

**Pengaruh Pemberian Ekstrak Daun Pandan Wangi (*Pandanus amaryllifolius*) terhadap Penurunan Kadar Glukosa Darah Mencit (*Mus musculus*) yang Diinduksi Streptozooocin**

***The Effect of Fragrant Pandan Leaf Extract (*Pandanus amaryllifolius*) to Blood Glucose Levels Decrease in Streptozotocin Induced Mice (*Mus musculus*)***

**ABSTRACT**

**Background:** Diabetes mellitus (DM) is a metabolic disease with the increase of prevalence continuously from year to year. Diabetes mellitus arises due to abnormal glucose metabolism and is one of the degenerative disease, diabetes mellitus occurs impaired metabolism of carbohydrates, fats and proteins and characterized by hyperglycemia (high blood glucose levels) and the presence of glucose in the urine (glucosuria). People with diabetes should be aware of injury because it would be difficult to recover so the risk of infection will be greater than those who did not have diabetes mellitus. One of the herbal ingredients used in Indonesia as an alternative medicines is fragrant pandan leaves. This fragrant pandan leaves contain polyphenols, flavonoids, saponins, and alkaloids astiri oils which are supposed to decrease the blood glucose levels **Purpose:** To determine the effect of the fragrant pandan leaves extract to decrease the blood glucose levels. **Methods:** The whole research samples divided into five groups. Group 1 is negative control, group 2 is positive control, group 3 was given 22,5% of extract concentration, group 4 was given 45% of extract concentration and group 5 was given 90% of extract concentration of fragrant pandan leaves. All the groups had been induced by streptozotocin intraperitoneally before being given by the extract in order to increase the blood glucose level. **Results:** Fragrant pandan leaves extract with concentration of 22,5%, 45% and 90% can decrease blood glucose levels on mice. **Conclusion:** Group which given 90% concentration of fragrant pandan leaves extract shows the most significant decrease of blood glucose levels on mice

**Keywords :** fragrant pandan leaves extract, diabetes mellitus, blood glucose levels, streptozotocin