URINE SPECIFIC GRAVITY MEASUREMENT FOR FLUID BALANCE IN NEONATES ON INTRAVENOUS FLUIDS IN A NEONATAL INTENSIVE CARE UNIT: AN OPEN LABEL RANDOMIZED CONTROLLED TRIAL

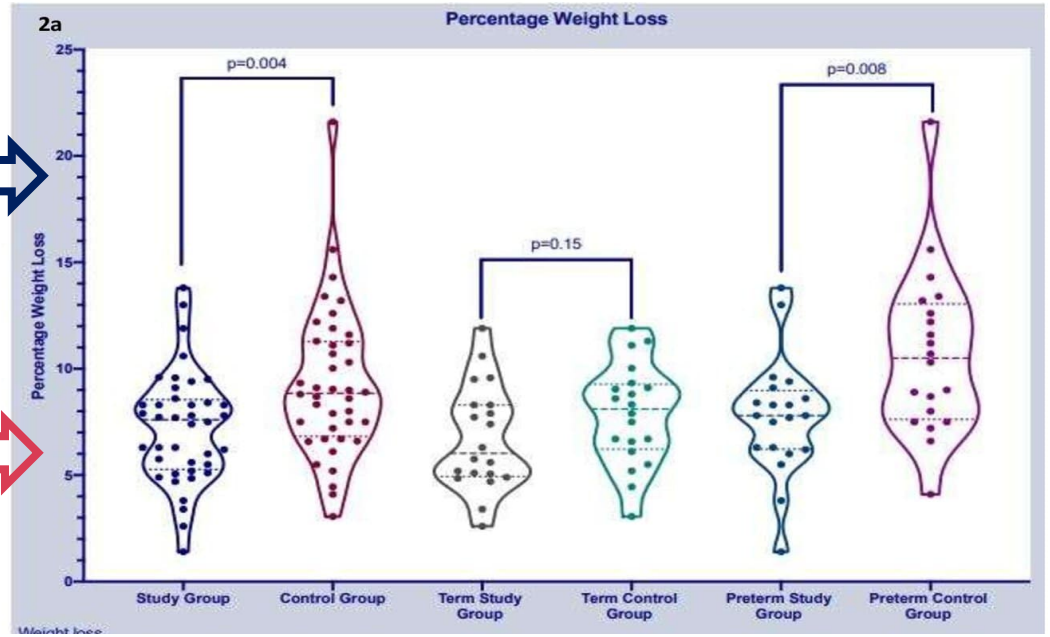
AIM : To compare postnatal weight loss between neonates receiving intravenous fluids guided by urine specific gravity along with standard parameters and those guided by standard parameters only

INCLUDED SUBJECTS

Group A
Maintenance fluids guided by urine specific gravity
n= 40 (20 term; 20 pre-term)

Group B
Maintenance Fluids guided by standard parameters
n= 40 (20 term; 20 pre-term)

RESULTS



Mean % weight loss was significantly less in the study arm vs control arm.

No significant difference in:
Days to regain birthweight
Days for discontinuation of IV fluids

CONCLUSION: Including urine specific gravity estimation by refractometry to the daily intravenous fluid calculation of neonates in intensive care leads to decreased postnatal weight loss, especially among preterm neonates.

Jha, et al. 2022

Indian Pediatrics
Official publication of
Indian Academy of Pediatrics