

# ***Trans* Fatty Acids Effect on Some Serum Enzymes and Immunological Parameters in Wistar Albino Rats**

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The effect of *trans* fatty acids on some serum enzymes and immunological parameters in male albino Wistar rats was evaluated in this study. Fifty (50) male Wistar albino rats weighing between 100-140g were divided into five groups of ten rats each. The test groups were fed (15% and 25% *trans* fatty acids) respectively using margarine and thermoxidised palm oil as sources while the control received pelletized grower's feed. The experiment lasted for eight (8) weeks after which the animals were sacrificed and sera collected for analyses. Results showed significant decrease/increase in levels of alanine aminotransferase (ALT) and aspartate aminotransferase (AST) respectively. CD4+ levels and basophils count were increased in the test groups except group 3 compared to the control. Lymphocytes showed significant decreases ( $P < 0.05$ ) in the test groups except group 3 compared to the control. Our findings did not reveal probable hepatotoxic effect and decreased immunity on consumption of *trans* fatty acids.

Keywords: Immunological parameters, serum enzymes, Wistar rats and *trans* fatty acids.

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