







Nidhi B. Panda<sup>1</sup> Shalvi Mahajan<sup>2</sup> Tulasi Ram<sup>3</sup> Kirandeep Kaur<sup>1</sup>

- <sup>2</sup>Department of Anaesthesia and Intensive Care, PGIMER, Chandigarh, India
- <sup>3</sup>Department of Neurosurgery, Postgraduate Institute of Medical Education and Research, Chandigarh, India

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Address for correspondence Nidhi B. Panda, MD, Department of Anaesthesia and Intensive Care, Division of Neuronaesthesia, Postgraduate Institute of Medical Education and Research, Chandigarh 160015, India (e-mail: nidhibp@gmail.com).

Pseudobulbar affect (PBA) is defined as episodes of unprovoked uncontrollable laughter or crying not relatable to an emotional or environmental stimulus. PBA has been associated with various neurological diseases, drugs, movement disorders, stroke, posttraumatic brain injury, and intracranial lesions including cerebellopontine angle (CPA) tumors.<sup>1</sup>

A 29-year-old female presented with holo-cranial headaches and outbursts of uncontrolled laughs. Magnetic resonance

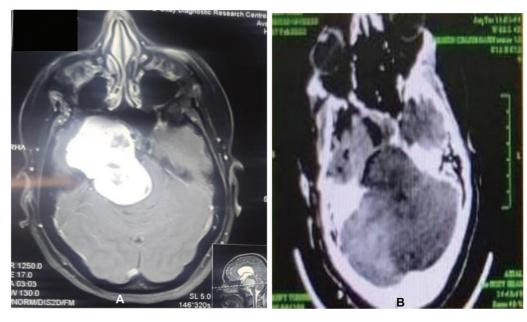


Fig. 1 (A) MRI with contrast showed a dumbbell-shaped extra-axial mass in the middle and posterior cranial fossa extending from the right cerebellopontine angle having cystic and hemorrhagic components. (B) NCCT head in the axial cut in the immediate postoperative period. MRI, magnetic resonance imaging; NCCT, noncontrast computed tomography.

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<sup>&</sup>lt;sup>1</sup> Division of Neuroanaesthesia, Department of Anaesthesia and Intensive Care, Postgraduate Institute of Medical Education and Research, Chandigarh, India

imaging findings were suggestive of a  $5.5 \times 4.9 \times 3.7$  cm solid and cystic lesion in the right CPA compressing on the brainstem ( $\neg$  **Fig. 1A**). Preoperative investigations were normal. A standard anesthetic technique for intraoperative neuromonitoring was used to facilitate electromyography of lower cranial nerves. Through a right frontotemporoorbitozygomatic craniotomy a yellowish-grey suckable tumor was seen between maxillary and mandibular divisions of cranial nerve V. Posterior fossa was entered and gross total excision of tumor extending to ventral part of brainstem was done ( $\neg$  **Fig. 1B**). Histopathological examination of the resected tumor confirmed the trigeminal schwannoma. In the postoperative period, there was complete resolution of her psychiatric symptoms.

Large intracranial lesions are thought to be responsible for the "release phenomenon" causing loss of control of the lower brainstem from the higher centers manifesting as psychiatric mimics.<sup>2</sup> Why not all patients have PBA remains elusive?<sup>3</sup> Not one particular area has been ascribed to the presentation, but various areas postulated to be involved are the periaqueductal region, and lateral pons with anatomical relations to the frontal, basal temporal, hypothalamus, basal ganglia, thalamus, cerebellum, and upper cervical spinal cord. Awareness of such odd presentations can help in prompt management, avoiding unwanted consultations, and additional preoperative anxiolytics, considering it a manifestation of higher levels of anxiety.

Thus, behind this reversible psychiatric presentation, there may be a large intracranial pathology requiring early management by tumor resection. Neuroanesthesiologists should be well versed in this rare exposition that mimics psychiatric symptomatology.

## Patients' Consent

Patient consent was obtained for the publication of clinical information and images to enhance medical knowledge.

## **Authors' Contributions**

K.K. helped review the literature and prepare the manuscript. N.B.P. helped review and approve the final version of the manuscript. S.M. helped design, review the literature, and prepare the manuscript. T.R. helped review and approve the final manuscript.

Conflict of Interest None declared.

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