THE POTENTIAL OF ALOE VERA LEAVES JUICE *(Aloe vera L)* TOWARD WOUND HEALING PROCESS OF INCISION RATS *(Rattus norvegicus)*

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ABSTRACT

The aim of this research was to know the potential of aloe vera leaves *(Aloe vera L)* juice to promote wound healing process of incision male rats *(Rattus norvegicus)*. Twenty rats were randomly divided into five groups, there were control (without therapy), positive control (*povidone iodine* 10%), aloe vera leaves juice groups 25%, 50%, and 100% that given topically at three times a day respectively. On the seventh day, all rat were sacrificed for histologic evaluation. Data was obtained by microscopic observation of the wound skin, based on semiquantitative data scoring including *angiogenesis*, epithelization and inflammatory cells (PMN). The data were statistically analyzed by Kruskal-Wallis test and Mann-Whitney test. The result showed that there were significant different ($p<0,05$) between treatment groups. Groups that administration with 50% and 100% of aloe vera juice got faster healing process by observation of *angiogenesis*, epithelization and inflammatory cells (PMN).

Key words: Aloe vera leaves, juice, wound healing