

Doxyclop 100 Injection

Doxycycline (100 mg) + Vitamin C (100 mg) Injection

body's defense mechanisms, which can be beneficial during infection treatment.

Description

Doxycycline, a broad-spectrum antibiotic, combined with Vitamin C, an essential antioxidant, provides dual therapeutic benefits. Doxycycline is used for the treatment of a variety of bacterial infections, including respiratory, urinary tract, and skin infections, while Vitamin C aids in the enhancement of immune function and the protection of cells against oxidative stress. This combination is used in clinical settings where bacterial infection management is needed along with supporting immune health or counteracting oxidative damage.

Composition

Each vial (or ampoule) contains:

- Doxycycline: 100 mg
- Vitamin C (Ascorbic Acid): 100 mg

Excipients: Q.S. (for injection, may include sodium chloride, water for injection, or stabilizers).

Pharmacological Action

- **Doxycycline:** Doxycycline is a tetracycline-class antibiotic that inhibits bacterial protein synthesis by binding to the bacterial ribosome, thus preventing the growth and replication of bacteria. It is effective against a wide range of bacterial pathogens, including both gram-positive and gram-negative organisms.
- **Vitamin C (Ascorbic Acid):** Vitamin C is an antioxidant that supports the immune system and aids in the protection of cells from oxidative damage. It is also involved in the synthesis of collagen, supports wound healing, and enhances the absorption of iron from plant-based foods. In this combination, Vitamin C helps reduce inflammation, supports tissue repair, and strengthens the

Indications

This combination of Doxycycline and Vitamin C is indicated for:

- **Bacterial Infections:** Treatment of various infections including respiratory tract infections, skin infections, urinary tract infections, and other susceptible bacterial infections.
- **Immune Support:** In patients with weakened immune systems, where Vitamin C supplementation is necessary to enhance immune response and fight infection.
- **Antioxidant Therapy:** To help combat oxidative stress during infection or in patients with nutritional deficiencies.
- **Adjunctive Therapy:** For infections where Vitamin C supplementation is beneficial in reducing oxidative damage and supporting recovery.

Dosage and Administration

- **Adults:**
 - The usual dose is 1 vial (100 mg Doxycycline + 100 mg Vitamin C), administered once a day via intravenous injection.
 - The dose may be adjusted based on the severity of infection and clinical response.
 - For intravenous (IV) administration, inject the solution slowly over 1-2 minutes.
 - For severe infections, the healthcare provider may increase the dose or frequency as needed.
- **Elderly and Special Populations:**
 - No significant dose adjustment is required for elderly patients, but caution should be exercised in those

with pre-existing liver or kidney impairment.

- **Administration:**
 - Ensure the vial is clear and free of any particulate matter before injection.
 - Reconstitute (if required) with the appropriate diluent, following instructions provided with the product.
- **Missed Dose:** If a dose is missed, administer it as soon as possible. If the time for the next dose is near, skip the missed dose. Do not administer two doses at once.

Precautions

- **Gastrointestinal Effects:** Doxycycline can cause gastrointestinal irritation, nausea, or vomiting. It is recommended to take the injection with adequate hydration or after meals (if taken orally).
- **Liver and Kidney Function:** Patients with pre-existing liver or renal conditions should be monitored regularly during treatment.
- **Superinfection:** Prolonged use of antibiotics may result in overgrowth of non-susceptible organisms (e.g., fungi), and should be managed appropriately.
- **Pregnancy and Lactation:** Avoid use during pregnancy unless absolutely necessary. Vitamin C may be safely used, but Doxycycline is generally contraindicated in pregnant women, particularly during the second and third trimesters.
- **Allergic Reactions:** Rare but serious reactions like anaphylaxis can occur. If allergic symptoms (rash, swelling, difficulty breathing) appear, discontinue use immediately and seek medical attention.

Adverse Effects

- **Common:**
 - Nausea, vomiting, or stomach upset
 - Diarrhea
 - Skin rash or mild allergic reactions
 - Mild headache or dizziness
- **Less Common:**
 - **Liver dysfunction:** Elevated liver enzymes or jaundice
 - **Kidney toxicity:** Reduced renal function in susceptible individuals

- **Candidiasis:** Overgrowth of yeast infections (fungal infections), particularly with prolonged antibiotic use

- **Serious but Rare:**

- **Severe Allergic Reactions:** Anaphylaxis, angioedema, difficulty breathing
- **Esophageal Irritation:** Particularly when taken orally, which can result in ulceration
- **Intracranial Hypertension:** Increased pressure inside the skull, potentially leading to vision problems or headaches

Storage Instructions

- Store at room temperature (15–25°C), away from light and moisture.
- Do not freeze the injection solution.
- Keep out of the reach of children.
- Check the expiration date before use and do not administer the medication past its expiry.

Presentation

- Vial containing 100 mg Doxycycline + 100 mg Vitamin C in 2 mL solution for injection.
- Pack contains 5 vials.

Note: Doxycycline and Vitamin C injection should only be administered by qualified healthcare professionals. Follow the prescribed dosage and seek medical advice if any side effects or unusual symptoms occur.

Manufactured in India for.

CafoliTM
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