

ABSTRACT

THE INFLUENCE OF GIVING 95% ETHANOLIC EXTRACT OF CABE JAWA (*Piper retrofractum* Vahl.) TO THE LOW DENSITY LIPOPROTEIN LEVEL OF THE MALE RATS FROM *SPRAGUE DAWLEY* STRAIN THAT INDUCED BY HIGH FAT DIET

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Ischemic heart disease is the major cause of death in Indonesia, the prevalence of death that caused by ischemic heart disease is about 15% (CDC,2012). Ischemic heart disease is related with dyslipidemia (Tomkin, 2012). One of the major cause of dyslipidemia is the increase of *Low Density Lipoprotein* (LDL) cholesterol level. The treatment of dyslipidemia is not satisfying nowadays. There are some side effects that can caused by the use of dyslipidemic agents such as the statin drugs. It is not only cardiotoxic but also hepatotoxic.

Cabe jawa (*Piper retfrofractum* Vahl.) has a potency to decrease the LDL level. This research is aimed to know the influence of giving 95% ethanolic extract of Cabe Jawa (*Piper retfrofractum* Vahl.) to the LDL serum level of the white male rats (*Rattus novergicus*) from *Sprague-Dawley* strain that induced by high fat diet.

This is an experimental research with Post Test Only Control Group Design. The subjects are 21 *Sprague Dawley* rats. There are group A (standard diet), group B (high fat diet), and group C (high fat diet plus cabe jawa extract). This experiment is given for 8 weeks. From the results, there are LDL level of group A ($17,29 \pm 2,49$), LDL level of group B ($122,29 \pm 5,31$), and LDL level of group C ($67,71 \pm 11,68$). The normality test that used is Shapiro-wilk ($p > 0,05$) with a homogen variance ($p > 0,05$). The datas are analyzed by oneway ANOVA test with $p < 0,001$. This test then continued with Bonferroni posthoc test, it results a good difference between all groups with $p < 0,001$. Base on these results we can conclude that there is an influence of giving 95% ethanolic extract of Cabe Jawa (*Piper retrofractum* Vahl.) to the LDL serum level of the white male rats (*Rattus novergicus*) from *Sprague-Dawley* strain that induced by high fat diet

Key words: Cabe jawa, high fat diet, ldl.