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## Acute and subacute toxicity of *Detarium senegalensis* seed oil extract on Wistar albino rat

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The study examined about the acute toxicity and subacute toxicity effect of *D. senegalensis* seed oil on the antioxidant parameter, histology and hematological parameters of the organs of Wistar albino rat and Swiss albino mice respectively. The LD50 of the drug could not be calculated as any of the mice die during the administration. Significant reduction in body weight was observed in the group treated with 750mg/kg dose of the extract at the third week of administration ( $p < 0.05$ ). There was a nonsignificant reduction in plasma protein and creatinine level while Aspartate Aminotransferase (AST) and Alanine Aminotransferase (ALT) showed a reduction but increased significantly at the highest dose of the extract ( $p < 0.05$ ). The levels of high and low-density cholesterol were not affected compared with the control. The hemoglobin, white blood cells and packed cell volume increased in treated animals compared to the control. The result on the effect of the extract on antioxidant parameters showed a significant increase in activity of enzymatic antioxidant compared to the control group. From the LD50, there was a clear indication that the extract is safe for use and the extract did not induce any toxic effects on the organs of the induced rats (liver and kidney).

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