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## CASE REPORT:

# Spectrum of Audiovestibular Dysfunction with Down-Beat Nystagmus in Aneurisma Anterior Inferior Cerebellar Artery Territory Rupture

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#### **1** | INTRODUCTION:

Rupture aneurysm of the distal anterior inferior cerebellar artery (AICA) is extremely rare with an incidence of 0.03-0.5% of all intracranial aneurysms (1) . We are reporting a case of ruptured dissecting distal AICA aneurysm with spontaneous resolution. Isolated acute vestibular syndrome remains a diagnostic challenge in the emergency department and the initial approach should include the identification of a central or peripheral etiology (2).

#### 2 | CASE REPORT:

A 42-year-old male patient developed sudden hearing loss in the right ear and vertigo. He also complained for 12 days of feeling very severe headaches, sometimes feeling nausea and vomiting, then taken to the hospital. On examination in getting high blood pressure accompanied by positive neck stiffness and down beat nystagmus. On CT Angiography, aneurysm is accompanied by rupture of the right anterior-inferior cerebellar artery.

#### 3 | DISCUSSION:

Anterior inferior cerebellar artery (AICA) usually arises from the caudal third of the basilar artery and supplies the inner ear, facial and vestibulocochlea nerves, lateral pons, middle cerebellar peduncle and anterior cerebellum. Rupture Aneurysms of the anterior inferior cerebellar artery (AICA) are relatively

**Supplementary information** The online version of this article contains supplementary material, which is available to autho-rized users.

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rare among intracranial aneurysms. They can occur in 1 of 3 regions of the AICA: 1) craniocaudal (high or low riding), 2) mediolateral-premeatal (proximal), and 3) meatal-postmeatal (distal) (3) Patients with distal AICA dissecting aneurysms may present symptoms and signs of typical SAH, with sudden severe headache, meningismus, nausea, vomiting, photophobia, and/or coma. More localizing presentations may be seen, especially in larger aneurysms with mass effect, tinnitus, hearing loss, vertigo, gait ataxia, diplopia, facial paresis and lower cranial nerve palsies (4) .Figure 1

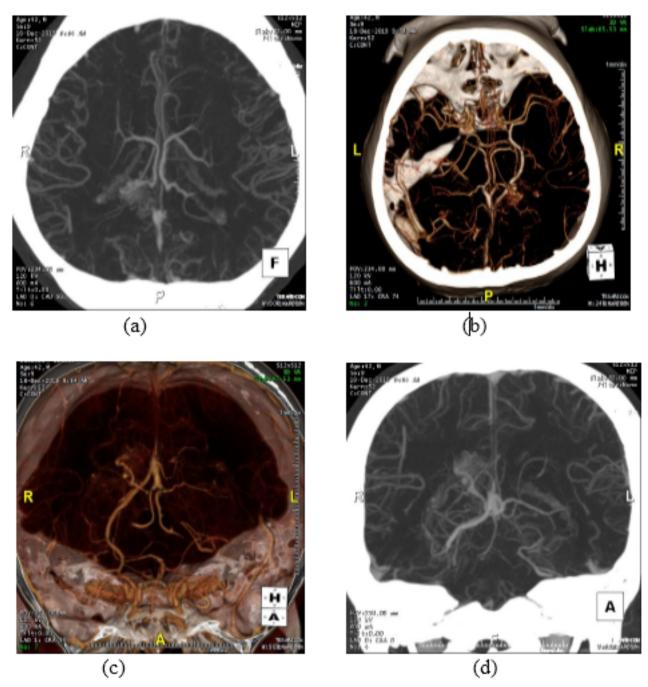
#### 4 | CONCLUSION:

Peripheral AICA ruptured dissecting aneurysm is a very rare disease and little information is available regarding its management. Parent artery occlusion may be proposed as a therapeutic alternative. When performing the occlusion by superselective embolization an excellent anatomic result and clinical outcome can be achieved.

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**FIGURE 1:** Figure 1: (a,b) axial, (c,d) coronal CTAngiography, aneurysm is accompanied by rupture of the rightanterior-inferior cerebellar artery