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## A Case of Headache, Double Vision and Ptosis in Emergency Department: Tolosa-Hunt Syndrome

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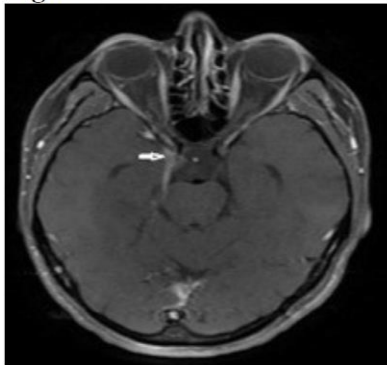
**Introduction:** In the differential diagnosis of headache and double vision symptoms, problems affecting different systems, especially neurological and optical problems can be seen. We present Tolosa-Hunt syndrome (THS) case in a 34-year-old female patient who presented to the emergency department (ED) with the complaints of unilateral severe headache, double vision and ptosis, presented asymmetric contrast enhancement in the right superior cavernous sinus on MRI and whose pain was reduced with steroids therapy.

**Case:** A 34-year-old female patient presented to the ED with the complaints of headache and double vision. In addition to these complaints, the patient noticed ptosis on the day of admission. There were ptosis in the right eye, double vision in the right eye looking upward and leftward and 3rd cranial nerve paresis. Hypoesthesia was identified in dermatomas of the ophthalmic and maxillary branches of the trigeminal nerve in the right half of her face and corneal reflex could not be detected on the right. On the cerebral MRI of the patient, a focal soft tissue lesion showing asymmetrical contrast enhancement to the posterior tentorial surface and having not clear margins was observed in the right superior cavernous sinus section. Pulse steroid therapy of 1 mg/kg/day was planned based on the patient's clinical manifestation, MRI findings and presumed diagnosis of THS. It was observed at patients' follow-up that there were occasional headaches, ptosis and double vision were disappeared and MRI findings were regressed.

**Discussion and conclusion:** In neuro-ophthalmologic emergencies, the emergency physician is confronted consultation with the relevant department, performing imaging studies and determining the need for hospitalization. In the differential diagnosis of patients presenting to the ED with the complaints of headache and double vision, rare pathologies such as THS should be considered in addition of common pathologies such as neurological and ocular diseases.

**Keywords:** Headache, double vision, ptosis

### Figure



*Asymmetric enhancement (arrow) extending from the right cavernous sinus supraoposterior toward the tentorium on contrast enhanced axial MRI examination (arrow).*