

**ABSTRACT**

**The Effect of Mungbean Sprouts Extract To The Result Of The Analysis Spermatozoa In Mice Exposed Monosodium Glutamate (MSG)**

Background: Infertility in men is caused by many factors, one of which is a result of free radicals. Monosodium Glutamate is a food additive that is used for flavoring food but MSG has the effect of free radicals when usage exceeds normal limits. Mungbean sprouts are natural antioxidants because it contains vitamin E, vitamin C and zinc. They have an important role in reducing the negative effect from MSG. Objective : This study aimed to analyze the effect of mungbean sprouts extract to the result of the analysis spermatozoa in mice exposed MSG. Method : This research used true experimental design with post test only control group design. Thirty male mice divided into five groups : control negatif, control positif (MSG 4 mg/g BB), P1 (MSG 4 mg/g BB + 108 mg ekstrak), P2 (MSG 4 mg/g BB + 216 mg ekstrak) and P3 (MSG 4 mg/g BB + 432 mg ekstrak). Data were analyzed with one way Anova and followed by Duncan. Result : The results showed that the extract of mungbean sprouts can increase the count number of spermatozoa, the percentage of morphology, viability and motility of spermatozoa. Conclusion : From this research can be concluded that with 108 mg, 216 mg and 432 mg mungbean sprout extract can increase the count number spermatozoa, correct abnormality morphology spermatozoa, increase motility and the percentage of live spermatozoa. However, at a dose of 216 mg has the same effect at a dose of 108 mg and 432 mg in an increase in the number of spermatozoa in mice

Keywords : Infertility, Monosodium Glutamate (MSG), Mungbean Sprouts Extract, Analysis Spermatozoa.