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Radiological Evaluation of femoral Fractures Healing in Male Rat with Cissus quadrangularis Extract

Gambaran Radiografi Proses Kesembuhan Patah Tulang Femur pada Tikus Putih Jantan dengan Terapi Ekstrak Tikel Balung (Cissus quadrangularis)

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Abstract

This study aims to compare the effect of calcium carbonate supplementation with Cissus quadrangularis (CQ) in accelerating the healing process of fractures of the femur in rats based on radiological evaluation. This study used 18 male white rats (Rattus Norwegicus) age of 12 weeks. After 1 week of adaptation, all rats were treated reposition of femoral dexter fractures 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 + CaCo3 supplement 150 mg/day, group III with normal diet + Cissus Quadrangularis 500 mg / day per oral. Cissus Quadrangularis therapy given for 4 weeks. Radiographic examination is conducted twice at 3rd and 6th week post-surgery. The results of radiological evaluation on femoral dexter with intramedullary pin fixation in the treatment group III showed the fracture healing process is best compared to other treatment groups, with the highest scoring, although not significantly different (p > 0.05) in group II. The lowest scoring group I obtained a significantly different (p < 0.05) with group II and III.

Keyword: Cissus, quadrangularis, CaCo3, patah, tulang, }

Daftar Pustaka:


