



NEWBORN EMERGENCY TRANSPORT SERVICE MEDICAL GUIDELINES

CLINICAL GUIDELINES

Fluid management
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Newborn Emergency Transport Service Medical Guidelines
King Edward Memorial/Princess Margaret Hospitals
Perth Western Australia
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Fluid Management

- Type & volume of fluid depends on infant's gestational age & disease process.
- Typical glucose requirements for term neonates: 4-6mg/kg/min & preterm neonates: 6-8mg/kg/min.
- As a guide, use:
 - Normal saline for fluid expansion
 - 10% glucose + 0.22% saline (>34 weeks)
 - 7.5 % glucose + 0.22% saline (27-34 weeks.)
 - 5% glucose (<27 weeks)
- Maintenance fluids for term neonates are usually approximately 60ml/kg/day on Day 1.
 - Extreme preterm babies usually require much more (100-120ml/kg/day) due to ↑ insensible fluid losses.
 - Asphyxiated infants are often fluid restricted to approximately 40ml/kg/day. In these circumstances, **the percentage concentration of glucose must be increased, as avoidance of hypoglycaemia is more important than fluid restriction.**