

Supplementary Online Content

Witsch J, Roh DJ, Avadhani R, et al. Association between intraventricular alteplase use and parenchymal hematoma volume in patients with spontaneous intracerebral hemorrhage and intraventricular hemorrhage. *JAMA Netw Open*. 2021;4(12):e2135773. doi:10.1001/jamanetworkopen.2021.35773

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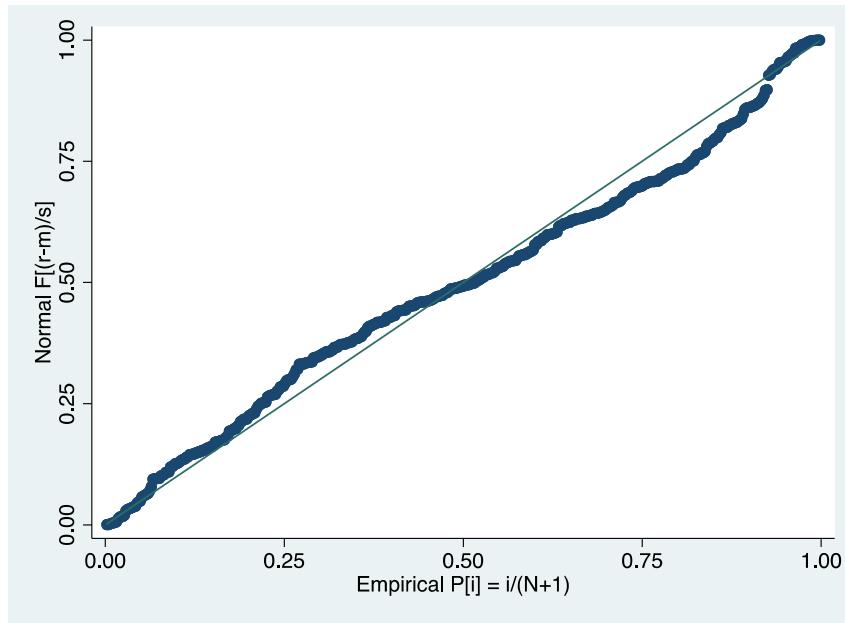
This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Factors Associated With a Change in the Parenchymal ICH Volume in Simple Linear Regression Models

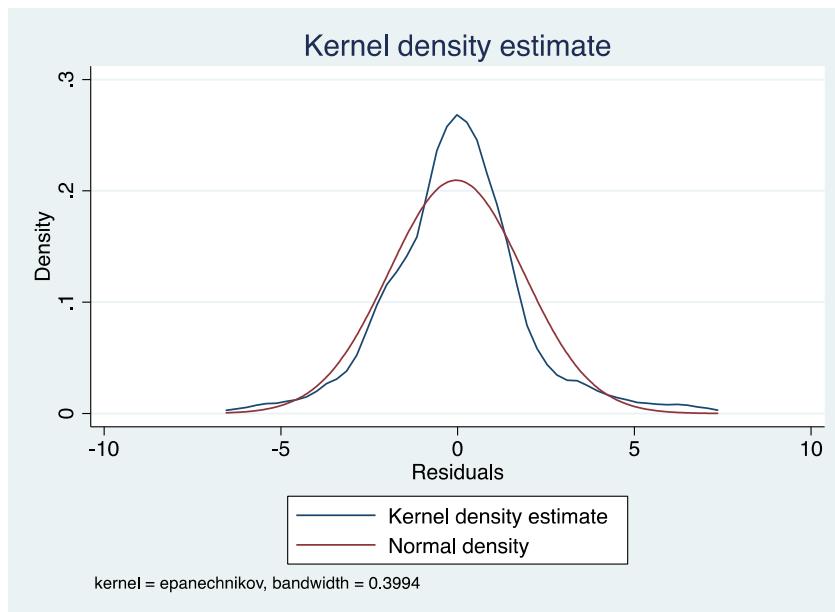
Covariates	Univariable Analysis	
	Beta (95% CI)	P value
Age	0.01 (-0.01 to 0.02)	0.58
Female gender	0.46 (-0.01 to 0.91)	0.05
Black race	0.17 (-0.11 to 0.65)	0.09
Hypertension	0.08 (-0.43 to 0.60)	0.76
Hyperlipidemia	0.37 (-0.95 to 1.70)	0.58
Tobacco use	0.07 (-0.46 to 0.59)	0.81
Prior anticoagulant use	-0.35 (-1.16 to 0.46)	0.39
Prior antiplatelet use	0.22 (-0.30 to 0.75)	0.40
Glasgow Coma Scale at screening	-0.15 (-0.22 to -0.09)	<0.001
ICH location Deep (vs. lobar)	1.44 (0.75 to 2.15)	<0.001
Thalamic ICH location	0.55 (0.07 to 1.03)	0.02
ICH volume on admission	0.09 (0.06 to 0.12)	<0.001
IVH volume on admission	0.01 (-0.01 to 0.03)	0.46
ICH volume at stability	0.09 (0.06 to 0.12)	<0.001
IVH volume at stability	0.01 (0.01 to 0.04)	0.03
End of treatment ICH volume	-0.01 (-0.03 to 0.03)	0.71
End of treatment IVH volume	-0.02 (-0.03 to -0.01)	0.02
EVD ipsilateral to the ICH	0.07 (-0.28 to 0.18)	0.78
More than 1 EVD	0.14 (-0.12 to 0.26)	0.67
Alteplase	1.37 (0.92-1.81)	<0.001
Number of doses of study agent	0.02 (-0.04 to 0.07)	0.54
Time from ictus to first dose of study agent	-0.67 (-0.98 to -0.36)	<0.001

