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To find the incidence and outcomes of acute kidney injury in sick neonates admitted in level 3 neonatal unit

Abstract:

This prospective cohort study was done in level 3 neonatal ICU over a period of 1 year which included neonates who received intravenous fluids for atleast 48 hours. Neonates who survived less than 48 h, chromosomal/renal anomalies or had insufficient data were excluded. AKI was defined according to the modified KDIGO criteria. Both AKI and non-AKI neonates were followed till discharge. Incidence of AKI, mortality and morbidity outcomes were studied. Institutional ethical clearance was taken. Out of 750 neonates, 680 neonates were included and 66 (9.7 %) had AKI. Incidence of AKI varied occurring in 9.1% of neonates born at 22-29 weeks, 5% at 30-36 weeks and 15.6% > 37 weeks. 593 (87.2 %) neonates were discharged and 87 (12.8%) had adverse outcome including DAMA and deaths. Out of 87, 37.8 % had AKI and 10.09 % had no AKI. Neonates with AKI had longer hospital stay (16 days versus 10.15 days). Out of 66 AKI cases, 66.7% had stage 1, 18.2% had stage 2, 15.2% had stage 3. Median day of onset of AKI was 4 with interquartile range of (3-6). Total 56(84.8%) neonates had Early onset AKI i.e within <7 days .AKI got resolved in 70.8% cases till discharge and 29.2% cases had persistence of AKI till discharge .Only 3% (2/66) AKI patients received RRT, which was delivered in the form of acute peritoneal dialysis.

Biography

Anupreet Tiwana has completed her MD Paediatrics at the age of 28 years from Dayanand Medical College Ludhiana under Baba Farid University of Health Sciences Faridkot, Punjab. She has done Paediatric Critical care fellowship credited by Indian Academy of Paediatrics in 2024 from Dayanand Medical College and Hospital Ludhiana. Currently she is studying as Senior Resident in the department of Paediatrics at Dayanand Medical College Ludhiana.