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Macula hole post blunt ocular trauma in a pediatric patient

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Statement of the Problem: The purpose of this case report is to present an usual presentation of macula hole which is associated with commotio retinae post blunt ocular trauma in a paediatric patient.

Methodology & Theoretical Orientation: A case of 12-year-old male patient was referred to our eye department due to blurry vision post blunt trauma on his left eye. On examination ocular motility was normal while his best corrected visual acuity (BCVA) was decreased to 20/200 in his left eye.

Findings: Slit-lamp examination of the anterior segment was normal, while fundoscopy revealed vitreous and retinal hemorrhages, commotio retinae of the posterior pole with cherry red macular spot, and macula hole. The patient underwent optical coherence tomography investigation which confirmed the initial diagnosis. One week follow up showed vitreous detachment and spontaneous closure of the macula hole, while BCVA remained decreased due to diffuse vitreous hemorrhage.

Conclusion & Significance: The patient was followed up closely during the first few weeks after his trauma to be monitored and treated for potential complications. Traumatic macula hole is a rare complication which is associated with commotio retinae of the posterior pole after blunt ocular trauma. Spontaneous vs. surgical closure of the macula hole could be expected in a few cases. While some patients recover completely, some patients will remain visually impaired with reduced vision or paracentral scotoma.

Recent Publications

1. Ahn S J et. al. (2013) Optical coherence tomography morphologic grading of macular commotio retinae and its association with anatomic and visual outcomes. *Am. J. Ophthalmol.* 156:994-1001.
2. Chen K J (2017) Traumatic Maculopathy with Macular Hole. *Ophthalmology.* 124(4):495.
3. Eagling E M (1974) Ocular damage after blunt trauma to the eye: its relationship to the nature of the injury. *Br. J. Ophthalmol.* 58(2):126-140.
4. Hart J C and R Blight (1979) Commotio retinae. *Arch Ophthalmol.* 97(9):1738.
5. Mendes S, Campos A, Beselga D, Campos J, Neves A (2014) Traumatic maculopathy 6 months after injury: a clinical case report. *Case Reports in Ophthalmology* 5(1):78-82.

Biography

Anna Praidou received her Medical degree, completed her PhD thesis and her residency at the University of Thessaloniki, Greece. She completed MSc in Medical Research Methodology at the University of Thessaloniki, Greece and another MSc in Health Unit Management at the Open University of Patra, Greece. After completion of her training in Ophthalmology she worked at Alder Hey Hospital, Liverpool in Pediatric Ophthalmology, at Royal Liverpool University Hospital in Medical Retina, Uveitis, and Ocular Oncology Services. She was previously also working at Moorfields Eye Hospital, London in the Cataract Service and at the Royal Free Hospital, London in Medical Retina and Cataract services. She is currently working as a Consultant Ophthalmic Surgeon in NHS.

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