

Subperiosteal Orbital Haematoma Following Labour : A Case Report

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History

20 year old female

Referred to Ophthalmology from Obstetrics

1 day history of **Sudden Onset Double Vision** on up gaze and **Right Ptosis** following Induced Labour

Findings

- VA – 6/6 Both Eyes
- Normal Pupils – No RAPD
- Ptosis right eye – 2mm
- Straight in primary gaze with no diplopia
- Right Hypophoria
- Normal Fundus Examination

-1

2mm Ptosis

+1



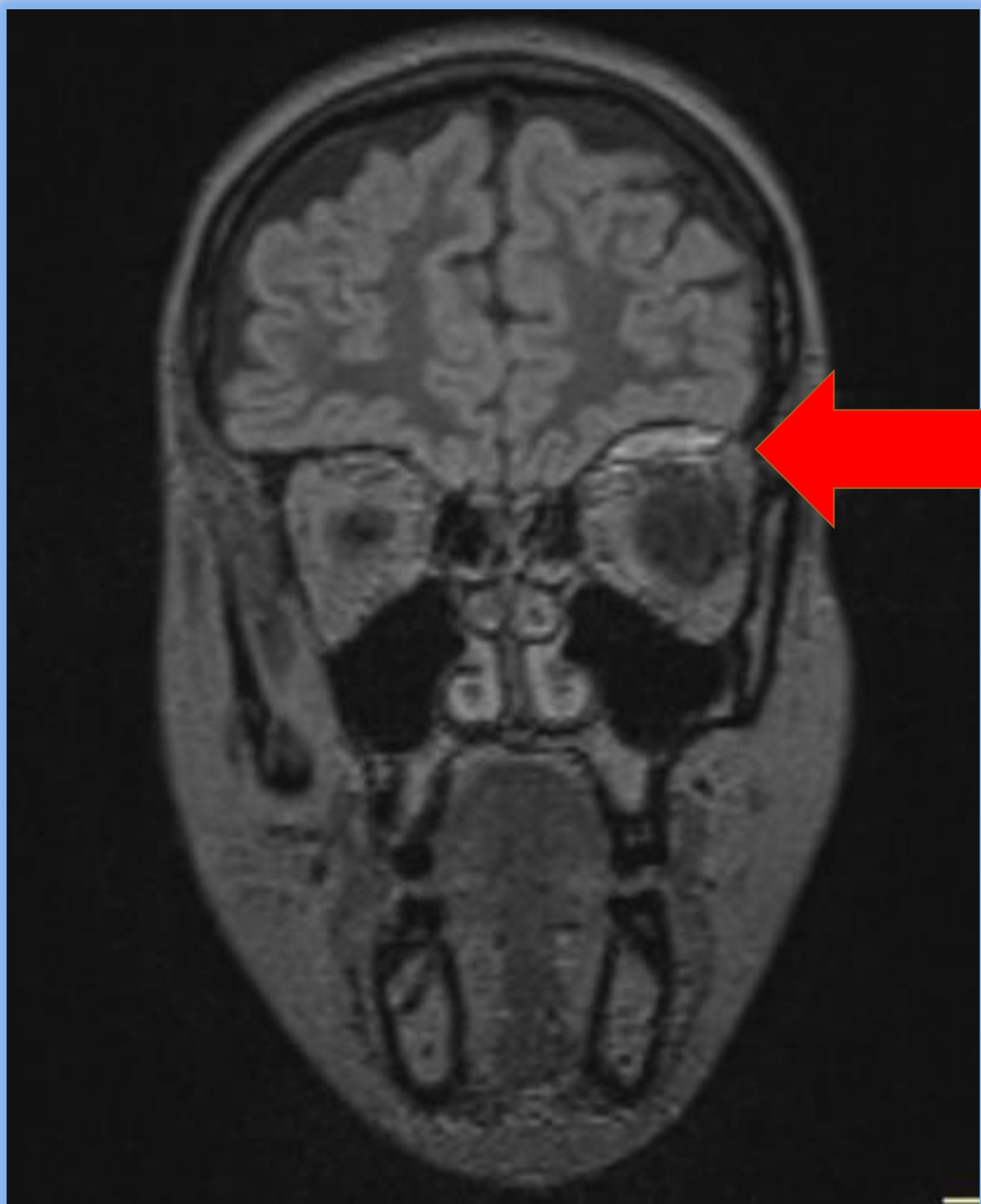
MRI Scan – T1 Weighted

In the roof of the orbit a slightly inhomogenous hyperintensity abuts the margin of the superior rectus muscle which appears displaced.

