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<th>Title</th>
<th>In-depth analysis of ECD Scales in Cambodia – Early child development scale findings</th>
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<tr>
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In-depth Analysis of ECD Scales in Cambodia

Early Child Development Scale Findings

Regional ECCD Conference, 01-03 March 2017,
Prof. Nirmala Rao, Hong Kong University;
Nhonh Sophea, UNICEF Cambodia
• Part I: Methodology
• Part II: Key Findings
• Part III: Recommendations
Part I:
Methodology
Part I: Methodology

East Asia Pacific – Early Child Development (EAP-ECD) Scales assessment:

- A collaborative effort among UNICEF, Hong Kong University, ARNEC and the Open Society Foundation
- Between 2013-2014, EAP-ECDS assessments were carried out in six countries
- Samples included both boys and girls (3-5) residing in urban and rural settings, attending preschool programmes and those who did not
- Sampling in all countries were stratified by child’s Age, Gender and Urbanicity
Part I: Methodology

Rationale:

• There are no globally accepted tests for ECD
• Culturally and contextually appropriate assessment of ECD is important to:
  ➢ monitor child development in the context of poor school readiness and learning outcomes
  ➢ track the development of vulnerable and at-risk children
  ➢ analyze the impact of early childhood policies and programmes on children
## The Revised Scales

<table>
<thead>
<tr>
<th>Category</th>
<th>Items</th>
</tr>
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<tbody>
<tr>
<td>1. Approaches to Learning</td>
<td>7 items</td>
</tr>
<tr>
<td>2. Cognitive Development</td>
<td>21 items</td>
</tr>
<tr>
<td>3. Cultural Knowledge and Participation</td>
<td>10 items</td>
</tr>
<tr>
<td>4. Language and Emergent Literacy</td>
<td>16 items</td>
</tr>
<tr>
<td>5. Motor Development</td>
<td>7 items</td>
</tr>
<tr>
<td>6. Health, Hygiene and Safety</td>
<td>9 items</td>
</tr>
<tr>
<td>7. Socio-Emotional Development</td>
<td>15 items</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>85 items</strong></td>
</tr>
</tbody>
</table>
ECD Scale Survey in Cambodia:

- In 2013-14, a representative sample of 1,500 children in Cambodia was administered the EAP-ECDS.
- Sample size for in-depth analysis: 1,465 (ethnic minority: 296)
- Children ranged from 3-5 years and were from Khmer (urban and rural) and ethnic minority (rural) backgrounds.

<table>
<thead>
<tr>
<th>Age</th>
<th>Gender</th>
<th>Ethnic Minority Status</th>
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<tr>
<td></td>
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<td>Low SES</td>
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<tr>
<td>3Y</td>
<td>Girls</td>
<td>134</td>
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<tr>
<td></td>
<td>Boys</td>
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<td>4Y</td>
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<td></td>
<td>Boys</td>
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<tr>
<td>5Y</td>
<td>Girls</td>
<td>134</td>
</tr>
<tr>
<td></td>
<td>Boys</td>
<td>134</td>
</tr>
<tr>
<td>Total</td>
<td>Girls</td>
<td>406</td>
</tr>
<tr>
<td></td>
<td>Boys</td>
<td>421</td>
</tr>
</tbody>
</table>
Part II: Key Findings
Part II: Key Findings

- the high impact of ECE on children’s performance
- significant urban-rural divides in development outcomes
- significant developmental disparities between majority and ethnic minority groups

Going deeper.....

Age-related differences
Geo-ethnicity and SES
Health status
ECE attendance
Parental Education
Family Learning Environment
Age-related differences

- Age was the best predictor of EAP-ECDS performance.
- As expected, 5-year-olds did better than 4-year-olds who did better than 3-year-olds in seven domains.
- BUT the gap between advantaged and disadvantaged groups was larger at age 5 than age 3 in the Cognitive Development, Socio-emotional development, Language and Emergent Literacy, Approaches to Learning.
Indigenous minorities and SES

- Strong correlation between geo-ethnicity and SES
- Geo-ethnicity and SES differences were prominent in Language and Emergent Literacy, Socioemotional Development, Health, Hygiene and Safety, and Cultural Knowledge and Participation, and noteworthy in Cognitive Development and Approaches to Learning.
Health and nutritional status

- Children from Rural Ethnic Minority families and low SES families had poorer health habits than other groups.
- Children of better health status were more likely to have better performance on EAP-ECDS.
ECE attendance

- ECE significantly improved child development.
- Children of different ages were shown to benefit from ECE equally, whereas higher SES children benefitted slightly more than those from poorer SES backgrounds.
Parental Education

- Mothers and fathers from Urban Ethnic Majority backgrounds had the highest levels of formal education, and those from rural ethnic minority backgrounds, the lowest.
- Fathers were better educated than mothers.
- Maternal education moderated the relationship between geo-ethnicity and Socioemotional Development, Health Hygiene and Safety, and Cultural Knowledge and Participation.
Family learning environment

• A child’s home learning environment was found to be predictive of child development, with mother’s, father’s, and other family members’ involvement in learning activities all related to better child development.

• About 22% of parents had attended parenting class - these parents were more likely to engage in learning activities with their children at home.

Geo-ethnicity, family learning support and Cognitive development

![Graph showing the relationship between family learning support and cognitive development scores for different groups.]
Part III: Recommendations
Part III: Recommendations

• First, provide ECE to more and more children in the three-to-five age group in Cambodia, especially those from rural, low SES backgrounds.

• Second, encourage ECE attendance and dismantle barriers to participation. Food supplements (such as nutritious snacks) could incentivize ECE attendance so that every child in Cambodia can access and benefit from ECE. Further, the provision of nutrition in the ECE environment can reduce child malnutrition.
Part III: Recommendations

- Third, the **quality of ECE** should not be neglected and ECE provision can be tailored to helping children attain the Cambodian Early Development and Learning Standards.

- Fourth, **parenting classes** and parental awareness training on the benefits of ECE have significant impact on how the home environment supports learning and should be expanded.

- Fifth, implement **interventions to target malnutrition**.

- Sixth, **enhance maternal education** as it has a high impact on child development.
Thank You
For more information, please contact:
Nhonh Sophea
ECD Specialist, UNICEF Cambodia
+855-12 888-879
snhonh@unicef.org

United Nations Children’s Fund
Cambodia Country Office
No.11 Street 75, Sangkat Sraschark
P.O. Box 176
Phnom Penh
Cambodia
Tel: +855 23 426 214/5
www.unicef.org/cambodia

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