GENTAMICIN 4% and 10% Solution for injection (gentamicin sulphate)

COMPOSITION

<table>
<thead>
<tr>
<th>Content</th>
<th>Gentamicin 4% Solution for injection</th>
<th>Gentamicin 10% Solution for injection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gentamicin sulphate, equivalent to gentamicin base</td>
<td>0.04 g</td>
<td>0.1 g</td>
</tr>
<tr>
<td>Excipients</td>
<td>Up to 1 ml</td>
<td>Up to 1 ml</td>
</tr>
</tbody>
</table>

PHARMACOLOGICAL ACTION

Gentamicin is an aminoglycoside antibiotic with a bactericidal static effect mainly against Gram-negative microorganisms: *E. coli*, *Salmonella spp.*, *Klebsiella spp.*, *Shigella spp.*, a number of *Proteus* and *Pseudomonas* strains, some Gram-positive microorganisms such as: *Staphylococci*, beta-hemolytic *Streptococci* and *Corynebacteria spp.*, as well as *Mycoplasma spp.*

It is quickly absorbed from the injection site and is retained in the blood and tissues for 12-24 h. It is eliminated unchanged in the urine, where its concentration significantly exceeds that in the blood.

INDICATIONS

For treatment of respiratory, gastrointestinal and urogenital infections (bronchitis, pneumonia, pyelonephritis, cystitis, urethritis, endometritis, colibacillosis, salmonellosis, infected wounds, pyodermia sepsis, etc.), caused by gentamicin-sensitive microorganisms.

CONTRAINDICATIONS

In cases of continuous administration in higher doses the preparation may cause heavy nephritis and damages of the vestibular and hearing organs, especially in cats. If ataxia and vomiting occur, the treatment must be terminated.

MODE OF ADMINISTRATION

*Intramuscularly, subcutaneously, orally* and *intrauterinally*.

TARGET SPECIES

Ruminants, horses, pigs, chickens, dogs and cats.

DOSAGE

*Intramuscularly*

<table>
<thead>
<tr>
<th>Species</th>
<th>Gentamicin 4% Solution for injection, mg/ kg b.w.</th>
<th>Gentamicin 4% Solution for injection, ml/ 100 kg b.w.</th>
<th>Gentamicin 10% Solution for injection, mg/ kg b.w.</th>
<th>Gentamicin 10% Solution for injection, ml/ 100 kg b.w.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ruminants, horses</td>
<td>2 – 4</td>
<td>5 – 10</td>
<td>2 – 4</td>
<td>2 – 4</td>
</tr>
<tr>
<td>Pigs</td>
<td>5</td>
<td>12.5</td>
<td>5</td>
<td>0.5</td>
</tr>
<tr>
<td>Dogs and cats</td>
<td>4 – 6</td>
<td>1.0 – 1.5</td>
<td>4 – 6</td>
<td>0.4 – 0.6</td>
</tr>
</tbody>
</table>
On the first day, the dose must be injected twice at a 12-hour interval. Subsequently, Gentamicin 4% and Gentamicin 10% are administered once per day for not more than 7 consecutive days.

**Orally, with the drinking water**

In chickens of older age - Use 2.5 ml of Gentamicin 4% and 1 ml of Gentamicin 10% for litter drinking water in the course of 4-5 days.

**Subcutaneously**

In chickens (for control of colibacillosis and paratyphus) the preparation is diluted with sterile distilled water (1:40) for Gentamicin 4% and (1:100) for Gentamicin 10% and is injected at a dose rate of 0.2 ml/1-day-old chicken.

**Intrauterinally**

In cows (for treatment of endometritis) 5.0 ml of Gentamicin 4% and 2.0 ml of Gentamicin 10% is diluted with 20-50 ml isotonic solution of sodium chloride.
In mares 12.5 ml of Gentamicin 4% and 5.0 ml of Gentamicin 10% diluted with 200 ml isotonic solution of sodium chloride.
In case of pyometra the exudate must be preliminarily removed.

**SIDE EFFECTS**

Severe renal disorders accompanied by azotemia.
Do not apply simultaneously with general anesthetics, muscle relaxants, other aminoglycosides, polymyxins.

**WITHDRAWAL PERIOD**

For meat (excluding kidneys and injection site) – 7 days after the last administration of the preparation.
For kidneys and injection site – 45 days after the last administration of the preparation.
For milk – 2 days after the last administration of the preparation.

**STORAGE**

In the original packing, well closed, in dry and well-ventilated facilities, protected from direct sunlight.

**PACKING**

Multidose vials of 50 ml.