

Sunflower cataract in chalcosis bulbi

A 30-year-old man presented with low vision in the left eye for last 9 months following trauma with wire. His best-corrected visual acuity was 20/20 in the right eye and 20/200 in the left eye. Slit-lamp examination revealed flower-shaped brown opacities in the anterior and posterior pole of lens in the left eye [Fig. 1a]. Yellow-brown granular deposition was seen in deeper layer of cornea (descemets membrane) all along the circumference of the corneoscleral junction

suggestive of the Kayser-Fleischer ring [Fig. 1b]. Fundus had focal pigmentary changes, chorioretinal atrophy, and a linear refractile foreign body approximately 3 mm long lying on the surface of retina inferotemporally [Fig. 1c]. Non-contrast computed tomography (NCCT) scan of orbit revealed a hyperdense speck in vitreous cavity abutting left posterolateral retina *s/o* foreign body [Fig. 1d]. The patient was advised to undergo pars plana vitrectomy with foreign body removal and cataract surgery. Sunflower cataract and Kayser-Fleischer ring are classically seen in copper-induced chalcosis bulbi.^[1,2]

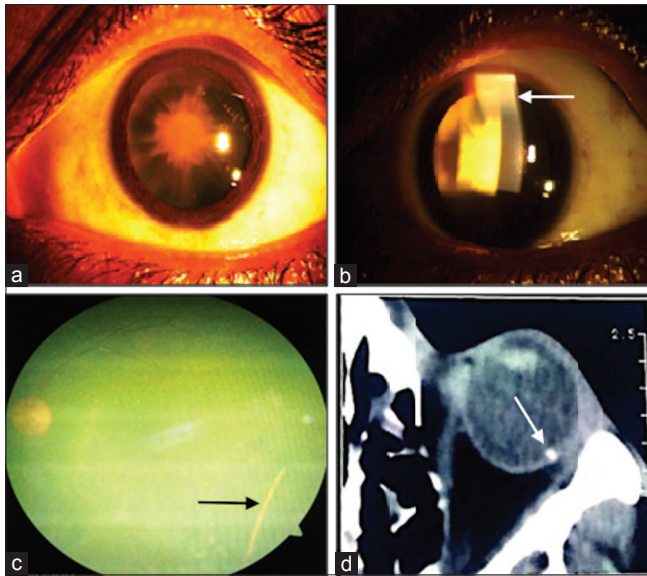


Figure 1: Slit-lamp photograph showing sunflower cataract (a), Kayser–Fleischer ring (b), Fundus photograph (c), and non-contrast computed tomography orbit (d) suggestive of intraocular foreign body

Declaration of patient consent

The authors certify that they have obtained all appropriate patient consent forms. In the form the patient(s) has/have given his/her/their consent for his/her/their images and other clinical information to be reported in the journal. The patients understand that their names and initials will not be published and due efforts will be made to conceal their identity, but anonymity cannot be guaranteed.

Financial support and sponsorship

Nil.

Conflicts of interest

There are no conflicts of interest.

Richa Agarwal, Yashpal Goel¹, Kamlesh Anand

Guru Nanak Eye Centre, Maulana Azad Medical College,
¹Department of Ophthalmology,
 EyeQ Superspeciality Hospital,
 New Delhi, India

Correspondence to: Dr. Richa Agarwal,
 Flat 72, tower-13, Supreme Enclave, Mayur Vihar 1,
 New Delhi - 110 091, India.
 E-mail: richaagarwal101@gmail.com

References

1. Ugarte M, Nicol DA, Jones NP, Charles SJ. Chronic intraocular copper foreign body and candida: A unique combination. *Ocul Immunol Inflamm* 2009;17:356-60.
2. Rao NA, Tso MO, Rosenthal AR. Chalcosis in the human eye. A clinicopathologic study. *Arch Ophthalmol* 1976;94:1379-84.

This is an open access journal, and articles are distributed under the terms of the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 License, which allows others to remix, tweak, and build upon the work non-commercially, as long as appropriate credit is given and the new creations are licensed under the identical terms.

Access this article online	
Quick Response Code:	Website: www.ijo.in
	DOI: 10.4103/ijo.IJO_1035_18

Cite this article as: Agarwal R, Goel Y, Anand K. Sunflower cataract in chalcosis bulbi. *Indian J Ophthalmol* 2019;67:137-8.