A Teacher’s Use of Video to Train Paraprofessionals in Pivotal Response Techniques

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Research has shown that students with moderate-severe disabilities need direct and frequent social instruction in order to communicate and play with their peers. At the same time, there is little commensurate support for the paraprofessionals tasked with providing this support. It is imperative, then, that paraprofessionals have effective strategies in their repertoire of practices to facilitate social interaction. This investigation examined one classroom teacher’s use of video to train two paraprofessionals in Pivotal Response Treatment (PRT), an evidence based practice for students with autism. Findings suggest that the teacher-provided video training was effective in improving paraprofessionals’ PRT implementation, and subsequently, the social interactions of their students with disabilities other than autism, namely cerebral palsy and Down's syndrome. Findings along with future directions for video-based training in the school setting are discussed.

Keywords: paraprofessionals, social interaction, pivotal response treatment, video training

School employees who are employed to work under the supervision of teachers are often referred to as paraprofessionals (Karge, Pierson, & Robinson, 2011). Paraprofessionals continue to be a widespread means of supporting students with moderate-severe disabilities. However, a discrepancy exists between the reliance on paraprofessionals to provide educational support, and the training provided to paraprofessionals (Giangreco, Broer, & Edelman, 2001; Rispoli, Neely, Lang & Ganz, 2011). Unless or until paraprofessionals no longer play a major role in supporting students with disabilities (Bolton & Mayer, 2008; Fombonne, 2003), it is imperative that researchers offer methods for effectively preparing paraprofessionals to meet the needs of the students they serve. This is especially important since paraprofessionals are often responsible for the supervision of students during recess, which is the only time of the school day many students with moderate-severe disabilities get to freely and naturalistically interact with their typical

To address the specific and significant needs of students in this context, researchers have begun to expand the use of Pivotal Response Treatment (PRT), a naturalistic applied behavior analysis approach, identified as an evidence-based intervention for children with autism (National Autism Center, 2009; Simpson, 2005; Wong, et al., 2015). Robinson (2011) explored training paraprofessionals to implement PRT in the school setting via a brief video feedback training provided by an outside expert. The participants in this study demonstrated the ability to implement PRT with fidelity. Toward this same end, Feldman and Matos (2012) investigated the use of expert-provided in-vivo feedback (i.e., feedback presented live during the implementation), expanding upon Robinson’s (2011) study by adding to the fidelity and generalization data. Though different training strategies were used (i.e., in-vivo v. video-based feedback), both of these investigations showed that experts were successful in training paraprofessionals to implement PRT with fidelity, which in turn correlated with gains in social communication skills of children with autism. That said, these researchers recommended future investigation of a trainer-of-trainers model and the role of the teacher as a means of further reducing overreliance on both experts and paraprofessionals.

Teachers hold key positions of responsibility. They are most familiar with their students’ needs, preferences, and goals; and have regular contacts with students, parents, and paraprofessionals. Furthermore, teachers are accountable to both administrators and parents. As such, teachers could potentially be the most successful, cost-effective, and logical trainers of paraprofessionals. Currently, the majority of paraprofessional training includes on-the-job training provided by classroom teachers; however, teachers report there is not enough time in the day to provide appropriate training, monitoring, and feedback to paraprofessionals (Causton-Theoharis, Giangreco, Doyle, & Vadasy, 2007). In fact, a sample of special education teachers reported spending only two percent of their time with each paraprofessional they supervised (Giangreco & Broer, 2005). This predicament conveys the need for training methods that would enable teachers to be closely involved in the training and monitoring of their paraprofessionals, yet support them in doing such a task effectively and efficiently.

To address this need, the current investigation seeks to expand Robinson’s (2011) study by exploring a teacher-provided video feedback training in PRT strategies. The primary research questions are: Can a teacher effectively use video feedback to train paraprofessionals to use PRT with fidelity? And secondly, Can PRT implemented by paraprofessionals effectively improve the social communication skills of children with moderate to severe disabilities—including diagnoses other than autism?

**Methods**

**Participants**

One teacher trainer, two paraprofessionals, and two students with moderate-severe disabilities participated in this study. The typical peers consisted of first through third graders from the school’s general education population. They interacted with the student participants as play and communication partners on the playground, but were not specifically assigned to the participants and were not formally a part of the investigation. The only
eligibility criterion for the peers included their willingness to play and a permission form signed by their parents allowing photography and video at school.

