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## Renal function preservation following high grade blunt renal trauma: A major trauma centre experience

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Kidneys are the most common genitourinary organ injured following trauma. 90-95% of renal injuries are secondary to blunt aetiology. Conservative management of renal trauma has brought the question of long term complications and renal function preservation. This study evaluates renal function preservation following high grade blunt renal trauma in a level 1 trauma centre in the United Kingdom between January 2012 and December 2015. Trauma Audit & Research Network (TARN) data base, patient's electronic records and radiology scans were reviewed and results were analysed. 4611 patients with major trauma admitted into the hospital, of which 1.8% (83/4611) patients were identified with urological blunt trauma. The mean age of population was 44 years; range 12-90.5 years with a male predominance (82%). Renal injury counted for 51.8% of urological blunt trauma patients with (26) 45% grade I, (9) 15% grade II, (4) 7% grade III, (15) 26% grade VI, (4) 7% grade V. Conservative management was successful in patients with grade IV renal trauma with 6.7% morbidity with long-term hypertension. None of grade IV developed any renal function deterioration. Over all, long term follow up (four years average) of patients, revealed 95% of patients preserved their pre trauma renal function. This study reveals preserved renal function in over 95% of patients with blunt renal trauma. We therefore promote conservative approach of high grade renal injury with the objective of renal function preservation; however, certain situations still require intervention.

### Biography

Banan Abbas Mustafa Osman is a British urology trainee joined University of Medical Science and Technology. She is an Honorary Clinical Tutor for the Severn School of Surgery. She is also a teaching faculty member at Royal College of Surgeons England. She was appointed annually over three years as a Surgical and Urology trainee representative in Junior's Doctor's Forum in the Royal Marsden NHS foundation Trust & North Bristol NHS Trust. She was a Clinical Investigator in VORTEX Clinical Trial. She held a position of Assistant Director of training in SMA International Training School.

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