EFFECTIVENESS OF RED FRUIT (Pandanus conoideus Linn) OIL ADMINISTRATION ON INFERTILE MICE (Mus musculus) SERUM LUTEINIZING HORMONE (LH) AND CORPUS LUTEUM (CL) NUMBER

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ABSTRACT

Infertility can cause reproductive hormone secretion, one of which is Luteinizing Hormone (LH). LH secretion disorders will cause interference on the process of ovulation. The purpose of this research was to know the effectiveness of giving red fruit oil (Pandanus conoideus Linn) can decrease the levels of LH and increase the number of corpus luteum. The mice were grouped into four groups, that are P0 as negative control (normal mice), P1 as positive control (infertile mice), P2 and P3 infertile mice respectively given a dose of 0.05 ml and 0.1 ml red fruit oil for 14 days. After treatment, blood serum LH was measured using Elisa. Number of corpus luteum were counted from HE stained histopathological preparation of the mice ovaries. Results showed decrease in serum LH and increase in CL number after the administration of red fruit (Pandanus conoides Linn) oil.

Key words: red fruit oil, LH, Corpus Luteum