

ABSTRACT

The Influence of giving rice bran in changing the total cholesterol level (Case Study on Hypercholesterolemia-Sprague Dawley Rats), Fendi Sulistiyono. B4110285, Year 2014, Clinic Nutrition, Politeknik Negeri Jember, Ir. Rindiani, MP (Counselor I) and Puspito Arum, S.Gz. M. Gizi (Counselor II).

Hypercholesterolemia is a cause factor for cardiovascular disease, it is become the caused of death in the world. Rice bran contains fiber that usefull for decrease the total cholesterol level by binding bile acids. The purpose of this study is to analyze the influence of giving rice bran in changes the total cholesterol level in hypercholesterolemia- sprague Dawley rats. This research using true experimental use pre – test post – test with control group design. The sample is Sprague Dawley rats with range age 2 to 3 month, the sample has induced by high-fat diet so does the rice bran. The dosege of the rice bran is 7,4 gr, 8,3 gr and 9 gr/200 BW each rat for 28 days. The total cholesterol levels checked by GOD-POD method. The data analyzed with *Paired-T-test*, *One Way Anova* then LSD test. There is a changes in total cholesterol level before the treatment. The difference can be seen by giving $p < 0,05$ rice bran/200gr BW each rats. The first group which given with 7,4 gr rice bran could mabe the totaly cholesterol level on rats decreased 6,6%. The second group, which given with 8,3 gr rice bran could mabe the totaly cholesterol level on rats decreased 8,1%. The third group, with 9 gr rice bran could mabe the totaly cholesterol level on rats decreased 8,6%.

Keywords: Rice bran, total cholesterol levels and hypercholesterolemia