

# Effectiveness of Tapioca Flour in Wound Healing Process

*by Ramadhaniyati Ramadhaniyati*

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**Abstract#33**

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**THE TEST OF EFFECTIVENESS BETWEEN THE APPLICATION OF TAPIOCA FLOUR (*Manihot utilissima*) AND COFFEE POWDER (*Cofea*) IN WOUND HEALING PROCESS FOR THE WHITE MOUSE (*Rattus Norvengenus Strin Wistar*).**

Nopa Fajarwati, Suriadi, Surtikanti, Ramadhaniyati, Suryadi  
Institute of Nursing Muhammadiyah Pontianak

Background: In last few years, using of tapioca flour and coffee for wound therapy has been used by people, while there hasn't been any research that clarifies about benefit of both variables in wound healing process. Purpose of this research was to examined the effectiveness of tapioca flour's and coffee's powder using in wound healing process. Methods: This research was done in STIK Muhammadiyah which start from February 26<sup>th</sup> 2013 to March 10<sup>th</sup> 2013 for (1-8) wound and in February 27<sup>th</sup> 2013 to March 11<sup>st</sup> 2013 for (9-20) wound. It used Quasy Experiment Research with Post Only Design which was done to ten male white mice. Each has two wounds and coffee powder to other ten wounds. Results: From this research giving a tapioca flour was more effective than giving arithmetic's coffee powder in wound healing process, with T value is 3,464 and T Table's is 1,734 and average of wound healing tapioca flour is 11,20 and coffee powder 12,80. Conclusion: Giving tapioca flour was faster than giving coffee powder. It was caused by tapioca flour has content which has a big role in matrices of new blood, cells begin to be formed and collagen establishment which produced by fibroblast, and also help in increasing granulasi and collagen it can help inflamasi and establishment.

Keywords: Tapioca flour, coffee, wound healing.

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