

**PERAN EKSTRAK GEL DAUN MELATI (*JASMINUM SAMBAC*) DALAM  
PENINGKATAN SABUT KOLAGEN PADA PENYEMBUHAN LUKA  
SAYAT PADA MENCIT (*MUS MUSCULUS*)**

**THE ROLE OF JASMINE LEAVES (*JASMINUM SAMBAC*) GEL  
EXTRACT TO THE INCREASE COLLAGEN FIBERS IN WOUND  
HEALING OF MICE**

**ABSTRACT**

**Background:** Wounds can cause parts of the body become exposed to the outside of the body, and if left untreated can arise infection and wound healing will be hampered. Healing can be accelerated by increasing collagen synthesis during the proliferative phase. Jasmine leaves have been known to have flavonoids, saponins and tannins that are useful for wound healing. Therefore, the role of FGF and VEGF is essential in increasing the synthesis of collagen in the wound healing process. So that the wound healing occurred faster. **Purpose:** This study was aimed to determine the role of jasmine leaf extract in increasing collagen fiber in wound healing. **Methods:** Twenty-eight *Mus musculus* were divided into four groups, each of which consisted of seven animals. Incision was performed on the backs of mice were then given a placebo gel, a dose of 200 mg / kg, 400mg / kg and 800mg / kg. **Results:** It is known that the group of 400 mg / kg body weight can increase collagen fiber optimum. It can be concluded that the jasmine leaf gel extract 400mg / kg body weight can increase collagen synthesis, and as a result an increase in the amount of collagen fiber which accelerate wound healing.

*Keywords :* *Jasminum sambac* leaves gel extract, wound healing, collagen fibers