## **Supplementary Online Content**

van der Ende NAM, Roozenbeek B, Smagge LEM, et al; for the DUMAS Investigators. Safety and efficacy of dual thrombolytic therapy with mutant prourokinase and small bolus alteplase for ischemic stroke: a randomized clinical trial. *JAMA Neurol.* Published online May 22, 2023. doi:10.1001/jamaneurol.2023.1262

**eTable 1.** Any ICH Subtypes According to the Heidelberg Bleeding Classification in the Modified Intention-to-Treat Population

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**eFigure.** Fibrinogen Levels From Baseline to 24-Hour Post Thrombolytic Treatment in the Modified Intention-to-Treat Population

This supplementary material has been provided by the authors to give readers additional information about their work.

Class	Туре	Description	Intervention (n=121)	Control (n=117)			
1	Hemorrhagic transformation of infarcted brain tissue						
1a	HI1	Scattered small petechiae, no mass effect	6 (5.0%)	6 (5.1%)			
1b	HI2	Confluent petechiae, no mass effect	8 (6.6%)	3 (2.6%)			
1c	PH1	Hematoma within infarcted tissue,         occupying <30%, no substantive mass	0 (0%)	1 (0.9%)			
2	Infarcted hemorrhage within and beyond infarcted brain tissue						
	PH2	Hematoma within infarcted brain tissue, occupying >30%, with obvious mass effect	2 (1.7)	4 (3.4%)			
3	Intracerebral hemorrhage outside the infarcted brain tissue or intracranial-extracerebral hemorrhage						
		<ul> <li>Parenchymal hematoma remote from</li> <li>infarcted brain tissue, intraventricular</li> <li>hemorrhage, subarachnoid hemorrhage,</li> <li>subdural hemorrhage</li> </ul>	0 (0%)	2 (1.7%)			

**eTable 1.** Any ICH Subtypes According to the Heidelberg Bleeding Classification in the Modified Intention-to-Treat Population

Data are n (%).

HI indicates hemorrhagic infarction; and PH, parenchymal hematoma.

	Intervention (n=135)	Control (n=133)
Symptomatic intracranial hemorrhage	0 (0%)	3 (2.3%)
In-hospital death from all causes	0 (0%)	5 (3.8%)

eTable 2.	Safety Outcomes	With Treatment Effects in the Safety	Registry

eTable 3. Treatment Effect Estimates on Any Post-Intervention Intracranial Hemorrhage in Pre-Specified Subgroups

	OR (95% CI)	P-value for interaction
Age		0.84
<70 years (n=125)	1.29 (0.35 to 4.75)	
≥70 years (n=113)	0.77 (0.29 to 2.06)	
Sex		0.58
Male (n=147)	0.79 (0.27 to 2.30)	
Female (n=91)	1.19 (0.37 to 3.88)	
Baseline systolic blood pressure		0.62
<162 mmHg (n=118)	0.47 (0.13 to 1.68)	
≥162 mmHg (n=119)	1.84 (0.63 to 5.36)	
Time from symptom onset to IV thrombolytics		0.78
<121 min (n=121)	0.83 (0.28 to 2.40)	
≥121 min (n=116)	1.18 (0.38 to 3.66)	
Baseline NIHSS		0.49
<4 (n=127)	1.02 (0.33 to 3.21)	
≥4 (n=111)	0.98 (0.35 to 2.77)	
Pre-treatment antiplatelet use		0.41
No (n=145)	1.16 (0.46 to 2.96)	
Yes (n=93)	0.63 (0.13 to 2.98)	

DWI lesion on follow-up imaging		0.99
No (n=100)	5314 (0.00 to inf)	
Yes (n=138)	0.79 (0.35 to 1.81)	
Lacunar syndrome		0.94
No (n=210)	1.00 (0.45 to 2.21)	
Yes (n=28)	0.95 (0.02 to 51.3)	

Subgroup analyses were not performed for ASPECTS and extracranial occlusion, because the number of patients with ASPECTS<10 and an extracranial occlusion were very low.

eFigure. Fibrinogen Levels From Baseline to 24-Hour Post Thrombolytic Treatment in the Modified

## Intention-to-Treat Population