**Paraprofessional Participants**

Paraprofessionals qualified for participation based on the following criteria: (a) employed at the same school as the teacher trainer, (b) no previous training in PRT, and (c) assigned to work with students with moderate-severe disabilities.

One adult participant worked in the teacher trainer’s classroom and the other worked in another self-contained classroom at the same school (see Table 1). Both Hannah and Lydia participated voluntarily during their work hours.

**Table 1. Paraprofessional Demographics**

<table>
<thead>
<tr>
<th>Name</th>
<th>Age</th>
<th>Education Completed</th>
<th>Paraprof. Experience</th>
<th>Experience w/ Student</th>
<th>Prior Training</th>
<th>Training Topics</th>
<th>Experience/Tx in PRT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hannah</td>
<td>22</td>
<td>Some college-Architecture</td>
<td>1 year</td>
<td>1 year</td>
<td>District in-services</td>
<td>Safety, instructional strategies</td>
<td>None</td>
</tr>
<tr>
<td>Lydia</td>
<td>23</td>
<td>High School</td>
<td>1 year</td>
<td>6 months</td>
<td>District in-services</td>
<td>Safety, instructional strategies</td>
<td>None</td>
</tr>
</tbody>
</table>

**Student Participants**

Student participants were selected based on the following criteria: (a) educational placement in the teacher’s classroom, (b) independent diagnosis of a moderate/severe disability resulting in cognitive and language delays, and (c) no individually assigned paraprofessional (i.e., receiving classroom paraprofessional support only). In order to determine appropriate communication goals for the students, the current IEP goals and most recent multi-disciplinary, psycho-educational triennial reports were reviewed (see Table 2). Additionally, the teacher trainer observed both students’ behavior and language at recess.

**Table 2. Student Demographics**

<table>
<thead>
<tr>
<th>Students</th>
<th>Age</th>
<th>Grade Level</th>
<th>Diagnosis</th>
<th>Cognitive Test Scores</th>
<th>Language Test Scores</th>
</tr>
</thead>
<tbody>
<tr>
<td>“Luke”</td>
<td>8</td>
<td>Third</td>
<td>Cerebral Palsy (Intellectual disability, orthopedic impairment)</td>
<td>KABC-2 standard score: 50= lower extreme; PTONI standard score: 52= extremely low</td>
<td>CELF-5 standard score: 48= &lt;.01 percentile; PPVT-4 standard score: 50= &lt;.01 percentile</td>
</tr>
<tr>
<td>“Ralph”</td>
<td>9</td>
<td>Third</td>
<td>Down Syndrome (Intellectual disability)</td>
<td>KABC-2 standard score: 53= lower extreme; PTONI standard score: 57= extremely low</td>
<td>EVT-2 standard score: 67= 1.0 percentile; PPVT-4 standard score: 50= 0.3 percentile</td>
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</tbody>
</table>
According to formal assessments and classroom observations, both student participants were capable of producing multiple word utterances. Their utterances included multiple functions, including manding and commenting. However, when observed on the playground, both students were observed playing alone, talking to adults, or engaged in parallel play without using language with peers.

When guided to participate in a game with peers, Luke did not resist sharing with peers, but did not request additional turns after a peer took a turn. Rather, he either moved on to another activity by himself, or stood still and waited for the adult or peer to prompt him in the game or communicative act. Similarly, Ralph did not initiate with peers and rarely responded when a peer approached him, unless it was to say, “No thank you.” He selected one activity (e.g., digging a hole in the sandbox) and spent the entire recess period on this activity. When peers said his name to get his attention, he turned away and did not respond. When guided to participate in a game with peers, Ralph demonstrated resistance, resorting to tantrum behavior when asked to share objects or include peers in play.

**Teacher Trainer**

The special education teacher, Andrea, was a 26-year-old Caucasian female. She taught a self-contained class for students with a variety of moderate/severe disabilities. Andrea acquired knowledge in PRT through her teacher preparation program coursework and was enrolled in a Masters of Science in Education degree program at a nearby university at the time of this study.

**Setting and Materials**

This study took place on the playground during the first through third grade morning recess (15 minutes) and/or lunch recess (30 minutes), where students with special needs were regularly included. The playground consisted of basketball courts, a play structure (e.g., slides, ladders, monkey bars) and a sandbox. Preferred play activities for baseline and intervention sessions were determined by direct observation of students, or direct child selection using a visual choice board or verbal requests. All activities during baseline and intervention sessions utilized options that were typically available to the students during their regular recess playtimes.

