

**ABSTRACT****The Difference between Intrauterine Growth Restriction Cases based on Lubchenco Score and Ponderal Index on Newborn Baby with Early and Late Onset Severe Pre-eclampsia in Dr. Soetomo General Hospital Surabaya**Alvin Saputra<sup>1</sup>, Agus Sulistyono<sup>2</sup>, Risa Etika<sup>3</sup><sup>1</sup>Undergraduate student, Faculty of Medicine, Universitas Airlangga<sup>2</sup>Department of Obstetrics and Gynaecology, Dr. Soetomo General Hospital  
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**Background:** Maternal Mortality Rate in Indonesia was 359/100.000 live births, while the MDG's was 102/100.000 live births. Under-five years infant mortality rate in Indonesia was 40/1.000 live births, while the MDG's was 32/100.000 live births. The most common causes of maternal deaths in East Java and Surabaya was pre-eclampsia and for infant deaths in Indonesia was low birth weight / prematurity. Pre-eclampsia was a clinical syndrome defined as the new onset of hypertension and proteinuria during the second half period of pregnancy and it can be the risk factor of Intrauterine Growth Restriction (IUGR).

**Method:** This research used retrospective study which use secondary data collected from the medical records with total sampling methods. All of the severe pre-eclampsia pregnant woman that gave birth in Dr. Soetomo General Hospital Surabaya around January-June 2014.

**Results:** This research there were 69 pregnant women with severe pre-eclampsia, 25 were early and 44 were late onset. From the newborn baby, there were 18 IUGR's baby. From the analysis of the data by using Chi-square test, obtained  $p=0.249$ , so there was no statistically significant difference between the IUGR cases with the type of severe pre-eclampsia. Then the data analysis with samples of newborn baby with IUGR, obtained  $p=0.197$ , so there was no statistically significant difference between the type of IUGR with the type of severe pre-eclampsia.

**Conclusion:** There was not a difference between the IUGR cases with the type of severe preeclampsia according to previous theories.

**Keywords:** Severe pre-eclampsia, intrauterine growth restriction, lubchenco score, ponderal index