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## Metaphyseal sleeve revision knee arthroplasty as treatment for highly comminuted Schatzker VI tibial plateau fractures

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Traditional treatment of tibial plateau fractures is with open reduction and internal fixation, or external fixation in severely displaced and comminuted fractures. Total joint arthroplasty for unreconstructed hip fractures is a successful and widely accepted treatment, however such surgery for tibial plateau fractures is not common practice.

We present 2 cases of highly comminuted Schatzker VI tibial plateau fractures in patients over the age of 65. Both patients had a metaphyseal sleeve revision knee arthroplasty as delayed primary treatment. Both patients have had excellent clinical and radiographical results at 6 months and 5 years follow-up respectively.

We present the first description in the literature of this implants use for bone loss as a result of trauma. There is growing evidence that total joint arthroplasty is an effective treatment in tibial plateau fractures, in particular for elderly patients who may be at high risk of failure from internal fixation.

**Keywords:** tibial-plateau fracture, Schatzker VI, revision knee arthroplasty, metaphyseal sleeve, trauma arthroplasty



### Biography

Matthew McSorley graduated from Queen's University Belfast in 2020. From there he moved to Edinburgh to undertake his foundation training including a rotation in Trauma and Orthopaedics in the Royal Infirmary of Edinburgh. Having interests in Trauma and Sports Medicine he will shortly be taking up a volunteer post in South Africa at George Hospital to further his clinical experience in Orthopaedic Surgery prior to applying for Core Surgical Training in the UK.

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