A case of unilateral proptosis

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History

- 17 Y, female
- Protrusion of left eye - 1 week
- Pain in left eye - 1 week
- Blurring of vision – 4 days
- No H/O redness of eyes
- No H/O trauma, fever,
- No H/O headache, vomiting
- No symptoms of hyperthyroidism
Past history

- Hemolytic anemia  2 years ago
- Treated with oral steroids
- Investigations:
  - DCT & ANA +ve,
  - Anti dsDNA – negative
- Recovered and asymptomatic since then
O/E

- Afebrile,
- Pallor +
- Icterus +
- No rash, lymphadenopathy
- Systemic examination:
  - Spleen 2cm, soft and non tender
- ENT: Normal
Examination of eyes

- Periorbital edema & erythema
- Ptosis
- Cornea and conjunctiva – normal
- Restriction of ocular movements

- Left eye proptosis
- Non pulsatile, no bruit
- Fundus: left eye disc edema
Investigations

- Hb: 7.1 g/dl
- TC: 5,380/mm$^3$
- Platelet count: 1,59,000/mm$^3$
- ESR: 100 mm in 1 hr
- LFT: Sr. Bilirubin: 2.9, indirect: 2.5 mg/dl
  Liver enzymes - Normal
- RFT: Normal
- LDH: 626 U/L
- Peripheral smear: suggestive of hemolysis
- DCT: Positive
- ANA: Positive
- RA factor: Negative
- Anti ds DNA: Negative
- Anti phospholipid antibody: Negative
- Lupus anticoagulant: Negative
MRI ORBIT
Treatment

- Iv methylprednisolone - 3 days
- Followed by oral steroids
- Oral iron and folic acid
Discussion-
Pseudotumor orbit
CLINICAL PRESENTATION:
- Periorbital edema
- Chemosis, red eye
- Proptosis
- Ptosis
- Painful eye movement

Immune mediated process

Histopathology:
- Pleomorphic inflammatory cellular response
- Fibrovascular tissue reaction
MRI orbit:

- Fluid in tenon’s space
- Diffuse orbital mass
- Uveo scleral thickening
- Extraocular muscle enlargement

Treatment:
- Systemic corticosteroids
- 75% show dramatic response within 48-72hrs
Association with systemic disorders

- Rheumatoid arthritis
- Systemic lupus erythematosis
- Crohn’s disease
- Giant cell myocarditis
References

- ImtiazA, Middle east journal of ophthalmology vol 15, 2008
THANK YOU