

# Abstract

The purpose of this research was to use behavioral skills training and coaching to help new teachers engage in evidence based practice. Using these training and support procedures, the researcher guided three preservice teachers as they identified academic and behavioral classroom needs, consulted the research literature, selected empirically supported procedures, and adapted them to fit their classroom contexts. They were then supported in the implementation and progress monitoring of those procedures.

Two experiments utilized multiple baseline designs across skills to demonstrate functional relations between the professional development procedures and the teachers' implementation fidelity.

### **Research Goals**

The purpose of this study was to determine the effects of behavioral skills training (BST) and coaching on new special educators' implementation fidelity of empirically supported procedures (ESPs). Criteria for ESP included a minimum of three peer-reviewed sources of evidence (i.e., experimental research designs, meta-analyses, empirical literature reviews); one resource was required to demonstrate the ESP's effectiveness with a similar population, one resource had to evidence the ESP's efficacy in addressing a similar issue (e.g., science vocabulary, on-task behavior), and one resource must have shown the ESP's implementation in a similar setting (e.g., special education classroom, resource room). ESPs were academic or behavioral interventions, and preference was given to ESPs with more extensive literature support and empirical evidence and those with better contextual fit (i.e., considered acceptable and feasible by participants and mentor teachers, addressed relevant IEP goals and objectives). Two experiments were conducted using slightly different procedures with three preservice teachers. The first study took place during the autumn semester of 2013, and the second occurred during the spring semester of 2014.

# **Experiment 1**

# **Participants and Setting**

Katie was an undergraduate senior completing her final student teaching practicum in a special education program at a large Midwestern university. Katie's practicum placement was in a classroom for students with moderate to intensive disabilities at a public high school in an urban school district. ESPs were implemented with Katie's third period science class. In this class were six students, and four of the students did not have vocal verbal behavior. BST and coaching sessions were conducted before or after school, or on the weekends in an empty classroom or local coffee shop.

The first author served as the trainer and coach. She was a board certified behavior analyst (BCBA) currently enrolled in a doctoral program for special education with an emphasis on applied behavior analysis (ABA). She held master's degrees in special education and ABA and had eight years of

experience working with students with and without special needs. She had one year of experience supervising student teachers and five years of experience training parents and teachers.

# **Dependent Variables and Data Collection**

Data were collected, on average, three times weekly from 9:15–10:05 during third period science class. The dependent variable was the fidelity with which the teacher implemented the ESPs. Procedural fidelity was measured using task analyses of the ESPs and calculated as a percentage by dividing the number of steps implemented accurately by the number of steps that should have been implemented during the observation and multiplying by 100. A total of four ESPs were targeted.

The Beeper System. This momentary time sampling procedure was selected to increase on-task behavior. It involved public posting of student on-task behavior at 5-min intervals and was implemented with the whole class throughout the period. The teacher monitored progress by recording percentage of intervals on task for each student each day.

Constant time delay. This method of explicit instruction was used to teach vocabulary to the four nonverbal students. It was implemented at end of the period at a table in the back of the classroom. The teacher recorded each student's correctly and incorrectly identified vocabulary terms each day to use as progress monitoring data.

**Direct instruction lesson plan.** This lesson plan format was used to facilitate explicit instruction during science with 1-3 primary learning objectives, embedded teacher input statements, and questions for evoking active student responding. The lesson plan was written in advance and implemented with the whole class.

**Evoking active student responding (ASR).** This procedure for soliciting and responding to student responses involved a 5-step sequence: (a) teacher question, (b) wait time, (c) signal, (d) student response, and (e) affirmative or corrective feedback. It was used with the whole class during new content instruction. The teacher identified 1-3 primary learning objectives for each lesson and recorded the number of primary learning objectives mastered by each student each session, evidenced by correct individual ASR.

Table 1.

