Gender Comparisons in the Perception of Self-Competence Among Four-Year-Old Children

SAIGEETHA JAMBUNATHAN
Department of Elementary Education
State University of New York, New Paltz

NANCY L. HURLBUT
Department of Child Development
Humboldt State University

ABSTRACT. The purpose of this study was to determine the presence of gender differences in the perception of self-competence among 4-year-old children. Sixty-one 4-year-olds (27 girls and 34 boys) from predominantly European American backgrounds participated in the study. The children’s self-competence was measured using the Pictorial Scale of Perceived Competence and Social Acceptance for Young Children (Preschool version; S. Harter & R. Pike, 1984), which has 4 separate subscales: (a) cognitive competence, (b) physical competence, (c) peer acceptance, and (d) maternal acceptance. A within-subject 2-way analysis of variance with repeated measures of 4 (subscales of perception of self-competence) × 2 (gender) was performed to determine if gender differences existed in the children’s perception of self-competence. Analyses of the data showed no significant gender differences in the scores on the 4 subscales for the perception of self-competence among the children. These results could be interpreted as being due to a less gender-stereotyped society and androgynous environment for these preschoolers.

Key words: gender differences, self-competence
dimensional by several researchers (Bandura, 1988; Harter, 1983, 1988). Multidimensional perception of self-competence indicates that children can perceive their confidence in achieving success in several separate domains, each independent of the other (Bandura, 1988; Harter, 1988). Harter’s (1983) model of perception of self-competence among preschoolers consists of four dimensions: (a) cognitive competence, (b) physical competence, (c) peer acceptance, and (d) maternal acceptance. This is the notion behind the Pictorial Scale of Perceived Competence and Social Acceptance for Young Children. Our study is based on Harter’s paradigm.

Improving or enhancing children’s perception of self-competence has multiple benefits. Research has indicated that positive perception of self-competence promotes adjustment and success in school (e.g., Anderson & Adams, 1985; Bouffard, Markovits, Vezuau, Boisvert, & Dumas, 1998; Cauley & Tyler, 1989; McAdoo, 1985; Pallas, Entwisle, Alexander, & Cadigan, 1987; Parker & Asher, 1987; Verschueren, Marcoen, & Buyck, 1998). Research has also indicated that positive perception of self-competence is correlated with higher peer and social acceptance (e.g., Downs, 1990).

The discussion of benefits of positive perception of self-competence raises questions regarding how perception of self-competence develops and what factors influence its development. Harter (1988) and Bandura (1988) proposed that with increase in age and cognitive development, children will be better able to perceive their self-competence in several areas and will also be able to verbalize an overall feeling of self, namely, global self-worth. During early childhood, children’s perception of self revolves around physical characteristics, actions (Keller, Ford, & Meachum, 1978), and perceptions of what they want to be rather than what they really are (Ruble, 1983; Stipek, 1984).

The literature has indicated that the perception of self-competence is related to a number of factors that may be broadly classified as developmental and environmental. Developmental factors include cognitive, social, and behavioral development of the child (Bandura, 1988). Environmental factors include (a) parenting attitudes and behavior (e.g., Jambunathan & Hurlbut, 2000), (b) parents’ perceptions of traits they want their children to have (e.g., Bowlby, 1982; Parsons, Adler, & Kaczala, 1982; Phillips, 1987; Putnick, 1993), (c) the use of developmentally appropriate practices in early childhood classrooms (e.g., Jambunathan, Burts, & Pierce, 1999), and (d) perceptions and feedback from teachers and school (e.g., Connell & Illardi, 1987; Harter, 1983; Harter & Connell, 1984).

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Address correspondence to Saigeetha Jambunathan, Department of Elementary Education, 212G Old Main, 75 S. Manheim Blvd., State University of New York, New Paltz, New Paltz, NY 12561; sjambun@yahoo.com (e-mail).


among preschool children. Research has indicated that in the past, children were positively reinforced for conforming to socially accepted, gender-typed behavior (e.g., Blurt-Jones & Konner, 1973; Eaton & Enns, 1986; Liss, 1981). This, in turn, promoted higher perception of self-concept in specific areas by gender among preschoolers (e.g., Sugawara et al., 1986).

However, recent research has indicated that parents, teachers, and society are diverging from reinforcing gender-typed behavior among children, particularly during the preschool period, when gender roles are flexible. Many children see fathers as primary caregivers and mothers as primary breadwinners. The lack of gender differences in the four dimensions of perception of self-competence among this sample of 4-year-old children could be interpreted as being due to a less gender-stereotyped society and androgy nous environment for these preschoolers.

