SERUM TRIGLYCERIDES OF RATS (*Rattus norvegicus*) CONSUMED OF TRANS FATTY ACID FROM MARGARINE AND SHORTENING

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ABSTRACT

The aim of this research was to investigate the effect of trans fatty acids consumed from margarine and shortening on serum triglycerides of rats (*Rattus norvegicus*). This study was conducted in twenty-five rats (*Rattus norvegicus*) and randomly divided into five experimental groups. P0 was the control group, no margarine and shortening, the treatment group (P1) was consumption of 1.2 g/day margarine, the treatment group (P2) was consumption of 1.8 g/day margarine, the treatment group (P3) was consumption of 1.2 g/day shortening, and the treatment group (P4) was consumption of 1.8 g/day shortening. After eight weeks consumption period, blood samples of rats (*Rattus norvegicus*) were taken and serum triglycerides measured by GPO-PAP test method. Statistical analyses were done through ANOVA (Analysis of Variance) using SPSS 20 for Windows. The result revealed in the treatment group (P1), (P2), (P3), and (P4) were not affected that serum triglycerides of rats (*Rattus norvegicus*) compare to control group (P0) (P>0.05).

Key words: Trans Fatty Acid, Margarine, Shortening, Triglycerides