

WP7: Renal Function

Renal diseases and renal complications are prevalent and are a significant burden on health-care provision e.g. diabetic nephropathy and idiopathic glomerulonephritis. We have developed a standardised urine collection in metabolic cages as a primary screen. The SOP involves 24 hour urine collection in Tecniplast metabolic cages with free access to food and drinking water with food and water access measured in parallel. Urine and/or plasma biochemical parameters included ions, metabolites (including creatinine) and albumin. Standardisation between centres revealed that normalisation for creatinine excretion provided robust reproducibility for assessment of tubular functions.