



**International VETEXPO-2019 Veterinary Sciences Congress
September 20-22 2019. Double Tree by Hilton Hotel, Avcilar /Istanbul, Turkey**

Oral presentation

Management of comminuted fractures with intramedullary pins

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Abstract

Comminuted fractures are quite common and their fixation is not easy. Fracture, patient and client has to be evaluated correctly to decide the fixation type. Mechanical, biologic, clinical environment and costs determine the choice of fixation type. In cats and small sized dogs, there may not be enough place to insert plate screws or external fixator pins. If they are inserted to small bone fragments, it can easily break fractured fragment again. In this work comminuted intercondylar humerus and femur fractures of 4 cats were operated with multiple intramedullary pins to see if anatomical accuracy of the fragments can be managed correctly. Although intramedullary fixation stability is lesser than plate or external fixation, results were satisfactory and functional.

Keywords: Comminuted fractures, intercondylar fractures, intramedullary pins, fixation biomechanics, fracture assessment

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VETEXPO-2019 homepage: <http://vetexpo.org/>
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