

**ABSTRACT**  
**Drug Utilization Study of Antenatal Corticosteroids**  
**In Preterm Birth**  
**(Study at Department of Obstetrics and Gynecology**  
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Preterm birth is defined as babies born before 37 weeks of gestation. It causes Respiratory Distress Syndrome (RDS), an acute lung disease related to immaturity of the lungs which caused by surfactant deficiency. Antenatal steroid treatment is recommended for prevention of RDS. This study was aimed to describe the utilization of Antenatal Corticosteroids including type, dose regimentation, route, time, duration of antenatal corticosteroid administration and drug related problem that possibly occur in corticosteroid antenatal therapy.

The method of this study was an observational retrospective study. The study was conducted at Medical Record Installation Dr. Soetomo Teaching Hospital Surabaya. The inclusion criteria were all women with preterm birth hospitalized in the period January 2013-December 2014 and accept the corticosteroid antenatal. The exclusion criteria were all women with HELLP Syndrome. The data obtained will be analyzed descriptively.

The type of corticosteroid used in this study was dexamethasone (100%). The administration route of dexamethasone were intravenous (70.73%) and intramuscular (23.18%). The dose regimentation were dexamethasone 16 mg every 24 h during 48 h intravenously (68.29%), dexamethasone 6 mg every 12 h during 48 h intramuscularly (18.30% ) and dexamethasone 4 mg every 12 h during 48 h intramuscularly (3.66%) and also there were found the dose in medical record that was written on ampule, 2 ampule every 12 h during 48 h intramuscularly (1.22%) and 4 ampule every 24 h during 48 h intravenously (2.44%). While, most of all patients received dexamethasone in 28-34 weeks of gestation (90.24%). Not all patients in this study received dexamethasone for 48 h (48.05%). The time between administration of dexamethasone and delivery in this study less than 7 days (85.71%).

**Keywords:** preterm birth, antenatal corticosteroid, dexamethasone