

عنوان مقاله:

Clinical Pharmacokinetics of Amikacin in Neonates

محل انتشار:

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خلاصه مقاله:

Amikacin is a bactericidal aminoglycoside. Aminoglycosides inhibit bacterial protein synthesis. The antibacterial spectrum of amikacin is the broadest of aminoglycosides. Because of its resistance to many of the aminoglycosides-inactivating enzymes, it has a special role in hospitals where gentamicin- and tobramycin-resistant microorganisms are prevalent. Amikacin is active against the majority of aerobic gram-negative bacilli in the community and in the hospitals. This includes most strains of *Serratia*, *Proteus*, *Enterobacter*, and *Escherichia coli* that are resistant to gentamicin and tobramycin. Amikacin is active against *Mycobacterium tuberculosis* (99% of strains are inhibited by 4 µg/ml amikacin), including streptomycin-resistant strains atypical mycobacteria. The gastrointestinal absorption of amikacin is minimal and is largely excreted through the renal glomerulus. In neonates, the dose of amikacin is 15 mg/kg. In the first week of life, a loading dose of 10 mg/kg followed by a maintenance regimen of 7.5 mg/kg has been suggested. After the first week of life, the corresponding doses are 17 mg/kg (loading dose) and 15 mg/kg (maintenance dose). The peak and trough doses of amikacin should be 20-30 µg/ml and

کلمات کلیدی:

Amikacin, effects, neonate, Pharmacokinetics

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