Empirically supported treatments used in Experiment 1 and their qualifying evidence.

|             | Similar Student Population       | Similar Student Outcome      | Similar Setting          |
|-------------|----------------------------------|------------------------------|--------------------------|
| Beeper      | Matson & Boisjoli, 2009 (lit     | Riley, McKevitt, Shriver, &  | Wolf, Giles, & Hall,     |
| System      | review supporting use with       | Allen, 2011 (increasing on-  | 1968 (special education  |
|             | students with ID and/or autism)  | task, decreasing off-task)   | classroom)               |
| Constant    | Hua, Woods-Groves,               | Hua et al., 2013 (expository | Hua et al., 2013 (small  |
| Time Delay  | Kaldenberg, & Scheidecker,       | vocabulary and reading       | group, 4 students);      |
|             | 2013 (young adults with ID);     | comprehension); Hughes &     | Schuster et al., 1988    |
|             | Walker, 2008 (students with      | Fredrick, 2006 (targeted     | (small group/one-on-     |
|             | autism); Schuster, Gast, Wolery, | vocabulary)                  | one)                     |
|             | & Guiltinan, 1988 (adolescents   |                              |                          |
|             | with MR)                         |                              |                          |
| Direct      | Knight, Spooner, Browder,        | Knight, Smith, Spooner, &    | Ledford, Lane, Elam, &   |
| instruction | Smith, & Wood, 2013              | Browder, 2012 (science       | Wolery, 2012 (small      |
| lesson plan | (secondary students with ASD     | vocab); Knight et al., 2013  | groups of 2-10           |
|             | and ID); Riggs, Collins,         | (science concepts)           | students); Riggs et al., |
|             | Kleinert, & Knight, 2013 (high   |                              | 2013 (high school self-  |
|             | school students with mod-        |                              | contained classroom)     |
|             | severe disabilities              |                              |                          |
| Evoking     | Berrong, Schuster, Morse, &      | Christle & Schuster, 2003    | Haydon, Marsicano, &     |
| ASR         | Collins, 2007 (students with     | (student participation,      | Scott, 2013 (whole-      |
|             | moderate to severe disabilities) | academic achievement, and    | group instruction)       |
|             |                                  | on-task behavior)            |                          |

# **Procedures**

**Phase 1: Enroll Teacher.** The teacher was interviewed to identify areas to target based on both teacher and student needs. Prebaseline observations were conducted to confirm these needs. Then, the first author identified ESPs to target each of the four issues and created a procedural checklist for each one.

**Phase 2: Suggest Practices (Baseline 1).** Prior to collecting baseline data, Katie was told the names of the ESPs to implement. No instructions or explanations were provided, and Katie was simply told, "Try your best."

Phase 3: Written Instructions (Baseline 2). After establishing low levels of fidelity during Baseline 1, written instructions (i.e., the procedural checklists) for the ESPs were provided. Katie was again told, "Try your best" to implement the ESPs using the written instructions.

**Phase 4: BST.** Instructions, modeling, role-play, & feedback were implemented in a staggered fashion across ESPs. Following BST, observations and data collection resumed.

**Phase 5: Coaching.** If procedural fidelity was below 90% fidelity across two consecutive sessions, coaching procedures (i.e., a combination of graphical and verbal feedback along with BST procedures, problem-solving, and goal-setting) were conducted.

**Phase 6: Post-coaching.** Regular observations continued until the end of the semester. Coaching would have been reinstated contingent on fidelity falling below 90% across two consecutive sessions, but this was not necessary.

### **Results**

Figure 1 displays the results. Procedural fidelity was low across ESPs throughout both baseline conditions. BST was effective in increasing fidelity with all four ESPs. Coaching was only needed for one ESP, and it was in increasing and stabilizing higher levels of fidelity for that one. The preservice teacher rated the ESPs and the BST and coaching procedures highly socially valid, and she even taught other teachers in the school how to implement the Beeper System and how to evoke and respond to ASR.

