

EFFECT OF EGGPLANT (*Solanum melongena* L.) POWDER TO THE HISTOPATHOLOGY OF CORONARY ARTERY IN WHITE RAT (*Rattus norvegicus*) WITH A HIGH FAT DIET

Dhikri Lailatul Mufidah

ABSTRACT

Cardiovascular disease caused by atherosclerosis is the main cause of death in the world. One of the news strategies of atherosclerosis prevention is antioxidants consumption. Nasunin including flavonoid in the *Solanum melongena* L. is known for its antioxidant effect. The aims of this study reveals to demonstrate the effect of *Solanum melongena* L. powder in various doses to histopathological of the regenerate atherosclerotic lesions and preventing density wall of coronary artery in male rats (*Rattus norvegicus*) with high fat diet for 35 days. Rats were divided into 5 groups with complete random design methods where group K- (normal feed), K+ (high fat diet), P1 (high fat diet + 18g/200gBB of *Solanum melongena* L. powder), P2 (high fat diet + 36g/200gBB of *Solanum melongena* L. powder), P3 (high fat diet + 72g/200gBB of *Solanum melongena* L. powder). The data was analyzed by using ANOVA and continued by Tukey testing. The result of this study showed that the *Solanum melongena* L. powder had effect to histopathological of the regenerate atherosclerotic lesions and preventing density wall of coronary artery in male rats (*Rattus norvegicus*) with high fat diet, by the optimum result ($p < 0,05$) in 72g/200gBB concentrate.

Keywords: Atherosclerosis, *Solanum melongena* L., Histopathology of Coronary artery.