

# Risk Factors Of Pregnancy Incidence Before 20 Years Old In Indonesia 2016

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# <sup>1</sup>Risk Factors Of Pregnancy Incidence Before 20 Years Old In Indonesia 2016

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## Abstract

Young age pregnancy is an important public health problem, due to its high association with mortality and morbidity for both mother and the child and also reflect the country's welfare. Teenage mother often have problems related to labor of postpartum period. Lack of knowledge can be caused by low education, which create barrier upon receiving message. Highly educated people tend to have more information, from other people as well as press, and they're also more open to new value compared to less educated people. Marriage below 20 years increase the odd of pregnancy before 20 years. Knowledge about contraceptives is crucial and related to Maturing Age of Marriage programe. Problems in Maturing Age of Marriage Programe willincrease pregnancy below 20 years rate. Descriptive analysis related to pregnancy risk factors below 20 years old is needed throughout Indonesia.

**Keywords:** Marriage age <20 years; contraceptives knowledge; pregnancy <20 years.

## Introduction

Chidren quality reflect country's welfare. Maternal and child mortality reflect people health status and welfare.<sup>1</sup> Based on the Indonesian Demographic and Health Survey 2012, maternal mortality rate associated with pregnancy and childbirth accounted for 259 per 100,000 live birth. Maternal factor that affects the health status of childrent and mothers is age during pregnancy and childbirth.<sup>2,3</sup>

Maternal age at the time of pregnancy affects the mother's pregnancy because it is related to the maturity of reproductive organs and mother's psychological condition to receive pregnancy. Young age pregnancy (less than 20 years) is one of 4T criteria of high risk pregnancy.<sup>4,5</sup>

Based on riskesdas (Basic National Health Research) 2013 on women aged 10-54 years, 2,6 percent first marriage occurs at age less than 15 years and 23,9 percent marriage at age 15-19 years.<sup>6</sup> the result of Indonesia Demographic and Health Survey in 2012, median age of first marriage of Indonesian women was 20,1 Years; while the Indonesian Demographic and Health Survey 2007 show the median age of first marriage was at the age 19,8 years and the result of the 2002-2003 Indonesian Demographic and Health Survey showed 19,2 years. This shows increasing trend of the median age of first marriage within the last 10 years although not yet in accordance with the expected target of 21 years.<sup>2</sup>

Early marriage that causes young pregnancy often occurs due to parents factor. They often think that girls is an economic burden and marriage is one of the attempt to maintain family life.<sup>7</sup> the younger the marriage age, the lower the level of education achieved by the child because of the responsibilities of being a wife expectant mother.<sup>8</sup> Teenager in rural areas are more likely to be mothers compared to urban area.<sup>2</sup>

Age Specific Fertility Rate (ASFR) for the age 15-19 years describes the number of pregnancies in adolescents age 15-19 year.<sup>3</sup> Result of the Indonesian Demographic and Health Survey 2012, ASFR for 15-19 years old were 48 per 1,000 women aged 15-19 years while the target expected in 2015 was 30 per 1,000 women aged 15-19 years.<sup>2</sup> Younger the marriage age means longer time span of reproduction.<sup>2</sup> Riskesdas 2013 showed the pregnancy rate at age less than 15 years old was 0,02 percent, while pregnancy rate in adolescence (15-19 years old) was 1,97 percent. Pregnancy regulation is crucial because it affects the fertility rate in Indonesia.<sup>2</sup>

Pregnancy below 20 years of age is influenced by education, contraceptive knowledge, contraceptive behavior, culture, adolescent/dating behavior, health care, provider an income. Teenager woment, at age of 15-19 years, responsible for 15 million birth each year. According to the date from Central Bureau of Statistics, teenager marriage rate in Indonesia was 8,8%. In developing country, 1 to 4,4 million teenager have a miscarriage; and most procedures are performed and childbirth are the leading cause of death between the ages of 15-19. Limited knowledge or limited access to health care systems was the leading factors for pregnancy complication.<sup>9</sup>

<sup>1</sup> Lack of knowledge can be caused by low education, which create barrier upon receiving message or information.<sup>10</sup> In the other hand, higher education means it easier the information.<sup>11</sup>

Date from Central Java showed that women who marriage before 21 years are 54,67%. The highest percentage of married before 21 years are in Rembang (72,17%). In the other hand, there are 13,82% man who married under 25 years, with highest percentage in Banjarnegara (23,59%). Underage marriage will lead to pregnancy under <21 years of age. This also happened in several provinces throughout Indonesia.

From date above, we decided to create a descriptive study to find risk factors related to high number of parity before 20 years old throughout Indonesia.

## Method

A descriptive, cross sectional study was conducted to describe several factors related to teenager pregnancy: maternal education, marriage age, contraceptive knowledge and the age of first childbirth.

Target population were Indonesian women who pregnant before 20 years old. The sampel of this study were 456,686 Indonesian women who were pregnant before 20 years 2016. Univariate and bivariate date analysis were provided in this

## Result and Discussions

Characteristics of Subject are shown in Tabel 1.

Tabel 1. Univariate analysis of education level, married age, contraceptive knowledge, first birth and pregnancy <20 years

<b>Variable</b>	<b>f</b>	<b>%</b>
<b>Educaton Level</b>		
No formal education	954	2,09
Elementary, nor graduate	0	0
Elementary, graduate	17.377	38,13
Junior High, nor graduate	0	0
Junior High, graduate	13.929	30,57
Senior High, nor graduate	0	0
Senior High, graduate	8.682	19,05
University / academy	4627	10,16
<b>Marriage age</b>		
20-35 years	26,907	59,05
<20 years	18,662	40,95
<b>Contraceptive Knowledge</b>		
No	116	0,25
Yes	45,453	99,75
<b>First Birth</b>		
20-35 years	33,429	73,36
<20 years	12,140	26,64
<b>Pregnancy &lt;20 years</b>		
No	33,429	73,36
Yes	12,140	26,64

Based on table 1.1, the highest education of Indonesian fertile women is elementary school (33,18%) and graduated from junior high school (30,57%). As many as 59,05% of sampel married at 20-35 years, and 99,75% of them know about contraception. there are 73,36% women who not pregnant before 20 years.

In our study, majority of childbearing age women have low education level, which consisted of primary school education and junior high school, 38,13% and 20,57% respectively. Unicef (2008) mentioned that factors contributing to teenager pregnancy are lack of education and information about sexual health especially from parents.

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