# Neonatal Medication Protocols

**AMIKACIN**  
**PRESENTATION:** Vial: 500mg/2mL  
**ACTION & INDICATION:** Semi-synthetic aminoglycoside for treatment of serious infection due to susceptible strains of gram negative bacilli  
**DOSE:**  
- Corrected gestational age:  
  - < 30 weeks: 7.5 mg/kg/dose 24 hourly  
  - 30-36 weeks: 10 mg/kg/dose 24 hourly  
- Term: 1st week of life 15 mg/kg/dose 24 hourly  
- 2nd week of life onwards: 22.5mg/kg/dose 24 hourly  
**PREPARATION:** Use solution prepared in Pharmacy if available.  
Diluent: Water for Injections, Glucose 5%, sodium chloride 0.9%  
Draw up contents of vial, make up to 50mL  
= 500mg in 50mL  
= 10mg/mL  
**ADMINISTRATION:**  
- Intramuscular  
- Intravenous: Infuse over 20 to 30 minutes  
**ADVERSE EFFECTS:** Hearing loss, reduced renal function, renal failure, vertigo, anaemia, arthralgia.  
Toxicity may be enhanced by concurrent administration of diuretic.  
**COMMENTS:** Discard vial immediately after use  
**DRUG LEVELS:** Trough: < 5mg/L  
Sample immediately prior to 4th dose and every 3 to 5 days thereafter  
Peak: Not required  
**REFERENCES:** Paediatric Pharmacopoeia 13th Ed Royal Children’s Hospital Melbourne  
**DATE:** August 2013