

# **Neonatal Blocked Tear Ducts: A Comprehensive Overview**

#### Introduction:

- Neonatal blocked tear ducts, medically known as congenital nasolacrimal duct obstruction (CNLDO), are a common condition in infants.
- This condition occurs when the tear duct, which normally drains tears from the eyes into the nose, is partially or completely blocked at birth.
- 3% of all children will a blocked tear duct at birth, and 1/3 of these children will have it in both eyes.

#### Causes:

- Most cases of neonatal blocked tear ducts are due to an underdeveloped tear drainage system in infants.
- Other possible causes include a membrane or tissue blockage within the tear duct, which can be congenital or acquired.

## Symptoms:

- Excessive tearing or watery eyes are the most common symptom in infants with blocked tear ducts.
- Crustiness or mucus discharge from the eyes may also be observed.
- Some infants may develop eye infections or conjunctivitis due to the stagnant tears.

## Diagnosis:

- Diagnosis is typically based on clinical examination and parental reporting of symptoms.
- In some cases, a doctor may perform a specialized dye test (fluorescein or Rose Bengal dye) to confirm the blockage.

## **Treatment Options:**

## 1. Conservative Management:

- In MOST cases, neonatal blocked tear ducts resolve spontaneously as the child grows.
- Parents are advised to gently massage the tear duct area in a downward fashion from the inner corner of the eye to the nose multiple times daily to promote drainage.
- Frequent cleansing of the eyes with warm water can help prevent infection.
- Antibiotic eye drops or ointments are rarely ever prescribed as infection as a cause is exceptionally rare.

## 2. Probing and Irrigation:

- If the condition persists beyond the first year of life or if it causes recurrent infections, a doctor may recommend a procedure called "tear duct probing."
- Probing involves inserting a thin probe through the tear duct to open the blockage. This is done by a pediatric ophthalmologist.
- Irrigation may follow probing to flush out any remaining debris or blockage.



## 3. Silicone Tube Placement:

- In some cases, especially if probing is unsuccessful or if the blockage is more severe, a silicone tube may be inserted temporarily to maintain tear duct patency.
- The tube helps keep the tear duct open and is usually removed after several months.

# 4. Dacryocystorhinostomy (DCR):

- This surgical procedure is considered for older children or adults with persistent tear duct blockages.
- DCR creates a new drainage pathway for tears by bypassing the blocked duct.

## **Complications:**

- Most cases of neonatal blocked tear ducts do not lead to serious complications.
- However, untreated cases may result in recurrent eye infections or corneal damage in rare instances.

## **Prognosis:**

- The majority of infants with blocked tear ducts will naturally improve within the first year of life.
- Surgical interventions are usually effective if conservative methods fail.

## **Prevention:**

- Neonatal blocked tear ducts are typically not preventable as they are often congenital.
- Good eye hygiene and prompt treatment of eye infections can help prevent complications.

## **Conclusion:**

Neonatal blocked tear ducts, while a common concern in infants, are generally a self-limiting condition. Most children will outgrow it, but timely intervention and monitoring are crucial to manage symptoms and prevent complications. With proper care and medical attention, infants with blocked tear ducts can look forward to healthy, tear-free eyes as they grow. Parents and caregivers should consult a healthcare professional for guidance on the best approach to manage this condition in their child.