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Convergent Validity and Test-Retest Reliability of the Preschool Behavioral and Emotional Behavior Rating Scale: Parents as Respondents

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Abstract

A number of professional organizations have called on the need for valid and reliable assessments that measure young children’s strengths and competencies for the purpose of making decisions about teaching and learning, identifying areas of lesser strength, and for designing and evaluating interventions. The *Preschool Behavioral and Emotional Rating Scale* (PreBERS; Epstein & Synhorst, in press) is a standardized test designed to assess the emotional and behavioral strengths and competencies of children 3 to 5 years of age. Two studies investigated the PreBERS with parents as the primary respondents. The first study investigated the convergent validity of the PreBERS by comparing it to the *Caregiver-Teacher Report Form* (C-TRF; Achenbach & Rescorla, 2000). Because the PreBERS is a measure of emotional strengths and the C-TRF assesses problem behaviors, moderate to very large negative correlations (-.370 to -.775) were reported between the two measures. The second study investigated the test-retest reliability of the PreBERS over a one-month period. All of the correlations were over .787 indicating that the PreBERS is a stable measure across ratings. The results suggest that when parents are the primary respondents, the PreBERS is a valid and reliable measure for assessing emotional and behavioral strengths in preschool children.
Convergent Validity and Test-Retest Reliability of the Preschool Behavioral and Emotional Behavioral Rating Scale: Parents as Respondents

The 2004 amendments to the Individuals with Disabilities Education Act (IDEA) states that one way of enhancing the education of children with disabilities is by strengthening the role and participation of parents and families in the assessment process (Turnbull, Huerta, & Stowe, 2006). In fact, the current philosophy on best practices in assessment indicates that questions about individual child functioning are best answered through a process that allows for family input (Hall, 2005). Furthermore, IDEA requires that parents and families be a part of any evaluation process that concerns their child and that they are included as a member of the decision making team. Given that parents spend the more time with their children than professionals, it stands to reason that they are more knowledgeable about their child’s functioning and behavior. Thus, parents are an excellent resource for providing useful information about the child’s development, preferences, and social and emotional functioning (Lynch, 2005).

One approach to including parents in the assessment process is through the use of rating scales. Rating scales serve a number of functions in the assessment process including the gathering of baseline data and as a progress monitoring device for measuring student outcomes during and after treatment. In addition, rating scales allow multiple informants (e.g., parents, teachers) the opportunity to contribute information and provide evaluation teams the chance to compare ratings across informants to identify similarities and differences that may be relevant to identification and intervention planning (Mooney, Epstein, Ryser, & Pierce, 2005). In response to the clear and compelling recognized value of parent input in the assessment process, parent rating
scales have become increasingly recognized as an important resource in assessing the behavioral, social, and emotional strengths of young children (Merrill, 1999).

Historically, early childhood assessment has been conducted to identify deficits in young children and then sort them into different categories of disability or pathology (Meisels & Atkins-Burnett, 2000). While the assessment of deficits or challenges is often critical in the identification of children who may require special assistance or services, there is a potential problem that an over emphasis on deficits may ignore specific strengths, competencies, skills, and resources that a young child may possess. In fact, the particular set of skills and behaviors that a child possesses may be more important to recognize than the amount of deficits or absence of ability (Meisels, 1994). Recognizing and identifying the strengths and competencies within an individual is essential in designing, implementing, and evaluating interventions for use with young children.

The increased recognition of the value of strength-based assessment has led to a number of key recommendations from professional organizations. Specifically, in 2003 the Joint Position Statement of the National Association for the Education of Young Children and the National Association of Early Childhood Specialists in the State Departments of Education offered two key recommendations. First, all early childhood programs should include parents in the assessment process. Second, valid and reliable assessments that measure young children’s strengths and competencies should be developed for the purpose of making sound decisions about teaching and learning, identifying areas of concern, and for designing educational and developmental interventions (National Association for the Education of Young Children, 2003). In addition, the Zero to Three Working Group on Developmental Assessment recommended
that the assessment process for infants and toddlers identify the child’s current competencies and strengths as well as the competencies that will contribute to continued developmental growth (Greenspan & Meisels, 1996). The increased emphasis on strength-based assessment has led to the need for effective methods of identifying the assets of children who are at-risk for learning and behavior problems in early childhood. While many early childhood prevention and intervention programs were originally designed to build on child and family strengths, they have frequently lacked psychometrically sound instruments to identify and assess strengths in young children (Raver & Zigler, 1997).

