

# Coupler device

The time required to perform an anastomosis in extra-intracranial bypass is approximately 20 to 60 minutes. The search for alternative methods to reduce the ischemic time remains vital.

Coupler devices are helpful to perform the anastomoses, because they significantly reduce ischemia time. Their use is easier at the M1 segment, just before the bifurcation and after takeoff of the lenticulostriate arteries, and in the M2 segment. It would be advisable to have a smaller coupling system, allowing maneuverability in the deeper areas where space is limited <sup>1)</sup>.

<sup>1)</sup>

Vanaclocha V, Herrera JM, Ortiz JM, Verdu F, Gozalbes L, Sanchez M, Rivera M. Viability of Anastomoses With Coupler in Extra-Intracranial Bypass: Cadaveric Study. Neurosurgery. 2015 Feb 12. [Epub ahead of print] PubMed PMID: 25710109.

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Last update: **2024/06/07 02:54**

