

Intractable Nausea and Vomiting: Gut Is Not Always the Answer

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1	Intractable nausea and vomiting: gut is not always the answer.
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23	Running-head: A rare cause of intractable nausea and vomiting
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1 PRESENTATION

A 27-years-old female, with no medical history, was referred to the internal medicine department for
intractable nausea, vomiting and hiccup. Symptoms had started one month prior and she had lost
13kg of body weight meanwhile. She was complaining of headaches, photophobia and mild epigastric
pain.

6

7 ASSESSMENT

8 She was afebrile, the physical examination was unremarkable, with a normal abdominal and

9 neurological examination including the absence of neck stiffness. Nausea and vomiting were

10 refractory to the association of metoclopramide, ondansetron and alizapride. There was no history of

11 cannabis consumption. Standard laboratory tests were within the range of normal values, including

12 negative β -HCG assay and unremarkable cerebrospinal fluid. Abdominal, cerebral CT-scan and

- 13 gastroscopy were normal.
- 14

15 **DIAGNOSIS**

16 Cerebral MRI revealed T2 weighted (FLAIR) hyperintensity in the *Area Postrema* (Figure 1, white

arrow). The ophthalmologic examination, as well as the MRI imaging of the spinal cord and the optic

18 nerves were normal. Anti-aquaporin 4 autoantibodies (AQP4) were positive in the serum consistent

19 with the diagnosis of Neuromyelitis Optica Spectrum Disorders (NMOSD) with isolated Area

20 Postrema Syndrome.

21

22 MANAGEMENT

23 Symptoms swiftly resolved under high dose corticosteroids and azathioprine. Nausea and vomiting

24 relapsed during corticosteroids tapering, requiring treatment intensification with plasmapheresis and

25 rituximab. NMOSD are a group of central nervous system inflammatory autoimmune demyelinating

26 diseases, mainly associated with a pathogenic autoantibody specific for the AQP4 water channel¹.

1	NMOSD-typical brain MRI lesions occur in AQP4-enriched areas including the Area Postrema, an		
2	emetic reflex center at the floor of the fourth ventricle ² . Area Postrema Syndrome can be the first or		
3	the sole manifestation of NMOSD. Early detection of Area Postrema Syndrome is crucial as severe		
4	optic neuritis and/or transverse myelitis may occur. NMOSD are frequently refractory disease		
5	requiring aggressive management including corticosteroids, plasmapheresis and rituximab.		
6			
7	RE	FERENCES	
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1 FIGURE LEGEND

- 2 Coronal, sagittal and axial FLAIR MR images demonstrate hyperintensity in the area
- 3 postrema (white arrows).

