

**BLOOD ALKALINE PHOSPHATASE PROFILE ON HEALING PROCESS  
OF BONE FRACTURE UNSTABLE TYPE IN SHEEP (*Ovis aries*)  
METACARPAL**

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**ABSTRACT**

The aim of this study was to definite the profile of alkaline phosphatase value on fracture healing with unloading, loading and partial loading treatment. 15 male sheeps (*Ovis aries*), 8 months age were subjected to this study. The sheeps were treated reposition of metacarpal *sinister* fractured with intramedullary pin and slotted plate screw fixation. The sheeps model devide evenly random into two factors. They are treatment and bleeding times. The first factor consist of three treatment, they are unloading, partial loading and loading. Treatment had given at second days post operation. The second factor consist of four groups of bleeding are 3 days, 7 days, 15 days and 30 days post operation. The blood samples were taken directly from Jugularis vein for alkaline phosphatase analyzed. The data were analyzed by univariate Anova and Tukey test using SPSS for windows program. The result indicated that alkaline phosphatase activity increased significantly ( $p < 0,05$ ) for partial loading treatment. The bleeding time factor show highly significant increased ( $p < 0,01$ ) at 15 days post operation.

**Key words:** Alkaline phosphatase, fracture healing