

# Idiosyncratic Modifications to the Skill-based Treatment Process

Batoul Dekmak, Jerry Idicula, & Edward Sanabria

Introduction	Results	Discussion
<ul> <li>Idiosyncratic variables in modified functional analyses have helped lead to differentiated outcomes. (Schlichenmeyer et al., 2013).</li> <li>Clinical judgement and its role in decision making may improve clinicians' ability to make idiosyncratic modifications. (Gunver, 2010).</li> <li>Looking at idiosyncratic variables may be required in order to achieve positive outcomes in SBT.</li> <li>This study evaluates the effectiveness of the treatment modifications with two learner profiles high rates of interfering behavior, increased boundary seeking, and low skill acquisition.</li> <li>These case studies provide an extension of a previous study that evaluated the progress that can be made with skill-based treatment (SBT).</li> </ul>	Figure 1.         Idiosyncratic Modifications to the SBT process <ul> <li></li></ul>	<ul> <li>The use skill-based treatment, boundary setting, and enhancing qualities of reinforcement can lead to decreases in interfering behavior and boundary seeking and an increase in skill acquisition.</li> <li>Preliminary results help indicate that responding to boundaries in the framework of STEAM with modifications to its components (i.e. duration of allowing non-judgmental time) aided in decreases of behavior.</li> <li>For one participant 'boundary seeking' decreased through treatment as CAB branches progressed into CAB6.</li> <li>Increases in boundary setting correlate with increases in interfering behavior initially (e.g. extinction burst), but then lead to a decrease in</li> </ul>

## Methodology

#### **Participants:**

- Two male participants a 5-year-old and 16-year-old. Both participants have an ASD diagnosis and limited language, one of the participants has an additional diagnosis of Christianson Syndrome.
- The two clinicians participating in the study were two BCBA's who have been practicing as BCBA's since 2019. The BCBA's have experience implementing PFA's and SBT since 2018.

#### Setting:

 The study took place in an ABA clinic in the Southeast Michigan area that serves clients with ASD.

#### **Targeted Behaviors:**

• Communication response, contextually appropriate behaviors, interfering behaviors.

#### Procedure:

 Baseline: Presence of dangerous/high intensity behaviors.

#### **Skill-Based Treatment:**

- Reinforcement condition: A context in which a learner is provided with all suspected reinforcers and is observably happy, relaxed, and engaged.
- FCR: A communication response to replace interfering behaviors in the presence of EO's historically evoking IB.
- **TR:** Delivery of all suspected reinforcers in the absence of interfering behavior for tolerating a denial signal from the implementor.
- **CAB1:** Contextually appropriate behaviors related to relinquishing all reinforcers.
- CAB2: Transitions away from reinforcers to an area of learning.
- **CAB3:** Cooperate accurately to 1 to 4 easy

- Allow at least 10 seconds of nonjudgmental time after boundary is set.
- Implement teaching interaction procedure (Leaf et al., 2009).

(STEAM).

- Follow every boundary with 2 neutral/positive statements within 5 minutes of moving on phase.
- Firm boundary added for inappropriate requests for attention.
- Reflective practice with learner after a minimum of 10 minutes after moving on.
- prompting should be used, give more time to response
- Only have the relinquishing bucket come out when you are using it to relinquish items

Treatment drift: minimal physical

- Skipping over high five for TR and accepting absence of interfering behavior
- CAB 2D label the items so he scans
- Allowing him to opt in/out.
- BoundaryButton staying stationary.Only mouthing on chewy.

Note. Description of the adjustments required in each condition of treatment (a. Todd; b. Ryan).

#### Figure 2.

#### Interfering Behavior and Skill-based Treatment Graphs



- seeking with compassion supports the findings by Harb et al. (2023) and Algohaim et al. (2023).
- For both participants increases in interfering behavior and/or 'boundary seeking' correlate with plateaus in skill acquisition.

Boundaries and responding to boundary

Clinical judgement and modifications are a necessary skill for a clinician to possess to maintain progress in skill-based treatment and the reduction of interfering behaviors.

#### Limitations

- IOA data was not collected across either participants data.
- Treatment drift due to technician changes.
- Clinicians changed for both clients during treatment.
- Utilization inconsistencies in services for both clients.
- Modified variables are not indicated as phase change lines in graphs.

#### Future research

- Align data collection methods to track modifications and relate them directly to changes in the data using phase change lines.
- Log the different modifications required across additional clients and analyze common themes to inform future practice of SBT.

## Implications

- Idiosyncratic variables that need to be adjusted rely heavily on clinical judgment and the presence of a BCBA.
- Evaluating the ability for a clinician to use clinical judgment and make modifications to idiosyncratic

#### instructions within 1 or more activities.

- CAB4: Cooperate with increasing number of responses/units of time across activities.
- CAB5: Cooperate with a terminal number of instructions/units of time within 1 or more activities.
- CAB6: Completes terminal responses while being challenged.

**Boundaries:** a rule set to maintain safety for those a part of the treatment process. Setting boundaries can lead to increases in interfering behavior due to the withholding of reinforcers.

### variables may help predict outcomes of treatment in SBT.

- Evaluate the degree to which RBT's can be trained to utilize clinical judgment to enhance treatment based on modifications of idiosyncratic variables.
  Evaluate the extent to which implementing a 'Foundational Plan' leads to certain levels of progress in Skill-based Treatment.
- Fluency in SBT requires training in the modification of the process and problem-solving skills to make adjustments according to the needs of the client and the available resources.