

Health Informatics & Technology Conference

October 20-22, 2014 Double Tree by Hilton Baltimore - BWI Airport, USA

Bilateral simultaneous TKA in patients with severe articular deformity

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Aim: To evaluate the short term outcome of patient specific instrument (PSI) in cases of bilateral simultaneous total knee replacement (TKR) for knee osteoarthritis with severe articular deformity. The research question: Was the short term outcome satisfactory for using PSI in bilateral simultaneous TKA in OA with severe articular deformity?

Patient and methods: 92 consecutive cases of bilateral simultaneous TKA (46 patients) with severe articular deformities (70 cases of varus and 6 valgus) were included in this study. Data were recorded prospectively in the arthroplasty register and assessment was done by independent assessor.

Results: All operations were successfully performed using the PSI without resorting to conventional instrumentation (CI) including medullary guides. The operative time was shorter as compared to a cohort of TKA using CI. The blood transfusion rate, hospital stay and complications were lower in PSI.

Conclusion: It was possible to use PSI for severe cases of articular deformities that could be contraindicated for conventional technique. The short-term outcome of bilateral simultaneous TKA was satisfactory.

Biography

Mahmoud A Hafez has been interested in orthopaedics since his graduation in 1985. He worked in 5 countries (Egypt, KSA, UK, USA & Canada) with different health care systems. His special interest is in hip and knee arthroplasty but has a broad based experience in general orthopaedics and traumatology that was gained during my training and work in UK for >10 years. The North American fellowship (Pittsburgh and Toronto) gave him a valuable experience in lower limb arthroplasty & computer assisted surgery. He is the Head of the Orthopaedic Department, October 6 University Hospital, Cairo, Egypt. In UK, he works as a part time consultant orthopaedic surgeon in NHS hospitals (locum during summer holiday).

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