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**LIST OF ABBREVIATION**

|  |  |
| --- | --- |
| **Abbreviation and symbol** | **Elaboration** |
| PO | Post-operative |
| % | Percentage |
| et al | And his association |
| ESR | Erythrocyte sedimentation rate |
| RBC | Red blood cell |
| WBC | White blood cell |
| PVC | Packed cell volume |
| LTD | Limited |
| CVASU | Chittagong Veterinary And Animal Sciences University |
| SAQTVH | Sahidul Alam Quaderi Teaching Veterinary Hospital |

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**ABSTRACT**

Long bone fractures are one of the most common orthopedic problems that occurred in small ruminants. This work is interested in the technical aspects of ostheosythesis with intramedullary pinning, and a quality of functional and bone healing results. A 4 month old Jamnapari male goat was brought to the SAQ teaching veterinary hospital, CVASU with the history of lameness following trauma and exhibiting clinical signs suggestive of the long bone fracture. Clinical examination revealed a non-weight-bearing lameness in the right forelimb and instability; crepitation, swelling, and pain in the distal forearm. Radiographic examination of the forearm revealed the presence of a short oblique proximal diaphyseal multiple fracture of right humerus. Hematology (hemoglobin, total leukocyte count and differential leukocyte count) and serum biochemistry (calcium, magnesium and phosphorus) was done at the time of presentation. General condition of the affected goat was assessed from its normal alertness, ability stand on limbs and stable cardiopulmonary parameters. On the basis of fracture management protocal, tha case was decided for intramedullary pinning.The case was evaluated for weight bearing condition and radiographic analysis. Successful fracture healing was achieved without any complications using this method of treatment. The case study suggested that intramedullary pins with cerclage wire is safe, economical and successful treatment method for fracture management in field condition.

**Key words:** Goat, long bone, intramedullary pin, cerclage wire.