

Thalamo-mesencephalic hemorrhage

see also [Mesencephalic hemorrhage](#)

[Thalamic hemorrhage](#).

A 42-year-old Algerian man presented for binocular oblique [diplopia](#), hypersomnolence with [drop attacks](#), bilateral [hearing loss](#), and [thoracic pain](#). He had a right thalamomesencephalic hemorrhage due to an underlying [cavernous malformation](#) treated with subtotal surgical resection. On neuro-ophthalmic examination, the patient had a left relative [afferent pupillary defect](#) and a right oculosympathetic efferent pupillary defect (i.e., [Horner syndrome](#)) in addition to other thalamomesencephalic eye and neurologic signs (right [fourth nerve palsy](#), [hearing loss](#), [hemiparesis](#), and [thalamic pain](#)). Clinicians should recognize the localizing value of this unique constellation of mesencephalic afferent and efferent pupillary defects ¹⁾.

A patient who presented with sudden onset [instability](#) and [diplopia](#). On neurological examination he had asymmetrical [asterixis](#), predominantly in the left hand, and ocular findings consistent with a [pretectal syndrome](#). He was also unable to stand or even sit up unassisted, with a tendency to tilt his body and rotate his trunk axis to the left. Brain MRI showed a hemorrhage in the right thalamo-mesencephalic junction. This region involves important structures for the control of postural stability, motor control, ocular movements and vestibulo-ocular integration, not yet well understood. This is the first reported case with the simultaneous combination of astasia, pretectal syndrome and asymmetrical asterixis ²⁾.

Upgaze palsy and monocular paresis of downgaze caused by ipsilateral thalamo-mesencephalic hemorrhage: a so-called vertical "one-and-a-half" syndrome ³⁾.

References

¹⁾
Sharifi A, Sigireddi RR, Lyons LJ, Kini AT, Al Othman BA, Lee AG. Localizing Thalamomesencephalic Afferent and Efferent Pupillary Defects. J Neuroophthalmol. 2020 Jan 29. doi: 10.1097/WNO.0000000000000903. [Epub ahead of print] PubMed PMID: 32028453.

²⁾
de Pablo-Fernández E, Villarejo A, Domínguez-González C, Hidalgo FS, Callero EC. Astasia, asymmetrical asterixis and pretectal syndrome in thalamo-mesencephalic hemorrhage. Clin Neurol Neurosurg. 2009 Nov;111(9):766-7. doi: 10.1016/j.clineuro.2009.06.003. Epub 2009 Jul 24. PubMed PMID: 19632031.

³⁾
Miyashita K, Sawada T, Satomi M. [Upgaze palsy and monocular paresis of downgaze caused by ipsilateral thalamo-mesencephalic hemorrhage: a so-called vertical "one-and-a-half" syndrome]. Rinsho Shinkeigaku. 1987 Nov;27(11):1407-11. Japanese. PubMed PMID: 3447801.

From:
<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:
https://neurosurgerywiki.com/wiki/doku.php?id=thalamo-mesencephalic_hemorrhage

Last update: **2024/06/07 02:52**