The Preschool Behavioral and Emotional Rating Scale (PreBERS; Epstein & Synhorst, in press) is a standardized test designed to assess the emotional and behavioral strengths and competencies of children 3 to 5 years of age. The test has 42-items and is to be completed by preschool teachers, parents, and other adults who are familiar with the child. The subscales of the PreBERS were designed to assess four domains of emotional and behavioral strengths in preschool children. The Emotional Regulation subscale consists of 13 items that assess a child’s ability to interact with others in social situations (e.g., “shares with others”, “accepts responsibility for own behavior”). The School Readiness subscale consists of 13 items that assess a child’s behaviors that are associated with being ready to learn in school (e.g., “pays attention to task”, “persists with tasks until completed”). The Social Confidence subscale includes 9 items that assess a child’s ability to understand his or her own functioning and relationships with others (e.g., “asks for help”, “makes friends”). The Family Involvement subscale consists of 7 items that measure a child’s relationship with their family (e.g., “interacts positively with siblings”),
“maintains positive relations with family”). In these areas, adults who are familiar with
the child judge a series of statements on a Likert type scale (0=not at all like the child;
1=not much like the child; 2=like the child; 3=very much like the child). A total raw
score is determined for each subscale by adding the individual item scores. For each
subscale, raw scores are converted to standard scores with a mean of 10 and a standard
deviation of 3. An overall strength score is calculated by summing the standard scores of
the four subscales and converting that sum into a total strength standard score using the
table provided in the manual.

The content validity of the PreBERS was determined through a detailed
development process (Epstein & Synhorst, in press). First, a list of the original 52 items
from the original *Behavioral and Emotional Rating Scale* (Epstein & Sharma, 1998;
Epstein, 2004), a strength based measure for students 6 to 18 years of age, was reviewed
by approximately 150 preschool professionals who were asked to judge the
appropriateness of each item for use with children three to five years of age. Based on the
feedback from these individuals, 21 items were eliminated for inclusion in the PreBERS.
Second, a comprehensive literature review of the research on social-emotional
development, childhood psychopathology, and risk and protective factors of children was
conducted. Several excellent sources provided relevant and detailed content (e.g.,
DelCarmen-Wiggins & Carter, 2004; National Research Council and Institute of
Medicine, 2000; Zero to Three, 2005). In addition, tests that were previously developed
to assess the emotional and behavioral problems and competencies of preschool children
were reviewed. For example, the items of the *Behavioral Assessment System for Children*
(Reynolds & Kamphus, 2004) and the *Caregiver-Teacher Report Form* (C-TRF,
Achenbach & Rescorla, 2000) were reviewed for content, format, and wording. This review led to the addition of 39 items to the PreBERS prototype. Then, a study was conducted to determine if each individual item differentiated between children with and without disabilities. Eight items did not discriminate the two groups and those items were deleted from the prototype. Next, data on 239 preschool children who were developing typically were collected from teachers who judged each student on the 62-item PreBERS. The data were factor analyzed and 5 items were removed because they were either redundant to other items or failed to meaningfully add to a factor (Epstein & Synhorst, in press). Finally, data were collected on a nationally representative group of preschool children (N=1,308) and used to standardize and norm the PreBERS (Epstein, Synhorst, Cress, & Allen, in press). An exploratory factor analysis with a Promax solution identified four factors. This analysis led to an additional 15 items being removed based on redundancy, overlap with other items or failure to meaningfully contribute to a factor. Thus, the comprehensive content validation process resulted in a 42 item, 4-factor test.

