

Microsurgical occlusion of arteriovenous fistula of the Bernasconi – Cassinari Artery to vein of Galen guided by intraoperative arteriography

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Introduction

The Medial Tentorial Artery (MTA) also known as the Bernasconi - Cassinari Artery, is a branch of the meningohypophyseal trunk of the cavernous segment of the internal carotid artery, is not easily identified in angiograms, it is known mainly as the main vascular afference of the tentorial tumors, and also seen in dural arteriovenous fistulas. We present a case of pontomesencephalic bleeding in a 26-year-old patient with angiographic evidence of an arteriovenous fistula from the MTA to the vein of Galen, endovascular management was performed with difficulties for coiling the MTA, therefore microsurgical management with intraoperative angiography was decided with adequate occlusion of the arteriovenous fistula.

Methods

we report a case with a arteriovenous malformation of the Bernasconi Cassinari Artery, a rare case of dural arteriovenous malformation

Results

the endovascular treatment was difficult because the access to the artery could not be obtained, therefore it required microvascular occlusion with an intraoperative angiographic control with adequate occlusion of the malformation, the patient evolved adequately

Conclusions

The gold standard of the management of the fistula of the bernasconi cassinari artery are endovascular, is described in the literature as single cases which were not performed in a micro-surgical way, since we do not have endovascular control we perform microvascular occlusion with angiographic intraoperative control with successful occlusion with the complet treatment for the patient.

Learning Objectives

microsurgical treatment of a fistula arteriovenous malformation of the Bernasconi Cassinari Artery

References

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