6	6.7
How easy do you think it will be to implement the suggested training?	4	5	7	5.3
How likely is this training to make a permanent change in your behavior?	6	3	6	5
How much do you like the training you received?	5	4	6	5
How comfortable were you during the training?		4	6	4.7
How effective do you believe this training will be to train staff to implement stimulus preference assessments?	6	3	6	5

- Except for one session with Rick, performance feedback was not necessary
 - Trainer was not required while staff watched the training video
- Staff trainees were trained to implement the four components seemingly necessary to independently implement SPAs



 Training to implement three different types of SPAs using a single video



Conclusions

Staff trainees demonstrated generalized responding



- Extend previous research
 - Follow up
 - Content validity
 - Social validity



Conclusions

- Extend previous research
 - Follow up
 - Content validity
 - Social validity



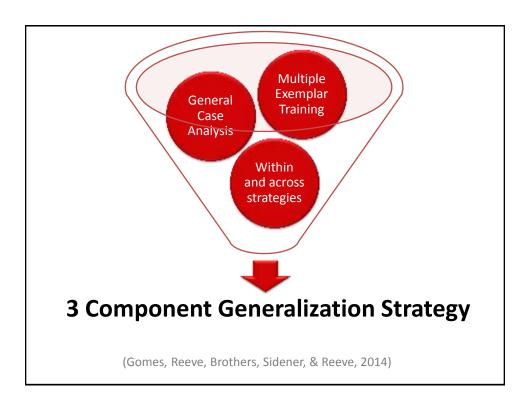
- Train staff to identify relevant characteristics of hypothetical consumers
- Select SPA based on those characteristics



Clinical Recommendations for Staff Training

- Consider how you are going to program for and assess generalization
 - Across time (i.e. response maintenance)
 - Across settings (i.e. setting/situation generalization)
 - Across behaviors (i.e. response generalization)
 - Across subjects
 - Use a three component generalization strategy





Clinical Recommendations for Staff Training

- Program for maintenance
 - Thin the schedule of reinforcement
 - Teach meaningful skills
- Consider social validity
 - Train meaningful skills
 - Train in interesting ways
 - Train both verbal and performance skills
 - Think about staff needs and motivating operations



Research Recommendations for Staff Training

- Social validity
 - What are the barriers to implementation?
 - What do staff prefer during training?
- More research on complex skills
 - Communication, data-based decision-making
- Maintenance
 - Do the results hold up over time?



Why train parents?

- Spend a large amount of time with their children
- Manage current and future problem behavior
- Teach new skills to their children
- Family priorities increase social validity and implementation of intervention (Moes & Frea, 2002)
- Evaluate claims about interventions
- Advocate/communicate effectively for their children

Benefits of Parent Training

- •Family norms + priorities
- Parent nominated tasks
- Savings of time & money
- Decrease in family stress (travel, scheduling)
- •Parents' increased quality of life

Increased social validity

(Symon & Boettcher, 2008; Tarbox, Persicke, & Kenzer, 2013; National Research Council, 2001)

Challenges Related to Parent Training

Do children come with a handbook?



Challenges Related to Parent Training

Is each child the same?



Challenges Related to Parent Training

- Unique problems make it difficult to follow through or perform with high integrity
- Parents are people too!
 - Must consider role of covert verbal behavior and rules
 - Live up to society's expectations
 - Negative reinforcement cycle (Carr, Taylor, & Robinson, 1991;Berberich, 1971;Stocco & Thompson, 2015)
 - Negative self-talk



Problems Associated with Parent Implementation of Interventions

(Allen & Warzak, 2000)

- Establishing operations (EOs)
- Acquisition
- Generalization
- Consequent events



Acquisition Challenges

- One procedure might work for one parent but not another
- Unclear which components of training are essential
- Training takes too long
- Training is not meaningful to the parent



Addressing Acquisition Challenges

- Do verbal and performance training
- Conduct component analyses
- Make training brief
 - Gather data on training time
- Evaluate social validity of the procedures



EO Challenges

- Restricted resources (e.g., time, finances, assistance)
 - Need fast procedures that result in fast improvement
 - Needs to be easily available and inexpensive
 - Needs social support
- Social disapproval
 - Training and subsequent procedures might not be socially valid



Addressing EO Challenges

- Use cost effective training that can be done in a short period of time
- Make sure training procedures are socially valid



Generalization Challenges

- Failure to transfer control from training environment to home
- Weak rule following repertoires



Addressing Generalization Challenges

- Program for generalization!
 - General-case analysis (Sprague & Horner, 1984; Reeve, Reeve, Townsend, & Poulson, 2007)
 - Multiple exemplars (Stokes & Baer, 1977)
 - Common stimuli (Stokes & Baer, 1977)
 - Within and across strategies (Gomes, Reeve, Brothers, Sidener, & Reeve, 2014)
 - Focus on teaching effective rules in terms parents can understand

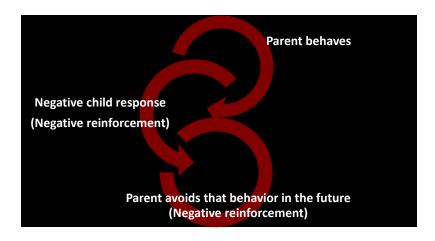


Consequent Challenges

- Competing contingencies
 - Other responsibilities
 - Other more potent reinforcers
 - Response effort
- Negative reinforcement cycle



Negative Reinforcement Cycle



(Carr, Taylor, & Robinson, 1991; Berberich, 1971; Stocco & Thompson, 2015)

Addressing Consequent Challenges

- Use cost effective training that can be done in a short period of time
- Help parents contact other reinforcers
 - Support groups
 - Set up reinforcing contingencies



How Do We Train Parents?

