

See-saw nystagmus caused by an optic nerve glioma: case report

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Abstract

Purpose and Aim: There has been an increasing trend towards Gliomas are the most common paediatric tumours of the central nervous system, exhibiting a broad range of clinical behaviours depending on origin, size and pathological subgroup. Knowledge of current and evolving advances in molecular characterization of this tumour is needed to ensure effective management. A 2-year-old boy presented with nystagmus since 10 months of age. Parents described initially left eye moving horizontally then right eye moving horizontally, then both with a vertical component. Poor vision was reported, with running into objects and difficulty recognizing people far away. He was otherwise well, normal term vaginal delivery and reaching developmental milestones. On examination the boy had high frequency, small amplitude see-saw nystagmus. It had no null point and no change with convergence or fixation. He had no anomalous head position and a normal red reflex with clear corneas. Dilated exam under general anaesthetic revealed left subtle nerve pallor and atrophy. Magnetic resonance imaging revealed a large optic nerve glioma originating from the optic nerve chiasm, spreading anteriorly and posteriorly. Our case documents see-saw nystagmus in a patient with likely bi-temporal hemianopia due to a large tumour but without mesencephalic compression or CSF dissemination. Because preschool children rarely complain about poor vision, by the time symptoms manifests, the disorders of vision have already progressed. Early diagnosis is paramount in diagnosing these often silently enlarging optic pathway gliomas.



Biography:

Aisling McGlacken-Byrne is currently a Senior House Officer in her first year as an Ophthalmology Surgical Trainee in Sligo University Hospital. She has special interests that include rural

and remote medicine and health inequity. Her previous employment was a resident with the Lions Outback Vision Van, part of the Lions Eye Institute. The Lions Outback Vision Van is a mobile eye health clinic launched in 2016 which travels around Western Australia providing specialist eye health services to remote communities.

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Speaker Publications:

1. Review of cataract surgery in rural north Western Australia with the Lions Outback Vision- Aisling Mc Glacken-Byrne, A/Prof Angus Turner, Clin Exp Ophthalmol. 2019 Aug;47(6):802-803
2. Pterygium in rural Western Australia: demographic profile and refractive status of Aboriginal and non-Aboriginal individuals with pterygium- Aisling Mc Glacken-Byrne, A/Prof Angus Turner, Clinical and Experimental Ophthalmology: Wiley Online Library, 2018 Volume 46, Supplement 1, November 2018
3. The patients perspective: A Vision Van Video- Aisling Mc Glacken-Byrne, MB BCH BAO, A/Prof Angus Turner, MBBS, FRANZCO, Clinical and Experimental Ophthalmology: Wiley Online Library, 2018 Volume 46, Supplement 1, November 2018
4. Multimodal imaging and longitudinal follow-up of pattern dystrophy due to OTX2 mutation, Aisling Mc Glacken-Byrne MB BCH BAO, Fred Kuanfu Chen, MBBS, PhD, FRANZCO Irish Journal of Medical Science Volume 187 Issue 6, June 2018
5. Capnocytophaga Canimorsus: an Unusual Etiology for Septicemia, Aisling Mc Glacken-Byrne MB BCH BAO, Dermot O'Callaghan, MBBS, Irish Journal of Medical Science Volume 184 Issue 7, January 2015

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