Genacyn® Injection

COMPOSITION
Genacyn® 20 Injection : Each 2 ml ampoule contains Gentamicin BP 20 mg as sulphate.
Genacyn® 80 Injection : Each 2 ml ampoule contains Gentamicin BP 80 mg as sulphate.

PHARMACOLOGY
Genacyn® injection contains Gentamicin Sulphate, which is an aminoglycoside antibiotic. Gentamicin is a proven bactericidal antibiotic active against an extremely broad spectrum of Gram-positive and Gram-negative pathogens including *E. coli*, *Klebsiella*, *Proteus*, *Pseudomonas aeruginosa* and penicillin resistant strains of *Staph. aureus*. The exact mechanism of action has not been determined but in common with other aminoglycoside antibiotic it appears to interfere with protein synthesis of bacterial cell.

INDICATION
Genacyn® injection is indicated for septicaemia and neonatal sepsis; meningitis and other CNS infection; biliary tract infection, acute pyelonephritis or prostatitis, endocarditis caused by *Strep. viridans* or *faecalis* and Gentamicin sensitive other organisms.

DOSAGE AND ADMINISTRATION
Genacyn® injection is given intramuscularly normally, but may be given intravenously if required.

Patients with normal renal function: 2-5 mg/kg body wt. daily, in divided doses every 8 hours. Patients with impaired renal function the interval between doses should be increased to 12 hours when the creatinine clearance is 30-70 ml/minute, 24 hours for 10-30 ml/minute, 48 hours for 5-10 ml/minute and 3-4 days after dialysis for less than 5 ml/minutes or may be given as directed by the physician.

Child up to 2 weeks 3 mg/kg body weight every 12 hours.
2 weeks - 12 years 2 mg/kg body weight every 8 hours.
Or as directed by the physician.
CONTRAINDICATION AND PRECAUTION
Genacyn® injection is contraindicated to patients hypersensitive to Gentamicin. It is contraindicated in pregnancy and myasthenia gravis.

SIDE EFFECT
Vestibular damage, reversible nephrotoxicity, auditory ototoxicity may cause. Symptoms are dizziness, vertigo, tinnitus, roaring in the ears, rarely hearing loss. Also numbness, skin tingling, muscle twitching, convulsions. Adverse renal effects may be also caused, more frequently in patients with a history of renal impairment treated with larger doses than recommended.

DRUG INTERACTION
Concurrent use with other potentially nephrotoxic or ototoxic drug substances should be avoided.

Frusemide and piretanide may potentiate the ototoxicity of gentamicin and ethacrynic acid, which is ototoxic in its own right, should be avoided with gentamicin.

USE IN PREGNANCY AND LACTATION
Safety for use in pregnancy and lactation has not been established. Gentamicin crosses the placenta and there is a risk of ototoxicity in the foetus. Gentamicin should only be used where the seriousness of the mother's condition justifies the risk.

STORAGE CONDITION
Genacyn® injection should not be mixed with any other drug prior to administration.

HOW SUPPLIED
Genacyn® 20 injection: Box containing 2 x 5 ampoules in a blister pack. Genacyn® 80 injection: Box containing 2 x 5 ampoules in a blister pack.