The device used for recording and viewing all sessions was a fourth generation iPad. During the study, this device was dedicated solely to recording and storing video footage for training sessions and data collection. The teacher held the iPad for these sessions, standing 3 to 6 feet away from the activity targeted for recording.

**Dependent Measures**

The first dependent variable is paraprofessionals’ fidelity of PRT implementation. Following the methods used in Robinson’s study (2011), correct or incorrect implementation of the PRT strategies (child choice/shared control, clear opportunities, natural and contingent reinforcement, and appropriate adult communication and proximity) was recorded using one-minute partial intervals. If the PRT strategy was performed correctly
during this time, the interval counted as correct. If the strategy was performed incorrectly, it was counted as incorrect. If the interval were performed both correctly and incorrectly within the same interval, the interval was counted as correct if the number of correct executions outnumbered the incorrect executions. The fidelity of implementation percentage for each video was achieved by adding the correct scores from each technique and dividing by the total number of possible correct scores (correct plus incorrect scores for each technique), then multiplying by 100 (Table 3).

Table 3. Fidelity of Implementation. Adopted from Koegel & Koegel (2006), Robinson (2011)

<table>
<thead>
<tr>
<th>Strategy</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
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</thead>
<tbody>
<tr>
<td><strong>Child choice &amp; Shared Control.</strong> The paraprofessional provides choices of preferred activities, follows the student’s lead within activities, arranges the materials to establish shared control between the student and the communicative partner, and allows the student to reject stimulus items.</td>
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<td><strong>Clear Opportunity.</strong> If student is not verbally engaged in reciprocal interaction, the paraprofessional provides a clear opportunity for the student to practice the target behavior. She gives clear attempts to evoke a verbal response (e.g., models the correct word/language, uses a time delay or carrier phrase, asks an open-ended question) or prompts the typical peer(s) to do so. If the student does not respond, the paraprofessional provides a second opportunity.</td>
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<tr>
<td><strong>Contingent, Natural Reinforcement.</strong> If the student makes an attempt to respond to the opportunity (or verbally initiates), the paraprofessional immediately provides a natural reinforcer (e.g., the requested stimulus item), or prompts the typical peer(s) to do so. If the student does not make an attempt in response to the opportunity or is behaving inappropriately (e.g., screaming, throwing objects), the paraprofessional does not provide the student with the natural reinforcer (i.e., keeps the desired stimulus item).</td>
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<tr>
<td><strong>Adult Communication &amp; Proximity.</strong> When facilitating social interaction, the paraprofessional minimizes her direct interactions with the students. The majority of her verbal communication involves prompting the student and the typical peers to initiate/respond toward one another and to reinforce one another. If the student and the typical peer are independently engaged in appropriate, reciprocal verbal interactions, the paraprofessional refrains from over-prompting or interrupting them. The paraprofessional does not sit or stand directly next to the target student.</td>
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Since the paraprofessionals’ implementation of PRT is not relevant or helpful without understanding the effects of this intervention on students, the second dependent variable is students’ verbal requests and total utterances. Data on student requests (i.e., any mand for a tangible object) followed the same one-minute partial interval method so that adult participant and student participant data paralleled each other, allowing for direct comparison. The total number of
participants’ peer-directed utterances was also recorded during each session.

**Experimental Procedures**

This study followed an AB design with a pre-determined number of baseline, treatment, and maintenance sessions (i.e., three, three, and two sessions, respectively), based on the maximum number of sessions scheduling limitations would permit and the minimum number of sessions required to potentially establish a trend.

Training of the Trainer. Prior to any data collection, Andrea video recorded her own implementation of the PRT strategies with a student across two different recess activities and then met with a faculty member to receive video-feedback on her PRT implementation. While the faculty member perceived that the teacher demonstrated the ability to use PRT, her fidelity of implementation was not formally assessed. Next, the faculty member and teacher discussed the steps for giving video feedback to paraprofessionals, which included praise for correct strategy use and performance based corrective feedback for incorrect strategy use (see Robinson, 2011).

**Baseline.** The paraprofessional-student pairs were observed one or two times per week, during which five minutes of the 15-30 minute recess were video-recorded on the iPad. The video recording began as soon as the student participant and typical peer(s) began playing the same activity. For each of the baseline sessions, Hannah and Lydia were instructed to facilitate peer interaction between their assigned student participant and a typical peer on the playground. No other instructions were given to paraprofessional participants during baseline sessions.

