

# Unruptured Internal Carotid Artery Aneurysm

Cerebral hyperperfusion syndrome (CHS) after surgical clipping for cerebral aneurysm is a rare entity. The authors present a 76-year-old woman with a large left internal carotid-posterior communicating artery aneurysm. After successful clipping with temporary occlusion of the internal carotid artery, the patient exhibited motor aphasia. 15O-gas positron emission tomography (PET) showed extreme elevation of the regional cerebral blood flow (rCBF) along with a mildly decreased regional cerebral metabolic rate for oxygen (rCMRO<sub>2</sub>) and a remarkable decrease in the oxygen extraction fraction (OEF) in the territory of the ipsilateral superior trunk of the middle cerebral artery. These data indicated local hyperperfusion. She had fully recovered from the aphasia by postoperative day (POD) 18. PET showed normalization of CBF on POD 27. To our knowledge, this is the first case report to show hyperperfusion syndrome, clearly detected by 15O-gas PET, after aneurysmal neck clipping <sup>1)</sup>.

<sup>1)</sup>

Koiso T, Maruyama D, Hamano E, Mori H, Satow T, Kataoka H, Nakagawara J, Takahashi JC. Hyperperfusion Syndrome Detected by 15O-Gas Positron Emission Tomography after Clipping of a Large Unruptured Internal Carotid Artery Aneurysm: A Case Report. NMC Case Rep J. 2021 Jun 23;8(1):275-279. doi: 10.2176/nmccrj.cr.2020-0240. PMID: 35079475; PMCID: PMC8769413.

From:

<https://neurosurgerywiki.com/wiki/> - Neurosurgery Wiki

Permanent link:

[https://neurosurgerywiki.com/wiki/doku.php?id=unruptured\\_internal\\_carotid\\_artery\\_aneurysm](https://neurosurgerywiki.com/wiki/doku.php?id=unruptured_internal_carotid_artery_aneurysm)

Last update: **2024/06/07 02:50**

