

**EFFECT OF RED FRUIT (*Pandanus conoideus Lam.*) OIL TO LITTER SIZE AND CONGENITAL DEFECT ON LEAD INTOXICATED PREGNANT MICE (*Mus musculus*)**

Ronal Toga Sibarani

**ABSTRACT**

Intoxication of lead during pregnancy can increase the levels of Reactive Oxygen Species (ROS) that disrupts the physiological maternal pregnancy and embryonic development. Red fruit (*Pandanus conoideus Lam.*) was able to reduce levels of ROS because it contains carotenoids and tocopherols which act as antioxidants. The purpose of this study was to find out the influence of red fruit oil to increase litter size and decreased incidence of congenital defects in lead induced pregnant mice. Mice were grouped into five groups, those are negative control, positive control that was induced by lead 0,011 mg/20 g BW orally as well as P1, P2, P3 that were induced by lead 0,011 mg/20 g BW and red fruit oil dose of 12 mg/kg BW, 24 mg/kg BW, 48 mg/kg BW. Results of this study were analyzed using ANOVA and Duncan test. The results showed a higher litter size and congenital defects lower in lead induced pregnant mice with red fruit oil compared to the positive control. The conclusion of this study is red fruit oil can increase litter size and decrease the incidence of congenital defects in lead induced pregnant mice through an antioxidant mechanism.

**Key words:** *Pandanus conoideus Lam.*, litter size, congenital defects, lead induced, ROS.