- Identify skills that need to be taught
- Identify barriers specific to parents
- Use evidence-based interventions
 - BST
 - -VM



BST and Parent Training

- DTT (Charlop-Christy & Carpenter, 2000)
- Incidental teaching (Charlop-Christy & Carpenter, 2000; Hsieh, Wilder, & Abellon, 2011)
- Guided compliance (Miles & Wilder, 2009; Tarbox, Wallace, Penrod, & Tarbox, 2007)
- Natural language paradigm (Laski, Charlop, & Schreibman, 1988)
- Vocal play initiations (Reagon & Higbee, 2009)



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EFFECTS OF BEHAVIORAL SKILLS TRAINING ON PARENTAL TREATMENT OF CHILDREN'S FOOD SELECTIVITY

Laura Seiverling

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KEITH WILLIAMS

PENNSYLVANIA STATE UNIVERSITY, HERSHEY MEDICAL CENTER

Peter Sturmey

THE GRADUATE CENTER AND QUEENS COLLEGE,
CITY UNIVERSITY OF NEW YORK

AND

Sadie Hart

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BST for Parent Training of Food Selectivity Intervention

- Parents of 3 children with ASD and food selectivity
- Home-based intervention
 - Taste exposure, escape extinction, and fading
- Maintenance assessed via parent report
- Lack programming and assessment of generalization



			Table 1	D 6 1		
		Average Percenta	ge of Correct Sto	eps Performed		
	Baseline TS	Posttraining TS	Follow-up TS	Baseline PM	Posttraining PM	Follow-up PM
Tommy's mom	40	95	91	85	94	89
Lance's mom	44	98	86	86	92	90
Noah's mom	29	99	94	70	97	94
Note. TS = tas	te sessions; PM	= probe meals.				
		BS	SL Posttraining	Follow-up		
			₹*			
		80. Disrup	ntion .			
		∯ ®-				
		Bites	V X-1	•		
		5 20-Accepta	nces	\	Tommy	
		sions	•	 		
		P. Ses				
		30 s al	•	•		
		nder 3		•		
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		es Beha				
		ed Bit	. \		Lance	
		Disru			1	
		₹ 5 50				
		Proportion of Accepted Bleas Esten under 30 a and Proportion of Bleas with graph of the State St		,		
		Prop				
		20-	/>~	~~~		
		20-	/		Noah	
		0 1	2 3 4 5 6 7 8	9 10 11 1 wk 2 wk 3 wk 4	Twick	
			Consecutive Tr	eatment Days		

Video Modeling and Parent Training

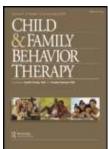
- Compliance (Webster-Stratton (1990, 2000, 2001)
- Skill acquisition (Koegel, Glahn, & Nieminen, 1978)
- Maternal play, assistance, and provision of consequences (Phaneuf & McIntyre, 2007)



The Effects of Video Modeling with Voiceover Instruction and On-Screen Text on Parent Implementation of Guided Compliance

Heidi J. Spiegel, April N. Kisamore,
Jason C. Vladescu
Caldwell University

Amanda M. Karsten
Western New England University



Noncompliance

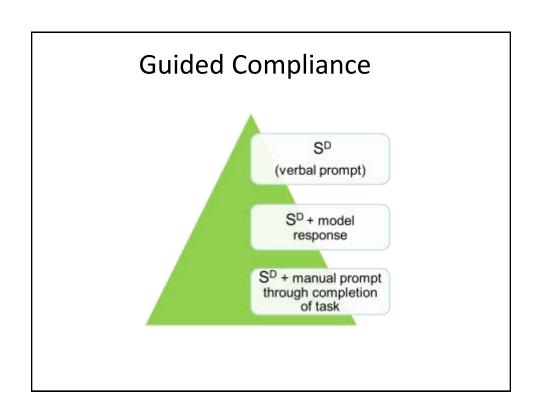
- Failure to initiate a task or complete a task; behave in accordance to a request, direction, or rule; or interact socially (McMahon & Forehand, 2003; Wilder, 2011)
- Interferes with skill acquisition (Luiselli, 2009)
- Affects caregiver interactions with child (Luiselli, 2009)



