ANALYSIS ON FACTORS OF BLOOD CONDITIONS OF PREGNANT WOMENS AFFECTING DELAY OF BABY BIRTH USING SURVIVAL PARAMETRIC AND SEMI PARAMETRIC ANALYSIS

(Case Study: Length of Delay in Birth of a Baby from the Estimated Day of Birth (HPL) in PKU Muhammadiyah Bantul Hospital for the period January-May 2018)

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ABSTRACT

Pregnant women who experience delays in the birth of a baby from HPL have a risk of miscarriage or the fetus dies shortly after birth. The purpose of this study was to determine the factors of the blood condition of pregnant women that affect the delay in delivery time from HPL. The data used are secondary medical record data from the last blood examination of pregnant women before labor in PKU Muhammadiyah Hospital, Bantul period January-May 2018. The method used in this study is Log-logistic survival regression, Weibull survival regression and Cox regression. The results of this study indicate that the delay in giving birth from HPL is influenced by two factors in the blood condition of pregnant women at PKU Muhammadiyah Hospital in Bantul, namely Hemoglobin and Hematocrit levels. The AIC value for each regression model shows that the model from Cox regression is best because it has the smallest AIC value of 116,3821.

Keywords: Pregnancy, HPL, Cox Regression, AIC