

Title: Risk factors for preterm birth and outcomes of pregnancy among Northeastern Thai teenage pregnancies in Khon Kaen, Thailand

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Teenage pregnancy is known to be a risk factor for preterm birth. Studies on risk factors for preterm birth in teenage pregnancy in Thailand is scant. This retrospective cohort study aimed to evaluate risk factors for preterm birth and outcomes of pregnancy among teenage mothers who gave birth in a tertiary hospital in Northeastern Thailand. All teenage pregnancies who gave birth at Khon Kaen hospital, Thailand, from January 2014 to December 2015 were retrospectively reviewed to identify risk factors for preterm birth and the outcomes of pregnancy. Data and information on the characteristics of teenage mothers and outcomes of pregnancy were extracted from electronic files of medical records. Multivariable logistic regression analysis was used to evaluate independent risk factors for preterm birth among teenage mothers. During the study period, 1,042 teenage mothers were identified. The preterm birth rate among teenage mothers was 16.8%. Teenage mothers were divided into 2 groups; term and preterm. Fetal complication and fetal anomaly were higher in the preterm group compared with the term group. There was no incident of stillbirth in the term group, while in preterm group there was a rate of 2.2%. BMI before pregnancy of less than 18.5 (OR, 1.89; 95% CI, 1.28-2.81), weight gain of < 5 kg (OR, 5.11; 95% CI, 2.96-8.81), prenatal visit of < 4 times (OR, 5.16; 95% CI, 3.50-7.61), premature rupture of membrane [PROM] (OR, 4.22; 95% CI, 2.20-8.11) and previous preterm birth (OR, 46.56; 95% CI, 13.15-164.88) were found to be independent risk factors for preterm birth in teenage mothers.

Biography: Dr. Suthida has completed her PhD in Clinical Epidemiology in 2014 from Faculty of Medicine, Chiang Mai University, Chiang Mai, THAILAND. She is a nursing instructor working at the Department of Maternal-Child and Midwifery Nursing, Boromarajonani College of Nursing, Khon Kaen, Thailand. She has eight research publications mainly focused on prognostic factors of cervical cancer. Her research interests includes clinical epidemiology, cancer and survivorship, and clinical and translational research. Currently, her research centers around teenage pregnancy.

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