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**Antipyretic effects of soursop leave extract (*Annona muricata L.*) on rats****Yos Banne, Elisabeth N Barung, Juyta and Jovie M Dumanauw**

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Soursop plant can be used as a traditional medicine. The leaves empirically used to reduce fever due to its content of flavonoids. This study aimed to examine the antipyretic effect of soursop leaves extract (*Annona muricata L.*) on rats (*Rattus norvegicus*). This is an experimental research with pretest and posttest design with a control group. Soursop leaves extracted by maceration method using ethanol to produce a viscous extract. White rats were divided into 3 groups; each group consists of 5 rats. The body temperature of rats was measured as the initial temperature ( $t_0$ ). Rats then induced with 10% peptone to increase body temperature and then measured ( $t_n$ ). Group-1 was treated with soursop leaves extract, the second group was given Paracetamol suspension as the positive control and the third group was given Na CMC as the negative control. The body temperature of rats measured at hours 1, 2, 3 and 4 ( $t_1$ ,  $t_2$ ,  $t_3$ , and  $t_4$ ). Data were statistically analyzed using one-way ANOVA tests with a significance level of 0.05. The result showed a significant value  $0.000 < 0.05$ , so it can be concluded that the soursop leaves extract (*Annona muricata L.*) has the antipyretic effect on rats (*Rattus norvegicus*). Further studies need to explore such a study of the side effect and toxic effect of the soursop leaves.

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