**Intervention and Maintenance.** Following the baseline phase, the teacher conducted an initial training session with each paraprofessional individually whereby the teacher reviewed at least one of their baseline videos and verbally explicated the target PRT strategies: child choice/shared control, clear opportunities, natural and contingent reinforcement, and appropriate adult communication and proximity (see Table 3). The paraprofessionals were encouraged to self-evaluate through reflection by referencing the fidelity of implementation data sheet and written definitions of each strategy.

While viewing the videos, the teacher trainer began and ended each session with positive statements. The teacher also provided specific praise on correct implementation of each strategy. When an incorrect usage of a technique, or a missed opportunity for a technique, was viewed, the teacher and paraprofessional paused the video to discuss the scenario. The teacher provided corrective feedback and encouraged the paraprofessional to self-reflect on possible improvements by asking open-ended questions and providing time for the paraprofessional to ask clarifying questions (Robinson, 2011). The teacher also provided specific suggestions for improvements. This training session lasted approximately 20-30 minutes. Training sessions were held in a private, one-on-one context during the paraprofessional’s work hours, or during the paraprofessional’s free time before or after work. Training sessions during non-work hours were only held when voluntarily suggested by the paraprofessionals, and were not required or suggested by the teacher trainer.

After the initial training session, paraprofessional participants completed three treatment probes, which consisted of three, five-minute recess activities with their assigned student and one or more typical peers. Between these recorded sessions, the paraprofessionals met with the teacher for 20-minute video-feedback training sessions,
reviewing the video of the previous intervention session. Following the predetermined schedule of three intervention sessions, training ceased. The maintenance phase began four weeks after the treatment sessions. Two maintenance sessions were video recorded in the same format as the baseline sessions.

**Results**

**Paraprofessional Fidelity of Implementation**

Results from the paraprofessionals’ implementation of the target PRT techniques are presented in Figures 1-3. Looking at the performance of both paraprofessionals across the three experimental phases (Figure 1), it appears that a trend was established during baseline with fidelity of implementation averaging 16.67% and ranging between 0% and 28%. Hannah achieved a mean of 21.33% (range = 20-24%), while Lydia demonstrated a mean of 12% (range = 0-28%). During the treatment phase, both paraprofessionals demonstrated improvements in their fidelity scoring a mean of 78% (range= 60-100%). Hannah’s mean fidelity for treatment probes was 69.33% (range = 60-80%), while Lydia’s was 86.66% (range = 60-100). Both paraprofessionals reached a fidelity score of at least 80% after one-to-two treatment sessions. Finally, during the maintenance phase, both paraprofessionals maintained an overall implementation fidelity score of at least 80%, with Hannah scoring 92% (range 88-96) and Lydia scoring 94% (range = 92-96%).

![Figure 1. Paraprofessionals’ Fidelity of Implementation](image)

Looking at the specific strategies (Figures 2 and 3), the technique demonstrated with the highest fidelity during baseline was child choice (mean =70%; range =0-100%). Neither paraprofessional demonstrated shared control or contingent natural reinforcement. Moreover, clear opportunities and appropriate adult communication and proximity were poorly or not at all
demonstrated. Comparing baseline and treatment, it appears that the greatest improvement for both paraprofessionals was for the use of shared control. While neither demonstrated shared control during baseline sessions (0%), Hannah demonstrated the strategy correctly 100% of intervals across the three treatment sessions, and Lydia demonstrated the strategy correctly in 93% of intervals per session. Conversely, the strategies with the lowest average of correct intervals for Hannah and Lydia were clear opportunities (mean = .3) and contingent, natural reinforcement (mean = 1), respectively. Both Hannah and Lydia used Child Choice with 100% accuracy, but only Lydia was successful with appropriate communication and proximity.

Both paraprofessionals maintained their accurate use of child choice at 100%. Hannah also maintained 100% fidelity for shared control and improved her implementation of clear opportunities and contingent natural reinforcement by 47% and 80%, reaching 100% accuracy. Lydia maintained 100% fidelity for communication and proximity and improved her implementation of shared control, clear opportunities, and natural contingent reinforcement by 7%, 44%, and 47%, respectively. The only strategy for which either paraprofessional demonstrated a lower mean fidelity score was Hannah’s use of communication and proximity. Overall, across treatment and maintenance phases, child choice was implemented correctly for 100% of the intervals, shared control for 96%, clear opportunities for 76%, contingent natural reinforcement for 64%, and communication proximity for 82%.

