ABSTRACT

Lestari, Ayu Rindu. 2016. ***The Impact of Gynura Segetum Topical Using to Increase Wound Contraction of Second Degree Deep Burn Wound in Rattus Norvegicus Wistar Strain***. *Final Assignment. Nursing Science Program. Faculty of Medicine. University of Brawijaya. Supervisor*. (1) Prof. Dr.dr. Kusworini, M.Kes, SP.PK (2) Ns. Heri Kristianto, S.Kep, M.Kep, SP.Kep.MB

Burn is a response of skin damage caused by contact with extremly high temperature or too low temperature object. Wound contraction is an important event as a marker to entry the remodelling phase. Gynura Segetum have been known contain many medical aspect such as alkaloids, flavanoid, tannins and saponins. The main objective of this study was to determine the the impact of Gynura Segetum topical using to increase wound contraction of second degree deep burn wound. This study uses a true experimental design with 24 sample of male Rattus norvegicus strain Wistar and randomly divided into 6 groups. NaCl 0.9% in group I, group II Vaseline, Group III Silver sulfadiazine (SSD), Group IV, V, and VI Gynura segetum extract 2.5%, 5% and 10%. The study was conducted for 14 days at Laboratory of Farmacology Faculty of Medicine University of Brawijaya. Wound contraction was measured using a ruller and SketchUp on day 1,3,7 and 14 and then calculated using percent of wound contraction formula. They were photograph from the same lighting and ±10cm range from the wound area. Oneway ANOVA analysis result is significant differences (p = 0.000) <α (0.05)). Post Hoc Tukey HSD analysis also there are significant differences between the groups of Gynura Segetum extract with 2,5%, 5% and 10% concentration with normal saline group. There also significantly difference between the groups of Gynura Segetum extract with 2,5% concentration with vaseline group. The conclution is Gynura segetum may help to improve Wound Contraction of Second Degree Deep Burn Wound.

Keywords : Second Degree Deep Burn, Gynura Segetum, Wound Contraction,