The defined crescentic area is 23 mm x 16mm x 4 mm (highlighted with a red arrow)

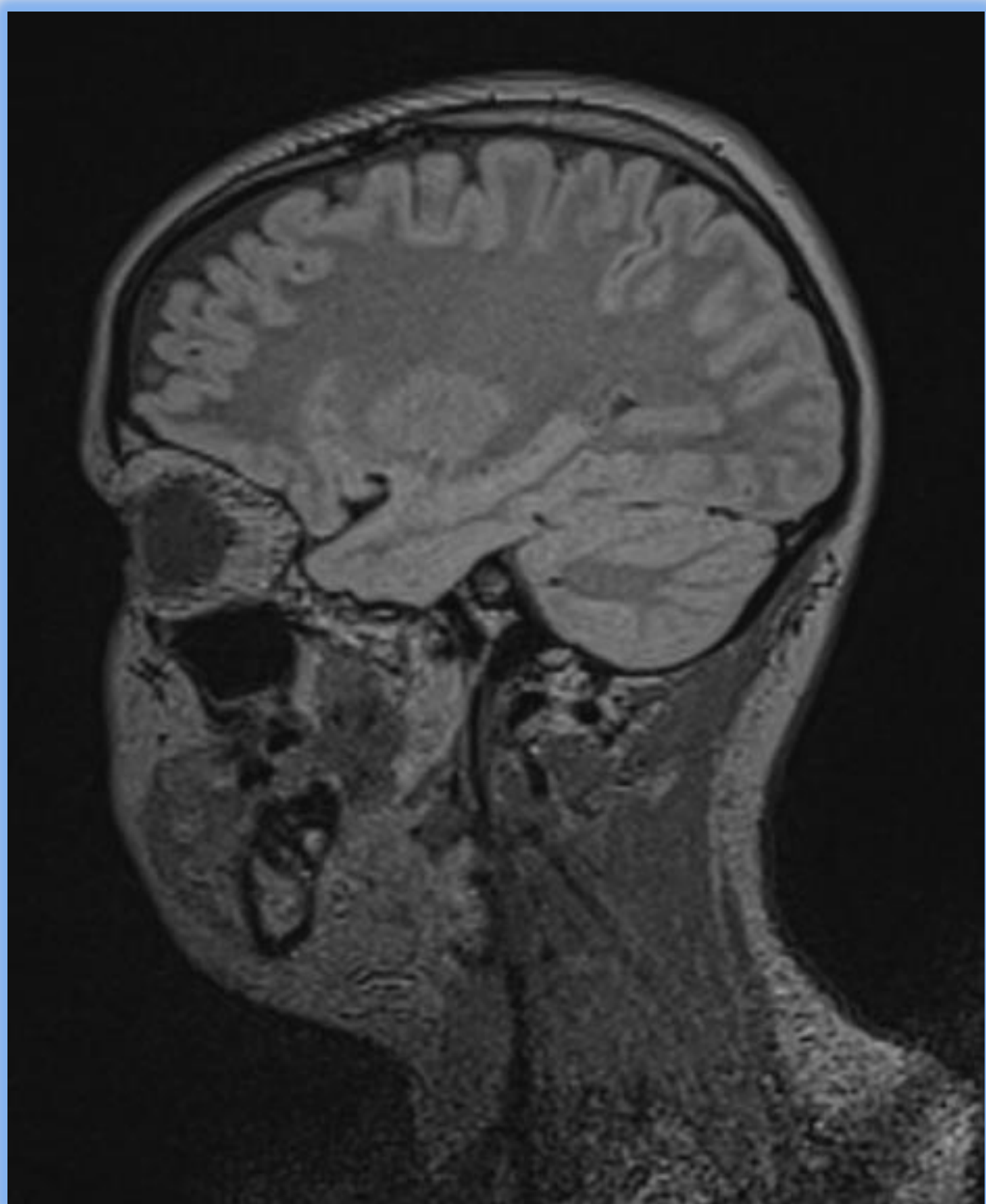
Diagnosis

Right Subperiosteal Orbital Haematoma



Management

The patient had no treatment and was observed. A 2 month follow up MRI was arranged to monitor the haematoma.

