Spermatozoa recovery Mice (Mus musculus L.) with Vitamin C after Giving Water Seed Extract Papaya (Carica papaya L.) and Testosterone Undekanoat (TU)

**ABSTRACT**

Water extract of papaya seeds and testosterone undecanoate (TU) resulted in decreased quality and quantity of spermatozoa. Decrease in the quality and quantity of spermatozoa can be restored by administering Vitamin C. The research "Recovery Spermatozoa Mice (Mus musculus L.) with Vitamin C after Giving Water Seed Extract Papaya (Carica papaya L.) and Testosterone Undekanoat (TU)" using male mice (Mus musculus L.) grown fertile ± 3-month-old body weight 25-30 grams were 70 mices are divided into 7 treatment groups and 7 control groups, with five adult male mice of respectively. Groups 1-5 (K0P0-K4P4) is a control group or treatment by giving water extract of papaya seeds 30mg/0.5ml/oral/day/mice and testosterone undecanoate 0.1ml/mice every 6 weeks via intramuscular. The recovery process performed in group 5-7 are given Vitamin C 0.1 mg/oral/day/mice. Surgery is carried out every six weeks by the neck dislocation. Examination of spermatozoa using the Improved Neubauer counting room and light microscopy. The result obtained were tested statistically using *SPSS release 13*. Vitamin C increased number, motility, morphology of spermatozoa significantly (p<0,05) and viability of spermatozoa tend to increased unsignificantly (p>0,05). This suggests that administration of Vitamin C 0.1 mg/oral/day/mice that able to restore the state of spermatozoa both in quality and quantity.

**Key words**: Vitamin C, spermatozoa, the water extract of papaya seeds, Testosterone Undekanoat (TU)