FACTORS THAT INFLUENCE EXCLUSIVE BREAST FEEDING ON POOR HOUSEHOLD IN SULAWESI TENGAH PROVINCE USING MARS BAGGING

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ABSTRACT

Breast feeding is very important for babies especially on poor household, therefore this research wants to know the social factors that influence exclusive breast feeding on poor household in Sulawesi Tengah Province and also to model them using MARS and MARS Bagging. This research also wants to compare those two models which one is better in modelling the exclusive breast feeding on poor household.

The MARS best model best with FB = 24, MI = 3 and MO = 10 and the GCV result in 3,342 and the significant variables are six, they are mother’s age, the age of mother when she first got married, mother’s education, mother’s working status, number of living born children, and father’s education. For the same value of FB, MI and MO the resulting significant variables using MARS Bagging gives GCV for 3,270. This result show that MARS Bagging is better than MARS compared from their MSE. MSE for MARS Bagging is 2,670 which is lower than MSE for MARS 3,153.

Keywords : MARS, Bagging, Exclusive Breast Feeding, Poor Household.