Utility of 3D rotational angiography road map in flow diverter deployment in a distal dissecting MCA aneurysm

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Distal, dissecting, middle cerebral artery (MCA) aneurysms are changing surgically and endovascularly. Endovascular treatment requires flow diverter stenting. A good vessel visualization is crucial for safe navigation. Three-dimensional rotational digital subtraction angiography (3D-DSA) is used routinely in diagnostic imaging. The utilization of the 3D-DSA road map in vessel navigation and stent deployment is novel. An illustrative video of a distal, dissecting left MCA aneurysm treated with flow diverter stenting is presented. The technical issues were distal location, dissecting nature with double lumen, proximal stenosis, and vessel curves. The 3D-DSA road map helped to enhance visualization with a safer procedure.

The video can be found here: <https://youtu.be/sS3o1Z0P8WE>.

KEYWORDS angiography; cerebral aneurysm; dissecting aneurysm; endovascular; flow diverter stent; video

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