

UNUSUAL SPONTANEOUS IMPROVEMENT OF SUBRETINAL FLUID IN DOME-SHAPED MACULA: A CASE REPORT

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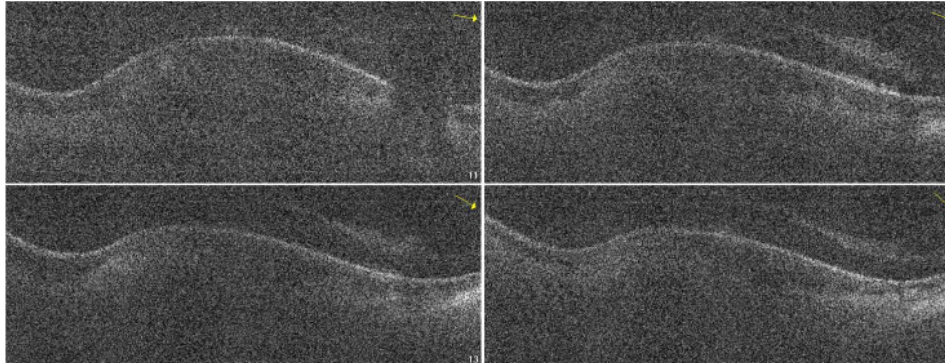
PURPOSE

- To report a clinical case of high myopia and spontaneous improvement of serous macular detachment associated with dome-shaped macula.

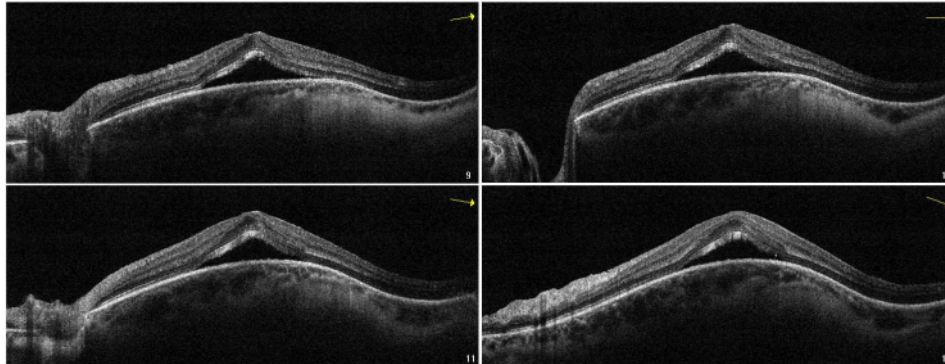
CASE REPORT

- A 58-year-old female patient was attended in a referral service in Recife, Brazil on 12/01/2022, complaining of low visual acuity (VA) since childhood, with recent worsening. At the initial consultation, the slit-lamp examination showed a low-density cataract. The fundoscopy revealed increased optic-disc cupping and diffuse rarefaction of the retinal pigmented epithelium (RPE) bilaterally. The best corrected VA was not consistent with the findings (right eye (OD): Counting fingers at 3 meters; left eye (OS): 20/200). The first OCT of the macula showed a bilateral Dome-Shaped Macula pattern and serous macular detachment in the OS. The second visit was on 01/30/2023 and a new OCT of the macula was requested for comparison that also had revealed a dome measurement of 563 μm , a visually increased choroidal thickness was found when compared to that usually found in high myopic patients and evidenced a significant decrease of subfoveal fluid, even in the absence of treatment. The VA remained unchanged and there was no choroidal neovascularization. Due to spontaneous regression, patient follow-up will be maintained to monitor recurrence

CASE REPORT

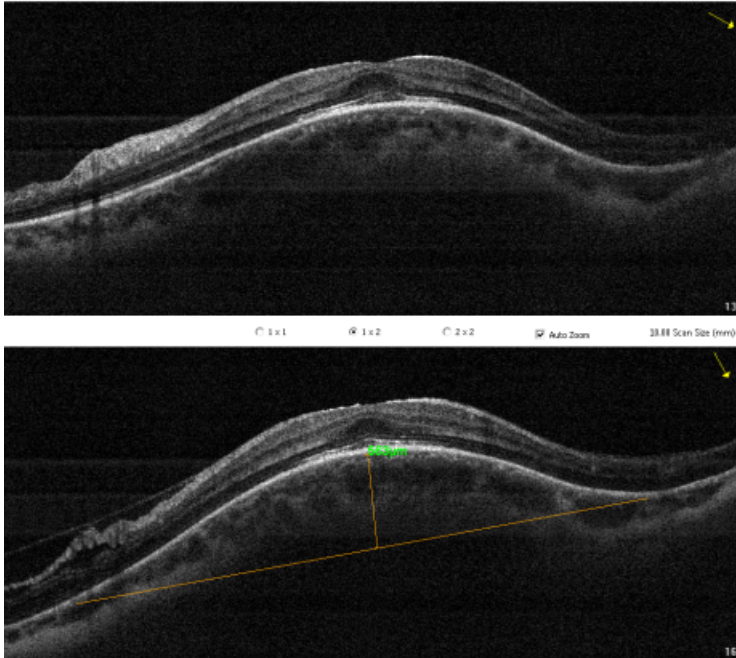


First macula OCT of the right eye
(19/12/2022) showing a Dome-
Shaped Macula pattern



First macula OCT of the left eye
(19/12/2022) showing a Dome-
Shaped Macula pattern and
serous macular detachment

CASE REPORT



Second macula OCT of the left eye (30/01/2023) showing a Dome measurement of 563 μm and significant decrease of subfoveal fluid

DISCUSSION

- Subfoveal fluid in cases of dome-shaped macula still remains a challenge in modern retinology, with no consensus treatment or unanimous explanation about its pathophysiology. The possibility of spontaneous regression, although already described, is little documented and understood, and should be suggested before the institution of more intense treatments.

REFERENCE

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2. Kumar V, et al. Dome-shaped macula-Review of literature. *Surv Ophthalmol*. 2021;66(4):560-571;
3. Alakeely AG, Alrashaed S. Serous Retinal Detachment in Dome-shaped Macula with 7 Years Follow-up. *Middle East Afr J Ophthalmol*. 2016;23(4):323-325.