

FUROSEMIDE (Frusemide)

ACTIONS and USES

Furosemide is a potent, fast-acting diuretic which can be used in the management of bronchopulmonary dysplasia (BPD), chronic lung disease (CLD) and congestive cardiac failure (CCF). It may also be used to reduce fluid overload as a result of blood transfusions.

DOSAGE

IV	BPD, CLD, CCF <31 weeks corrected GA >=31 weeks corrected GA Transfusion	0.5-1.mg/kg/dose every 24 hours every 12 hours 1mg/kg single dose
ORAL	0.5-2mg/kg/dose (bioavailability 50% of IV dose)	as per gestations above

ADMINISTRATION

By slow IV bolus over 3 minutes.

RECONSTITUTION

Furosemide injection is available in a ready solution containing 10mg/ml in a 2ml ampoule. Dilution of furosemide injection 10mg/ml is not necessary but is appropriate if the measured volume is less than 0.1ml. Dilute as follows:

Furosemide injection 1mg/ml

Add 1ml of furosemide injection 10mg/ml to 9ml sodium chloride 0.9% and shake well to mix.

INCOMPATIBILITIES

Do not mix with glucose containing solutions, TPN. Do not infuse with adrenaline, dobutamine, dopamine, fluconazole, gentamicin, isoprenaline, midazolam, milrinone, morphine, noradrenaline, vancomycin, vecuronium.

STORAGE

Discard opened ampoules and diluted solution (1mg/ml) immediately after use. Unopened ampoules are stored in the IV drug cupboard at room temperature.

An oral preparation of 50mg/5ml is available from pharmacy. Expiry 90 days after first opening. Store at room temperature (Rosemont pharmaceuticals LTD or Pinewood brand).

Use the IV preparation orally until the oral preparation is available.

MONITORING

Monitor serum electrolyte, fluid balance, acid-base balance, blood pressure, heart rate and daily body weight. Observe administration site for inflammation. Increased risk of ototoxicity when used with gentamicin. It can cause urinary calcium loss which can result in bone demineralisation, pathological fractures, renal and biliary calcium deposition.

DOCUMENT CONTROL

Guidelines for IV medicine administration - Lothian Neonatal Service

Prepared by: Sadaf Arshad October 2019

Checked by: Jenny Carson

Approved NNU Pharmacy Group July 2020; Review date: October 2025