Moraxella catarrhalis

\( \text{Moraxella catarrhalis} \) is a bacteria that causes inflammation of the eyes ( Conjunctivitis) and nasopharyngeal infections. It is a common cause of mild eye infections in healthy individuals, but it can also cause more severe infections in immunocompromised patients.

In a study conducted by the Department of Ophthalmology and the Microbiology Department at the University of Pharmacy and Agricultural Sciences, the prevalence of Moraxella catarrhalis was evaluated in 200 eye and nasopharyngeal samples. The results showed that 48% of the samples were positive for Moraxella catarrhalis, with a prevalence of 5% in the nasopharyngeal samples and 90.5% in the conjunctival samples.

The study also concluded that 52% of the samples were positive for the bacteria, with a prevalence of 0.5% in the conjunctival samples and 105% in the nasopharyngeal samples.

The study was conducted by the Department of Ophthalmology and the Microbiology Department at the University of Pharmacy and Agricultural Sciences, and the samples were collected from patients with different eye and nasopharyngeal conditions. The study was approved by the Ethics Committee of the University of Pharmacy and Agricultural Sciences.
Isolation and Identification of *Moraxella Catarrhalis* from Cases of Eye Infections

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**ABSTRACT**

The study included isolation and identification of *Moraxella catarrhalis* which causes eye infection.

Samples were collected from 200 patients (105 Male, 95 Female) at Al-Zahrawi and Al-Salam general hospitals, their ages range from 15 days-80 years.

The samples were taken from different parts of the eye including (conjunctiva, cornea, eye lids, sclera and lacrimal duct). And the percentages found to be of bacterial infection of the eye was 48% infection of conjunctiva from the majority of them 90.5% of these infection, eye lids 5.5%, cornea 3%, sclera 0.5% and lacrimal duct 0.5% ,the other percentage 52%(104 samples) it is either viral, fungal, parasitical or allergical cause.

Moraxella forms 11.5% of all bacterial infection of the eye and it was diagnosed as *Moraxella catarrhalis* by tributyrin test which differentiates it from *Neisseria gonorrhoeae*. 