

# Moxyplit CV 600 Injection

## Amoxicillin (500mg) + Clavulanic Acid (100mg) Injection

### Composition:

#### Each vial contains:

- **Amoxicillin (as Amoxicillin Trihydrate) - 500mg**
- **Clavulanic Acid (as Potassium Clavulanate) - 100mg**

### Description:

Amoxicillin is a broad-spectrum antibiotic belonging to the penicillin class. It inhibits bacterial cell wall synthesis, leading to bacterial death. Clavulanic acid is a beta-lactamase inhibitor, which protects amoxicillin from degradation by beta-lactamase-producing bacteria, enhancing the spectrum of activity against resistant organisms.

### Indications:

Amoxicillin + Clavulanic Acid injection is indicated for the treatment of infections caused by susceptible microorganisms, including:

- **Respiratory Tract Infections:** Pneumonia, acute otitis media, sinusitis, and bronchitis.
- **Urinary Tract Infections:** Cystitis, pyelonephritis, and other urinary tract infections.
- **Skin and Soft Tissue Infections:** Cellulitis, impetigo, infected wounds, abscesses.
- **Intra-abdominal Infections:** Peritonitis, intra-abdominal abscesses.
- **Gynecological Infections:** Pelvic inflammatory disease (PID).

- **Bone and Joint Infections:** Osteomyelitis, septic arthritis.

### Dosage and Administration:

- **Adults and Children  $\geq 12$  years:** The usual dose is 1.6g (containing 1.5g of amoxicillin and 0.3g of clavulanic acid) every 8 hours. In severe infections, the dose may be increased as directed by the healthcare provider.
- **Children (3 months to 12 years):** The usual dose for children is 25mg/kg to 45mg/kg of amoxicillin per day, divided into two or three doses. Neonates (under 3 months): Dosing should be determined by a healthcare provider, as it varies based on the age and severity of the infection.

### Preparation and Administration:

- **Reconstitute the injection with the recommended diluent (usually sterile water or normal saline) as specified in the product instructions.**
- **Once reconstituted, administer the solution via intravenous (IV) or intramuscular (IM) injection, as per the healthcare provider's recommendation.**
- **For IV administration, inject slowly over 3-4 minutes. The healthcare provider will determine the exact method and duration of administration.**

### Contraindications:

- **History of Jaundice or Hepatic Dysfunction:** Related to previous use of amoxicillin/clavulanic acid.

### Precautions:

- **Hypersensitivity Reactions:** Use with caution in patients with a history of penicillin allergy. Severe allergic reactions (anaphylaxis) may occur.
- **Renal and Hepatic Impairment:** Regular monitoring is recommended for patients with renal or hepatic disease. Dose adjustments may be necessary.
- **Superinfection:** Prolonged use may result in overgrowth of non-susceptible organisms, including fungi.

#### **Side Effects:**

##### **Common side effects include:**

- **Gastrointestinal:** Nausea, vomiting, diarrhea, abdominal discomfort.
- **Dermatologic:** Rash, itching, or hives.
- **Headache:** Mild headache may occur.

##### **Serious side effects (rare but possible):**

- **Severe Allergic Reactions:** Anaphylaxis, angioedema (swelling of the face, lips, tongue, or throat).
- **Liver Toxicity:** Hepatitis, elevated liver enzymes, jaundice.
- **Severe Diarrhea:** Clostridium difficile-associated diarrhea, requiring discontinuation of the drug.

#### **Drug Interactions:**

- **Oral Contraceptives:** Amoxicillin may reduce the effectiveness of oral contraceptives. Consider additional methods of contraception.
- **Probenecid:** May reduce the renal clearance of amoxicillin, leading to increased plasma concentrations.
- **Methotrexate:** Amoxicillin can decrease methotrexate clearance, increasing the risk of toxicity.
- **Anticoagulants:** Increased risk of bleeding when taken with anticoagulants such as warfarin.

#### **Storage:**

- Store the injection vials at room temperature (15°C to 30°C) in a dry place, protected from light.
- After reconstitution, use the injection within 24 hours at room temperature or 48 hours if refrigerated.

#### **Overdose:**

In the case of overdose, symptoms may include gastrointestinal disturbances such as nausea, vomiting, and diarrhea. In severe cases, seizures or renal dysfunction may occur.

- Treatment is supportive and symptomatic.
- Gastric lavage or activated charcoal may be used for recent overdoses. Dialysis may assist in clearing amoxicillin and clavulanic acid from the bloodstream.

#### **Packaging:**

**Amoxicillin (500mg) + Clavulanic Acid (100mg) injection is available in vials containing powder for reconstitution.**

#### **Note:**

- Complete the full course of therapy as prescribed to prevent antibiotic resistance.
- Always consult a healthcare provider before starting or discontinuing the medication.
- Regular monitoring is essential for patients with renal, hepatic, or hypersensitivity issues during treatment.

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