Transient coma as Percheron's artery stroke: a case report



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INTRODUCTION

The artery of Percheron (AOP) is a rare anatomic variation in the brain vascularization in which a single arterial trunk arises from the posterior cerebral artery (PCA) to supply both sides of brain structures, i.e. the thalamus and midbrain.

Occlusion of this uncommon vessel results in a

EXAMS

Brain MRI showed bilateral talamic subacute stroke; occlusion of basilar apex was excluded. Stroke of Percheron's artery territory was diagnosed. At discharge, neurological examination and cognitive assessment were unremarkable.

characteristic pattern of bilateral paramedian thalamic infarcts with or without mesencephalic infarctions

CASE REPORT

We report the case of a 76 years-old Caucasian woman who was admitted to Emergency Room in coma (Glasgow Coma Scale- GCS=7). Her husband found her lying on the floor, unresponsive. Two hours before she was in healthy conditions. Her past history was unremarkable, except for arterial hypertension and a previous surgical intervention for left popliteal aneurism. She has never had attacks of dizziness or loss of consciousness; she had never suffered from epilepsy.

Neurological examination showed bilateral









Babinski sign and bilateral myotic pupils with mild anisocoria (left>right), no gaze deviation and snoring with pauses of 2-3 seconds.

Brain CT, blood exams, ECG were all normal. Flumazenil was administered without benefit.

After an hour her state of consciousness improved and the patient became alert and cooperative. Her neurological examination became unremarkable except for mild bilateral limitation in upward gaze.

REFERENCES

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A) T2 FRFSE sequence: bilateral talamic stroke B) DWI sequence: bilateral talamic stroke C) T2 FLAIR: bilateral talamic stroke D) Angio- MRI: normal basilar apex

CONCLUSIONS:

Bilateral thalamic infarcts, even if rare, account for 22 to 35% of all thalamic infarcts. In Emergency Room, Percheron's artery occlusion should be considered in patients with patients with unexplained coma.

