

ABSTRACT

Regression Analysis with Moderator Variables

(Modeling the factors that affect duration use of contraceptives)

The purpose of this study is to compare the modeling of factors affecting duration of use of contraceptives with access to family planning services, moderator variables using regression analysis between the method and the method of sub-group interaction.

Analytical results obtained by the method of interaction model as follows:

$$\hat{Y} = 23,058 + 1,993 \text{ age} - 10,827 \text{ parity} - 2,325 \text{ age at first marriage} + 0,001$$

The results of multiple regression analysis with the method of interaction suggests that there is only one significant independent variable in the model and the age. Age a woman of childbearing age (WUS) influence in the desire to use contraceptives. The younger the age of the WUS, the greater the desire to use contraceptives. This is related to the possibility of having more children associated with their reproductive age.

The conclusion of this study is there are advantages of the method of interaction. Regression analysis by the method of interaction can be seen that the variable is moderated by variables that were hypothesized to be a moderator variable., In this study is the variable age. Besides interaction method is a method frequently used in the regression analysis with the moderator variable due to the more practical step analysis. There needs to be an appropriate method of analysis in accordance with the objectives

Keyword : Regression analysis with moderator variables, methods of interaction, methods subgroups, duration use of contraceptives