

# Cipina-D

(Ciprofloxacin and Dexamethasone Sodium Eye drops)

Each ml contains:

Ciprofloxacin IP.....0.3%w/v  
Dexamethasone Sodium Phosphate IP.....0.01%w/v  
Hydroxy Propyl Methyl Cellulose IP.....0.25%w/v  
Boric Acid IP.....1.5%w/v  
Sterile aqueous Vehicle.....q.s.

## Clinical Pharmacology:

**Ciprofloxacin** : Ciprofloxacin is a fluoroquinolone antibiotic. It inhibits bacterial DNA gyrase and topoisomerase IV enzymes, crucial for DNA replication, transcription, and repair. This action prevents bacterial cell division and growth, effectively treating bacterial infections of the eye.

**Dexamethasone** : Dexamethasone is a corticosteroid that reduces inflammation by inhibiting the release of inflammatory mediators and suppressing the migration of leukocytes to the site of inflammation. It also stabilizes cellular membranes and reduces capillary permeability, alleviating symptoms of ocular inflammation.

## Indications:

- Bacterial Conjunctivitis with Inflammation
- Corneal Ulcers with Inflammation
- Post-Surgical Inflammation and Infection

## Contraindications:

- **Viral Eye Infections:** Such as herpes simplex keratitis, as corticosteroids can worsen these infections.
- **Fungal Eye Infections:** They can exacerbate fungal infections.
- **Mycobacterial Eye Infections:** This combination is not recommended for mycobacterial infections of the eye.
- **Hypersensitivity:** Known allergy or hypersensitivity to ciprofloxacin, dexamethasone, or any component of the formulation.
- **Eye Conditions Requiring Surgical Intervention:** Certain eye conditions may require other treatments or surgical approaches.

**Precautions and Warnings:**

If irritation persists or increases, discontinue the use and consult physician

Do not touch dropper tip to any surface since this may contaminate the solution. Use the solution within one month after opening the container.

If particulate matter found reject the vial.

**Drug Interactions:**

- **Other Corticosteroids:** Concurrent use with systemic or topical corticosteroids can increase the risk of systemic side effects or exacerbate ocular infections.
- **Antiviral or Antifungal Medications:** These may interact indirectly by affecting the treatment approach for co-existing infections that are not addressed by ciprofloxacin or dexamethasone.

**Adverse Effects:**

- **Ocular Irritation:** Burning, stinging, or discomfort upon application.
- **Conjunctival Hyperemia:** Redness or inflammation of the conjunctiva.
- **Corneal Effects:** Risk of corneal epithelial damage or worsening of corneal ulcers.
- **Increased Intraocular Pressure:** Prolonged use of corticosteroids like dexamethasone can elevate intraocular pressure.
- **Allergic Reactions:** Rash, itching, or swelling of the eyelids or surrounding areas.
- **Secondary Infections:** Potential for overgrowth of non-susceptible organisms due to the corticosteroid component.
- **Delayed Wound Healing:** Corticosteroids can impair the healing of ocular tissues. Discontinue use and consult a healthcare provider if severe or persistent adverse effects occur.

**Overdosage:**

Overdosage of ciprofloxacin and dexamethasone sodium combination eye drops is unlikely due to their local application. However, excessive use or accidental ingestion can potentially lead to:

**Increased Local Irritation:** Such as redness, burning, or discomfort.

**Exacerbation of Adverse Effects:** Including conjunctival hyperemia, corneal damage, or allergic reactions.

**Systemic Absorption:** High doses or prolonged use might lead to systemic effects, particularly with dexamethasone, such as elevated intraocular pressure or systemic corticosteroid side effects.

In case of suspected overdosage, discontinue use, rinse the eyes with water, and seek

medical advice if symptoms persist or worsen.

**Route of Administration:** Ocular. Not for injection

**Dosage:** As directed by the Physician

**SCHEDULE `H` PRESCRIPTION DRUG CAUTION:** Not to be sold by retail without the prescription of a Registered Medical Practitioner.

**Storage:** Store in a cool and dark place. Protect from light.

**Presentation:** It is available as 10ml solution packaging.



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