

Histopathology Study of Renal Male Rats (*Rattus norvegicus*) Of Femoral Fracture With *Cissus quadrangularis* Plant And Calcium Carbonate Therapy

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ABSTRACT

Cissus quadrangularis is a plant used often to treat fracture and very good for bone healing process. The aim of this study was conducted renal histopathology of male rats (*Rattus norvegicus*) after reposition of femoral fracture with therapy *Cissus quadrangularis* and *Calcium carbonate*. This study used 18 male rats (*Rattus norvegicus*). Age of 12 weeks after 1 week of adaptation, all rats were treated reposition of femoral dexter fracture with intramedullary pin fixation. The rats model were evenly randomly divided into three groups at 2 weeks after surgery. Group I treated with normal diet, group II with normal diet + *Cissus quadrangularis* 500 mg/day per oral, and group III with normal diet + *Calcium carbonate* supplement 150 mg/day. At the end of the experiment all the rats were killed, subsequently renal were taken out for determine the histopathological examination. The histopathological examination used *Kruskall Wallis* test. The results of this study indicated there was noticeable difference between *Cissus quadrangularis* and *Calcium carbonate*. This study suggested the used of *Cissus quadrangularis* for fracture treatment was still better than *Calcium carbonate*.

Keywords : *Bone Fracture, Cissus quadrangularis, Calcium carbonate, kidney histopathology.*