

Amikacin

Drug Type Antibacterial

Indication Second line aminoglycoside used in gram negative bacillary infection resistant to Gentamycin eg Klebsiella pneumoniae and serratia marcescens.

Action Bacteriocidal agent which inhibits protein synthesis in susceptible bacteria.

Presentation 500mg / 2ml vial

Dose	Corrected GA	mg/Kg/dose	Interval(hr) by post-natal age			
			<29 days	36	>28 days	24
	<30 weeks	18	<15 days	36	>14 days	24
	30+ 0 to 36+ 6 weeks	18	<8 days	24	>7 days	24
	≥ 37 weeks	16				

Levels Peak: Trough:

Dilution Dilute 0.6ml [150mg] from the 500mg/2ml vial with 50 mls normal saline or 5% dextrose to make a 150mg/50ml solution.

Administration Syringe pump over 1 hour

Incompatible Other antibiotics; heparin; phenytoin; mannitol; frusemide

Side Effects Ototoxic and nephrotoxic - avoid concurrent use of Frusemide

Contraindications

Other Considerations Excreted is by the kidney and the dose interval may need to be increased if there is evidence of renal compromise. It may prolong the action of neuromuscular blocking agents. Serum levels should be monitored.

References Barr P, Berry A. [1994]. Drug Therapy in Newborn Infants. Prescribing Information. Sydney: The Royal Alexandra Hospital for Children.

Young TE, Mangum B [2000]. Neofax: A manual of drugs used in neonatal care. Acorn Publishing, Inc. Raleigh, NC 27619