

ABSTRACT

Effect of Commercial Mangosteen Peel Extract Xanthone Plus the Decrease in Total Cholesterol Mice Hypercholesterolemik; Aris Rusmila Devi; B4109082; 66 Pages; Clinical Nutrition; Department of Health; Polytechnic of Jember

Antioxidants in mangosteen peel extract reacts with free radicals by reducing the concentration of oxygen, preventing the formation of reactive singlet oxygen, preventing the initiation of the first chain to capture the primary radicals such as hydroxyl radicals, metal ions bind catalysts, decomposing primary products of radical into a non-radical compounds , and break the chain of hydroperoxide (Shahidi, 1997). The purpose of this study is to determine the effect of mangosteen peel extract commercial xanthone plus the decrease in total blood cholesterol levels of mice hypercholesterolemik and to determine levels of total cholesterol mice prior to administration of mangosteen peel extract, As Well to determine levels of blood cholesterol mice after administration of mangosteen peel extract and analyze differences in total cholesterol mice respectively - each treatment group. laboratory experimental research. The design used was a test Pre And Post-test only control group design. Research sampling is purposive sampling. A total of 24 white mice with male mice criteria, healthy and have normal activities, unmarried, aged approximately 2-3 months weighing approximately 20-30 grams. Subjects were divided into 4 groups randomly, each group consisted of 6 mice. From the analysis of the T Test Test before and after treatment values obtained $P = 0.001$ P value of <0.05 , which means that there is a significant difference in cholesterol levels between the four treatment groups. mangosteen peel extract is effective in lowering the blood cholesterol levels of mice compared with before treatment is given.

Keywords: Skin Mangosteen Extract, Cholesterol, Mangostin