BLOOD INTERLEUKINE-6 VALUE ON HEALING PROCESS OF BONE COMPLETE FRACTURE WITH LOADING AND UNLOADING TREATMENT IN MALE SHEEP (*Ovis aries*) METACARPAL

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ABSTRACT

The aim of this study are to definite interleukine-6 (IL-6) value on fracture healing with axial micromovement induction fixation on twelve - eight months old male sheeps (*Ovis aries*). The eight sheeps model treatment are reposition of metacarpal sinister fracture with intramedullary pin and slotted plate screw fixation, four sheep for control or without fracture. The sheeps model randomly divide into two factors, they are treatment and bleeding times. The first factor consist of two treatment, unloading and loading. Treatment had given at second days post-operation. The second factors consist of three groups of bleeding, 7 days, 15 days and 30 days post-operation. The blood samples were taken directly from jugularis vein for IL-6. Data was analyzed by univariate Anova and Tukey test using SPSS for windows program. The result indicated that IL-6 level increased significantly (p<0.05) for unloading treatment. The bleeding time factor show highly significant increase of IL-6 (p<0.05) at 30 days post operation.

**Key words**: sheep, IL-6, bone-healing