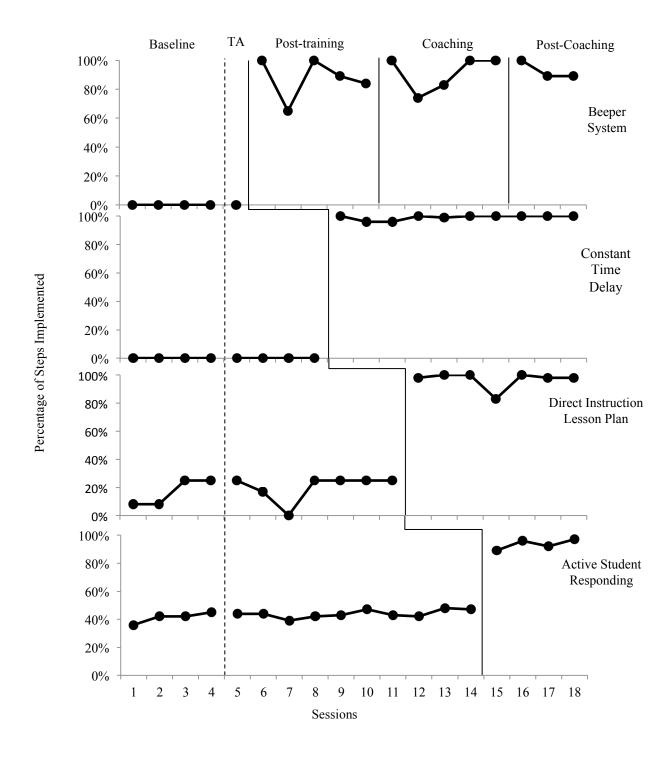


Figure 1. Procedural fidelity with ESPs.

# **Experiment 2**

# **Participants and Setting**

Sammy and Heather were both undergraduate seniors completing their final student teaching practica in a special education program at a large Midwestern university. Both student teachers were working toward licensure as intervention specialists for students with mild to moderate disabilities, and both teachers' practicum placements were at public middle schools in suburban school districts. Sammy implemented ESPs with her first period supplemental class. In this class were seven male students with disabilities including ADHD, ODD, EBD, and SLD. Heather implemented ESPs with her third period language arts group. The students in this group were two females and two males with disabilities including ADHD and SLD. They spent the first half of the period in an inclusive setting with 19 other students, and they were pulled out for small group instruction during the second half of the period. Initial interviews, planning, and coaching sessions were conducted before or after school, or on the weekends in an empty classroom or local coffee shop. As in Experiment 1, the first author served as the coach.

### **Dependent Variables and Data Collection**

Data were collected, on average, three times weekly for each teacher. Observation sessions for Sammy were from 8:05–8:55 during first period, seventh grade supplemental class. Heather's observation sessions were from 9:50–11:00 during third period, fifth grade language arts class. The dependent variable was the fidelity with which the teachers implemented the ESPs. Procedural fidelity was measured using task analyses of the ESPs and calculated as a percentage by dividing the number of steps implemented accurately by the number of steps that should have been implemented during the observation and multiplying by 100. A total of three ESPs were targeted for Sammy, and a total of five ESPs were targeted for Heather.

**Student-Teacher Game (Sammy and Heather).** This momentary time sampling procedure was selected to increase on-task behavior. Sammy implemented the game with the whole class throughout the period using 5-min intervals. Heather implemented it with her small group privately during the inclusion

class using 2-min intervals and publicly during small group instruction using 5-min intervals. The teachers monitored progress by recording percentage of intervals on task for each student each day.

**SAFMEDS** (Sammy and Heather). This strategy for increasing vocabulary and fluency was used by Sammy with a small group of students and by Heather with her four students during small group instruction. The students used standard celeration charts to record their correct and incorrect responses, and the teachers recorded each student's progress daily.

**Organizational Checklist (Sammy).** This strategy for improving organizational skills was implemented by Sammy classwide at the beginning of each supplemental period. Students earned points for meeting each criterion outlined on the checklist: (a) being in seat on time, (b) having homework completed and ready to turn in for each class, (c) having up-to-date agenda, and (d) completing self-monitoring chart. Points were exchangeable for a variety of backup reinforcers, and the teacher collected data on the number of points earned daily.

Check-In Check-Out (CICO) Procedure (Heather). This strategy for increasing on-task and organizational behaviors was implemented as a Tier 3 intervention with one of Heather's students. The student could earn points during each class period throughout the day, and Heather served as his CICO coach who he reported to at the end of the language arts period each day. When the student met his weekly goal, he could exchange those points for a backup reinforcer. The teacher collected data on the number of points earned daily.

**Repeated Readings (Heather).** This strategy for increasing fluency and comprehension was implemented as a Tier 3 by Heather with one student during small group instruction. The student read a passage for three, one-minute timings. The teacher used an error correction procedure and provided praise for incorrect and correct responses after each timing, and the teacher recorded the number of words read correct per minute (WRCPM) for each timing.

**Self-Questioning Journals (Heather).** This strategy for increasing comprehension and improving writing was implemented by Heather with all four of her students during small group instruction. The students wrote responses to questions in their journals as they read in order to self-

monitor comprehension. The teacher evaluated responses to comprehension questions and writing samples and collected data on student progress.

Table 1.

Empirically supported treatments used in Experiment 1 and their qualifying evidence.

|                | G: :1 G: 1 1 .:             | 0: 1 0: 1 : 0 :                    | G: :1 G #;          |
|----------------|-----------------------------|------------------------------------|---------------------|
| ~ .            | Similar Student population  | Similar Student Outcome            | Similar Setting     |
| Student-       | Theodore, Bray, Kehle, &    | Poduska, et al., 2008 (reducing    | Riley, et al., 2011 |
| Teacher/Good   | Jenson, 2001 (adolescents   | disruptive behavior, increasing    | (gen ed classroom); |
| Behavior Game  | with SED); Poduska,         | on-task behavior); Riley,          | Flower, McKenna,    |
| (2             | Kellam, Wang, Brown,        | McKevitt, Shriver, & Allen, 2011   | Muething, Bryant,   |
| (Sammy &       | Ialongo, & Toyinbo, 2008    | (increasing on-task, decreasing    | & Bryant, 2014      |
| Heather)       | (students with EBD);        | off-task); Sutherland et al., 2000 | (secondary school   |
|                | Chafouleas, Hagermoser-     | (on-task behavior)                 | special ed resource |
|                | Sanetti, Haffery, & Fallon, |                                    | classroom);         |
|                | 2012 (middle school         |                                    |                     |
|                | students); Sutherland,      |                                    |                     |
|                | Wehby, & Copeland, 2000     |                                    |                     |
|                | (5th grade students with    |                                    |                     |
|                | EBD)                        |                                    |                     |
| SAFMEDS        | Byrnes, Macfarlane, Young,  | Heward, 1997 (reading fluency);    | Byrnes et al., 1990 |
|                | & West, 1990 (secondary     | Meindl, Ivy, Miller, Neef, &       | (special education  |
| (Sammy &       | students with LD and        | Williamson, 2013 (fluent           | resource room);     |
| Heather)       | behavior disorders)         | responding)                        | Heward, 1997        |
|                |                             |                                    | (classroom)         |
| Check-in       | Simonsen, Myers, & Briere   | Campbell & Anderson, 2011          | Simonsen et al.,    |
| Check-out      | III, 2011 (adolescents with | (reduce problem behavior,          | 2011 (urban middle  |
|                | behavior problems)          | increase academic engagement)      | school); Hawken &   |
| (Heather)      |                             |                                    | Horner, 2003        |
|                |                             |                                    | (middle school)     |
| Organizational | Gureasko-Moore, DuPaul,     | Gureasko-Moore et al., 2006        | Langberg, Epstein,  |
| checklist      | & White, 2006 (7th grade    | (organizational skills—prepared    | Beck, Girio-        |
|                | males with ADHD); Snyder    | for class and completed            | Herrera, & Vaughn,  |
| (Sammy)        | & Bambara, 1997 (7th &      | assignments); Langberg et al.,     | 2012 (middle        |
|                | 8th grade students with LD) | 2012 (organizational skills)       | school)             |
| Repeated       | Therrein, 2004 (meta-       | Nelson, Alber, & Gordy, 2004       | Chard, Vaughn, &    |
| readings       | analysis, supporting use    | (reading accuracy and              | Tyler, 2002 (lit    |
|                | with students with LD),     | proficiency)                       | review, supporting  |
| (Heather)      | Alber-Morgan, Ramp,         |                                    | use with small      |
|                | Anderson, & Martin, 2007    |                                    | groups), Alber-     |
|                | (middle school with         |                                    | Morgan et al., 2007 |
|                | behavior problems )         |                                    | (middle school)     |
| Self-          | Taylor, Alber, & Walker,    | Crabtree, Alber-Morgan, &          | Berkeley, Marshak,  |
| questioning    | 2002 (3rd & 5th grade       | Konrad, 2010 (reading              | Mastropieri, &      |
|                | students with LD);          | comprehension/narrative story      | Scruggs, 2010       |
| (Heather)      |                             | elements)                          | (inclusive middle   |
|                |                             |                                    | school classrooms)  |

