

## DIURETICS &gt; OSMOTIC DIURETICS

## Mannitol

21-Feb-2019

## ● INDICATIONS AND DOSE

**Cerebral oedema**

## ▶ BY INTRAVENOUS INFUSION

- ▶ Child 1 month–11 years: 0.25–1.5 g/kg, repeated if necessary, to be administered over 30–60 minutes, dose may be repeated 1–2 times after 4–8 hours
- ▶ Child 12–17 years: 0.25–2 g/kg, repeated if necessary, to be administered over 30–60 minutes, dose may be repeated 1–2 times after 4–8 hours

**Peripheral oedema and ascites**

## ▶ BY INTRAVENOUS INFUSION

- ▶ Child: 1–2 g/kg, to be given over 2–6 hours

- **UNLICENSED USE** Not licensed for use in children under 12 years.
- **CONTRA-INDICATIONS** Anuria · intracranial bleeding (except during craniotomy) · severe cardiac failure · severe dehydration · severe pulmonary oedema
- **CAUTIONS** Extravasation causes inflammation and thrombophlebitis
- **SIDE-EFFECTS**
  - ▶ **Common or very common** Cough · headache · vomiting
  - ▶ **Uncommon** Dizziness · fever · malaise · nausea · pain · skin reactions
  - ▶ **Frequency not known** Arrhythmia · asthenia · azotaemia · chest pain · chills · coma · compartment syndrome · confusion · congestive heart failure · dry mouth · electrolyte imbalance · fluid imbalance · hyperhidrosis · hypersensitivity · hypertension · lethargy · metabolic acidosis · muscle complaints · musculoskeletal stiffness · nephrotic syndrome · neurotoxicity · peripheral oedema · pulmonary oedema · rebound intracranial pressure increase · renal impairment · rhinitis · seizure · thirst · urinary disorders · vision blurred
- **PREGNANCY** Manufacturer advises avoid unless essential—no information available.
- **BREAST FEEDING** Manufacturer advises avoid unless essential—no information available.
- **RENAL IMPAIRMENT** Use with caution in severe impairment.
- **PRE-TREATMENT SCREENING** Assess cardiac function before treatment.
- **MONITORING REQUIREMENTS** Monitor fluid and electrolyte balance, serum osmolality, and cardiac, pulmonary and renal function.
- **DIRECTIONS FOR ADMINISTRATION** Examine infusion for crystals. If crystals present, dissolve by warming infusion fluid (allow to cool to body temperature before administration).  
For mannitol 20%, an in-line filter is recommended (15-micron filters have been used).

- **MEDICINAL FORMS** There can be variation in the licensing of different medicines containing the same drug. Forms available from special-order manufacturers include: infusion, solution for infusion

**Infusion**▶ **Mannitol (Non-proprietary)**

**Mannitol 100 mg per 1 ml** Mannitol 50g/500ml (10%) infusion Viaflo bags | 1 bag [PoM] [X]  
Polyfusor K mannitol 10% infusion 500ml bottles | 1 bottle [PoM] £5.43

**Mannitol 150 mg per 1 ml** Mannitol 75g/500ml (15%) infusion Viaflo bags | 20 bag [PoM] [X]

**Mannitol 200 mg per 1 ml** Mannitol 50g/250ml (20%) infusion Viaflex bags | 1 bag [PoM] [X]  
Polyfusor M mannitol 20% infusion 500ml bottles | 1 bottle [PoM] £7.12

Mannitol 100g/500ml (20%) infusion Viaflex bags | 1 bag [PoM] [X]

## DIURETICS &gt; POTASSIUM-SPARING DIURETICS

## Amiloride hydrochloride

21-Jun-2019

## ● INDICATIONS AND DOSE

**Adjust to thiazide or loop diuretics for oedema in heart failure, and hepatic disease (where potassium conservation desirable)**

## ▶ BY MOUTH

- ▶ Neonate: 100–200 micrograms/kg twice daily.

- ▶ Child 1 month–11 years: 100–200 micrograms/kg twice daily; maximum 20 mg per day
- ▶ Child 12–17 years: 5–10 mg twice daily

- **UNLICENSED USE** Not licensed for use in children.
- **CONTRA-INDICATIONS** Addison's disease · anuria · hyperkalaemia
- **CAUTIONS** Diabetes mellitus
- **INTERACTIONS** → Appendix 1: potassium-sparing diuretics
- **SIDE-EFFECTS** Alopecia · angina pectoris · aplastic anaemia · appetite decreased · arrhythmia · arthralgia · asthenia · atrioventricular block exacerbated · bladder spasm · chest pain · confusion · constipation · cough · depression · diarrhoea · dizziness · drowsiness · dry mouth · dyspnoea · dysuria · electrolyte imbalance · encephalopathy · gastrointestinal discomfort · gastrointestinal disorders · gastrointestinal haemorrhage · gout · headache · insomnia · jaundice · muscle cramps · nasal congestion · nausea · nervousness · neutropenia · pain · palpitations · paraesthesia · postural hypotension · sexual dysfunction · skin reactions · tinnitus · tremor · vertigo · visual impairment · vomiting
- **PREGNANCY** Not to be used to treat gestational hypertension.
- **BREAST FEEDING** Manufacturer advises avoid—no information available.
- **RENAL IMPAIRMENT** Manufacturers advise avoid in severe impairment.  
**Monitoring** Monitor plasma-potassium concentration (high risk of hyperkalaemia in renal impairment).
- **MONITORING REQUIREMENTS** Monitor electrolytes.
- **MEDICINAL FORMS** There can be variation in the licensing of different medicines containing the same drug. Forms available from special-order manufacturers include: oral suspension, oral solution

**Oral solution**

EXCIPIENTS: May contain Propylene glycol

▶ **Amiloride hydrochloride (Non-proprietary)**

**Amiloride hydrochloride 1 mg per 1 ml** Amiloride 5mg/5ml oral solution sugar-free | 150 ml [PoM] £46.45 DT = £42.35

**Tablet**▶ **Amiloride hydrochloride (Non-proprietary)**

**Amiloride hydrochloride 5 mg** Amiloride 5mg tablets | 28 tablet [PoM] £34.50 DT = £16.69