

IBUPROFEN

Caldolor®

Read in conjunction with [Disclaimer](#)

Formulary: Restricted	
Presentation	Vial (Caldolor®): 800 mg/8 mL = 100 mg/mL Oral suspension: 100 mg/5 mL = 20 mg/mL
Classification	Non-steroidal anti-inflammatory drug (NSAID).
Indication	Treatment of haemodynamically significant patent ductus arteriosus (PDA).
Contraindications	<ul style="list-style-type: none"> • Severe, life-threatening infection. • Active bleeding. • Thrombocytopenia or coagulation defects. • Significant impairment of renal function. • Known or suspected necrotising enterocolitis. • Anuria or oligouria.
Monitoring	<ul style="list-style-type: none"> • Echocardiogram for ductal closure. • Urine output, urea, creatinine and electrolytes. • Assess for signs of bleeding and platelet dysfunction.
Compatibility	Fluids: Sodium chloride 0.9%, glucose 5% Y-site: Very limited data available, avoid administration with other medications.
Incompatibility	Ibuprofen is incompatible with chlorhexidine – do not use chlorhexidine to disinfect the neck of the IV ibuprofen ampoule.
Interactions	<ul style="list-style-type: none"> • Fluconazole: May increase concentration of ibuprofen, increasing risk of adverse effects. • Diuretics: Ibuprofen may reduce diuretic effect and the combination may increase risk of nephrotoxicity. • Anticoagulants: Ibuprofen may increase the effect of anticoagulants and increase risk of bleeding. • Corticosteroids: Combination may increase risk of gastrointestinal bleeding.
Adverse Effects	Gastrointestinal upset, gastrointestinal bleeding/perforation, intraventricular bleeding, fluid retention, neutropenia, thrombocytopenia, renal impairment, hyperkalaemia, hypertension, skin reactions/rash.
Storage & Stability	Vial (Caldolor®): Store at room temperature, below 25 °C. Oral suspension: Store at room temperature, below 25 °C.



ORAL

**Presentation
(for oral use)**

Oral suspension: 100 mg/5 mL = 20 mg/mL

Dosage

Standard/low dose regimen

Single daily dose as follows:

Dose 1	Dose 2	Dose 3
10 mg/kg/dose	5 mg/kg/dose	5 mg/kg/dose

High dose regimen

Prescribed on consultant advice.

Avoid use in neonates less than 72 hours old or with renal impairment.

Single daily dose as follows:

Dose 1	Dose 2	Dose 3
20 mg/kg/dose	10 mg/kg/dose	10 mg/kg/dose

Administration

- Shake well before use.
- Draw prescribed dose into oral/enteral syringe.
- Can be given Oral/OGT/NGT.
- Give with or soon after a feed.



INTRAVENOUS

**Presentation
(for IV use)**

Vial (Caldolor®): 800 mg/8 mL = 100 mg/mL

Dosage

Standard/low dose regimen

Single daily dose as follows:

Dose 1	Dose 2	Dose 3
10 mg/kg/dose	5 mg/kg/dose	5 mg/kg/dose

High dose regimen

Prescribed on consultant advice.

Avoid use in neonates less than 72 hours old or with renal impairment.

Single daily dose as follows:

Dose 1	Dose 2	Dose 3
20 mg/kg/dose	10 mg/kg/dose	10 mg/kg/dose

Preparation

Caldolor®: 800 mg/8 mL = 100 mg/mL

Dilution:

- Draw up 0.5 mL (50 mg) of ibuprofen and make up to 20 mL total volume with compatible fluid.
- *Concentration now equal to 2.5 mg/mL.*

Administration

IV infusion:

Infuse via syringe driver pump over 30 minutes

Related Policies, Procedures, and Guidelines

Clinical Practice Guidelines:

[CAHS Neonatology – Patent Ductus Arteriosus](#)

Pharmaceutical and Medicines Management Guidelines:

[CAHS Neonatology – Medication Administration Guideline](#)

References

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