FREQUENCY OF ANATOMICAL LESIONS OF ISCHEMIC STROKE IN POSTERIOR CIRCULATION

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Introduction

A posterior circulation (PC) stroke is classically defined by infarction occurring within the vascular territory supplied by the vertebrobasilar (VB) arterial system. The vertebral arteries (VAs) arise from the right and left subclavian arteries and travel cranially through the transverse foramina of the cervical vertebrae. When reaching the foramen magnum, they pierce the dura mater to start their intracranial course. Both VAs join at the pontomedullary junction forming the basilar artery (BA). Posterior circulation strokes represent approximately 20% of all ischemic strokes. Aim, to study the frequency of anatomical lesions of ischemic stroke in posterior circulation.

Methodology

We include in this study 91 patients (52M +39F), who was admitted at the Service of Cerebrovascular Disorders in UHC "Mother Teresa", Tirana, Albania. They was admitted in this service, for the first time ischemic stroke, with different etiologies, during Feb 2017 to Oct 2017. MRI of brain was made for all of them during the hospitalization.

Results

From this study resulted that 30 patients (32,9%) presented ischemic lesion in PICA territory, 24 patients (26,4%), presented ischemic lesion in PCA territory, 9 patients (9,9%), presented ischemic lesion in AICA territory, 6 patients (6.6%) presented ischemic lesion in TOB territory, 10 patients (11%) in ICVA (Intracerebral Vertebral artery) and 12 patients (13.2%) non localization.

Conclusions

As in the other studies, ischemic stroke in PICA territory, is the most frequent, and ICVA stroke is less. Other studies needed to verify this findings, with more patient included.

References

- Labropoulos N, Nandivada P, Bekelis K. Stroke of the posterior cerebral circulation. *Int Angiol* (2011) 30(2):105–14
- Barnett HJM. (2002) A modern approach to posterior circulation ischemic stroke. *Arch Neurol* 2002;59:359-360
- Caplan LR. Posterior circulation ischemia: then, now, and tomorrow. *The Thomas Willis Lecture 2000. Stroke* 2000; 31:2011-2023.