

ABSTRACT

INFLUENCE OF GIVING ETHANOL EXTRACT OF MANGOSTEEN RIND (*Garcinia mangostana* Linn.) TO SGOT AND SGPT IN WHITE MALE RAT (*Rattus novergicus*) STRAIN *Sprague dawley* INDUCED ELECTROMAGNETIC WAVE CHRONICLEPERIOD

By

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Mobile phone users in Indonesia continues to increase every year it has potential to cause damage to the liver characterized by elevated levels of SGOT and SGPT. Mangosteen rind which acts as an antioxidant that is high enough that xanton can capture free radicals caused by exposure to electromagnetic waves mobile phones. The result showed SGOT activity in K1 group average of 35.028 UI/L, whereas in the group K2, increased SGOT activity amounted to 50.366 UI/L. The treatment group P1, P2 and P3 by the ethanol extract of mangosteenrind dose of 50 mg/kgBB, 100 mg/kgBB, and 200 mg/kgBB mean SGOT activity 49.088 UI/L, 46.41 UI/L and 42.206 UI/L. On the activity of SGPT in group K1 average of 24.416 UI/L, whereas the K2 group given exposure to electromagnetic waves at 38.214 UI/L. The treatment group P1, P2 and P3 by the ethanol extract of mangosteenrind dose of 50 mg/kgBB, 100 mg/kgBB, and 200 mg/kgBB mean SGPT activity of 37.062 UI/L, 31.956 UI/L and 26,300 UI/L. The results showed significant differences in results ($p < 0.05$) at a dose of 200 mg/kgBB both SGOT and SGPT. It indicate that the ethanol extract of mangosteen rind have benefits in reducing the levels of SGOT and SGPT.

Keyword: Mangosteen rind, phone, SGOT and SGPT