Development of preschool social emotional inventory for preschoolers: a preliminary study

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ABSTRACT

Social-emotional competencies have been established as important predictors in children’s mental health, school readiness and academic success. Age and developmentally appropriate screening for preschool children is important for early detection of developmental delays and early intervention. The purpose of this study is to measure preschool children’s social emotional competencies (SEC) based on the Malaysian context using the Preschool Social Emotional Competency Inventory (P-SECI) developed to provide parents, teachers and childcare professionals with a standardized, norm-referenced, reliable and valid instrument. A pool of 50 items was created for P-SECI, representing eight clusters of social emotional competencies in children: self-awareness, social awareness, self-management, relationship management, attachment, communication, responsible decision making and pro-social skills. This pilot study involved two public Annex preschools in Johor Bahru, purposely selected with 49 preschool children as respondents. Results showed that P-SECI has a high reliability index (Alpha Cronbach-Teachers .98 and Parents .95). Initial findings also showed that Teachers and Parents differ in their evaluation of their children’s SEC according to age and gender. But for the age criteria, the mean difference is slightly wider in comparison to gender. Therefore, P-SECI is relevant in predicting children’s mental health, school readiness and academic achievement. Results from the study also showed that the inventory holds promise as a reliable and valid instrument to evaluate SEC in young children according to the Malaysian context.

Keywords:
Instrument
Inventory
Preschool
Social emotional competencies
Social emotional learning

1. INTRODUCTION

The development of social-emotional competence (SEC) is an important foundation for young children to achieve success in schools and in later lives. New empirical research has provided a new perspective on the importance of social–emotional competence to school readiness. A number of researchers have shown that children who enter kindergarten with more positive profiles of social–emotional competence have not only more success in developing positive attitudes about school and successful early adjustment to school, but also improved grades and achievement [1]-[3]. A child with poor SEC is at risk of having poor relationships with peers, behavioural problems, underachievement in academics or developing physical and mental health problems. In a recent review of studies on SEC, the development of children’s social, emotional and behavioural skills have been linked to greater educational success, improvements in
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e. **Responsible decision making** is the ability to make constructive and respectful choices about one’s personal behavior and social interactions based on consideration of ethical standards and norms, safety concerns, social norms, realistic evaluation of consequences of various actions, and the wellbeing of self and others.

![CASEL 5 SEC clusters](http://www.casel.org/social-and-emotional-learning/core-competencies/)

In order to make P-SECI relevant and developmentally appropriate to young children, all 5 of the above SEC clusters identified by CASEL were included in the items selection but another 3 more clusters were added by the researcher based on social emotional theories, child development and learning theories. These 3 new clusters were attachment, communication skills and prosocial skills which are important clusters of SEC which needed to be incorporated since young children’s needs and social-emotional development are different from those of older children and adults.

a. **Attachment** is the bonding which is created when a child’s experiences with the parents/primary caregivers that are reliable, predictable and accessible during their care in the past. The quality of attachment is determined by the child’s willingness to engage and benefit from social interactions. The basis for trust in relationships with others would develop from early attachments. This relationship builds the ability to form close relationships with others throughout their life [14], [15]. This is also stated Erikson’s Psychosocial Theory in Stage 1: Trust vs Mistrust. If an infant’s physical and emotional needs are met in a consistent and caring way, he learns that his mother or caregiver can be counted on and he develops an attitude of trust in people. If his needs are not met, he may become fearful and learns not to trust the people around him. An infant must first form a trusting relationship with the parents/caregiver, otherwise a sense of mistrust will develop. If the child has a secure attachment, it is more likely that he would be willing to interact with others outside the family as it favors exploratory behaviors increasing the likelihood of social interactions. Ainsworth identified three different types of attachment: secure, ambivalent and avoidance) each of them leading to different types of behavior in the children [16]. Waters et al. concluded that the quality of attachment would predict competence and acceptance in the peer group [17]. Lieberman et al. found that the social competence of the children was related to the quality of the attachment between mother and children, and the amount of experience that the child had had with peers and also established that father availability was related to children having less conflict with their friends [18]. Inconsistent or rejecting parents are more likely to create insecure attachments and this could have disastrous consequences for children’s social relationships with peers [19], [15].

