



**MEDLEY PHARMACEUTICALS**

## **KANAMED** Injection

(Kanamycin)

### **PRESENTATION:**

Each 4ml of ampoule contains:

Kanamycin Sulphate equivalent to Kanamycin base.....1000mg (USP Specs.)

### **PHARMACODYNAMICS:**

Kanamycin (aminoglycosides) is taken up by the sensitive bacterial cell by active transport mechanism and binds with the 30S ribosomal subunit and to some extent 50S ribosomal subunit, interfering with the protein synthesis of the bacterial cell resulting cell death.

### **SPECTRUM OF ACTIVITY:**

It is effective against many strains of Gram-Negative bacteria including species of *Brucella*, *Calymmatobacterium*, *Campylobacter*, *Citrobacter*, *Escherichia*, *Enterobacter*, *Francisella*, *Klebsiella*, *Proteus*, *Providencia*, *Pseudomonas*, *Serratia*, *vibrio* and *Yersinia*. Gram\_positive strains are *Staphylococcus aureus*, *Listeria monocytogenes*, and some strains of *Staph. epidermidis* are also sensitive to kanamycin.

### **PHARMACOKINETICS:**

It is rapidly absorbed after Intramuscular injection. Half life ( $t_{1/2}$ ) is 2-4 hours and increases in anuria to 80 hours. Time to reach peak plasma concentration through IM injection is 1-2 hours. Elimination is entirely through kidney principally by glomerular filtration.

### **INDICATIONS:**

Postoperative bowel preparation in the prophylaxis of infections and adjunctive treatment of hepatic coma. Treatment of susceptible bacterial infections including Gram-Negative aerobes, Gram-Positive Bacillus as well as some *Mycobacteria*. Rarely used in antibiotic irrigation during surgery.

### **CONTRAINDICATIONS:**

Hypersensitivity to kanamycin or any component or to aminoglycosides.



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**Medley Pharmaceuticals**  
41-A, P.S.I.E. Jhang Bahtar Road,  
Wah Cantt- Rawalpindi



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### **DOSAGE:**

Adults: Infections: IM 15mg/kg body weight daily to a maximum of 1.5gm daily in 2-4 divided doses.

Children: Infections: Similar doses can be used in children.

Treatment of acute infections should not continue more than 7-10 days or exceed a cumulative dose of 10g of kanamycin. A single dose of 2gm of kanamycin has been used in the penicillin-resistant gonorrhea. In the treatment and prophylaxis of neonatal gonococcal infections in infants born to mother with gonorrhea, 25mg/kg body weight, up to maximum of 75mg may be given as a single intramuscular dose.

Or as directed by the Physician.

### **ADVERSE EFFECTS:**

Edema, neurotoxicity, drowsiness, headache, skin itching, redness and rashes, photosensitivity. Malabsorption syndrome with prolonged and high dose therapy of hepatic coma, enterocolitis, granulocytopenia, thrombocytopenia, ototoxicity (auditory), ototoxicity (vestibular) nephrotoxicity.

### **PRECAUTIONS:**

Use with caution in the patients with pre-existing renal insufficiency, vestibular or cochlear impairment, myasthenia gravis and any condition which depress neuromuscular transmission.

### **PACKING:**

Kanamed is available as 1 × 4ml single dose ampoule.



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