**Procedures** (Adapted from Jim Knight's instructional coaching model)

**Phase 1**: **Enroll teacher.** The teachers were interviewed to identify areas to target based on both teacher and student needs. Prebaseline observations were conducted to confirm these needs. Upon confirmation, the coach instructed the teacher to try to find ESPs to target the areas selected, and the coach also independently sought ESPs.

Phase 2: Collaborative planning. The coach met with both teachers individually to engage in collaborative planning. The teacher and coach reviewed potential ESPs that they had each identified and determined which ones to use. They located at least three evidences providing empirical support for each ESP. Together they created task analyses of the steps for each ESP, adapting it from the literature as needed to suit their classroom contexts.

**Phase 3: Baseline.** After task analyses had been created for each ESP, baseline data collection began. No coaching or feedback was provided at this time.

Phase 4: Coaching. Coaching was introduced in a staggered fashion across ESPs. Coaching sessions were conducted with Sammy immediately before first period science class (i.e., prior to the subsequent observation). Coaching sessions were conducted with Heather after school on the day prior to the subsequent observation sessions. Coaching involved the collaborative exploration of data from the prior observation, a review of the ESP procedural checklist, affirmative and corrective feedback, problem solving of barriers to implementation, and goal-setting. The teacher and coach also role-played missed steps. Coaching sessions were 10 min in duration, on average.

**Phase 6: Maintenance.** Post-coaching maintenance data were collected for Sammy at one and two weeks following the last coaching session. No feedback was provided following maintenance observations.

### **Results**

Figures 2 and 3 display the results. Coaching was effective in achieving high, stable levels of fidelity with ESPs across both teachers. Heather did not need coaching on the self-questioning ESP as she achieved 100% fidelity consistently in baseline; therefore, the self-questioning data are not depicted on

her graph (Figure 3). Maintenance data were collected at one and two weeks post-intervention for Sammy, and high levels of fidelity maintained across skills.

# Discussion

This research demonstrated the effectiveness of BST and coaching procedures in increasing three preservice teachers' procedural fidelity with ESPs in their student teaching practicum placements.

Progress monitoring data indicated that the ESPs produced desirable student outcomes, and the procedures were rated highly socially valid across participants. These methods offer a promising approach for improving new special educators' engagement in evidence based practice.

There are several limitations to this research. First, student outcome data are not reported, and conclusions regarding the effectiveness of the ESPs in achieving their intended effects are not warranted. The teachers did all report positive student outcomes, however. Second, generalization data were not collected; therefore, it is unclear whether the ESP implementation transferred to other classes or settings. Additionally, maintenance data were only collected for one participant, and these data only reflect short-term (up to two weeks) maintenance. It is unclear whether high levels of fidelity would have persisted in the long-term across participants.

Future research should examine the variables that influence the different levels of training and support that are required by different teachers. These variables may include the number of ESPs a teacher is to implement in a given situation, the number of students in the class, the complexity of the ESPs, available classroom supports, and the teacher's amount of experience. In addition, future investigations may explore the training and coaching of teachers to engage in evidence based practice as a problem solving model. A skillset that includes the ability to identify, adapt, implement, and progress monitor ESPs may be more useful than skill in implementing select ESPs to teachers who are faced with making instructional decisions throughout each day.

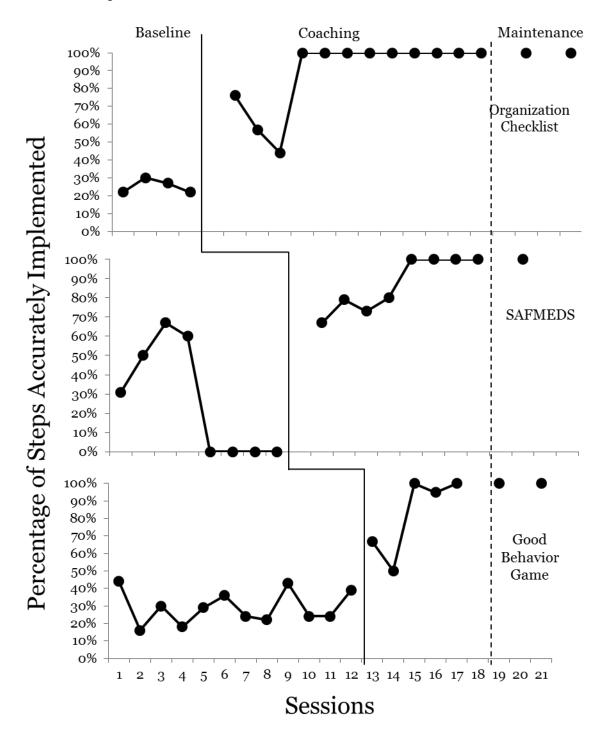


Figure 2. Sammy's procedural fidelity with ESPs.

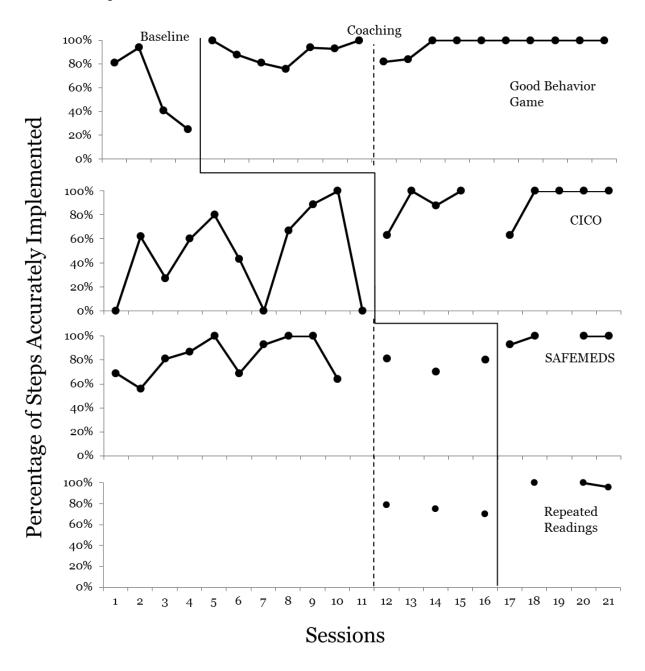


Figure 3. Heather's procedural fidelity with ESPs.

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