These results are in accordance with those of previous literature (e.g., Boldizer, 1991; Davies & Banks, 1992; Major et al., 1981; Massad, 1981; O’Heron & Orlofsky, 1990; Orlofsky, 1979; Perry & Bussey, 1984; Weinraub et al., 1988), which suggests that androgy nous child-rearing techniques used by parents are reflected in their children’s behavior. This influence is evident in the non-gender-based perception of self-competence among preschool children.

Teachers’ attitudes and behaviors are also important sources of influence on children’s gender stereotyping and behavior. The androgy nous attitudes of the present-day teachers promote children’s participation in all activities instead of restricting them to gender-stereotyped activities (Fuchs-Beauchamp, 1996; Meece, 1987). The preschool period is a particularly sensitive phase when children are learning about gender identity and constancy. Thus, any kind of external influence or reinforcement in promoting gender-stereotyped behavior would more than likely influence the children’s perception of self-competence.

The lack of gender differences in the perception of self-competence among young children may be an indication that society is moving away from reinforcing gender stereotyping and moving toward promoting androgy nous behavior in children. Our results open up several avenues for further research. The findings are limited because the sample is not ethnically diverse. It would be important to investigate gender stereotyping among groups of different ethnic composition and socioeconomic status. Furthermore, researchers could also investigate other influential sources of perception of self-competence among young children, such as ethnic origin, academic curriculum, and teachers’ attitudes about the children. Future researchers also could use parent self-report measures of child-rearing practices to investigate effects of gender-stereotyped versus androgy nous attitudes.

REFERENCES


TABLE 1
Descriptive Statistics of the Variables

<table>
<thead>
<tr>
<th>Variable</th>
<th>M</th>
<th>SD</th>
<th>Minimum</th>
<th>Maximum</th>
<th>n</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td></td>
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<tr>
<td><strong>Boys</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cognitive competence</td>
<td>3.42</td>
<td>.53</td>
<td>2.20</td>
<td>4.00</td>
<td>34</td>
</tr>
<tr>
<td>Peer acceptance</td>
<td>2.96</td>
<td>.74</td>
<td>1.67</td>
<td>4.00</td>
<td>34</td>
</tr>
<tr>
<td>Physical competence</td>
<td>3.21</td>
<td>.55</td>
<td>2.00</td>
<td>4.00</td>
<td>34</td>
</tr>
<tr>
<td>Maternal acceptance</td>
<td>3.08</td>
<td>.63</td>
<td>1.83</td>
<td>4.00</td>
<td>34</td>
</tr>
<tr>
<td><strong>Girls</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cognitive competence</td>
<td>3.50</td>
<td>.45</td>
<td>2.40</td>
<td>4.00</td>
<td>27</td>
</tr>
<tr>
<td>Peer acceptance</td>
<td>2.83</td>
<td>.68</td>
<td>1.50</td>
<td>4.00</td>
<td>27</td>
</tr>
<tr>
<td>Physical competence</td>
<td>3.11</td>
<td>.48</td>
<td>1.83</td>
<td>4.00</td>
<td>27</td>
</tr>
<tr>
<td>Maternal acceptance</td>
<td>2.98</td>
<td>.65</td>
<td>2.00</td>
<td>4.00</td>
<td>27</td>
</tr>
</tbody>
</table>

Results

The means and standard deviations of the four subscales of the Pictorial Scale of Perceived Competence and Social Acceptance for Young Children are shown in Table 1. A within-subject two-way analysis of variance with repeated measures of 4 (subcales of perception of self-competence) x 2 (gender) was performed to determine if gender differences existed in the perception of self-competence among these 4-year-olds. Analyses of the data showed no significant gender differences in the perception of self-competence among the children: cognitive competence, $F(1, 59) = .392, p < .534$; peer acceptance, $F(1, 59) = .45, p < .506$; physical competence, $F(1, 59) = .502, p < .481$; and maternal acceptance, $F(1, 59) = .378, p < .541$.

Discussion

Given the traditional gender-typed expectations of children's competence, we expected to find significant gender differences in the perception of self-competence, with boys scoring higher than girls on cognitive and physical competence subscales, and girls scoring higher than boys on peer and maternal acceptance subscales. However, contrary to previous research, the results of the present study indicated that there were no such gender differences in the perception of self-competence of these 4-year-old children. These results are in agreement with some of the findings of earlier researchers (e.g., Samuels & Griffoe, 1979; Sugawara et al., 1986). These varying results could be interpreted in terms of the changes in the influential factors that affect the development of gender differences.
Method

Sample

The participants were 61 children who were 4 years old (27 girls, M age = 4 years, 1 month; 34 boys, M age = 4 years, 2 months). They were predominantly European American (60 Caucasian, 1 Asian). The children attended four different preschool programs in a midwestern U.S. town and lived in middle socioeconomic-status families.

