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• Orthodontic treatment with skeletal anchorage system • Relieving idiopathic dental pain without drugs
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The activity of Stichopus hermanii extract on triglyceride serum level in periodontitis

Abstract

Background: The level of triglyceride can be used as a parameter of hypercholesterolemia. Periodontitis can make the condition of hypercholesterolemia worse. Stichopus hermanii extract is a source of saturated fatty acid containing omega-3 which can decrease triglyceride blood level. Purpose: The aim of this research was to investigate the effect of Stichopus hermanii extract in triglyceride blood level of wistar rats which got periodontitis. Methods: The samples of this research were 30 rats divided into 5 groups, namely group K(−) as negative control group (without treatment), group K(+) as positive control group (induced with periodontopathogen mix), group P1 as treatment group1 (induced with periodontopathogen and Stichopus hermanii extract mix, 0.09 ml/kgW), Group P2 (induced with periodontopathogen and Stichopus hermanii extract mix, 0.18 ml/kgW), and group P3 (induced with periodontopathogen and Stichopus hermanii extract mix, 0.36 ml/kgW). Then, all of those rats were sacrificed and all serum was measured for their level of triglyceride. Results: All data was analyzed with ANOVA test showing a significant result. LSD test showed a significant different between group K(−) and group K(+), and between group K(+) and group P2 and P3. Conclusion: Stichopus hermanii extract can decrease the triglyceride blood level in wistar rats with periodontitis.

Keyword : Hypercholesterolemia, triglyceride, Stichopus, hermanii, extract, periodontitis, omega-3,

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