![Figure 2. Hannah’s Correct Use of Each Strategy](image-url)
Student Participation Target Behaviors
Requesting

During the baseline phase, Luke directed requests to peers in a mean of 27 percent of the intervals (range = 0-60%) while Ralph made requests in a mean of 13.33 percent (range = 0-40%). During the treatment phase, requesting increased for both students. Neither student had probes containing zero requests, as they both did during the baseline phase. Luke’s mean percent increased to 60 (range = 40-80%), while Ralph’s jumped to 73.33 (range = 20-100%). In the maintenance phase, Luke’s requesting again increased to 100% of the intervals. Ralph increased his requesting to a mean of 90% of the intervals (range = 80-100%). See Figures 4 and 5.

Figure 3. Lydia’s Correct Use of Each Strategy

Figure 4: Luke’s Verbal Requesting
To measure the effects of PRT on overall language use, the total number of utterances directed to peers was counted. One tally was given to each utterance, regardless of length (i.e., a one word utterance and a full sentence were both tallied as one utterance). During baseline sessions, Luke produced a mean of 2.3 utterances per session (range = 0-5), while Ralph produced a mean of 2 utterances per session (range = 0-4). In the treatment phase, Luke’s total utterances increased to a mean of 5.67 (range = 4-7), while Ralph’s utterances increased to a mean of 17.3 (range = 3-27). In the maintenance phase, Luke’s mean utterances increased to 17.5 (range = 16-19), while Ralph’s utterances decreased to 13 (range = 10-16). See Figures 6 and 7.
In comparing each pair’s performance across sessions, the behavior of the student appears to coincide with that of the paraprofessional, with the exception of the baseline for Hannah, who maintained a low, steady score while Luke’s verbalizations were variable. All of the remaining conditions across participants demonstrate a relational trend (see Figures 8 and 9).

**Figure 8. Comparing Hannah’s Fidelity and Luke’s Requesting**
Discussion

This study, drawn from the current research on the use of PRT in the school setting, investigated whether a teacher could effectively use video to train paraprofessionals in PRT, and subsequently, whether paraprofessional implementation would lead to improvements in students’ verbal behavior. As a whole, the findings demonstrate an upward trend in all dependent variables and the close relationship between paraprofessional fidelity and student behavior.

Paraprofessional Outcomes
Prior to this study, the paraprofessionals were observed at recess supervising students without facilitating social interaction or language use, in spite of district-provided and on-the-job trainings received. Following their initial training session, the paraprofessionals demonstrated marked improvement and maintained above 80% accuracy during the maintenance phase. Interestingly, they varied in their individual performance of each strategy, yet both showed the most growth in shared control, improving from no use during baseline to correct implementation in nearly every interval across intervention and maintenance phases. Comparably, Robinson (2011) found student outcomes appeared to hinge most on shared control, as shared control provided the motivation for students to practice their target behaviors.

Student Outcomes
It appeared the two students made gains in the target behaviors, although caution is warranted in making this conclusion. It is difficult to compare diverse activities (e.g., the slide race v. basketball, sandbox v. chalk), as they tend to lend themselves to different opportunities (e.g., frequency/number of opportunities to request, wait time in between turns). Still, Luke demonstrated increased requesting and total utterances in the basketball activity during maintenance, as compared to basketball in baseline. Similarly, Ralph showed gains in the target behaviors when comparing the sandbox and wall ball activities across phases.

Most notably, the students’ requesting corresponded closely to paraprofessional fidelity of implementation. This relationship highlights a few important points for consideration. First, it provides social validation for the video feedback.
training and confirms the effectiveness of PRT in helping students practice important skills. Second, it points to the fact that these students, like many others with moderate-severe disabilities, were not practicing important skills without adequately trained staff; yet with trained support staff, they were able to verbally interact with their peers without disabilities. Third, it raises a discussion about the reliance on support staff.

Ideally, students with moderate-severe disabilities would learn and maintain key social communication skills and not indefinitely require an adult’s direct involvement in order to play with their peers. Further investigation on the training of peers to moderate the activities for and with their schoolmates with disabilities would be a worthy endeavor.

**Study Limitations**

The primary limitation is the length of baseline sessions being pre-determined at three sessions for both paraprofessionals, which means that variables such as maturation were not controlled for. A multiple baseline design across participants would have afforded a more reliable demonstration of intervention effectiveness. Secondly, while this study did demonstrate maintenance of paraprofessional fidelity and student outcomes over time, the paraprofessionals did not participate in a generalization phase. A phase in which paraprofessionals utilized PRT with another set of students with disabilities would have demonstrated the effectiveness of video feedback training at preparing paraprofessionals to support other students in their assigned classroom, and ruled out the possibility of improvements solely because the paraprofessional had more time and experience with the specific students paired with them for this research.