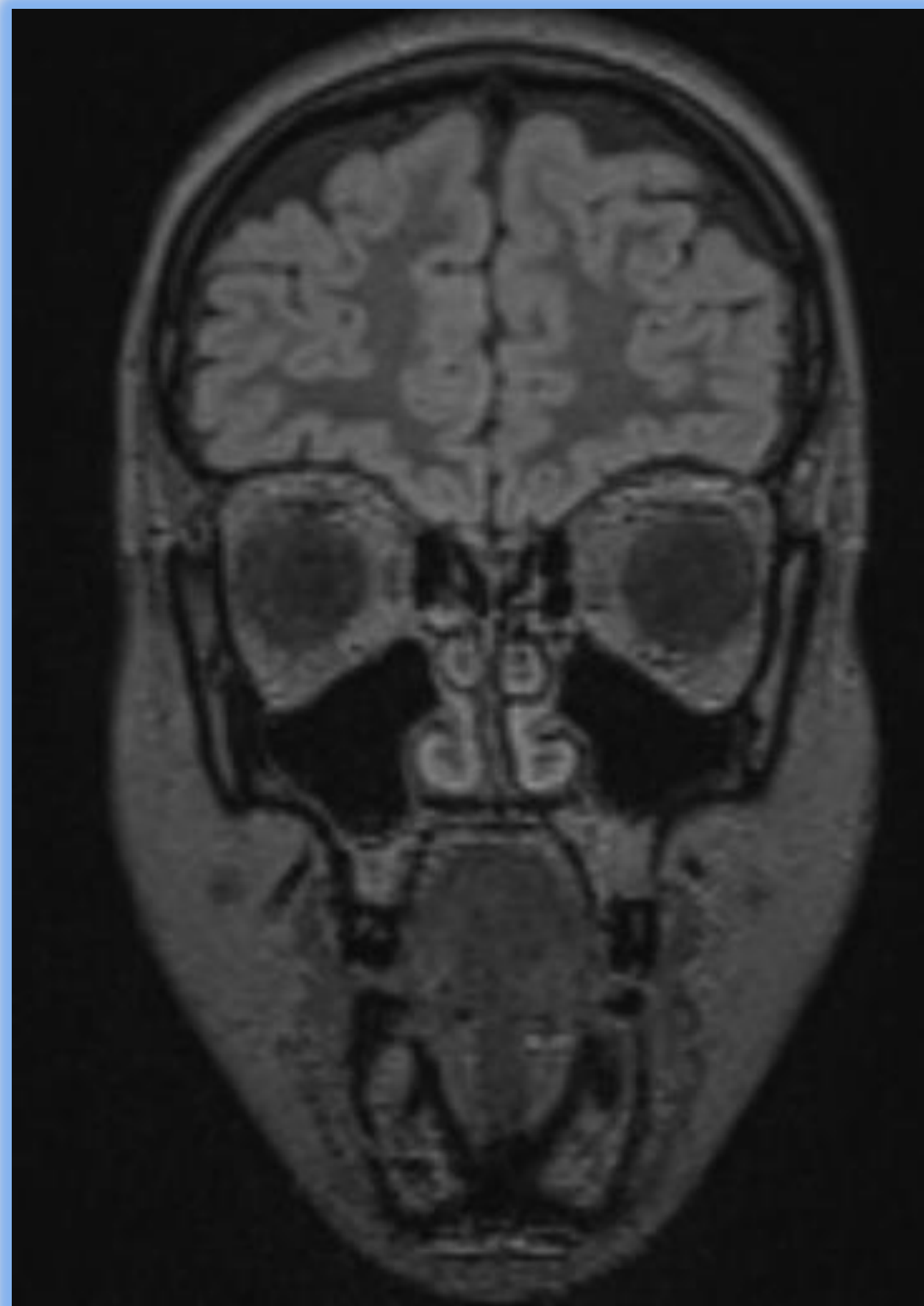


Follow up MRI Scan

There is complete resolution of the haematoma on the follow up MRI scan.

The patient symptoms of double vision and ptosis self-resolved.

The patient did not require further follow up and was discharged.



Discussion

Similar presentations of subperiosteal orbital haematomas have been reported following labour^{1,2}, trauma³ and non-traumatic scenarios⁴. The mechanism is thought to be due to sudden elevations in cranial venous pressure. The hematoma occurs at the roof of the orbit between the periorbita & the concave orbital plate of the frontal bone. This area is thought to be traversed by “cribra orbitale” or diploic vessels which have potential to rupture and bleed.

Conclusion

A Subperiosteal orbital haematoma can present with diplopia and ptosis following labour. In this case it was self limiting and self resolved.

References

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2. Katz RS, Abrams G (1981) Orbital subperiosteal hematoma (epidural hematoma of the orbit). J Clin Neuroophthalmol 1: 45-52.
3. Bhatti MT, Goldstein MH (2001) Bilateral subperiosteal orbital hemorrhages after a compressive thoracoabdominal injury. J Trauma 51:790
4. Richards A, Wijesinghe N (2014) Non-Traumatic Subperiosteal Orbital Haematoma Following Yoga. J Clin Exp Ophthalmol 5: 339.