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Anti-cholesterol activity, *in vivo* test and the toxicity test of multifunction herbs**Dewi Tristantini and Diana Christina**

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Atherosclerosis is the hardening of the arteries due to cholesterol accumulation in the blood vessels. The occurrence of cardiovascular disease can be reduced by lowering cholesterol levels in the blood. But, using some pharmaceutical synthetic medicine for lowering the cholesterol has several side effects that are dangerous for human body. There are 3 plants, tanjung leaf (*Mimusops elengi* L.), star fruit leaf (*Averrhoa carambola* L.), and curcuma (*Curcuma xanthorrhiza* L.), which are combined empirically believed would serve as a multifunction herbs. According to Tristantini et al., 2015, tanjung leaf have antioxidant, anti-cholesterol and anti-platelet activity, also star fruit leaf have anti-hyperglycemia activity. Furthermore, curcuma has been known as a hepatoprotector agent. In this study, the combination of all three will be used as anti-cholesterol. Anti-cholesterol activity test by *in vivo* method using mice (*Mus musculus* L.) results in decreasing cholesterol as much as 46.5% for 250 mL dosage in 7 days. This performance equals to 73% of Simvastatin activity in decreasing cholesterol. The toxicity test by Brine Shrimp Lethality Test (BSLT) method shows that the herbs extract does not have toxic effect with LC50 3865,6 µg/mL. That means this herbs extract can be used as natural anti-cholesterol agent and safe to be consumed.

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