History
10 year old with persistent orbital swelling and erythema 2 months after minor trauma.

Diagnosis
Orbital Langerhans Cell Histiocytosis

Discussion
Langerhans cell histiocytosis is a rare disease, which is most commonly seen in children. Boys are more likely to be affected than girls. The spectrum of manifestations of the disease is broad, ranging from a single lesion to involvement of multiple organs. Bone lesions are the most common manifestation. When there is extraosseous involvement, affected organs may include the skin, central nervous system, liver, spleen, lungs, lymph nodes, bone marrow, soft tissues, and bowel. Some lesions may spontaneously regress and others may respond to chemotherapy, whereas the disease may be fatal in certain patients with multiple organ involvement. Orbital involvement in children has been well documented in the literature both as a solitary finding and as a part of multiple organ involvement. In patients with solitary lesions, findings typically include a lytic lesion centered in the orbital roof with a soft tissue mass extending into the orbit. These lesions respond very well to biopsy and curettage with or without intralesional injection of corticosteroids. Complete resolution is the result in most cases.

Findings
CT-Axial bone algorithm images demonstrate destructive process of lateral left orbital wall. MR-Axial T1 and fat-suppressed T2 and postgadolinium T1 images show isointense T1 and hyperintense T2 and postgadolinium lesion with mass effect upon the lateral rectus muscle in leptomeningeal involvement in the middle cranial fossa.

Reference

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