

Guidelines for the use of Oral Proton Pump Inhibitors (PPIs) in Children

Written by: Jaini Shah (Pharmacist), March 2016

Checked by: Nanna Christiansen (CAG Lead Pharmacist), Approved by: Sandhia Naik (Consultant Paediatric Gastroenterologist)

Indication

Gastro-oesophageal reflux disease and associated gastroenterology conditions

Background

Omeprazole is currently the only PPI licensed for oral administration in children.¹ When administration via enteral feeding tubes is required, current practice is to disperse omeprazole capsule contents in sodium bicarbonate 1mmol/mL oral solution. Omeprazole (Aclomep[®]) oral solution, available as a 'Specials' product, is a more cost effective option in these groups of patients.

Presentation

Omeprazole Capsules 10 mg and 20 mg

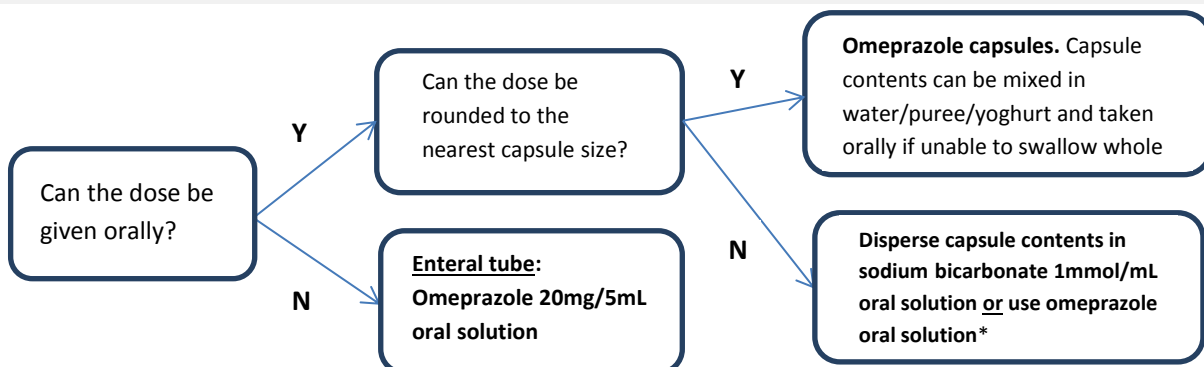
Sodium bicarbonate 1mmol/mL (84mg/mL) oral solution (100mL)

- Disperse omeprazole capsule contents in 5-10mL of sodium bicarbonate solution for 20 minutes.
- Licensed sodium bicarbonate oral solution has a 3 day expiry once opened.

Omeprazole (Aclomep[®]) 20mg/5mL Oral Solution (100mL)

- Carton contains a bottle of omeprazole powder and a bottle of diluent (sterile water).
- Prepare solution by pouring entire contents of diluent into powder bottle and shake until powder dissolved.
- Once reconstituted, store in a refrigerator at 2-8°C and discard any remaining solution after 28 days.
- **Unpleasant taste** so may not be tolerated if given orally.
- Pharmacy information: can be ordered from Oxford Pharmacy Store (specialist wholesaler).

Formulation Choice



*Give child/parents option of preferred formulation considering medication preparation and taste tolerance.

Omeprazole Dosage Information

Where possible, round the dose to the nearest capsule size

Child up to 1yr 700 micrograms/kg once a day – starting dose
Dose may be increased to 3 mg/kg (max 2.8 mg/kg for neonates) daily if necessary (max 20mg daily).

Child ≥ 2yrs (10-19kg) 10 mg once a day; may be increased to 20mg daily.

Child ≥ 2yrs (≥ 20kg) 20 mg once a day; may be increased to 40mg daily.

For all ages, total daily dose may be given in two divided doses.

Adverse effects

- Nausea, vomiting, abdominal pain, flatulence, diarrhoea, constipation, headache, dizziness, dry mouth

References

1. BNF for children 2015-2016
2. Aclomep[®] information sheet, Aclardian Limited.