**Reliability and Validity**

A psychometrically sound instrument should be able to demonstrate scores to support their validity across instruments and reliability over time in a consistent manner. Validity refers to the appropriateness, meaningfulness and usefulness of what can be said based on the scores obtained from a test (Mertens, 1998). Content validity measures the extent to which a test’s items represent the construct to be measured (Salvia & Ysseldyke, 2007). The content validity of the PreBERS was established during the multi-step item development and norming processes described above. Discriminant validity examines the extent to which an instrument can differentiate between constructs. The
discriminant validity of the PreBERS was also established during the norming process when the PreBERS scores of children with and without disabilities were compared (Epstein & Synhorst, in press). As noted earlier, those findings identified 8 items that did not differentiate the two samples and they were deleted from the original prototype of the PreBERS. Another type of validity is convergent validity. Convergent validity refers to the relationship between measures of the same construct using different assessment measures (Crocker & Algina, 1986; Salvia & Ysseldyke, 2007). The greater the relationship between the two tests, the stronger the convergent validity. While the convergent validity of the PreBERS and the Caregiver-Teacher Report Form (C-TRF, Achenbach & Rescorla, 2000) has been assessed with teachers (Epstein & Synhorst, in press), it has not been investigated with both parents serving as the primary respondents. Therefore, one purpose of the present study was to assess the convergent validity of the PreBERS and the C-TRF with parents as the primary responders on both tools.

The concept of reliability refers to “the extent to which individual differences in test scores are attributable to ‘true’ differences in the characteristics under consideration and the extent to which they are attributable to chance error” (Anastasi and Urbina, 1977, p. 84). The reliability of the PreBERS was established in several earlier studies (Epstein & Synhorst, in press). Specifically, the internal consistency of the PreBERS was assessed using the norming data where the Cronbach coefficient alphas for each of the subscales and total strength scores were calculated separately by age (3, 4, and 5 year olds) and gender (male and female). The coefficient alphas were found to be highly acceptable (range .838 -.982). In addition to achieving acceptable internal reliability, an instrument must demonstrate other forms of reliability. Inter-rater and short-term test-retest
reliability (i.e., less than 1 month) were demonstrated in other studies (Epstein & Synhorst, in press). In those studies, teachers or paraprofessionals completed the PreBERS on preschool children. The correlations were over .80 demonstrating the test is stable over a short time and is consistent between raters. However, the reliability of the PreBERS using parents as responders has not been researched. Thus, the second purpose of the present study was to assess the reliability of the PreBERS using parents as the primary raters. Prior to the research, we received the approval of the Institutional Review Board at the University of Nebraska-Lincoln. IRB approved informed consent and confidentiality procedures were followed in these studies.

Methods

Participants

Ninety-six preschool children and their parents participated in this study. The participants were recruited from preschool classrooms located in a medium-sized city in the Midwest. The children were recruited from preschool classes in eleven public schools and two non-profit organizations serving working parents. Of the 96 preschoolers, 61 (63.5%) were male and 35 (36.5%) were female, and ranged in age between 3 and 6 years of age (M=4.71, SD=.599). The ethnicity of the population was split between Caucasian (85.4%), Hispanic/Latin American (1%), African American (3.1%), Asian (1%), Native American (1%), multiracial (6.2%), and other (2.3%). All of the participants spoke English as their primary language.

Measure

The convergent validity of the PreBERS was assessed by correlating the PreBERS with the Caregiver-Teacher Report Form (C-TRF, Achenbach & Rescorla,
The C-TRF is a 100-item measure, and is completed by teachers or caregivers familiar with the child. The C-TRF is used to assess problem behavior and yields a total problem behavior score and internalizing and externalizing broadband behavior scores. For this study, the Internalizing, Externalizing, and Total Problems scores of the C-TRF were used for analysis. The C-TRF was chosen because of its extensive use as a measure of behavior in preschool children and its sound psychometrics. The C-TRF has well-established levels of validity and reliability (Achenbach & Rescorla, 2000). Because the PreBERS is a measurement of emotional strengths and the C-TRF assesses problem behaviors, we would expect a negative correlation between the subscales of the instruments. Therefore, we would expect a child who scores high on the PreBERS for Emotional Regulation would likely score low on the C-TRF for Externalizing behavior.

