

# Carotid jugular fistula

Carotid jugular [fistula](#) and [pseudoaneurysm](#) are easy to form after [gunshot](#) injury of [carotid artery](#). [Endovascular therapy](#), such as [stent-graft implantation](#), can successfully block the fistula and pseudoaneurysm cavity. However, the possibility of [in-stent restenosis](#) or occlusion will lead to treatment failure.

Han et al. described the case of a 30-year-old man with carotid jugular fistula and pseudoaneurysm after gunshot injury of left carotid artery who had received stent graft placement. However, two years after stent graft, the stenosis of proximal carotid artery near stent was found and gradually aggravated. During the follow-up, transient amaurosis of his left eye occurred intermittently and in-stent occlusion and severe stenosis of proximal carotid artery were found by computed tomography angiography(CTA) in our centre. Carotid endarterectomy (CEA)with stent graft removal and end to end bypass using vascular graft was performed to reconstruct the blood flow of left carotid artery. To the extent of the authors' knowledge, this case illustrates a rare CEA and vascular graft bypass in the treatment of in-stent occlusion following the gunshot injury to the carotid artery. The successful treatment of this rare case provides an option to deal with this kind of tricky problem <sup>1)</sup>.

<sup>1)</sup>

Han YF, Wang T, Ling YP, Zhao H. Carotid endarterectomy with stent graft removal and end to end bypass in the treatment of in-stent occlusion after endovascular therapy of carotid gunshot injury. Ann Vasc Surg. 2021 May 2:S0890-5096(21)00363-0. doi: 10.1016/j.avsg.2021.04.013. Epub ahead of print. PMID: 33951522.

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