

## MINIMALLY INVASIVE SURGERY IN ATYPICAL FRACTURE CONFIGURATION WITH DOUBLE SEGMENTAL FRACTURE OF TIBIA

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**Introduction:** Segmental fracture defined as fracture consisted of at least two fracture lines that together isolate a segment of bone. Segmental tibial fracture is uncommon and double-segmental tibial fracture is much rarely seen. We report a 45-year-old male with closed double-segmental fracture of left tibia. Patient was managed with surgery closed reduction and internal fixation with interlocking nail (ILN) tibia.

**Discussion:** A 45-year-old male motorbike rider was hit by another motorbike from the back. He complains of pain and swelling over left calf with no other injuries. X-ray revealed double-segmental left tibia fracture with mid-shaft fibula fracture. Patient went for surgery on post-trauma day 11 after calf swelling reduced. Minimally invasive closed-reduction and internal-fixation was done with Interlocking Nail Tibia. Patient discharged well post-operation. At 6 weeks follow up, the alignment was good and soft tissues were in good condition. The patient is ambulating with partial weight bearing and he is still under follow up. So far there are only five cases of double-segmental tibia fractures has been reported from the available publications and case reports. One managed conservatively, three using tibia nail and one using three locking compression plates [1]. This is the 2nd case of closed double segmental tibia fracture reported which treated with closed-reduction and interlocking nail tibia.

**Conclusion:** A case of closed double-segmental tibia fracture with intact neuro-vascular is extremely uncommon. Closed-reduction and internal fixation with interlocking nail is an ideal choice of treatment for it especially in closed fracture type of cases. It offers better preservation of bone vascularity and less soft tissue stripping intraoperatively. New generations of interlocking nail are clearly emerging as the implant of choice for closed segmental tibia fractures.