As stated earlier, the PreBERS is a 42-item rating scale that assesses four areas of emotional and behavioral strengths in preschool children. A parent or caregiver familiar with the child rates each item on a Likert type scale (0=not much like the child to 3=very much like the child). Standard scores are calculated for each subscale (M=10, SD=3) and total strength score (M=100, SD=15).

Procedure

Approximately 50 preschool teachers attending a workshop on assessment of children in early childhood special education programs were asked to participate. The authors of the PreBERS conducted the workshop and solicited the teachers. From this group, 13 preschool teachers agreed to assist and signed IRB approved consent forms. Then, information packets were sent home to parents (N=132) of all of the preschool children in the classes. The packet included an informational letter describing the purpose
of the study, a consent form and a stamped, self-addressed envelope to be returned to the researchers. Ninety-six parents (73% response rate) signed and returned consent forms for their child to participate. Next, the parents were asked to complete the PreBERS and the Caregiver-Teacher Report Form (Achenbach & Rescorla, 2000), according to the instructions that appear in each test. First, they were mailed a packet containing instructions on how to complete the ratings and a copy of each instrument. Each parent was given two weeks to complete the ratings. Parents who did not return the tests within that time period were given a reminder telephone call. Parent packets were returned on all 96 children. Second, two weeks after completing the first PreBERS form, parents were mailed a second packet containing instructions and a PreBERS form to be completed. Again, parents were given two weeks to complete the form and those who did not received a reminder phone call. Packets were returned on 96 children with a mean elapsed time between ratings of 37 days.

Results

Convergent Validity

Pearson correlation coefficients for each of the four subscales and Total Strength score of the PreBERS and the Internalizing, Externaling and Total Problem Scores of the C-TRF are presented in Table 1. Correlations across each of the scores were statistically significant (p < .0001). The correlations ranged between -.370 and -.775. According to Hopkins (2002), correlation coefficients between .30 and .50 are considered moderate, between .50 and .70 are large and those between .70 and .90 are very large. All of the correlation coefficients in this study ranged between ranged between moderate and very large with a median correlation of -.616.
For a correlation coefficient to be cited as evidence of validity it should meet or exceed .35 in strength (Hammill, Brown, & Bryant, 1989). All of the correlations across the subscales exceeded this standard. As mentioned earlier, because the PreBERS is a measurement of emotional strengths and the C-TRF assesses problem behaviors, all of the correlations demonstrated negative relationships. It should be noted that the correlations fell within a moderate to large range of scores (-.370 to -.775). This finding was not surprising as externalizing and internalizing symptoms in young children are often less distinct from each other, and may often tend to occur together (Merrell, 1999).

In fact, Achenbach and Rescorla (2000) noted that in preschool samples, children who scored high in externalizing behavior problems were likely to score high on internalizing problems as well.

**Test Retest Reliability**

The means and standard deviations for the reliability coefficients are reported in Table 2. Pearson correlations are presented for each of the four subscales of the PreBERS as well as the Total Strength Score. Correlations across each of the scores were statistically significant (p < .0001) and ranged from a low of .787 for the Social Confidence to .920 for the Total Strength Score. Eighty-five percent of the variance between the two composite scores was potentially explained by the relationship.

According to Hopkins (2002), reliability coefficients between .70 and .90 are considered very large. In the present study on the reliability of the PreBERS all of the correlations were over .787. Very large test-retest reliability correlations across intervals of about one month, such as in the present study, increase the confidence with which practitioners may generalize the findings of one administration to another. The results
from the present study suggest that the PreBERS is a relatively stable measure in the short term for assessing the strengths of young children when parents are the primary respondents. Assessments like the PreBERS, which may be used for screening, identification and planning purposes, must be able to demonstrate stability over time if those results are to assist in making meaningful decisions on how to enhance the strengths of young children (Salvia & Ysseldyke, 2007).

