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Association between Maternal Complication of Labor and Early Neonatal Death in Indonesia 2007-2012

Neonatal Mortality Rate in Indonesia has not shown a significant decrease in the last decade. Early neonatal deaths contribute 80% of infant death in Indonesia. The incidence of maternal complication of labor has not

shown a significant decline in Indonesia and 40% of mother with children die within neonatal period with

complication of labor. Aims of this study to identify the association between maternal complication of labor and early neonatal mortality in Indonesia after controlling by socioeconomic, characteristics of the

mother, maternal complication of pregnancy and health services and also considering interaction variable.

We used case control design study, which national secondary data from Demographic Health Survey (DHS) of Indonesia in 2012 as the data source. The number of samples in this study is 90 cases and 360

controls. Cases are alive baby born who died in the seven first day of their live. While, the controls are baby, who still alive in the seven first day of live. The results indicates association between maternal complication of labor to early neonatal mortality, which maternal complication of labor and maternal complication of pregnancy as the interaction variable, OR = 1.2 (95% CI : 0.69, 2.08). The result showed

estimate OR for mothers with complications of labor and complication of pregnancy is 11.53 (95% CI : 1.29, 102.78). There was a significant association between labor complications and early neonatal mortality, which labor complication as interaction variable.

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