

## POSTEROMEDIAL TIBIAL PLATEAU AVULSION FRACTURE: A CASE REPORT

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**Introduction:** Semimembranosus avulsion fracture is a rare injury. This injury commonly associated with cruciate ligaments and meniscus injuries. We are presenting a case of high impact isolated posteromedial tibial plateau avulsion fracture with incarcerated articular surface and associated med

**Discussion:** A 24 years old male was involved in a motor vehicle accident in which he sustained a left medial tibial plateau fracture as well as a closed comminuted fracture of the left humerus and an open comminuted fracture proximal 1/3 right tibia. On standard knee anterior-posterior and lateral radiographs, the posteromedial tibial plateau fracture fragment appears displaced with the articular surface incarcerated at the metaphyseal region. Intra-operatively, the posteromedial fragment was accessed via posteromedial approach. The fragment was tilted with the articular surface trapped within the metaphyseal region. There was also associated medial meniscus tear. Interfragmentary screws and buttress plate were used to fix the fragment. The medial meniscus was repaired. Knee physiotherapy commenced on day two postoperatively. Semimembranosus avulsion fractures are rare injury and it is commonly missed with conventional radiographs. However, the fracture in our case had extension to the medial portion, leading to the diagnosis of medial tibial plateau fracture. ACL injury and medial meniscus tear are commonly associated with this injury. John et al reported a case of PCL injury associated with this type of fracture. The management of this fracture follows the principles of anatomical reduction of articular surface and stable fixation.

**Conclusion:** Posteromedial plateau fractures are common presentation of tibial plateau fracture. However, the unusual fracture pattern should alert the surgeon of possibility of avulsion fracture with associated soft tissue injury.