Discussion

The findings from these two studies into the convergent validity and short-term reliability of the Preschool Behavioral and Emotional Rating Scale (Epstein & Synhorst, in press) with parents serving as the primary respondents provides further evidence of the psychometric status of the instrument for assessing the strengths of young children. Given the increasing emphasis on including parents in the assessment process, the results suggest that when parents are the primary respondents, the PreBERS is a valid and reliable measure for assessing the strengths of young children. In regards to convergent validity, all of the correlations with the C-TRF were statistically significant and exceeded the .35 standard to support its validity in assessing what it purports to measure. In regards to reliability, previous research on the PreBERS has supported its internal consistency, inter-rater reliability and short-term test-retest reliability with teachers serving as the primary raters. In this study, the short-term reliability of the PreBERS was assessed with parents serving as the primary raters. All of the correlations were very large and demonstrated significant stability over a period of one month. This suggests that parents can accurately identify the emotional and behavioral strengths of preschool children and that these strengths are consistent from one administration to another.
An increasing number of professional organizations and public policy initiatives have acknowledged the importance of strength-based assessment by calling for tests that assess the competencies and strengths in young children. Strength-based assessment is an integral part of the assessment process because it identifies the strengths and competencies that can serve as the foundation for future growth and development and lessen the influence of negative life experiences for the child (Rutter, 1985). Therefore, the results from a strength-based instrument such as the PreBERS can be useful for designing, implementing, and evaluating positive behavioral interventions and supports for young children. In addition, the information derived from a strength-based assessment can be used to assist in identifying goals and objectives for individualized child and family services plan (IFSP) and/or an individual educational program (IEP) for the child.

In lieu of these applications, strength-based assessment is an ideal approach for assessing young children who might be considered at-risk for emotional and behavioral deficits. Factors that can put children at-risk for emotional and behavioral deficits can include biological variables (e.g., attention deficit/hyperactivity disorder (ADHD), developmental delay) and environmental variables (e.g., poverty, abuse) that influence child development. Therefore, strength-based assessment and the PreBERS would be useful for programs that serve children who may evince one or more of these risk factors such as early childhood special education programs and Head Start programs.

Limitations

There are several limitations to the findings that should be noted. First, characteristics of the children sampled were not representative of the larger U.S. preschool population. Specifically, young children from racial and ethnic minorities were
underrepresented. Second, these studies were conducted in a mid-sized, mid-western community. Therefore, it is possible that the findings will not generalize to parents and children in other geographical regions. Third, the convergent validity of the PreBERS was assessed with only a single instrument, namely the C-TRF. The degree of validity may vary with other social adjustment measures for young children. Fourth, the study used a convenience sample of parents who agreed to participate in this study and therefore the nature of the sample may have influenced the results. For this reason, the data do not represent the input of the parents who choose not to participate. Finally, while previous research has established the ability of the PreBERS to discriminate between children with and without disabilities (Epstein & Synhorst, in press), the sample in this study included a broad range of children that did not include specific cases of children with disabilities.

**Future Research**

Although a number of recent studies (e.g., Epstein & Synhorst, in press) have examined the psychometric characteristics of the PreBERS, additional research is needed. First, researchers should continue to examine the convergent validity of the PreBERS with other behavioral assessments appropriate for primary age children and with parents as the primary raters. For example, the convergent validity of the PreBERS should be examined with measures such as the *Preschool and Kindergarten Behavior Scale* (Merrell, 2002) and the *Minnesota Child Development Inventory* (Ireton, 1992). In addition, individual subscales of the PreBERS could be assessed with other specific measures. For example, the School Readiness subscale could be contrasted with the *Dynamic Indicators of Basic Early Literacy Skills* (Good & Kaminski, 2000), a test that
measures emergent literacy skills. Second, while a number of studies have examined the convergent validity of the PreBERS, research is needed on the predictive validity of the measure. For instance, a child’s score on the School Readiness subscale could be compared to their actual school performance at the conclusion of one or more years of schooling to examine the predictive validity of the PreBERS. Third, additional research is needed on the long-term reliability of the PreBERS with parents as the primary respondent to examine how consistent the measure is over a long period of time. Finally, researchers should continue to examine the psychometric characteristics with larger and more diverse samples, including children from different cultural, racial, and economic backgrounds as well as children with disabilities.

