

Imaging hydration folds following retinal detachment repair

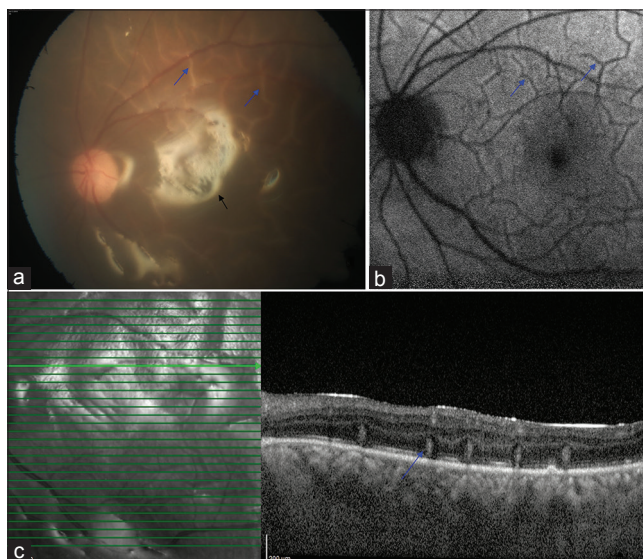


Figure 1: Color fundus photograph (a) of left eye showed hydration folds (blue arrows) and silicon oil reflex (black arrow). Blue autofluorescence (b) showed hypoautofluorescence (arrows) in the corresponding areas of hydration folds. Spectral domain optical coherence tomography (c) demonstrated outer retinal folds as focal hyperreflective lesions in outer retina (arrow). External limiting membrane and ellipsoid zone appear to be involved in the folds extending into outer nuclear layer

A 53-year-old male underwent retinal detachment (RD) repair surgery in left eye. Postoperatively, fundus showed hydration folds [Fig. 1a], which were hypoautofluorescent on blue autofluorescence [Fig. 1b]. Spectral domain optical coherence tomography (SD-OCT) demonstrated outer retinal folds as hyperreflective lesions in outer retina [Fig. 1c].

Partial-thickness folds of inner and outer retina or full-thickness folds may occur after RD repair surgery.^[1,2] SD-OCT can be used to differentiate between them.^[3] Partial-thickness folds can improve spontaneously with time and have good visual outcome.^[4] However, full-thickness folds involving fovea need to be treated surgically.^[5]

Financial support and sponsorship

Nil.

Conflicts of interest

There are no conflicts of interest.

**Sugandha Goel, A Joash Rijey, Saurabh Kumar,
Rupak Roy**

Department of Vitreo Retina, Aditya Birla Sankara Nethralaya,
Kolkata, West Bengal, India

Correspondence to: Dr. Rupak Roy,
Aditya Birla Sankara Nethralaya, 147, Mukundapur, E.M. Bypass,
Kolkata - 700 099, West Bengal, India.
E-mail: rayrupak@gmail.com


References

1. Dell'Omo R, Mura M, Lesnik Oberstein SY, Bijl HTH. Early simultaneous fundus autofluorescence and optical coherence

tomography features after pars plana vitrectomy for primary rhegmatogenous retinal detachment. *Retina* 2012;32:719-28.

2. El-amir AN, Every S, Patel CK. Repair of macular fold following retinal reattachment surgery. *Clin Exp Ophthalmol* 2007;35:791-2.
3. Gupta RR, Iaboni DSM, Seamone ME, Sarraf D. Inner, outer, and full-thickness retinal folds after rhegmatogenous retinal detachment repair: A review. *Surv Ophthalmol* 2018;64:135-61.
4. Sheng J, Levinson JD, Reilly G, Patronas M, Lai MM. Imaging characteristics and natural history of macular pseudo-folds mimicking full-thickness postoperative macular folds following retinal detachment repair. *Ophthalmic Surg Lasers Imaging Retina* 2017;48:488-92.
5. Mori R, Nakashizuka H, Machida Y, Shimada H, Yuzawa M. Postoperative roll cake-like macular fold after retinal detachment surgery. *Int Ophthalmol* 2018;38:767-70.

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_27_19

Cite this article as: Goel S, Rijey AJ, Kumar S, Roy R. Imaging hydration folds following retinal detachment repair. *Indian J Ophthalmol* 2019;67:1346.