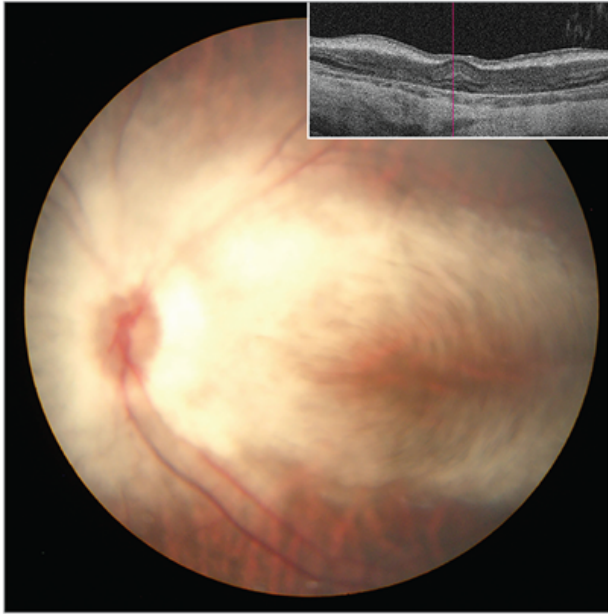


# Progressive Retinal Medullated Nerve Fiber Layer in a Young Boy

Although acquired and progressive nerve fiber myelination has been described previously, it is rare in the literature.<sup>1,2</sup> A 24-month-old full-term boy with a history of high myopia was brought to the ophthalmology clinic. Cycloplegic spherical power was  $-10.00$  diopters and  $-9.50$  diopters in the right and left eye, respectively. Ophthalmoscopic examination showed widely distributed medullated nerve fibers in the posterior pole of the fundus (Figure, A). Optical coherence tomography confirmed a thick retinal nerve fiber layer in the posterior pole of the fundus (Figure, A, inset). The boy once underwent RetCam (Natus Medical) fundus examination at 6 months of age. At that time, there was only a small area of perioptic medullated nerve fibers (Figure, B). The images at the 2 time points indicate progression of myelinated nerve fibers from age 6 months to 24 months. There was no history of surgery, congenital ocular or systemic abnormalities, and no family history of medullated nerve fibers in the eye.

Figure.

A Fundus photography, 24 mo



B Fundus photography, 6 mo



A, Widely distributed medullated nerve fibers and a thick retinal nerve fiber layer in the left eye at 24 months old. B, A small area of perioptic medullated nerve fibers in the left eye at 6 months old.

Back to top

## Article Information

**Corresponding Author:** Tao Sun, MD, Shanghai Eye Diseases Prevention & Treatment Center/Shanghai Eye Hospital, No. 1440, Hongqiao Road, Changning District, Shanghai 201103, China ([drsuntao@yeah.net](mailto:drsuntao@yeah.net)).

**Conflict of Interest Disclosures:** None reported.

**Funding/Support:** This case report was supported by grant 2022SKMR-12 from the Management Research Project of Shanghai Shenkang Hospital Development Center; grant 82000908 from the Program of the National Natural Science Foundation of China; and the Shanghai Key Clinical Specialty.

**Role of the Funder/Sponsor:** The funders had no role in the design and conduct of the study; collection, management, analysis, and interpretation of the data; preparation, review, or approval of the manuscript; and decision to submit the manuscript for publication.

## References

1.

Aaby AA, Kushner BJ. Acquired and progressive myelinated nerve fibers. *Arch Ophthalmol*. 1985;103(4):542-544.

doi:[10.1001/archophth.1985.01050040084024](https://doi.org/10.1001/archophth.1985.01050040084024)

[ArticlePubMedGoogle ScholarCrossref](#)

2.

Dean M, Kirschen D, Hubschman JP, Straatsma BR, Sarraf D, Francone A. Bilateral acquired progressive retinal nerve fiber layer myelination. *Ophthalmic Surg Lasers Imaging Retina*.

2018;49(10):e147-e150. doi:[10.3928/23258160-20181002-](https://doi.org/10.3928/23258160-20181002-18)

[18PubMedGoogle ScholarCrossref](#)