Transcarotid artery revascularization (TCAR): a technical video

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ABSTRACT
Carotid revascularization is an important method of stroke prevention and includes carotid endarterectomy and transfemoral carotid angioplasty and stenting. More recently, a hybrid open-endovascular approach, termed transcarotid artery revascularization (TCAR), is garnering increased attention. Although fundamentally a ‘stenting procedure’, unlike transfemoral carotid angioplasty and stenting, TCAR allows for a proximal neuro-protection strategy based on flow reversal. In this technical video, we will review operative techniques and nuances of the TCAR procedure, with a particular focus on the neurovascular proceduralist looking to adopt this technique into routine clinical practice (video 1).

Contributors
NS wrote the abstract and edited the videos. JA filmed parts of the video and drew illustrative figure. AK and DR filmed the video clips. BJC, AZ, and RH helped with final editing. CM directed the script and carried out the procedure.

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Competing interests
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Patient consent for publication
Not required.

Ethics approval
This study involves human participants but an Ethics Committee(s) or Institutional Board(s) exempted this study. An informed consent is attached.

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Technical video
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Video 1 TCAR Technical Video