

# SUPER CHOICE FOR SUPER BUGS



# MYXITIN

Colistimethate Sodium For Injection 1 MIU / 2 MIU / 3 MIU

Now available in 4.5 MIU

[La Renon](#)

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## Description:

Myxitin is a cyclic polypeptide antibiotic derived from *Bacillus colistinus*.

## Indication:

Myxitin for Injection is indicated for the treatment of acute or chronic infections due to sensitive strains of certain gram-negative bacilli. It is particularly indicated when the infection is caused by sensitive strains of *Pseudomonas aeruginosa*. Myxitin for Injection has proven clinically effective in treatment of infections due to the following gram-negative organisms: *Enterobacter aerogenes*, *Escherichia coli*, *Klebsiella pneumonia*, *Acinetobacter baumannii* and *Pseudomonas aeruginosa*. Myxitin for Injection may be used to initiate therapy in serious infections that are suspected to be due to gram-negative organisms and in the treatment of infections due to susceptible gram-negative pathogenic bacilli.

## Mechanism of Action:

Myxitin is a surface active agent which penetrates into and disrupts the bacterial cell membrane. It is polycationic and has both hydrophobic and lipophilic moieties and interacts with the bacterial cytoplasmic membrane, changing its permeability. This effect is bactericidal. There is also evidence that polymyxins enter the cell and precipitate cytoplasmic components, primarily ribosomes.

## Dosage:

### Adults and adolescents

Maintenance dose 9 million IU/day in 2-3 divided doses. In patients who are critically ill, a loading dose of 9 MIU should be administered. The most appropriate time interval to the first maintenance dose has not been established.

Modelling suggests that loading and maintenance doses of up to 12 MIU may be required in patients with good renal function in some cases. Clinical experience with such doses is however extremely limited, and safety has not been established.

The loading dose applies to patients with normal and impaired renal functions including those on renal replacement therapy.

### Paediatric

Children  $\leq$  40kg: 75,000-150,000 IU/kg/day divided into 3 doses.

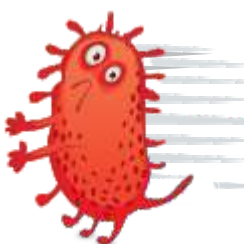
For children with a body weight above 40 kg, use of the dosing recommendation for adults should be considered.

### Impaired renal function:

Mild (Cr Cl 20-50 mL/min): 1-2 MIU q 8hr. Moderate (Cr Cl 10-20 mL/min): 1 MIU q 12-18 hr. Severe (Cr Cl less than 10 mL/min): 1 MIU q 18-24hr. Solution for single use only and to be infused over a period of 30 minutes.

## Presentation:

MYXITIN- Colistimethate sodium for injection vial is available in strengths of 1 MIU, 2 MIU, 3 MIU and 4.5 MIU.



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