b. **Communication skills** reflect children’s ability to properly interact with other children and adults using interpersonal skills. It is an important skill especially for young children with limited amount of vocabulary and find difficulty in verbalising their emotions and thoughts which can be too abstract and overwhelming to them. When adults talk with children about emotions, it helps children to understand their emotions and others’ emotions as well. This helps children have more positive relationships with their peers leading to a greater ability to regulate their emotions and behaviour [20]. Communication skills can be best evaluated in play settings where children establish and maintain friendships [21]. With age, their play patterns become more complex and sophisticated and interaction and communication
form the basis for intricate play scenarios. Children with poor friendship skills are rejected by their peers and as a consequence lack the opportunity to develop their social skills [22]. These children are at risk for developing both internalizing and externalizing disorders [23]. Children’s ability to maintain interactions in larger groups evolves with time. By 5-years old, children are able to participate in cooperative play where they exchange ideas over play scenarios, and even attribute roles to children involved. Cooperative play stems from children understands of reciprocity as the basis of building and maintaining friendships [24].

c. **Prosocial skills** include a wide range of voluntary actions or behaviours directed at other people’s benefit such as sharing toys and other objects, turn-taking, giving and asking for help [25]. Children low on prosocial behavior are rejected by their peers, are often aggressive and exhibit behaviors which put them at risk for externalizing disorders [26], [27]. Until the age of 5, most children need to be reminded to share, help or wait for their turn during a game but once these rules are internalised, most children tend to exhibit these behaviors without adult prompting [28] and also showing signs of lesser egocentricity, more interactions with their peers increasing their prosocial skills.

2. **RESEARCH METHOD**

This pilot study employed a survey design to collect data using P-SECI. The total number of preschool children included in this study were N = 49 from two public preschools in the town of Johor Bahru. These 2 public preschools are annexed to a national type primary school catering for parents from the middle and lower income groups and were purposely selected because of the homogenous characteristics (close proximity and similarities of the school, teachers, parents and children profiles). For feasibility and pilot studies the sample size recommended is 30 [29]. The sample characteristics for each group are shown in Table 1.

<table>
<thead>
<tr>
<th>Age group</th>
<th>Number of participants</th>
<th>Gender</th>
<th>Race</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 years</td>
<td>17</td>
<td>Male</td>
<td>Malays</td>
</tr>
<tr>
<td></td>
<td>32</td>
<td>Female</td>
<td></td>
</tr>
<tr>
<td>6 years</td>
<td>49</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

An initial pool of 50 items was generated based on theories of child development, SEC, Social-Emotional Learning (SEL) and emotional intelligence. P-SECI was adopted and adapted from instruments used by US researchers; Devereux Student Strengths Assessment (DESSA), Ages and Stages Questionnaires: Social-Emotional (ASQ: SE), Strengths and Difficulties Questionnaire (SDQ) to make it more relevant to the Malaysian context. P-SECI contains pool of 50 items representing eight clusters of SEC which are self-awareness (SFA), social awareness (SOA), self-management (SFM), relationship management (RMT), attachment (ATM), communication (COM), pro-social skills (PRS) and responsible decision making (RDM). These items were subjected to content validated by a group of 6 experts from various fields of educational psychology, preschool education, language and psychometrics. as recommended by the Standards for Educational and Psychological Testing (American Educational Research Association). A four point Likert scale was used to check on the user’s specific response (1-Never, 2-Rarely, 3- Occasionally, 4-Frequently). The final version of P-SECI was able to represent all the clusters of SEC as shown in Table 2 with all the items randomly placed in the inventory.

<table>
<thead>
<tr>
<th>Coding</th>
<th>SEC Cluster</th>
<th>Item No.</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFA</td>
<td>Self-Awareness</td>
<td>1, 20, 21,22, 34, 40</td>
<td>5</td>
</tr>
<tr>
<td>SOA</td>
<td>Social Awareness</td>
<td>4, 7, 8, 24, 27</td>
<td>6</td>
</tr>
<tr>
<td>SFM</td>
<td>Self-Management</td>
<td>3, 6, 11, 13, 23, 31, 48, 49</td>
<td>8</td>
</tr>
<tr>
<td>RMT</td>
<td>Relationship Management</td>
<td>25, 26, 30, 36, 42, 43, 50</td>
<td>7</td>
</tr>
<tr>
<td>COM</td>
<td>Communication Skills</td>
<td>2, 15, 28, 29, 45</td>
<td>5</td>
</tr>
<tr>
<td>PRS</td>
<td>Prosocial Skills</td>
<td>10, 14, 16, 18, 38, 39</td>
<td>6</td>
</tr>
<tr>
<td>ATM</td>
<td>Attachment</td>
<td>5, 33, 35, 41, 44, 47</td>
<td>5</td>
</tr>
<tr>
<td>RDM</td>
<td>Relationship Decision Making</td>
<td>9, 12, 17, 19, 32, 37, 46</td>
<td>8</td>
</tr>
<tr>
<td>Total Items</td>
<td></td>
<td></td>
<td>50</td>
</tr>
</tbody>
</table>

A group appointment was set with teachers and parents during the preschools’ Open Day to give a brief explanation of the purposes and aims of the research, followed by a discussion on the clarity, relevance.
and wording of the inventory. They were then asked to fill the inventory and to hand in once they completed the task. The data collected were run using SPSS and analysed using descriptive statistics.

