



Case Report

Copyright © Fabian H Rossi

Unilateral Ptosis with Ipsilateral Frontalis Muscle Activation and Brow Elevation

Assad Khan¹, Joshua Rossi², Elisa M Rossi² and Fabian H Rossi^{3*}

¹Medical Student, UCF Medical School, USA

²Research Coordinator, UCF Medical School, USA

³Director of Clinical Neurophysiology Laboratory, UCF Medical School, USA

*Corresponding author: Fabian H Rossi, Director Clinical Neurophysiology Laboratory Orlando VA Medical Center Professor Neurology UCF Medical School Orlando, USA.

To Cite This Article: Assad Khan, Joshua Rossi, Elisa M Rossi and Fabian H Rossi*. Unilateral Ptosis with Ipsilateral Frontalis Muscle Activation and Brow Elevation. *Am J Biomed Sci & Res.* 2024 20(6) AJBSR.MS.ID.002790, DOI: [10.34297/AJBSR.2024.20.002790](https://doi.org/10.34297/AJBSR.2024.20.002790)

Received: 📅 December 14, 2023; **Published:** 📅 January 03, 2024

Keywords: Ptosis, Myasthenia, Activation frontalis, Brow

Case Report

54-year-old male with several-week-history of new onset right ptosis and horizontal diplopia. Ptosis was present all the time, but worsen at the end of the day. Neurological examination revealed a right ptosis and ipsilateral wrinkling of the forehead. Pupils were reactive to light and accommodation. There was no anisocoria. Neurological examination otherwise was entirely unremarkable. Acetylcholine receptor antibodies were positive supporting the diagnosis of myasthenia gravis. Anti-musk antibodies were nega

tive. Head MRI was unremarkable. Figure 1 depicts the right-sided ptosis with compensatory ipsilateral contraction of the frontalis muscle and elevation of the eyebrow arch at the highest point as an attempt to keep the eyelid open. In some patients with ptosis, frontalis muscle overactivation results in elevation of the brow and indirectivity of the eyelid to improve vision. Neurologists should be alert about this sign of frontalis muscle activation and eyebrow elevation as it might revealed a mild or unperceived ptosis [1].



Figure 1: Right ptosis with ipsilateral frontalis muscles activation and bow elevation.

Study funding

No targeted funding reported.

Disclosures

The authors report no disclosures relevant to the manuscript.

Acknowledgements

None.

Conflict of Interests

None.

References

1. (2019) Lisa Moody, Tarek El Sawy, Rohit K Khosla Ptosis Repair Global Reconstructive Surgery. Global Reconstruction Surgery. pp. 190-197.