

Case Report

Treatment of Eye Sty of 20 years old female patient belonging to village Naigaon, Tehsil Haveli, District Pune, Maharashtra, India with *Cicer arietinum* Flour

¹Choudhari M, ²Sharma R, ³Shinde B, ⁴Dambare A, ⁵Neela FA

^{1,2,3}Department of Biotechnology, Vidya Pratishthan's Arts, Science & Commerce College, Baramati, Maharashtra, India.

⁴Department of Microbiology, Shardabai Pawar Mahila Arts, Commerce & Science College, Shardanagar, Malegaon Budruk, Maharashtra, India.

⁵Department of Botany, Rajshahi University, Rajshahi 6205, Bangladesh.

Article Info

Article history:

Received: January 11, 2025

Accepted: February 23, 2025

Published: March 1, 2025

Corresponding Author: Sharma R Email: rajesh_vpascc@yahoo.com

©Author(s). This work is licensed under a [Creative Commons Attribution-Non Commercial-Share Alike 4.0 International License](https://creativecommons.org/licenses/by-sa/4.0/) that permits noncommercial use of the work provided that credit must be given to the creator and adaptation must be shared under the same terms.

Stye is the bacterial infection of an eye [1] in which the oil gland of the eye is affected. *Staphylococcus* causes the disease under study [2]. This bacteria is commonly present on the skin [3] and it can be transferred to the eyes through shared personal items or by touching the eyes with unwashed hands. The disease is also called as hordeolum. It causes suffering to the eye. In a village Naigaon, tehsil Haveli, district Pune, Maharashtra, India, a 20 years old female with 54 kg weight developed a stye to her lower part of eye (figure 1).

The patient reported a burning sensation and a red, swollen area, pain while blinking as well as gritty sensation in the eye on 12 May 2024. In addition, the eyelid showed a red, swollen area with a pustule, resembling a small boil. The condition was identified as an inflamed oil gland. The patient had a history of recurrent styes and prolonged exposure to screens of mobiles and laptops. Additionally, she had a habit of not washing her face before sleeping.

The treatment started on 14 May 2024. The patient started to wash her eyelashes with warm water using a clean cotton cloth and applying the flour of the *Cicer arietinum* (figure 2) on the eyelid for 10-15 minutes, two to three times, a day. The milky resin from the stem helps reduce swelling and pain.

On 16 May 2024, the patient reported significant improvement. The swelling had reduced, and the pain had subsided. She was advised to continue washing the eyelid with warm water to prevent recurrence of the disease. The patient recovered completely on 18 May 2024 (figure 3).

This case highlights the importance of *Cicer arietinum* flour and proper hygiene in treating the styes. With appropriate treatment, such infections can be controlled.



Figure 1: The patient with stye to the lower part of her eye.



Figure 2: The flour of the *Cicer arietinum* used for treatment of an eye.



Figure 3: The lower part of the eye of patient recovered from the sty.

Author contributions: MC: Developed and idea and wrote the manuscript. RS, BS, AD: Verified the manuscript.

Competing interest: Authors declare that no conflict of interest exists.

Ethical Statement: This work has been performed with official permission of the patient under study.

Grant Support Details: Authors did not get funding from any agency to complete this work.

Acknowledgement: Authors are thankful to Dr. Bharat Shinde, Principal, Vidya Pratishthan's Arts, Science and Commerce College, Baramati, Maharashtra, India for his support to publish this work.

References:

1. Jawad MA, Mohammed TK. Sty, Bacterial Eye Infection among the Students of the Technical Medical Institute, AL-Mansour. Prof.(Dr) RK Sharma. 2020 Oct;20(4):4764.
2. Lin B, Su X. The clinical observation of China-made ofloxacin eye drops in the treatment of bacterial infection of the external eye. Yan Ke Xue Bao. 1994; 10:251-3.
3. Chiller K, Selkin BA, Murakawa GJ. Skin microflora and bacterial infections of the skin. In Journal of Investigative dermatology Symposium proceedings 2001 Dec 1 (Vol. 6, No. 3, pp. 170-174). Elsevier.

Cite this article as:

Choudhari M, Sharma R, Shinde B, Dambare A, Neela FA. Treatment of Eye Sty of 20 years old female patient belonging to village Naigaon, Tehsil Haveli, District Pune, Maharashtra, India with *Cicer arietinum* Flour. Int. J. Micro. Sci. 2025; 6(1):5-6.