THE EFFECT OF ENDOSULFAN ON HISTOPATHOLOGICAL CHANGES OF *Mus musculus* LUNG

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ABSTRACT

The aim of this research was to know histopathological changes of lung mice (*Mus musculus*) caused by Endosulfan. Twenty male mice with 20 gram bodyweight, were adapted for seven days and divided into four groups. Per-oral exposure using single dose of endosulfan for each treatment. On day eight each group (P0, P1, P2, P3) were treated with no endosulfan, 6.25mg, 12.5mg and P3 25mg/KgBW/1ml/oral of endosulfan. On the tenth day, necropsy was done by collecting the lung and did histopathology slide. The research design was Post Test Only Control Group Design. Data was analyzed using Kruskal-Wallis test, the result showed there were significant difference (P<0.05) and was continued with Mann-Whitney test. The result showed that endosulfan caused histopathological changes of lung mice such as congestion, hemorrhage, emphysema, and inflammation. The highest dose 25mg/KgBW can cause the highest lung damage and even death. The medium dose can cause average lung damage. The lowest dose 6,25mg/KgBB can cause the lowest lung damage.

*Keyword*: Endosulfan, Lung Histopathology, Mice.