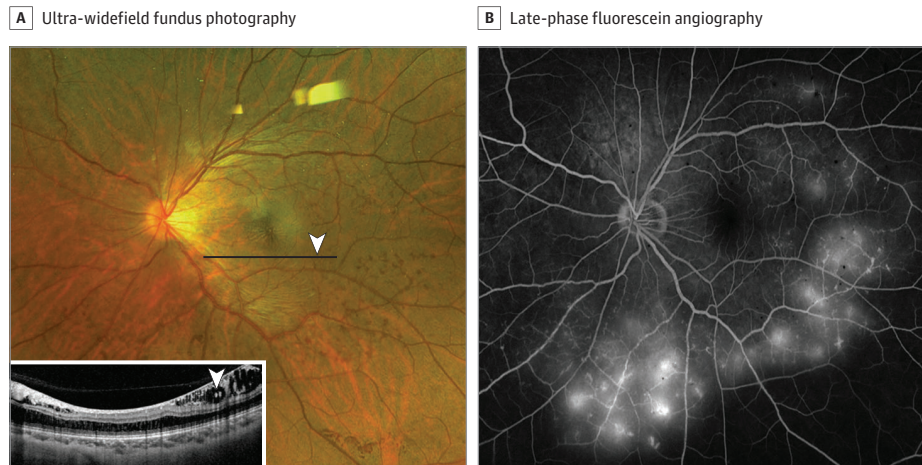


## Ophthalmic Images

## Retinal Aneurysms in Myopic Traction Maculopathy

Michael Nguyen, BS; Glenn Yiu, MD, PhD



**Figure.** A, Ultra-widefield image and optical coherence tomography line scan of the left retina, showing myopic traction maculopathy and aneurysmal lesions (arrowhead) within areas of inner retinal layer schisis (arrowhead, inset). B, Late-phase fluorescein angiography of the left retina.

**A 23-year-old healthy woman** with a history of pathologic myopia presented for evaluation of retinal aneurysms. Her visual acuity was 20/30 OD and 20/40 OS, and her refractive error was −14 diopters and −15 diopters in the right and left eyes, respectively. Fundus examination revealed clusters of aneurysmal lesions and telangiectasias along the inferior and temporal midperiphery of both eyes (Figure, A), which demonstrated late leakage on ultra-widefield fluorescein angiography (Figure, B). Optical coherence tomography showed my-

opic traction maculopathy and aneurysmal lesions located within areas of retinal nerve fiber layer schisis (arrowhead, Figure, A, inset). Retinal vascular abnormalities including telangiectatic vessels, aneurysms, and arteriolar sheathing have been reported in high myopia, but the underlying etiology is unclear.<sup>1-3</sup> In this patient, the locations of the aneurysms correspond to areas of inner retinal schisis, suggesting that these vascular changes may result from direct mechanical traction of retinal vessels within the nerve fiber layer.

## ARTICLE INFORMATION

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## REFERENCES

- Hayashi W, Shimada N, Hayashi K, et al. Retinal vessels and high myopia. *Ophthalmology*. 2011;118(4):791-791.e2. doi:10.1016/j.ophtha.2010.11.018
- Lei B, Gu R, Jiang C, Xu G. Retinal telangiectasia in patients with pathologic myopia: a case series. *Retina*. 2019;39(4):719-726. doi:10.1097/IAE.0000000000001988
- Durkin SR, Polkinghorne PJ. Myopic macular retinoschisis with microvascular anomalies. *Eye (Lond)*. 2014;28(4):501-503. doi:10.1038/eye.2013.284