Materials

The perceived self-competence of the children was measured using the Pictorial Scale of Perceived Competence and Social Acceptance for Young Children (Preschool version; Harter & Pike, 1984). The children were tested in the preschool, at the children’s and teachers' convenience. The Pictorial Scale of Perceived Competence and Social Acceptance for Young Children has four separate subscales: (a) cognitive competence, (b) physical competence, (c) peer acceptance, and (d) maternal acceptance. Each of the subscales has 6 items.

Procedure

Each child's perceived self-competence was measured by responses to picture plates, each of which showed a picture of a more competent child and a less competent child of the same gender as the child being tested. The sample item was presented to each child in a structured alternative format. The researcher pointed to the two pictures and described the two types of children (e.g., “This girl can tie her shoes” versus “This girl cannot tie her shoe laces by herself”). The child was then asked to indicate which of the two pictures best resembled him or her. After the child picked a picture, the researcher asked the child to indicate if the response was only “sort of true” or if it was “really true” by pointing to one of the two circles beneath the picture the child picked (e.g., “Can you really tie your shoe laces by yourself?” [pointing to the large circle] versus “Can you sort of tie your shoe laces by yourself?” [pointing to the smaller circle]).

Each item on the scale was scored on a 4-point Likert-type scale ranging from most competent (4) to least competent (1). The mean score for each of the subscales was calculated. The reliability and validity of the scale were tested on 90 preschoolers (M age = 4.45 years), 56 kindergartners, 65 first graders, and 44 second graders, using coefficient correlation techniques (Harter & Pike, 1984). The computed reliability of the subscales ranged from .50 to .85 (Harter & Pike, 1984). The reliability of the total scale inclusive of all 24 items was .85 (Harter & Pike, 1984). The entire session lasted about 15–20 min for each child.
The literature has also indicated that there are variances in the extent of influence of developmental and environmental factors on the perception of self-competence among children. These variances may be explained in part by the children’s presenting responses that one wants to hear. Also the age, cognitive development, and gender of the child may relate to the variances. However, there are contradictory data about gender differences in the perception of self-competence among preschoolers (e.g., Hinde, Tamplin, & Barrett, 1993; Trautner, 1992). Usually when studies refer to gender differences, they refer to differences based on the development of gender typing and gender-based role preferences (i.e., understanding and playing the appropriate gender-based roles and behavior). Jensen (1983) and Fuchs-Beauchamp (1996) found significant gender differences in preschoolers’ perception of self-esteem. However, some researchers (e.g., Samuels & Griffore, 1979; Sugawara, Andrews, Adduci, & Cate, 1986) found no such differences.

Children learn to play the societal perceptions of gender-appropriate roles early in life through several opportunities, activities, reinforcement, and modeling (e.g., Kaplan, 1991; Lauer & Lauer, 1994; Martin, Wood, & Little, 1990; Santrock, 1994). This behavior has been reinforced at all levels of socialization for manifesting gender appropriateness. These levels include family socialization techniques and attitudes such as parental childrearing attitudes, parental behaviors (e.g., Carson & Parke, 1996; Carter, 1987; Ecceles, Jacobs, & Harold, 1990; Etaugh & Liss, 1992; Finnie & Russell, 1988; Henshaw, Kelly, & Gratton, 1992; Katz, 1987; Mullis & Mullis, 1989; Paretti & Sydney, 1984; Pettit & Mize, 1993; Rubin, Provenzano, & Luria, 1974; Thorne, 1993; Weinraub et al., 1984), and teachers’ attitudes and behaviors (Fuchs-Beauchamp, 1996; Meece, 1987). For example, society has traditionally positively reinforced boys for playing with trucks and being involved in rough and tumble play, and girls for playing with dolls and being involved in quieter and detailed play (e.g., Blurton-Jones & Konner, 1973; Eaton & Enns, 1986; Liss, 1981).

However, research has indicated that parents who have androgynous childrearing attitudes and behavioral expectations promote androgynous behavior among their children, with the result that their offspring seem to have higher self-concepts and peer acceptance (e.g., Boldizer, 1991; Davies & Banks, 1992; Major, Carnevale, & Deau, 1981; Massad, 1981; O’Heron & Orloffsky, 1990; Orloffsky, 1979; Perry & Bussey, 1984; Weinraub, Jaeger, & Hoffman, 1988). The variance in the literature may partly be due to (a) the specific samples of children studied and (b) the wide variety of different instruments used in the studies. In the present study, we collected data on gender differences in the perception of self-competence among 4-year-old children. The results will help resolve some of the unanswered questions about that issue and add to the scarce literature on its development. This information could be used by young children’s parents and educators to help them provide suitable environments for positive outcomes for children’s growth and development.


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