Dear Editor,

I read with interest the case reports of symptomatic (visual decline) drusenoid pigment epithelial detach­ments (DPEDs) presented by Borges et al. (1). Both patients had undergone cataract surgery and had no intraretinal or subretinal fluid on optical coherence tomography (OCT). However, they both had angiographic evidence of choroidal neovascular membrane (CNVM) in indo­cyanine green (ICG) or fundus fluorescein angiogram (FFA). The visual acuity, angiography, and OCT improved with repeated intravitreal anti-vascular endothelial growth factor agent (anti-VEGF agents, ranibizumab) injections. There are a few dilemmas to discuss.

1. Typically, DPED per se is not known to cause visual decline, though it might induce hyperopic refractive error. In the absence of intraretinal or subretinal fluid in OCT, what reversible anatomical changes do the authors propose to be the cause of vision loss in these patients?

2. As per the current understanding, DPED (≥350 µm) is considered to be a variant of high-risk non-exudative age-related macular degeneration associated with large confluent soft drusen and no treatment is needed for such lesions (2). Though the presence of subretinal fluid should arouse the suspicion of an underlying CNVM, benign subretinal fluid without the presence of demonstrable CNVM may occur, presumably due to a mechanical effect, or acquired vitelliform lesions may develop (2). It has also been noted that heterogeneous reflectivity or increasing hyporeflectivity of the DPED content may suggest CNVM compared to homogeneously hyporeflective material (2,3). ICG angiogram plays a major role in ruling out CNVM in such cases in addition to FFA.

3. Treatment of symptomatic DPED has been reported before in the peer-reviewed literature with intravitreal anti-vascular endothelial growth factor (VEGF) agents. A 65-year-old female with DPED has been reported to benefit from 3 intravitreal bevacizumab injections (4). This lady had an extrafoveal occult CNVM on FFA. The visual acuity improved from 6/18 to 6/9 in this eye and the DPED/soft drusen also decreased (4). The provided OCT (time-domain) image at presentation does not seem to reveal obvious subretinal or intraretinal fluid (4). In another study, the authors treated 6 symptomatic (blurred vision and metamorphopsia) DPED cases without evidence of CNVM with intravitreal ranibizumab (5). All patients reported improvement of metamorphopsia and 5 patients gained at least one Early Treatment of Diabetic Retinopathy Study (ETDRS) letter. The presence of intraretinal fluid at presentation was associated with good visual gain (5). In conclusion, the authors should be congratulated for reporting these 2 unusual cases of symptomatic DPED with no activity on OCT, and for emphasizing the utility of ICG angiogram in such cases.

REFERENCES

1. Borges FP, Siqueira RC, Scott IU, Cardillo JA, Jorge R. Choroidal neovascularization silent on optical coherence tomography: report
of two cases. Arq Bras Oftalmol [Internet]. 2017 [cited 2017 Nov 6];80(4):263-5.


