



Penulis : Peni Perdani Juliningrum
Fakultas : Keperawatan
Program Studi : Ilmu Keperawatan
IPK : 3.12
Pembimbing I : Dr. I Ketut Sudiana, drs.,M.Si
Pembimbing II : Ira Suarilah, S.Kp

Pengaruh Penggunaan Ekstrak Teh Hijau (*Camelia Sinensius*) terhadap Penyembuhan Luka Insisi pada Marmut (*Cavia Cobaya*)

Abstrak :

ABSTRACT

*THE EFFECT OF USE GREENTEA EXTRACT (*Camelia sinensis*)
TO INCISION WOUND HEALING IN GUINEA PIGS (*Cavia cobaya*)*

A True Experiment Study in Biochemistry Laboratory Medical Faculty Airlangga University, Surabaya

By : Peni Perdani Juliningrum

Incision injury occurred because of sharp object. It can be lead to infection if organism which make infection attack that wound. Natural substance safer than synthetic for health included wound healing and have a low toxicity if used by human, included greentea. In society, greentea be familier as beverage and has a lot of beneficial for human body. Green tea extract has anti-bacterial effect, anti-inflammatory, increasing fibroblast, and stimulation new blood vessels. This study was aimed to know the effect greentea extract on incision wound healing process.



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This research using a true experiment design. The samples were 18 guinea pig, chosen randomizely divided into two group. The groups are control group and greentea extract group. The independent variable were inflammation phase (erythema, oedema, and wound fluid) and prolifiration phase (wound granulation and incision edge unification) which were observed in the 3rd and 6th days. Data were collected using observation paper based on the sign of inflammatory and prolifiration. Analyzed using Mann-Whitney test with level of significance $\alpha; \leq 0,05$.

Result showed that there was effect of greentea extract in erythema ($p=0.00$) and oedema ($p=0.00$) at 3rd day and granulation ($p=0.00$), incision edge unification ($p=0.00$) at 6th day.

It can be concluded that greentea extract has effect to incision wound healing. Further studies there is need to be conducted a microscopically observation of collagen, PMN-cell (neutrophile), and MN-cell (lymphocyte).