Perioperative fluid management and associated complications in children receiving kidney transplants in UK



HYPOTHESIS: There is variability in the volumes of fluid administered to children undergoing kidney transplant. This impacts on short term graft function and is associated with fluid-related adverse events

DESIGN & OUTCOMES: Highly variable volumes Volumes of fluid administered on each Retrospective of fluid administered Volume of fluid day post-operatively multicentre study administered in 1st 900 72hr 800 Negatively skewed, sig. Volume of fluid 700 difference between fluid 600 ml/kg volume & day 7 eGFR 500 Graft function at 400 • day 7 300 Negatively skewed, sig. 200 difference between urine 100 Fluid-related output & day 7 eGFR 0 102 children Day 1 Day 2 Day 3 adverse events 5 transplant Day post-op Numerous fluid-related centres adverse events

CONCLUSION: There is substantial variability in the volume of fluid administered perioperatively to children receiving kidney transplants in the UK. There is a negative association between fluid volume and short term graft function.

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