Third, the use of partial interval data collection methods did not lend to capturing the full improvements in the observed behaviors, albeit this was consistent across all phases and participants. For example, multiple rapid requests made during the same interval would have only been marked as one positive interval, rather than showing the exact number of these requests. On the other hands, while data on exact frequency may provide useful information, partial interval time sampling is typically a more time-efficient means of tracking behaviors, and therefore may be more useful and practical for teachers in the field who wish to utilize this training method and analyze their findings.

Lastly, video recording sessions on the playground were limited to five minutes due to the need to work within the confines of the school’s bell schedule, and the need to support other students and staff during that time. These scheduling limitations resulted in both the video recording sessions and the video feedback training sessions with paraprofessionals to be quite brief. This may have limited the potential of this training. Had the entire recess been recorded, more opportunities for interaction may have been included in each session, providing the paraprofessionals with more content to later review and discuss with the teacher trainer. On the other hand, these scheduling limitations parallel situations that would occur in many school environments and thus may paint a more accurate picture of the typical daily experience of teachers and paraprofessionals. It would be advantageous for future investigations to identify ideal video feedback session duration so as to achieve the greatest efficiency without compromising effectiveness.

**Future Research**
While the issues related to teacher and paraprofessional roles and responsibilities are being explored on a broader scale (i.e., at the systems level), research that can offer efficient yet effective on-the-job training methods would likely be an appreciated contribution for staff as well as administrators, parents, and students (Giangreco, Broer, & Suter, 2011; Rispoli, Neely, Lang, & Ganz, 2011). This may particularly help address the conundrum teachers currently face in holding the primary role and responsibility of directing and supervising their paraprofessionals, yet having little training and time to do so (Causton-Theoharis et al., 2007; Felmdan & Matos, 2012; Giangreco & Broer, 2005; Robinson, 2011). Specifically related to training methods, video modeling and video feedback provide convenient, effective, and innovative means for improving paraprofessional and student behavior, allowing for the replaying of events, self-reflection, and discussion, without disruption to the learning environment (see Masats & Dooly, 2011 and Robinson, 2011). Video technology, which has become “more accessible, cheaper, and user-friendly” (Masats & Dooly, 2011, p. 1152), allows for a portable means of demonstrating and learning strategies, enhancing the dissemination of evidence-based practices. It is recommended that future investigations expand upon this study to validate the initial findings, develop the teacher-as-trainer model, assess for paraprofessionals’ ability to generalize their skills, and explore ways to utilize video in the school setting as a means of reducing the research-to-practice gap.

Lastly, at the student level, it would be beneficial for future research to examine long-term outcomes of students’ target skills, quality and quantity of peer interactions, and the concept of friendship following this type of intervention. It is insufficient for interventions to produce temporary effects, isolated skills, and superficial interactions. Social support and friendships are important for all, including and especially for those with disabilities (Rossetti, 2015), thus the responsibilities of practitioners and researchers alike more broadly include the facilitation of meaningful relationships as a means to a good quality of life (see Turnbull & Turnbull, 2011). Encouraging reciprocal, spontaneous, voluntary interactions developed over time in the context of mutual enjoyment and shared activities would more likely to lead to true friendships (Rossetti, 2015). While this was beyond the scope of the current study, it will be imperative for the field to move forward helping school staff understand their role along these lines.

**Conclusion**

Since students diagnosed with disabilities other than autism often have delays in language, social skills, behavior, and adaptive skills similar to those in children with autism, it stands to reason that PRT would be a relevant means of treating their needs as well (Simpson, 2005). This has not yet, however, been explored in the literature on PRT (Wong et al., 2015). Furthermore, few studies have investigated paraprofessional implementation of PRT, and fewer still, if any, have looked at the feasibility of the teacher serving as trainer (Feldman & Matos, 2012; Robinson, 2011). Given the strain on teachers caused by the need to train paraprofessionals on the job without great disruptions to their workday schedule (Giangreco & Broer, 2005), it follows that the most time-efficient and flexible training delivery method would be the most desirable in naturalistic situations. This study therefore contributes to the research on PRT by (a) focusing on children with diagnoses other than autism, (b)
corroborating research that has demonstrated the effective utilization of paraprofessionals in improving students’ skills, and (c) adding the role of the teacher.

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