

## ABSTRACT

Syaini, Muhammad. 2013. **Influence of Bitter Melon (*Momordica Charantia L*) Juice Giving Against Blood Sugar During declines White Rat (*Rattus Norvegicus*) Hiperglikemik**. Final Project, Department of Health State Polytechnic Of Jember. Commission Advisor Chairman: dr. Arisanty Nur Setia Restuti , Members: Ir. Heri Warsito, MP

Bitter melon is included in the species of plants *Momordica charantia* that have hypoglycemic effect. Charantin stimulate pancreas beta cells to produce more insulin .. This study aims to determine the effect of giving bitter melon juice blood sugar levels when white rats (*Rattus norvegicus L*) hiperglikemik. Experimental studies of this nature with Control Group Laboratorik And pretest posttest design. Sample of this study is Galur Wistar rats aged white male 3-4 months given aloksan for 3 days, on the 18th day of the inspection performed blood sugar levels during the pre test, then on the 19th day of bitter melon juice given for 14 days (n = 25). Sample is divided into five standards of conduct that is the positive control (P), cluster hiperglikemik rats+ bitter meoln juice 0.9 ml dose (P1), the hiperglikemic rats cluster + bitter melon juice 1.35 ml dose (P2), cluster hiperglikemik rats + bittr melon juice 1.8 ml dose (P3) and cluster hiperglikemik rats + antidiabetic drug glibenclamide 0.064 mg (P4). At the end of the study, performed checks blood sugar levels during the post test. Data from the present study using One Way ANOVA statistical test that shows that giving pare fruit juice on white mice hiperglikemik give a significant effect at a dose of 1.35 ml antidiabetic drug glibenclamide comparable with 0.064 mg to decrease blood sugar levels during (p <0.05 ). The conclusion from this study is able to bitter melon juice to lower blood sugar while, but still in the stage of diabetes.

Keywords: bitter melon juice, hiperglikemik rats, blood sugar levels