

# The Development and Growth of Children Aged under 5 years in Northeastern Thailand: a Cross-Sectional Study

1,2

2\*

*<sup>1</sup>Health Intervention and Technology Assessment Program, Nonthaburi, Thailand*

*<sup>2</sup>Epidemiology Unit, Faculty of Medicine, Prince of Songkla University, Hat Yai, Songkhla, Thailand*

\*



logistic regression. A p-value less than 0.05 was considered as

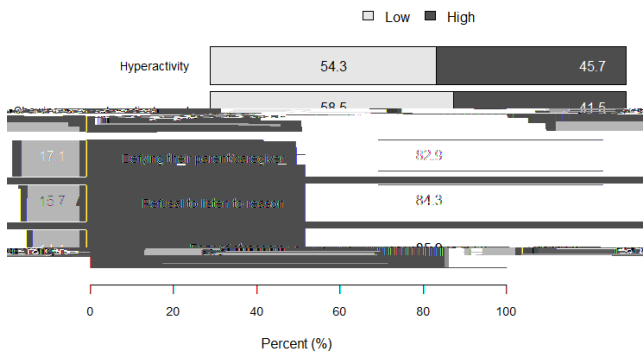
### Ethical consideration

study was approved by the Institutional Ethical Committee of the Faculty of Medicine, Prince of Songkla University (EC number 57-003-18-9). women signed the consent form for their participation and for the permission of their child to participate in the study.

### Results

A total of 70 mothers and their born child participated in the study. Characteristics of the mothers are described in Table 1. mean (sd) age was 23.9 (4.7) years. Among those who were adolescent at their pregnancy, 35% were adolescent at their current pregnancy. highest educational achievement by the majority was lower secondary school (42.9%) and about half (51.4%) were employed at the time of the interview. More than half (57.1%) had an income below the annual Gross Provincial Product per capita line in 2011 (SUS 183 per month).


12-35	32	1 (3.6)	2 (6.3)	1 (3.1)	1 (3.1)	4 (12.5)
36-62	38	3 (7.9)	8 (21.1)	1 (2.6)	6 (15.8)	12 (31.6)
Male	28	3 (10.7)	6 (21.4)	1 (3.6)	2 (7.1)	7 (25.0)
Female	42	1 (2.4)	4 (9.5)	1 (2.4)	5 (11.9)	9 (21.4)
Adolescent	33	1 (3.0)	5 (15.2)	1 (3.0)	4 (12.1)	8 (24.2)
Adult	37	3 (8.1)	5 (13.5)	1 (2.7)	3 (8.1)	8 (21.6)
Total	70	4 (5.7)	10 (14.3)	2 (2.9)	7 (10.0)	16 (22.9)



**Figure 3** Percentage of children displaying improper behavior.

3-year-old children in the United Arab Emirates. *J Psychosom Res* 61: 321-6

13. Demirci A, Kartal M (2016) Prevalence of developmental delay among children aged 3-60 months in Izmir, Turkey. *Child Care Health Dev* 42: 213-9
14. Ryan-Krause P, Meadows-Oliver M, Sadler L, Swartz MK (2009) Developmental status of children of teen mothers: contrasting objective assessments with maternal reports. *JPediatr Health Care* 23: 303-9
15. Lia CH, Fernald, Patricia Kariger, Patrice Engle, Raikes A (2009) Examining early child development in low-income countries: a toolkit for the assessment of children in the first 5 years of life. World Bank, Washington DC. 210
16. Fischer VJ, Morris J, Martinez J (2014) Developmental screening tools: feasibility of use at primary healthcare level in low- and middle-income settings. *Jhealth Popul Nutr* 32: 314-26
17. McDonald CM, Shierck M, I, Flaxman S, Fawzi WW, Spiegelman D, et al. (2013) Effect of multiple anthropometric measurements on child mortality: meta-analysis of individual data in 10 prospective studies from developing countries. *AmJ Clin Nutr* 97: 896-901.
18. Black RE, Allen LH, Bhutta ZA, Brown KH, de Onis M, et al. (2008) Maternal and child undernutrition: global and regional exposures and health consequences. *Lancet* 371: 243-60
19. Black RE, Victora CG, Walker SP, Bhutta ZA, Christian P, et al. (2013) Maternal and child undernutrition and overweight in low-income and middle-income countries. *Lancet* 382: 427-51.
20. Chen YJ, Li CR, Lee SH, Hsu BQ, Wu WY, et al. (2014) Growth changes