Noncompliance Research

- Noncontingent access to preferred items (Cote et al., 2005)
- Advance notice (Wilder et al., 2006)
- Rationales (Wilder et al., 2010)
- Decreased response effort (Fischetti et al., 2012)
- Hi-P instructional sequence (e.g., Belfiore et al., 2008; Mace et al., 1988; Smith & Lerman, 1999; Wilder et al., 2010)
- Guided compliance (e.g., Horner & Keilitz, 1975)
- Time out (Rortveldt & Miltenberger, 1994)





Teaching Guided Compliance

- Previous research evaluated behavioral skills training with caregivers (Miles & Wilder, 2009; Smith & Lerman, 1999)
 - Effective
 - Limited information about generalization of parent behavior to untrained tasks/locations
 - Requires trained professional



Purpose

- Evaluate video modeling with voiceover instruction (VMVO) on parent implementation of guided compliance procedures
- Teach parent-selected targets to enhance implementation and social validity
- Program for and assess generalization to children with autism and untrained tasks and locations



	Participant 1	Participant 2	Participant 3
Sex:	Male	Female	Female
Age:	43	47	40
Marital Status:	Married	Married	Married
Education:	MBA	MBA	MA Ed
Employment:	Full-time; outside	Full-time; at-home	Full-time; outside
	home		home
Income:	>\$105K/yr	>\$105K/yr	>\$105K/yr
Children:	8 y female - ASD;	9 y male - ASD, cystic	6 y female - ASD
	7 y male - ADHD,	fibrosis	
	dyslexia		

Method

- Setting
 - Participants' homes
 - Participant, their children, experimenter, and research assistant present

 - Experimenter served as a confederate during training
 Generalization sessions took place with their own children
- Dependent Variable
 - Percentage components implemented correctly
 - 90% = mastery
- Multiple baseline design
 - Across participants



Training Targets

- Identified via parent interview
- Multiple exemplars
 - 3 training locations
 - 5 tasks per location

Participant 3	Set 1: Bedroom and Kitchen	
Task 1	Put clothes in laundry basket	
Task 2	Throw in garbage	
Task 3	Put pillows on bed	
Task 4	Get a napkin	
Task 5	Close closet door	WELL rsity.

Materials

- Scripted responses
 - Confederate followed scripted responses to provide exposure to multiple types of responses
- Written instructions
 - 1-page description of guided compliance procedures
 - Written at 5th Grade reading level
- Guided compliance training video
 - 12 min 34 s in length
 - Video model with voiceover instruction (VMVO)
 - On-screen text
 - Multiple exemplars of responses to directions



Baseline

- Participants given a list of tasks
- No prompts or feedback provided

Please ask your child to perform the following tasks. Give directions and respond to your child as you normally would without a researcher present.

1. Get a clean shirt	6. Get a snack
2. Get a cup	7. Put laundry in the basket
3. Get a spoon	8. Put dishes in the sink
4. Put your pillows on the	9. Get a drink from the
bed	fridge
5. Put clean socks in the	10. Get your shoes
drawer	

Written Instructions

- · Given instructions
- Told to read instructions
- Given list of tasks and instructed to provide directions
- No prompts or feedback provided



VMVO

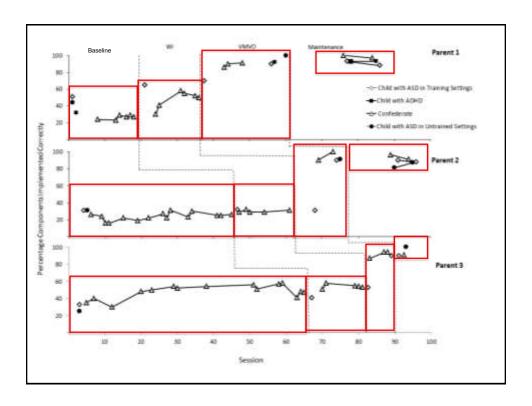
- Instructed to watch video at beginning of session
- Given list of tasks and instructed to provide directions
- No prompts or feedback given



Generalization

- · Programmed via training across a variety of
 - Settings
 - Tasks
 - Child responses
- Assessed
 - With child with autism during baseline, training, and maintenance
 - With a child with ADHD (for Participant 1)
 - In untrained locations and with untrained tasks
 - During maintenance at 1 and 2 months





Social Validity Results		
How do you feel about watching a video model to learn new skills?	M = 4.9 (range: 4-5)	
How do you feel about guided compliance to help your child follow directions?	M = 4.6 (range: 4-5)	
Overall, how would you rate the outcomes of your training?	M = 4.7 (range: 4-5)	

- VMVO is effective for teaching parents how to implement guided compliance procedures
- Implementation of the procedures generalized to untrained locations and tasks
- Participants rated the procedures highly
- Use of how-to videos is common
- Required up-front work on part of researcher, but easy implementation after



Clinical Recommendations for Parent Training

- Consider issues related to parent implementation and training
- Program for and assess generalization
- Program for and assess maintenance
- Evaluate social validity



Future Parent Training Research

- Train parents how to conduct research
 - Evaluate claims about interventions (Love et al., 2013)
- Secure appropriate medical and related services
 - Advocate with schools and other organizations
- Train to train other caregivers (Symon, 2005)





Innovations in Parent and Staff Training

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