TUMOR NECROSIS FACTOR ALFA (TNF-α) ANALYSIS OF VITAMIN E ANTIOXIDANT SUPLEMENTATION ON STRESSED RATS (*Rattus norvegicus*)

Dian Vidiastuti

ABSTRACT

Stress oxidative and inflammation has important role in the development of the systemic complication and endothel disfunction. TNF- α as the inflamation cytokine will be increase on tissue injury. The aim of this study was to examine the effect of vitamin E supplementation on OD values of TNF- α in stressed rats. 21 male rats were divided into three groups and received the treatments for 14 days. TNF- α was analyzed by Indirect ELISA. The third group received dose 400 IU vitamin E orally showed decrease in TNF- α level (1,196 ng/ μ l) but there were no significantly between the treatments (p>0,05).

Key words: Stress, TNF-α, vitamin E, Indirect ELISA