

---

# IBUPROFEN

# Injection

---

## TRADE NAME

- Pedea.
- 

## INDICATION

- Prostaglandin inhibitor to treat patent ductus arteriosus.
- 

## DOSAGE RANGE GUIDELINES

- **Initial dose:** 10 mg/kg.
  - **Second dose:** 5 mg/kg 24 hours later.
  - **Third dose:** 5 mg/kg 48 hours after initial dose.
  - Should not be given within 6 hours of birth.
- 

## ADVERSE EFFECTS

- Reduced urine output but less frequently observed compared to Indomethacin.
  - Increased serum creatinine and urea.
  - Platelet dysfunction and bleeding tendency.
  - Cases of profound hypoxaemia have been noted when used prophylactically for ductal closure in the first 6 hours of life. Patients responded to inhaled nitric oxide.
- 

## COMMENTS

- Contraindicated in neonates with bleeding/coagulation defects (platelet count  $<60\,000 \times 10^9/L$ ).
  - If there is anuria or marked oliguria ( $<0.5$  ml/kg/hour), withhold until renal function recovers.
  - Caution with necrotising enterocolitis and hepatic disease and use of nephrotoxic drugs e.g. Gentamicin, Netilmicin, Vancomycin.
  - Unlike Indomethacin, does not appear to reduce cerebral or mesenteric perfusion.
  - Monitor urine output during treatment and check creatinine before and after completion of course.
-

---

## FORMULATION

- Pedea ®, Orphan Europe.
- 2 ml ampoule of clear and colourless to slightly yellow solution containing 10 mg ibuprofen (5 mg/ml).

---

## PREPARATION

- Draw up required amount of injection solution.

---

## ADMINISTRATION

- Flush infusion line with 1.5 to 2 ml of either sodium chloride 0.9% or 5% glucose before and after infusion.
- Infuse over 15 minutes.
- Preferably infuse undiluted. If dilution is required the injection solution may be mixed with either sodium chloride 0.9% or 5% glucose.

---

## STORAGE

- Discard unused portion.
- Store at room temperature.

---

## RECORDING

- A list consisting of patient's name, date and doctor prescribing must be kept at the back of the nursery admission book.

---

## REFERENCES

van Overmeier B et al. A comparison of ibuprofen and indomethacin for closure of patent ductus arteriosus. N Engl J Med 2000; 343: 674-81.  
Pedea® Product Information.Orphan Europe.