

19<sup>th</sup> Global

# Nephrologists Annual Meeting

May 14-15, 2018 | Rome, Italy

## Long-term graft survival in underweight patients following renal transplantation: A single centre ten-year experience

**Banan Abbas Mustafa Osman**<sup>1</sup>Bristol Urological Institute, UK<sup>2</sup>Severn Major Trauma Network, UK

**K**idney transplantation is the treatment of choice for end stage renal failure (ESRD). Several studies have investigated factors that may affect kidney function at one year. Low preoperative Body Mass Index (BMI) is considered a strong marker of poor nutritional status with inferior outcomes in such patients demonstrated across multiple surgical disciplines. There is a relative lack of evidence concerning the outcome of underweight recipients following renal transplantation. Aim of our study is to compare the long-term graft outcomes for underweight recipients with an age and sex matched cohort of patients with ideal BMI. A retrospective single centre paired analysis of 1095 consecutive kidney transplant recipients over 10 years in one transplant centre in England. All kidney transplant (KTx) patients with low BMI < 18.5 kg/m<sup>2</sup> were included (n=33). Those patients were age and sex matched with ideal weight (BMI 18.5–25 kg/m<sup>2</sup>) counterparts. Results showed 33 of 1095 (3.0%) patients were underweight of which 60.6% were females with mean age of 27.0. There was no difference in one-year graft or patient survival between the underweight and matched ideal weight groups (P=1.00). Kaplan-Meier analysis demonstrated no difference in dialysis free patient survival between the two groups (P=0.955). Graft outcomes for underweight patients undergoing renal transplantation in this study were comparable to a matched ideal weight cohort. There is no significant difference in one-year graft or patient survival between the groups. Therefore, low BMI in itself should not be a barrier to renal transplantation.

### 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.

banan\_abbas@yahoo.co.uk

### Notes: