A Case of AVM (Arteriovenous Malformation) of the Deep Lobe of the Parotid Gland
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Arteriovenous malformations (AVMs) of the deep lobe of the parotid gland are relatively rare. It is a structural vascular abnormality with no proliferation of cellular components.

A 63-year-old woman presented to the ENT service with a three-month history of swelling and pain on the left side of the parotid area. Enhanced CT revealed a high density spot and diagnostic angiography revealed a high-flow AVM in the deep lobe of the parotid gland. The operation was performed via the parotid gland approach, and the tumor was removed by transecting the superficial temporal artery and the retromandibular vein without massive bleeding.

Histological analysis of the nodule revealed that the proliferating cellular area was composed of endothelial cells and pericytes in addition to the area of dilated vessels. As mentioned above, it was diagnosed an arteriovenous malformation. The AVM showed no evidence of recurrence on CT imaging at about six months after the operation.

Keywords : arteriovenous malformations, parotid gland, pain

References
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Angiography showing that the feeding artery was the superficial temporal artery.

Axial CT scan after enhancement showing a moniliform tumor in the preauricular area (arrow head).

Intra-operative findings. The tumor is positioned in the deep lobe of the parotid gland (arrow head). The arrow indicates the facial nerve.