Spontaneous Vertebral Artery Dissection and Thrombosis Presenting as Lateral Medullary Syndrome

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A 28-year-old male patient had acute-onset headache, vomiting, vertiginous sensation, and diplopia of 3 days’ duration. Patient, in the past, had recurrent episodes of migraine. General examination was normal. Cranial nerve examination showed left torsional nystagmus, left Horner’s syndrome, decreased pain, and temperature sensation over the left side of the face and decreased pain and temperature sensation over the right side of the body. Power in limbs was normal. Magnetic resonance imaging and computed tomography angiography showed partially thrombosed left vertebral artery aneurysm proximal to the basilar confluence with mass effect and acute infarct on lateral medulla. The patient had left lateral medullary syndrome (►Fig. 1). Patient was treated conservatively. The presumed pathogenetic mechanisms for lateral medullary syndrome are large vessel infarction (50%), arterial dissection (15%), small vessel infarction (13%), and cardiac embolism (5%). In a young patient with migraine, presenting with lateral medullary syndrome, vertebral artery dissection and aneurysm should be suspected.¹²

Fig. 1  Magnetic resonance imaging shows left medullary involvement (A). T2 fluid attenuated inversion recovery hyperintensity. (B) Diffusion-weighted imaging restriction. (C) Corresponding apparent diffusion coefficient mapping. (D) Gradient recalled echo blooming in left vertebral artery with contrast enhancement on spoiled gradient contrast. (E) Computed tomography angiography shows absent left vertebral artery. (F) Normal right vertebral artery. (H) Hypoplastic left vertebral artery.
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Conflict of Interest
None declared.

References

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