

POTENCY OF GIVING ETANOL EXTRACT OF TABLE MUSHROOMS (*Agaricus bisporus*) ON BLOOD GLUCOSE LEVELS OF WISTAR STRAIN (*Rattus norvegicus*) DM MODELS GIVEN ALOKSAN

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ABSTRACT

Background : Uncontrolled increase in blood glucose levels can contribute to metabolic disorders. Blood glucose is considered abnormal if the level is less or exceeds the reference value. The glucose reference value is in the range 60-110 mg / dl. Too high blood glucose levels are called hyperglycemia. Taking (*Agaricus bisporus*) white button mushroom extract which contains lots of vitamin D, nutrients and fiber can reduce blood glucose levels.

Objective : To find out whether there is an effect of vitamin D contained in the white button mushroom of (*Agaricus bisporus*) on decreasing blood glucose levels in DM model mice induced by alloxan.

Method : This study is a quasi-experimental study using pre and post controlled group design research designs. Before conducting the research, the experimental animals will be checked first (*pre test*), then after treatment, (P1, P2 and P3) will be checked again (*post test*) to find out the effect of (*Agaricus bisporus*) ethanol extract during the time determined. The data obtained were analyzed using the *Wilcoxon* test.

Results : On giving for 1 week button mushroom ethanol extract dose of 300 mg / kg / BB gives a decrease of 17.2%, a dose of 400 mg / kg / BB can reduce 54% and 500 mg / kg / BB can reduce 32.6%.

Conclusion : There is the effect of (*Agaricus bisporus*) extract on the reduction of glucose levels in male wistar rats induced by alloxan. The best effect is found in the extract at a dose of 400 mg / kg / BB.

Keywords : Blood Glucose, White Button Mushroom Extract (*Agaricus bisporus*)
Hyperglycemic