

THE POTENCY OF *Spirulina platensis* EXTRACT IN REDUCING THE NUMBER OF POLYMORPHONUCLEAR CELLS IN THE SKIN INCISION WOUND OF MICE (*Mus musculus*)

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ABSTRACT

The aim of this study was to analyze the number of polymorphonuclear cells in the skin incision wound of mice (*Mus musculus*) after giving 12 % and 24 % of Spirulina gel respectively. Twenty male mice were divided into four group, 5 mice each. They were control group and treatment group which was given 12 % and 24 % Spirulina gel. After skin incision, histopathological evaluation was done to count polymorphonuclear cell based on the inflammation degree scoring system. The data was analyzed by Kruskal Wallis and Mann-Whitney. The research showed Spirulina gel can reduce the number of polymorphonuclear cells in the skin incision wound of mice (*Mus musculus*) and gave significant different ($p < 0.05$) among the treatment groups.

Keywords : *Spirulina platensis*, polymorphonuclear cell, wound

