ABSTRACT

Fever is a body temperature increasing above normal. Fever is not a disease. Most people with fever often consume drugs such as paracetamol for fever which have antipyretic substances. However, these drugs also quite a lot of side effects. In turmeric (Curcuma domestica) there is eugenol which functioned as anti-perelic substance.

The research purpose is to prove that turmeric rhizome essence (Curcuma domestica) could influence the temperature reduction in white rat and to determine the concentration of the most effectif in lowering body temperature in white rats.

The research used true experiment with post-test only control group design. 28 white rats divided into 7 groups. First (Al) was given DPT vaccine and turmeric essence with 1 gr/grBB dose, second group (A2) was given DPT vaccine and turmeric essence with 1,2 gr/grBB dose, third group (A3) was given DPT vaccine and turmeric essence with 1,6 gr/grBB dose, fourth group (A4) was given DPT vaccine and turmeric essence with 2 gr/grBB dose, fifth group (A5) was given DPT vaccine and turmeric essence with 2,4 gr/grBB dose, sixth group (A6) was given DPT vaccine only, seventh group (A 7) was given DPT vaccine and paracetamol with 0,2 mg/grBB dose. All data were analyzed with normality assumption, one-way anava homogeneity, and duncan’s test.

The average temperature reduction result were A1.1, 23 °C, A2.1, SS °C. A3.1, 78 °C, A4.1,70 °C, A5.1,83 °C, A6.0,35 °C, A7. 1,53 °C. Average in A5 treatment has real difference with A7 treatment, which was white rat group with fever and given paracetamol with 0,2 mg/grBB dose with average value 1,53 as positive control and as anti-pyretic. A3, A4, A5 treatment could decrease body temperature effectively. It proved that turmeric could influence the temperature reduction in white rat.