

History

- A 37-year-old male was referred from the Emergency Eye Clinic with a swollen right upper eyelid.
- Symptom relieved with nonsteroidal anti-inflammatory drugs (NSAIDs).
- The initial clinical diagnosis was dacryoadenitis.
- The patient presented again six weeks later with 3mm proptosis, hypoglobus and decreasing visual acuity.
- CT scans (Figure 1) revealed concerning features.
- Considering the clinical differential diagnoses he had incisional biopsy done for histopathological assessment.

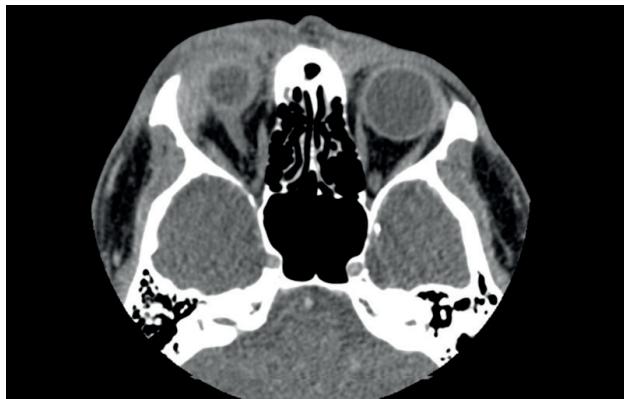


Figure 1

Questions

- How can Figure 1 be described? What clinical differential diagnoses could be considered?
- How can Figures 2 and 3 be described?
- Based on findings seen in Figures 1-4, what is the likely diagnosis? Are there any further useful diagnostic tests to be considered?

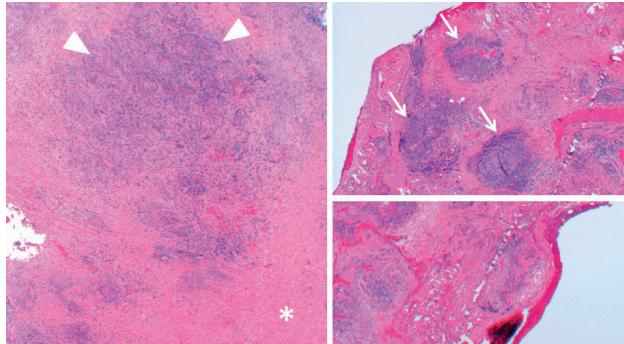


Figure 2

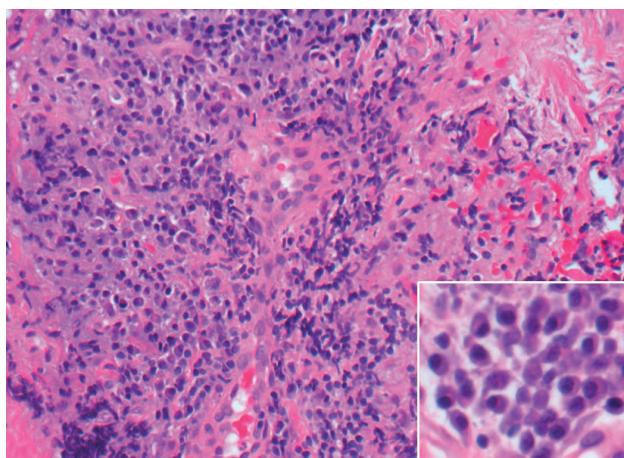


Figure 3

3. The presence of sclerosing inflammation including plentiful plasma cells which show a high IgG⁺/IgG⁺ ratio >40% is suggestive of sclerosing disease.

in addition to serum IgG4 >135 mg/dl or radiologically / biopsy proven involvement of other organs are diagnostic for IgG4 related sclerosing disease.

4. In Figure 2 orbital fat was completely replaced by fibrosis (asterix) and diffuse chronic inflammation (arrowheads). Separate areas contain lymphoid aggregates (arrows). Figure 3 shows sheets of plasma cells. Eccentric nuclei of plasma cells are better of plasma cells. Granulomatous disease.

5. The image shows a right orbital mass displacing the globe. The mass is not distinguishable from the lacrimal gland. Possible differential diagnoses include lymphoproliferative lesion, orbital inflammation and granulomatous disease.

ANSWERS



SECTION EDITOR

Dr Luciane Dreher Irion,

Consultant Ophthalmic Histopathologist, National Specialist Ophthalmic Pathology Service, Manchester University NHS Foundation Trust, Manchester, UK.

E: Luciane.Irion@mft.nhs.uk

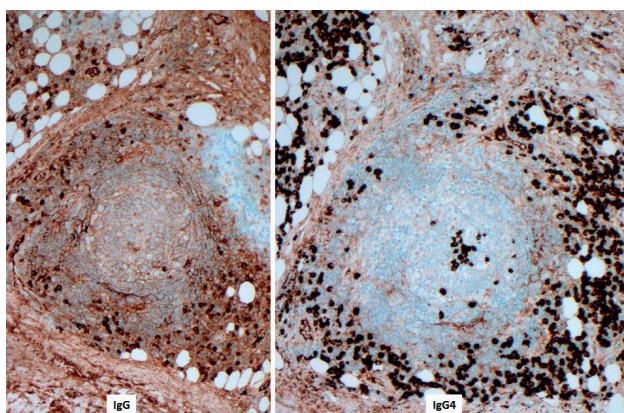


Figure 4