IBUPROFEN LYSINE (NEOPROFEN)

This is a Category A Special Access Scheme Medication and written informed consent is required prior to treatment with this drug. The SESIAHS “Consent for Exceptional Use of Medicine” must be completed along with the Category A Form Special Access Scheme.

DESCRIPTION
Non-steroidal anti-inflammatory agent. Neoprofen® is a clear, sterile, preservative-free solution of Lysine salt (±)-ibuprofen. L-lysine is used to create a water-soluble drug product salt suitable for intravenous administration.

USE
Treatment of patent ductus arteriosus

PRESENTATION
20mg/2ml ampoule

DOSE
Three suggested drug regimens at the discretion of the neonatologist:

<table>
<thead>
<tr>
<th>Regimens</th>
<th>Day1</th>
<th>Day2</th>
<th>Day3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>10mg/kg</td>
<td>5mg/kg</td>
<td>5mg/kg</td>
</tr>
<tr>
<td>High dose</td>
<td>20mg/kg</td>
<td>10mg/kg</td>
<td>10mg/kg</td>
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<tr>
<td>Postnatal age optimised</td>
<td></td>
<td></td>
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<tr>
<td>Age at the commencement of treatment</td>
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<tr>
<td>0-72 hrs</td>
<td>10mg/kg</td>
<td>5mg/kg</td>
<td>5mg/kg</td>
</tr>
<tr>
<td>73-120 hrs</td>
<td>14mg/kg</td>
<td>7mg/kg</td>
<td>7mg/kg</td>
</tr>
<tr>
<td>&gt;120 hrs</td>
<td>18mg/kg</td>
<td>9mg/kg</td>
<td>9mg/kg</td>
</tr>
</tbody>
</table>

Second course can be given using any of the above regimens if PDA fails to close following the first course of Ibuprofen

ROUTE
IV infusion ONLY

RECONSTITUTION
Add 3ml of 0.9% sodium chloride to 1ml of Ibuprofen Lysine (20mg/2ml) to make a 2.5mg/ml solution

ADMINISTRATION
IV infusion over 15 mins using the proximal IV bung

STORAGE
Discard unused portion

MONITORING
Monitor urine output, signs of bleeding, serum electrolytes

ADVERSE EFFECTS
Thrombocytopenia, Neutropenia
Intraventricular Haemorrhage, Periventricular Leukomalacia
Bronchopulmonary Dysplasia, Pulmonary Haemorrhage, GI bleed
Worsening Hypoxemia with Pulmonary Hypertension
Necrotizing Enterocolitis, Intestinal Perforation
Oliguria, Fluid Retention, Haematuria
Hyponatraemia, Elevated creatinine
Overdose of >100mg/kg can lead to CNS depression, seizures, GI disturbances and renal impairment

DRUG INTERACTIONS
Increases gentamicin levels in blood
NEWBORN USE ONLY
GIVEN ON DOCTORS ORDER ONLY

IBUPROFEN LYSINE cont.

CONTRAINDICATIONS Life threatening infection
Active bleeding, especially intracranial or gastrointestinal haemorrhage
Thrombocytopenia or coagulation defects
Significant renal impairment
Significant jaundice
Necrotising enterocolitis
Duct dependent congenital heart disease

SOLUTION COMPATIBILITY 0.9% sodium chloride, 5% dextrose

INCOMPATIBILITY Do not infuse with any other drugs or solutions

REFERENCE
NEOPROFEN product information. Lundbeck, 2012 USA
Ohlsson A, Gala R, Shah SS. Ibuprofen for the treatment of patent ductus arteriosus in preterm and/or low birth weight infants. Cochrane Database of Systematic Reviews 2008, Issue 1