Thrombolysis-resistant intracranial clot

Lucas Di Meglio, MD, Jean Philippe Desilles, MD, PhD, Mikael Mazighi, MD, PhD, and Benoît Ho-Tin-Noé, PhD

Correspondence
Dr. Di Meglio
lucas.dimeglio@gmail.com or Dr. Ho-Tin-Noé
benoit.ho-tin-noe@inserm.fr

A 57-year-old man presented with symptoms of right middle cerebral artery (MCA) stroke (NIH Stroke Scale score [NIHSS] 19) including eyes and head deviation, proportional left hemiplegia, left hemianopsia, and left hemispatial neglect. MRI showed occlusion of the first segment of the right MCA (figure). Thrombolysis was initiated 3.5 hours after onset. First angiographic acquisition 1.5 hours later showed persistent occlusion. Successful recanalization was obtained by aspiration thrombectomy 6 hours after onset.

Scanning electron microscopy analysis of the clot (figure) revealed a thick compact outer shell, which might participate in thrombolysis resistance. Despite the initial radioclinical mismatch, NIHSS at 24 hours remained stable at 19.

Author contributions
Lucas Di Meglio: acquisition of data, analysis and interpretation of data. Jean Philippe Desilles: study concept, critical revision of manuscript for intellectual content. Mikael Mazighi: critical revision of manuscript for intellectual content, study supervision. Benoit Ho-Tin-Noé: study concept, critical revision of manuscript for intellectual content, analysis and interpretation of data.

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Disclosure
The authors report no disclosures relevant to the manuscript. Go to Neurology.org/N for full disclosures.

Figure
Macroscopic and ultrastructural aspect of an intracranial thrombolysis-resistant clot
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