3. RESULTS AND DISCUSSION

Reliability is established through the data collected and analyzed using SPSS (Statistical Package for Social Sciences). The reliability coefficient (alpha Cronbach) \( r \) values ranged between .98 for Teachers and .95 for Parents. Differences between Teachers and Parents reliability indices showed a very small value of .03. Table 3 and Table 4 show the analysis of mean of P-SECI according to age and gender respectively.

<table>
<thead>
<tr>
<th>Age</th>
<th>N</th>
<th>Teachers Mean</th>
<th>Standard Deviation</th>
<th>Parents Mean</th>
<th>Standard Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 years</td>
<td>17</td>
<td>2.98</td>
<td>.20</td>
<td>3.15</td>
<td>.34</td>
</tr>
<tr>
<td>6 years</td>
<td>32</td>
<td>3.36</td>
<td>.54</td>
<td>3.13</td>
<td>.43</td>
</tr>
<tr>
<td>Total</td>
<td>49</td>
<td>3.27</td>
<td>.51</td>
<td>3.13</td>
<td>.41</td>
</tr>
</tbody>
</table>

Table 4. Mean of P-SECI on gender

<table>
<thead>
<tr>
<th>Gender</th>
<th>N</th>
<th>Teachers Mean</th>
<th>Standard Deviation</th>
<th>Parents Mean</th>
<th>Standard Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>18</td>
<td>3.16</td>
<td>.53</td>
<td>3.18</td>
<td>.40</td>
</tr>
<tr>
<td>Female</td>
<td>31</td>
<td>3.33</td>
<td>.49</td>
<td>3.11</td>
<td>.41</td>
</tr>
<tr>
<td>Total</td>
<td>49</td>
<td>3.27</td>
<td>.51</td>
<td>3.13</td>
<td>.41</td>
</tr>
</tbody>
</table>

Initial findings showed that teachers and parents differ in their evaluation of their children’s SEC according to age and gender but for age, the mean difference is slightly larger compared to gender. Further research carried out on results of differences in age and gender. Initial findings indicated that P-SECI is relevant in predicting children’s mental health, school readiness and academic success through analyzing the results of their social emotional competencies. Results from the study also showed that the inventory holds promise as a reliable and valid measure of social emotional competencies in young children for the Malaysian context.

P-SECI has a number of potential uses in practical situations. It was not designed as a diagnostic instrument in the sense of fitting medical settings but it can provide information that many practitioners in early childhood settings, schools and home or clinical environments may find useful as it is easy and quick to administer. Knowledge of the child’s level of social-emotional development and competencies may aid parents, teachers and day-care personnel in understanding the child’s behavior with other children or adults and also to find the ways to help them through shaping and early intervention. It also helps parents and teachers in understanding children at risk for future adaptive and academic problems and to plan programs of intervention to prevent future behavioural problems in school or in later life.

However, there is a need to further evaluate this instrument with further validation studies as this is only a feasibility study. Another shortcoming of this research is the fact that data on only one race was available but in future studies other races could be included, as well as different types of preschools using different medium of instruction and privately or publicly run. Future studies on P-SECI can be made in another possible area of research on characteristics of the social-emotional development of the child at age five as a predictor of later development outcomes and to what extent preschool measurements of SEC during the last year in preschool are predictive of the children’s school performance in the Primary 1.

4. CONCLUSION

This is a first attempt to develop a screening instrument according to the Malaysian context to predict SEC and mental health problems in young children which may jeopardise their academic achievement and school readiness. A consistent longitudinal evaluation of young children is needed to prevent mental health problems and school maladjustment which may lead to more serious social problems in later years. It must be stated that the aim of screening is not simply labelling children as deficient in acquiring certain abilities, but rather promoting an early detection and intervention program to ensure children’s wellbeing and success.
ACKNOWLEDGEMENTS

We would like to thank the headmasters, preschool teachers and parents for their kind cooperation and assistance in this research. We would also like to show our gratitude to the Ministry of Education and the Johor Bahru District Education Office for granting us permission to carry our research in the 2 public preschools.

REFERENCES


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