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Global Wound Care Congress

September 12-13, 2016 San Antonio, USA

EFFECT OF *Psidium Guajava Lynn* ON MMP-9 AND TIMP-1 RATIO OF PATIENTS WITH DIABETIC ULCER

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Diabetic ulcer is a main health problem, which was found in 15% of 200 million Diabetes Mellitus patients waorldwide and will increase 2.5% annually. Ulcer can become infection's port of entry, disrupt peripher blood flow progressively and can cause delayed healing. Hence, it needs innovation on each phase of wound healing, including herbal medicine such as Psidium Guajava Lynn. This study aims to determine the effect of *Psidium Guajava Lynn* on MMP-9 and TIMP-1 ratio of patients with Diabetic ulcer. This was a quasy experiment study with pre and post-test design with controlled group. Subjects were accidentally selected in this study. MMP-9 and TIMP-1 was evaluated on first visit and baseline laboratories were taken by Enzyme-Linked Immunosorbent Assay (ELISA). Each subject in the group of intervention took *Psydium Guajava Lynn* to wash the ulcer each three days. After 10 times, repeat laboratory examinations were taken. No adverse were reported during the trial. The data were analyzed using paired T-test with significance level of $\alpha \le 0.05$. This study found a significant on decreasing ratio on intervention group and increasing ratio on control group (p=0,000). This study found significant different of *Psidium Guajava Lynn* on changing the ratio of MMP-9 and TIMP-1 (p=0,035). This study concludes that *Psidium Guajava Lynn* could decrease MMP-9 and TIMP-1 ratio for diabetic ulcer patients.

Biography

Andina Setyawati has completed her Nursing Master at the age of 26 years from Indonesia University School of Nursing. She is the lecture of medical surgical nursing and wound care clinician. She has published 5 papers in reputed journals and has been serving as an editorial board member of repute.

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