Abbreviations: CI: Confidence interval; dL: deciliter, CSF: Cerebrospinal fluid; EVD: External ventriculostomy drain; ICH: Intracerebral hemorrhage; ICP: Intracranial pressure; IVH: Intraventricular hemorrhage, mg: milligrams, mL: milliliters; OR: Odds ratio, RBC: red blood cell; WBC: white blood cell.
P value <0.05 was considered significant

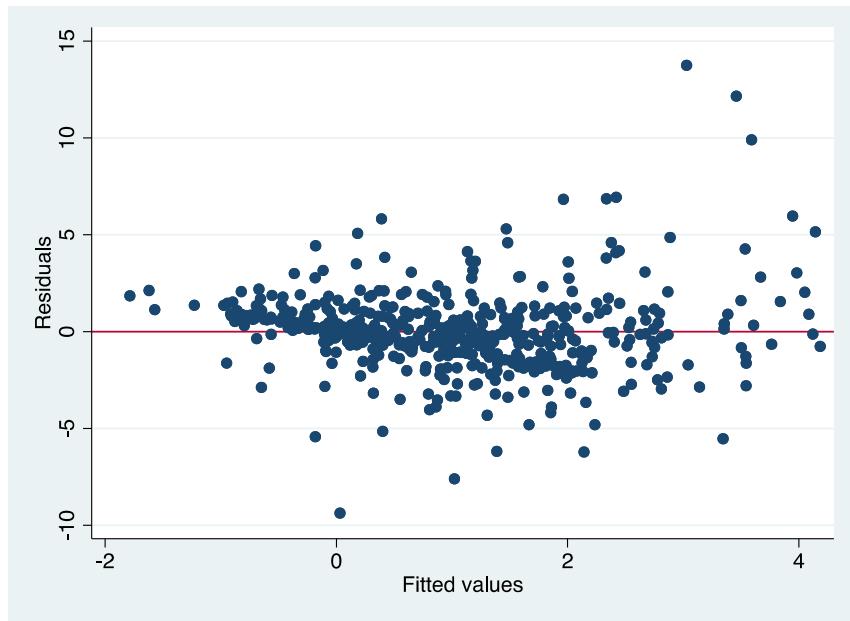
eFigure 1. Standardized Probability Plot for the Linear Regression Model



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eTable 2. Multiple Linear Regression Analysis Showing the Factors Associated With a Change in the Parenchymal ICH Volume

	Robust Standard Errors		Weighted Least Squares Regression	
	Beta (95% CI)	P value	Beta (95% CI)	P value
Alteplase use	0.99 (0.64-1.34)	<0.001	0.78 (0.49 to 1.06)	<0.001
Age	0.01 (-0.01 to 0.04)	0.85	0.02 (-0.015 to 0.05)	0.73
Female sex	0.56 (0.19 to 0.93)	0.003	0.33 (0.05 to 0.61)	0.02
Black race	0.23 (-0.16 to 0.64)	0.23	0.13 (-0.17 to 0.45)	0.39
ICH volume, stability	0.07 (0.04 to 0.10)	<0.001	0.09 (0.06 to 0.12)	<0.001
IVH volume, stability	0.01 (0.001 to 0.02)	0.03	0.01 (-0.01 to 0.05)	0.12
Deep ICH location	0.67 (0.15-1.18)	0.01	0.49 (0.11 to 0.88)	0.01
Time from ictus to first dose of study agent	-0.52 (-0.78 to -0.26)	<0.001	-0.34 (-0.54 to -0.13)	0.001

Abbreviations: CI, confidence interval; ICH, intracerebral hemorrhage; IVH, intraventricular hemorrhage.
P value <0.05 was considered significant