

**EFEKTIVITAS EKSTRAK KULIT MANGGIS (*Garcinia mangostana L.*)  
TERHADAP PERCEPATAN PROLIFERASI FIBROBLAS PADA PROSES  
PENYEMBUHAN LUKA TRAUMATIK AKUT MUKOSA MULUT TIKUS  
WISTAR**

**(THE MANGOSTEEN RIND EXTRACT'S (*Garcinia mangostana L.*)  
EFFECTIVENESS AGAINST ACCELERATION OF PROLIFERATION  
FIBROBLASTS IN WOUND HEALING PROCESS OF ACUTE TRAUMATIC  
WOUND ON WISTAR RAT ORAL MUCOUSE)**

**ABSTRACT**

**Background:** *Case of traumatic wound is often found in the dentistry. Traumatic wounds are most frequently caused by accidental bite and tooth brush excessive trauma. Trauma is the most common cause of traumatic wound of the mucouse membrane. Herbal treatment of mangosteen rind extract can be an alternative in acute traumatic wounds healing. In mangosteen rind extract there is a compound xantone which appears as an anti inflammatory in acute traumatic wounds. Its anti-inflammation fuction may accelerate the prolifiration of fibroblasts in acute traumatic wound healing, so that the process time could be minimized.* **Purpose:** *In accelerate the fibroblast prolifiration in acute traumatic wound healing on wistar rat oral mucouse.* **Methods:** *A whole research sample divided into four groups. Group 1 was control, group of 2 was given 25% extract concentration, group of 3 was given 50% extract concentration and group of 4 was given 100% extract concentration of mangosteen rind.* **Results:** *Group with 100% extract concentration of mangosteen rind having shows the most significant acceleration of fibroblast prolifiration in wound healing process of acute traumatic wound on wistar rat oral mucouse.* **Conclusion:** *The mangosteen rind extract with concentration of 25%, 50% and 100% could accelerate the fibroblast prolifiration in wound healing process of acute traumatic on wistar rat oral mucouse.*

**Keyword:** *mangosteen rind extract, anti inflammatory, prolifiration of fibroblasts, acute traumatic wound*