Supplementary Figure S1: Postoperative Analgesia Protocol

The Postoperative Analgesia Protocol used at the Paediatric Intensive Care Unit of Erasmus University Medical Centre – Sophia Children’s Hospital since 1999.
Postoperative Analgesia Protocol
Paediatric Intensive Care Unit
Erasmus University Medical Centre - Sophia Children's Hospital

End of surgery
1) Loading dose morphine 100 mcg/kg
2) Start continuous infusion: 10 mcg/kg/hr

-> Transport to PICU

Apply COMFORT-B score and NRS pain after return OR. Next every 2 hours

NRS pain score: 4-10 AND COMFORT-B score: 17-30?

Yes

Apply nursing interventions to comfort the child

Apply COMFORT-B score and NRS pain

NRS pain score: 4-10 AND COMFORT-B score: 17-30?

Yes after third bolus

Bolus morphine IV at minimally 10 minutes intervals (max of three per hour)
• Age below 3 months 10 mcg/kg
• Age over 3 months 15 mcg/kg

No

Ventilated?

Yes

Consult physician

Loading dose morphine 100 mcg/kg
AND increase continuous morphine by 5 mcg/kg/hr

Apply COMFORT-B score and NRS pain

NRS pain score: 4-10 AND/OR COMFORT-B score: 17-30?

Yes

Tapering off morphine

Decrease morphine infusion by 5-10 mcg/kg/hr per day

Start paracetamol supp. shortly before or after end morphine
Loading dose: 30-40 mg/kg
Maintenance: 60-90 mg/kg/day

No

Yes first to third bolus

After each bolus

NRS pain score: 0-3 AND COMFORT-B score: 6-16 for 12-24 hours

No

Yes

Apply COMFORT-B score and NRS pain every 2 hours

NRS pain score: 0-3 AND COMFORT-B score: 6-16 for 12-24 hours

Start paracetamol supp. shortly before or after end morphine
Loading dose: 30-40 mg/kg
Maintenance: 60-90 mg/kg/day