***ABSTRACT***

*The interaction between the health conditions of pregnant women with the ability of birth attendants is crucial to the outcome of labor, namely death or survival. Medically, the classic causes of maternal death from childbirth are bleeding, infection and eclampsia (pregnancy poisoning). Problems In Gorontalo City itself the mortality rate of pregnant women during childbirth is quite high, according to data from the Gorontalo Province health profile in 2013 as many as 15 women giving birth due to childbirth or 32.61%, this figure is the highest among 5 districts and cities. In this research, the solution of the problem above is by applying fuzzy logic to predict maternal labor. The variables in this study are based on the Republic of Indonesia Ministry of Health, 2013. Age / Age Variables (Teen if <19 years, Adults 17-25 years and Old> 23), Height (Short if <145cm, Medium if 140-160cm and Height 155 -170cm), Body Weight (Normal if 45-65 and Weight if> 65), Blood Pressure (Low if 60 / 40mm / hg, Normal if 120/80 mm / hg and Height if 160/100 mm / hg), amount hemoglobin (Normal if Hb> 11%, Mild if Hb 8-11 and Severe if Hb <8%).*

*Keywords: Fuzzy Logic, Prediction, Childbirth, White Box Testing, Black Box Testing.*