

Variations Of PCOM In Among Sudanese

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Introduction:

The posterior cerebral arteries are paired vessels that usually originate from the basilar artery at the level of the pontomesencephalic fissure and are joined by the posterior communicating artery to close the posterior portion of the Circle of Willis. There is a considerable variation in the presence of the arterial segments of the circle of Willis. In the fetal type of the posterior cerebral artery there is an embryonic derivation of this vessel from the internal carotid artery. This study deals with the variations of the posterior part of the circle of Willis, especially the origin of the posterior cerebral artery (PCA).

Material and methods:

The study includes 45 sequential patients of both sexes and different ages between 18 and 72 years, 19 females and 26 males, who underwent brain MRI angiography for various reasons, at Turkish medical diagnostic center (Khartoum state), MRA image were used for investigation the origin, morphology and diameter of PCA.

Results:

The results showed that the patients over the age of sixty years old, had some variations in the cerebral arteries which are discovered accidentally when they underwent brain MRA for various reasons. When comparing the study between men and women it was found that most abnormal variations are in men. Also, it was found that the average diameter of the right PCA was 2.3 mm, while the left artery was 2.9 mm. on the other hand there was variation in the origin and morphology of PCA.