Clinical Implications

Measuring the emotional and behavioral strengths of young children is an important part of the assessment process of gathering information about an individual in order to make important decisions. With the support of additional research, the PreBERS could potentially serve a number of uses for teachers, parents, and practitioners. First, the PreBERS could potentially be used to identify children with limited strengths who might be at-risk for school failure. As mentioned earlier, this would include children with a variety of biological and environmental risk factors, but also children who display a persistent pattern of externalizing or internalizing behaviors that impede their ability to maintain developmentally appropriate social relationships, or their ability to participate in organized activities in a socially appropriate manner. Second, the PreBERS can be completed independently by parents and teachers to compare and contrast a child’s emotional and behavioral strengths across home and school settings. This could help
facilitate increased collaboration in the assessment process between parents and teachers and lead to interventions that enhance social and emotional skills across settings. Third, the PreBERS could be an excellent tool for developing strength-based goals and interventions. For example, a preschooler who scores high on the Family Involvement subscale, but low on the School Readiness subscale may benefit from an intervention that incorporates the family as part of the treatment plan for improving school performance. Such an intervention may include improving communication between the school and parents with a “talk-book” that goes home with the child every night and details the events of their day, or suggesting books or other school readiness materials that may assist the parent and child in their pre-school and kindergarten preparation. Ideally, by maximizing the family involvement strength, the staff may be able to enhance the child’s school readiness. Finally, the PreBERS could be used as a pre and post test measure to determine the effectiveness of an intervention on an individual child or group of students. For example, to determine the effectiveness of a new schoolwide positive behavioral support program, a principal could have parents and teachers complete the PreBERS on all of the students at the beginning of the school year and at the completion of the school year to determine the effectiveness of the program as a whole and on an individual basis.
References


Table 1

*Correlation Coefficients Between Subscales for the PreBERS and the Caregiver – TRF with Parents as Responders*

<table>
<thead>
<tr>
<th>Subscale</th>
<th>Internalizing</th>
<th>Externalizing</th>
<th>Total Problem</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emotional Regulation</td>
<td>-.617</td>
<td>-.775</td>
<td>-.738</td>
</tr>
<tr>
<td>School Readiness</td>
<td>-.536</td>
<td>-.574</td>
<td>-.616</td>
</tr>
<tr>
<td>Social Confidence</td>
<td>-.444</td>
<td>-.370</td>
<td>-.432</td>
</tr>
<tr>
<td>Family Involvement</td>
<td>-.548</td>
<td>-.668</td>
<td>-.672</td>
</tr>
<tr>
<td>Total Strength Score</td>
<td>-.615</td>
<td>-.689</td>
<td>-.705</td>
</tr>
</tbody>
</table>

Note. All were statistically significant at the p < .0001 level.
Table 2

Test-Retest Reliability of the PreBERS with Parents as Responders

<table>
<thead>
<tr>
<th></th>
<th>First Testing</th>
<th></th>
<th>Second Testing</th>
<th></th>
<th>Adjusted R Square (% Variance)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>SD</td>
<td>M</td>
<td>SD</td>
<td>R</td>
</tr>
<tr>
<td>Emotional Regulation</td>
<td>9.00</td>
<td>2.356</td>
<td>9.09</td>
<td>2.280</td>
<td>.877</td>
</tr>
<tr>
<td>School Readiness</td>
<td>9.13</td>
<td>2.558</td>
<td>9.21</td>
<td>2.731</td>
<td>.883</td>
</tr>
<tr>
<td>Social Confidence</td>
<td>10.22</td>
<td>2.258</td>
<td>10.28</td>
<td>2.434</td>
<td>.787</td>
</tr>
<tr>
<td>Family Involvement</td>
<td>9.87</td>
<td>2.273</td>
<td>9.95</td>
<td>2.292</td>
<td>.793</td>
</tr>
<tr>
<td>Total Strength Score</td>
<td>97.18</td>
<td>12.769</td>
<td>97.38</td>
<td>13.236</td>
<td>.920</td>
</tr>
</tbody>
</table>

Note. All of the correlations were statistically significant at the p < .0001 level.