Medicines Management & Pharmacy Services (MMPS)
LTHT Paediatric ICU Administration Guide
Intravenous Arginine

Dose: Acute hyperammonaemia
Confirm dose required with advising metabolic consultant.

Loading dose: 150-300mg/Kg given over 90mins (this is not always required - please check)
Continuous infusion: 300mg/Kg/day
If necessary the dose may be increased up to 500mg/Kg/day (check with metabolic consultant if this is required)

This is the metabolic consultants practice and doses are different than stated in the BNFc

Route of administration: Administer via a central or peripheral line.
L-Arginine 10% comes in a standard concentration of 100mg/mL

For all children: Use neat solution of 10% L-Arginine

Note: 300mg/Kg/day = 0.13mL/Kg/hour
500mg/Kg/day = 0.21mL/Kg/hour

Products available: L-Arginine 10% 200mL IV infusion

To prepare an infusion: Preferred diluent: Neat solution
CONFIRM THE PREPARATION OF ARGinine IS 10% (100mg/mL)
20gram in 200mL; use neat solution. Change infusion every 24 hours.

How to prescribe: Prescribe the continuous infusion on an LTH Critical Care Intravenous Infusion Prescription Sheet.

Compatibilities: Compatible at Y-site with sodium phenylbutyrate, carnitine, sodium benzoate

Notes: If there is no compatibility information for specific drugs, do not assume compatibility, use a separate line.

There is also a drug calculator on the BIMDG website. For details visit www.bimd.org.uk. This calculator will use a different method of making up the infusion than above or may have different concentrations of preparation available. If using this site please check calculations independently and stability of formulation.

References: Trissel, SPC, Medusa, BNFc 2016-2017, Evelina London Paediatric Formulary, BIMDG.org.uk

Provenance
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