

**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 conoideus Linn*) oil.

Key words: red fruit oil, LH, Corpus Luteum