

Bilateral Duplication Of Superior Cerebellar Artery Associated With Fetal Posterior Cerebral Artery: Case Presentation

Fötal Posterior Serebral Arter ile İlişkili Bilateral Superior Serebellar Arter Publikasyonu: Olgu Sunumu

HAKAN SEÇKİN, ATILLA KAZANCI, SÜLEYMAN MEN, H. ZAFER KARS

SSK Ankara Hospital, 2nd Neurosurgery Clinic (HS,AK,HZK)
SSK Ankara Hospital, Radiology Clinic (SM)

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A 45-year-old man presented with sudden onset headache, lethargy and vomiting. Computerized tomography (CT) scanning of the head demonstrated subarachnoid hemorrhage. Cerebral angiographic studies revealed an anterior communicating artery (AcoA) aneurysm. On selective vertebral artery injection studies, bilateral duplication of the superior cerebellar arteries (SCA) and left posterior cerebral artery (PCA) of fetal type was observed (Fig. 1a and b).

Unilateral duplication of the SCA has been reported between 0.4 % -28 % while bilateral duplication between 1-4 % [2,3,4]. Double origin is generally considered to be equivalent to the lateral branch of the artery having its own origin from the basilar artery [5].

Fetal type PCA, which was identified with a hypoplastic P1 with a large homolateral posterior communicating artery, has been observed between 10-40 % [1].

Correspondence: Hakan SEÇKİN
Başak sokak 61/16
Küçükesat 06660
Ankara TURKEY
Tel.: +90-312-4465896
Fax: +90-312-4317462
E-mail: hakanseckin@tr.net

REFERENCES

1. Caruso G, Vincentelli F, Rabehanta P, Giudicelli G, Grisoli F Anomalies of the P1 segment of the posterior cerebral artery: Early bifurcation or duplication,



Figure 1a. Left vertebral arteriogram. Left P1 segment is faintly visualised (arrowhead).



Figure 1b. Left common carotid artery injection. Note the enlarged caliber of the fetal type left PCoA.

- fenestration, common trunk with the superior cerebellar artery. *Acta Neurochir (Wien)* 109: 66-71, 1991
- Hardy DG, Peace DA, Rhoton AL Jr: Microsurgical anatomy of the superior cerebellar artery. *Neurosurgery* 6: 10-28, 1980
 - Mani RL, Newton TH, Glickman MG: The superior cerebellar artery: An anatomic-roentgenographic correlation. *Radiology* 91:1102-1108, 1968

- McCormick WF: Vascular diseases of the nervous tissue: Anomalies, malformations and aneurysms, in Bourne GH (ed) : *The Structure and Function of Nervous Tissue Vol III*, Academic Press, New York, 1969. 537-596
- Yaşargil MG: *Microneurosurgery*, Vol 1. Thieme, Stuttgart New York, 1986,133-135 p