



# Medical and Health Science Journal

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## Medical and Health Science Journal

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## THE DIFFERENT EFFECTS OF ZINC SUPPLEMENT AND VELVET BEAN MUCUNA PRURIENS EXTRACTS TOWARD FERTILITY OF BALB/C MICE

*Pardipta Pradipta Kurniasanti, M. Zen Rahfiludin, Sri Winarni*

### Abstract

Good quality velvet beans and zinc supplement are well studied and known as rich source of aphrodisiac. The following reseach was carried out to study the difference effect of zinc supplement (ZS) and velvet bean extracts (VBE) towards fertility of BALB/c mice i.e the number of sperm, the motility of sperm, the viability of sperm, the morphology of sperm, the existence of vagina plug, and the birth condition of mice. This study was an experiment using Posttest Only Controlled Group Design with three groups. The first group (A1) as control, the second group (A2) receives subcutaneous injection of 2methoxyethanol fraction as much as 200 mg/kg weight/day for 5 days, followed with ZS at a dosage of 0,026 mg/day/head, and the third group (A3) receives subcutaneous injection of 2-methoxyethanol fraction as much as 200 mg/kg weight/day for 5 days, followed with VBE at a dosage of 56 mg/kg weight /day for 30 days. The quality of spermatozoa of A1, A2, and A3 was significant difference ( $p < 0.05$ ). Both of A2 and A3 were no significant difference of mean number of sperm ( $p = 0.274$ ), mean percentage of sperm motility ( $p = 0.739$ ), mean percentage of sperm viability ( $p = 0.141$ ) and mean value of morphology of sperm ( $p = 0.394$ ). The quality of spermatozoa and the total number of baby mice lived and died of A1, A2 and A3 were significant difference. In addition, there was no significant difference in the existence of female mice's vaginal plug of A1, A2 and A3. This study showed that ZS and VBE can increase the quality of spermatozoa of BALB/C mice.

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