retrievers compared to thromboaspiration (40.7% against 27.6%), there was no statistically relevant difference (p=0.165). Thromboaspiration as the first-line reperfusion method was associated with more complete (mTICI 3, 74.1%) and successful (mTICI 2b-3, 86.5%) reperfusion by the end of the intervention. The use of stent retrievers as the first-line method led to less frequent complete (55.6%) (p=0.048) and successful (66.6%) (p=0.009) reperfusion. The efficiency of the reperfusion in posterior circulation depends on the first-line method and the number of passes. Thus, after the first pass with a stent retriever the level of successful (p=0.04) and complete (p=0.015) reperfusion is statistically lower than with thromboaspiration. SAVE technique also proved to be effective in achieving more successful (p=0.015) and complete (p=0.003) reperfusion comparing to stent retrievers. However, thrombectomy with a stent retriever as a second-line method of recanalization was used more often than thromboaspiration or SAVE. The second-line method was associated with more complete (mTICI 3, 27.6%), there was no statistically relevant difference (p=0.165). Thromboaspiration as the first-line reperfusion method led to less frequent complete (55.6%) and successful (66.6%) reperfusion at the end of the intervention. The use of stent retrievers as the first-line method led to less frequent complete (55.6%) and successful (66.6%) reperfusion by the end of the intervention. The use of stent retrievers as the first-line method led to less frequent complete (55.6%) and successful (66.6%) reperfusion by the end of the intervention. The use of stent retrievers as the first-line method led to less frequent complete (55.6%) and successful (66.6%) reperfusion by the end of the intervention. The use of stent retrievers as the first-line method led to less frequent complete (55.6%) and successful (66.6%) reperfusion by the end of the intervention.

Disclosure: Nothing to disclose.

Introduction Direct carotid puncture (DCP) as a bailout or primary vascular access technique for endovascular thrombectomy (EVT) has been sporadically described in the literature. The collective procedural risk profile and therapeutic outcomes remain unclear.

Objectives and Aims To establish the efficacy and safety profile of DCP.

Method We reviewed our prospectively maintained single-centre database of patients admitted for acute ischaemic stroke (AIS) who underwent EVT. 11 patients treated by DCP approach were identified. We also conducted a literature review on published cases of EVT performed via DCP.

Results 9 studies with a total of 106 cases (our data included) were reviewed. Initial NIHSS score range from 2 to 31 (average 17.1). DCP access was successful in 92.5%. Among this, 86% achieved satisfactory reperfusion (mTICI ≥2b). Average post-procedural mRS is 3.8. Carotid access sites were managed with closure devices in 76.6%, with Angioseal being the most commonly deployed. Haemostasis was achieved by manual compression or combined method in 22.2% and 5.1% of the cases respectively.

Carotid access site-related complications were encountered in 19 cases (17.9%). These include puncture site haematoma (n=12), non-flow-dependent carotid artery dissection (n=4), access site pseudoaneurysm (n=2) and retinal artery occlusion (n=1). 4 cases required further intervention (3.8%). No mortality related to access site complication was reported.

Conclusion Direct carotid puncture is an effective and generally safe approach for EVT, with major access-site related complications seen in <5% of the cases. It should be considered as a bailout technique or primary access approach in selected cases.

References


Disclosure: Nothing to disclose.

Introduction The Walrus Balloon Guide Catheter (BGC) is a new generation of BGC, designed to bypass limitations of conventional BGCs in mechanical thrombectomy.

Objectives To analyze the Walrus BGC for cervical carotid disease (CCD) using the endovascular transcatheter artery revascularization (eTCAr) technique.

Aims Safety and feasibility from a multicenter experience.

Methods Retrospective analysis of prospectively-maintained multicenter datasets.

Results 105 patients with high-grade CCD (median carotid stenosis of 83%) were included. Navigating the Walrus BGC in the common carotid artery (CCA) was successful in all cases despite type 3/bovine arch anatomy in 26.7%. Emergent treatment for cervical tandem occlusion along with mechanical thrombectomy for acute ischemic stroke was performed in 35.2% of the cases, with successful recanalization rate (TICI 2b/3) of 81.1%. Utilizing femoral access in 81.9% of the patients, carotid stenting was performed in all cases except 4 (angioplasty only); adjunct angioplasty and distal protection devices were used in 86.7% and in 53.4% of the cases, respectively. Flow arrest was utilized in the majority of the procedures (87.6%), with successful stent deployment achieved in all cases. No major ischemic or Walrus BGC related complications, myocardial infarction or mortality was encountered. Last follow-up mRS of 0–2 was 70.5% overall and 98.2% in elective eTCAr.

Conclusion We present a large multicenter experience of eTCAr technique utilizing the Walrus BGC. In all cases elective or emergent carotid stenting was successful with proximal flow arrest or flow reversal with or without distal protection device with favorable safety profile on follow-up.

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