

Title The Study of Child Developmental Milestone Norms of Thai Children from Birth to 5 Years using Development Skills Inventory for Children, Mental Health Department Version, the Ministry of Public Health

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Years 2011

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Abstract

Background: Child development is the foundation of population's health and indicates quality of public health systems and services.

Objectives: to identify child development norm from birth to 5 years in Thailand

Methods: 2,079 study subjects aged from birth to 5 years were included using multi-staged stratified random sampling. Child development assessment tool aged from birth to 5 years Mental Health Department, Ministry of Public Health version was used to assess child development level. Child development was assessed in 5 development domains with 654 assessment items: 1) gross motor; 2) fine motor 3) receptive language; 4) expressive language; and 5) personal and social care. Data were analyzed using multiple logistic regressions to identify the child developmental norms and using one sample t-test to compare level of the child developmental norms between child development assessment tool aged from birth to 5 years Mental Health Department, Ministry of Public Health version and Denver II

Results: The results showed that 651 from 654 assessment items (99.54%) were able to identify child development norms in children aged from birth to 5 years. There were 3 items excluded from this evaluation because of no relationship was found between development skills and age, which meant child at any age could pass these items. From comparing percentiles, the child developmental norms in gross motor and expressive language of child development assessment tool aged from birth to 5 years Mental Health Department, Ministry of Public Health version were not different from Denver II and the 70th percentiles of fine motor in both versions were not different. In development domains of receptive language, the levels of child developmental norms at the 25th and 50th percentiles were not different and at the 90th percentiles of the child developmental norms of personal and social care had no difference between two versions.

Keywords: Norm, Thai Child Developmental Norms, Comparing the Child Developmental Norms