ONE-STAGE TOTAL KNEE ARTHROPLASTY WITH LONG STEMMED TIBIA FOR TRAUMATIC TIBIAL DIAPHYSIS FRACTURE WITH CO-EXISTING OSTEOARTHRITIS OF THE KNEE

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Tibial shaft fractures co-existing with osteoarthritis can increase the challenges for the orthopedic surgeon. The novel Londhe-Shah technique manages both the problems using one-stage total knee arthroplasty with a long stemmed tibial component which has a good diaphyseal fit. Three osteoarthritis patients with fractures of tibial shaft were treated with this technique and were followed up at 6-weeks, 12-weeks and 1-year (figure 1-3). A complete union of the fractured segment was achieved at follow-up without any adverse events such as infection, damage to the implant, and soft-tissue injury during and after surgery. The American Knee Society Score (AKSS) improved and WOMAC pain and stiffness scores reduced at follow-ups suggesting excellent improvement in functionality and patient satisfaction. One-stage TKR with a long-stem extension of the tibial component to bypass the fracture site mends and stabilises the fracture along with the adverse biomechanics at the fracture site while also correcting the arthritis. The single stage procedure allows early ambulation in six weeks.