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Effects of Sea Cucumber *Stichopus japonicus* on Lipid Metabolism in Ovariectomized Rats

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This study was carried out to investigate the inhibitory effects of Sea cucumber *Stichopus japonicus* uronic acid (SJU) on lipid metabolism in ovariectomized rats. SJU (100 mg/kg) was intraperitoneally administered into rats for 2 weeks. We examined the lipid parameters by measuring the levels of total cholesterol, triglyceride (TG), HDL-cholesterol, LDL-cholesterol in serum, and Malonedialdehyde (MDA) in liver tissue of rats. Total cholesterol was significantly elevated in ovariectomized control (OXC) group. The higher level of HDL-cholesterol was found in SJU-administered and ovariectomized (SUX) group, but this group showed the lower levels of total cholesterol and LDL-cholesterol. TG content in SUX was inhibited by 80.17% compared to OXC group. The results suggested that SJU could be used as supplementary material to improve the blood circulation in the lipid metabolism.

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