

Scalp traumatic pseudoaneurysm

Pseudoaneurysms have classically been repaired by surgery. Recently, however, several alternatives have become available, and have been used due to the invasiveness of surgical repair ^{1) 2)}.

Eleven cases of traumatic **external carotid artery** branch **pseudoaneurysms** were admitted to the Second Affiliated Hospital of **Jiaxing University**. **Digital subtraction angiography** was performed in all patients. It revealed that the pseudoaneurysms originated from the **internal maxillary artery** in 5 cases, a **superficial temporal artery** in 5 cases, and **occipital artery** in 1 case. Five cases of **internal maxillary artery pseudoaneurysms** and 2 cases of **superficial temporal artery pseudoaneurysms** were treated by embolization; the other 3 cases were surgically resected.

Complete cessation of nasal bleeding was achieved in all 5 pseudoaneurysms of the internal maxillary artery after the endovascular therapies. Scalp bleeding stopped and scalp defect healed up in 2 patients with superficial temporal artery pseudoaneurysms treated by interventional therapy. All patients were followed up for 0.5-2.0 years without recurrence of nosebleed and scalp lump.

For patients with repeated severe **epistaxis**, after **craniocerebral injury**, **digital subtraction angiography** should be performed as soon as possible to confirm a traumatic pseudoaneurysm. **Endovascular therapy** is an effective method for **traumatic internal maxillary artery pseudoaneurysms**. For patients with scalp injuries and pulsatile **lumps**, further examinations including digital subtraction angiography should be performed to confirm the diagnosis. Surgical treatment or endovascular therapy for **scalp traumatic pseudoaneurysm** is effective ³⁾.

1)

Kang SS, Labropoulos N, Mansour MA, Baker WH. Percutaneous ultrasound guided thrombin injection: a new method for treating postcatheterization femoral pseudoaneurysms. *J Vasc Surg*. 1998;27:1032-1038.

2)

Paulson EK, Sheafor DH, Kliewer MA, Nelson RC, Eisenberg LB, Sebastian MW, et al. Treatment of iatrogenic femoral arterial pseudoaneurysms: comparison of US-guided thrombin injection with compression repair. *Radiology*. 2000;215:403-408.

3)

Wang GH, Shen HP, Chu ZM, Shen JG, Zhou HH. **Traumatic pseudoaneurysms of external carotid artery** branch: **Case series** and **treatment** considerations. *Chin J Traumatol*. 2021 Apr 21:S1008-1275(21)00059-6. doi: 10.1016/j.cjtee.2021.04.003. Epub ahead of print. PMID: 33941432.

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Last update: **2024/06/07 02:53**

