

THE EFFECT OF SENSITIVE PLANT (*Mimosa pudica*) ROOT EXTRACT ON MORTALITY AND MUSCLE HISTOPATOLOGICAL EFFECT IN RAT (*Rattus norvegicus*) INJECTED BY *Naja sputatrix* VENOM

Briantono Willy Rendragraha

ABSTRACT

The purpose of this experiment was to know the effect of *Mimosa pudica* root extract (normal water extraction) on mortality and muscle histopatological in experimental animal (*Rattus norvegicus*) which injected with LD₅₀ of *Naja sputatrix* venom. Fresh *Mimosa pudica* root dried without sunshine and ground into coarse powder with steamroller (mash 3mm). Plant extract were prepared by stirring 4 g of the powder into 200 ml of water for 3 hours at room temperature and filtered with muslin cloth before freezdried. 30 rat divided into five groups, P0(C+), P1(C-) P2, P3, and P4. P0 (positive control group) injected by saline intra muscular and given aquadest peroral after five minutes, P1 (negative control) injected with *Naja sputatrix* venom and given aquadest peroral after five minutes. P2, P3, and P4 injected by *Naja sputatrix* venom and given *Mimosa pudica* extract with 250mg/KgBW, 500mg/KgBW, and 1000mg/KgBW doses. All of the experimental animal observed about six hours and than euthanized, *musculus gluteus maximus* (location of injection) was taken for histopatological examination. In this experiment observed that the normal water extraction of *mimosa pudica* can't reduce mortality of experimental animals but it can decrease muscle damage in 1000mg/KgBW dose.

Key words: *Mimosa pudica*, *Naja sputatrix*, snakebite