Ibuprofen for the treatment of patent ductus arteriosus in preterm and/or low birth weight infants-our expirience

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BACKGROUND: Ibuprofen is cyclo-oxygenase inhibitor, is used in closure of patent ductus arteriosus in preterm and/or low birth weight neonates.

OBJECTIVES: To determine the efficacy and safety of ibuprofen for closing a PDA in preterm and/or low birth weight infants in our hospital.

RESULTS: We used ibuprofen intravenous for closure of PDA in 8 preterm and low birth weight neonates. Three of them had hyperglycemia during administration period of ibuprofen, in 5 neonates PDA was successfully closed, one neonate had surgical closure of PDA because of failed closure by ibuprofen and one baby died because of intracranial hemorrhage.

CONCLUSIONS: Ibuprofen is as effective in closing a PDA and reduces the risk of NEC and transient renal insufficiency. Given the reduction in NEC ibuprofen currently appears to be the drug of choice. Studies are needed to evaluate the hyperglycemia as a side effect during administration of ibuprofen.