DESCRIPTION

USE
1. Closure of patent ductus arteriosus in preterm infants.
2. Prevention of intraventricular haemorrhage in extremely low birth weight infants.

CONTRAINDICATION
Infants with active bleeding such as GI bleeding or IVH, significant thrombocytopenia, or coagulation defects, necrotizing enterocolitis, significantly impaired renal function and/or PDA dependent congenital heart defects.

PHARMACOKINETICS
Decreases cerebral, renal and GI blood flow. Metabolised in the liver to inactive compounds and excreted in the urine and faeces.

PRESENTATION
1mg (1000mcg)/powdered vial
0.5ml of Indomethacin 500mcg/ml pre-made syringe

DOSE
CLOSURE OF PDA 100mcg/kg/dose 24 hourly. Usually 6 doses are given, but fewer dose may be required depending on the clinical or echocardiographic findings.

PREVENTION OF IVH This is at the discretion of neonatologist on-call. 100mcg/kg 24 hourly for 3 doses beginning at 6-12 hours of age.

ROUTE
IV injection

RECONSTITUTION
VIAL Add 2ml of water for injection to vial to make a 500mcg/ml solution.
FURTHER DILUTE 1ml of reconstituted solution (500mcg/ml) with 9ml of water for injection to give a 50mcg/ml solution.

PRE-MADE SYRINGE Add 4.5ml of water for injection to 0.5ml of pre-made indomethacin (500mcg/ml) to make a 50mcg/ml solution.

ADMINISTRATION
IV infusion over 20-30 minutes

STORAGE
Discard unused portion

MONITORING
Urine output, serum electrolytes, creatinine and platelet count. Medical assessment prior to each dose; assess cardiac murmur, pulse pressure and renal effects. Note colour of gastric aspirates and stool for blood. Test urine for specific gravity, and full dip-stick test daily.

ADVERSE EFFECT
1. Decreases renal and gastrointestinal blood flow
2. Platelet dysfunction
3. Hyponatraemia
INDOMETHACIN  cont

**DRUG INTERACTION**  Digitalis and aminoglycoside effects may be enhanced, therefore monitor levels of these drugs closely. Concomitant use of frusemide and indocid may increase glomerular filtration rate and therefore urinary output.

**SOLUTION COMPATIBILITY**  water for injection

**COMPATIBILITY VIA Y SITE**  furosemide, insulin, nitroprusside, potassium chloride and sodium bicarbonate.

**INCOMPATIBILITY**  dextrose, amino acid solution, calcium gluconate, cimetidine, dobutamine, dopamine, gentamicin, tobramycin and tolazoline.

**REFERENCE**