

EFFECTIVENESS OF BINAHONG LEAVES GEL EXTRACT (*Anredera cordifolia* (Ten.) Steenis) TO REDUCE THE NUMBER OF PMN CELLS IN INCISION WOUND HEALING PROCESS OF MALE MICE (*Mus musculus*)

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ABSTRACT

The purpose of this study was to learn about the effectiveness of binahong leaves gel extract to reduce the number of PMN cells in incision wound healing process of male mice (*Mus musculus*). Twenty male mice (*Mus musculus*) were divided into four groups i.e P0 (HPMC 3%), P1 (*Povidone iodine*), P2 (binahong leaves gel extract with 10% concentration) and P3 (binahong leaves gel extract with 20% concentration). All of treatment was done for three days (72 hours). Histopathological examination was done and data analysis used ANOVA followed with Duncan test. The analysis showed there was significant difference between P0 with P1, P2 and P3 ($p < 0.05$), that P0 has mean and standard deviation 357.8 ± 75.98 , P1 128.6 ± 11.3 , P2 112.4 ± 11.63 and P3 70.6 ± 7.23 . The results showed that P0 has significant difference with P1, P2 and P3, P1 insignificant different with P2 but significant difference with P3, and P2 insignificant different with P3. The conclusion of this study was binahong leaves gel extract can reduce the number of PMN cells in incision wound healing of male mice (*Mus musculus*), the best result in this study to reduce the number of PMN cells was binahong leaves gel extract with 20% concentration.

Keywords : *Mus musculus*, binahong leaves gel extract, PMN, incision wound healing