Anterior Ischemic Optic Neuropathy secondary to Optic Nerve Head Drusen

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CASE PRESENTATION

- A 24 year old patient was referred to the Outpatient Department for reevaluation due to non arteritic ischemic optic disc neuropathy(NA-ION) associated with optic disc drusen(ODD).
- Patient reported history of sudden painless vision loss on the



Fig.1 Autofluorescence imaging.





- BCVA was NLP and 2/10cc in the right and left eye respectively.
- Pupils were equal, reactive to light.
- Colour Vision testing was normal.
- The IOP was 14 on both eyes.
- Fundus examination revealed bilateral ODD
- ODD were demonstrated markedly hyperfluorescent in autofluorescence imaging(Fig.1)
- No other pathological fundus findings were noticed.

CLINICAL EXAMINATION

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Fig.3 Visual field testing.

- OCT revealed peripappilary RNFL thinning(Fig.2).
- Visual field testing was amaurotic on the OD and annular scotoma occurred in the OS (Fig. 3)
- The above findings were consistent with NA-ION on the right eye.
- Other laboratory tests (CRP, TKE) and brain MRI came back normal.

CONCLUSIONS

- The prevalence of ODD is estimated at 2% in general population a have been implicated as a cause of NA-ION.
- Drusen are believed to directly damage the RNFL by axon compression and indirectly cause ischemia in the RNFL as a result vascular compression.
- Therefore, clinicians should be aware of this rare association a clinical suspicion of DDS in young patients with NA-ION should promptly established.
- On the presenting case the patient was informed about the high risk of possible ischemic complications on the left eye as well and the necessity of frequent follow-ups in the future.

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