

**ONLINE SUPPLEMENTAL
for manuscript entitled**

**Leaving the day behind: Endovascular therapy beyond 24 h in acute stroke of the anterior
and posterior circulation**

By

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Table S1 Demographic and clinical characteristics and functional outcome in the subgroups of patients treated more than 24 h after last-seen-well or after definite symptom recognition

	EVT_{>24LSW} (N = 16)	EVT_{>24DEF} (N = 27)	p-value
Age, years, mean (SD)	77.6 (10.8)	74.2 (9.7)	0.288
Female sex, n (%)	9 (56.3)	14 (51.9)	>0.99
Referral, n (%)	7 (43.8)	21 (77.8)	0.045
<i>Comorbidities, n (%)</i>			
Prior stroke/TIA	0/15 (0)	5 (18.5)	0.142
Atrial fibrillation	9 (56.3)	4 (14.8)	0.007
Arterial hypertension	14/15 (93.3)	18 (66.7)	0.068
Diabetes mellitus	4/15 (26.7)	8 (29.6)	>0.99
Hyperlipidemia	3 (18.8)	11 (40.7)	0.186
Ischemic heart disease	5/15 (33.3)	5 (18.5)	0.451
Peripheral artery disease	0 (0)	2 (7.7)	0.517
<i>Prior medication, n (%)</i>			
Antiplatelet	7/15 (46.7)	8/26 (30.8)	0.336
Oral anticoagulation	2 (12.5)	2 (7.7)	0.628
NIHSS before EVT, median (IQR) ^a	21 (11–22)	11 (7–19)	0.033
<i>Functional status</i>			
Prestroke mRS, median (IQR)	1 (0–3)	0 (0–2)	0.249
mRS at day 90, median (IQR)	5 (4–6)	4 (2–5)	0.071
Favorable outcome, n (%)	2 (12.5)	8 (29.6%)	0.276
Death, n (%)	7 (43.8)	5 (18.5)	0.092

For abbreviations and definitions please refer to the main text. ^a Missing data in 1/43 (2.3%).

Table S2 Radiological characteristics, and functional outcome in the subgroups of patients treated more than 24 h after last-seen-well or after definite symptom recognition

	EVT_{>24LSW} (N = 16)	EVT_{>24DEF} (N = 27)	p-value
ASPECTS, median (IQR) ^a	9 (8–10)	8 (7–9)	0.201
Collateral status, median (IQR) ^b	2 (1–3)	3 (2–3)	0.254
Occlusion site, n (%)			0.404
ICA	0 (0)	2 (7.4)	
ICA plus MCA	4 (25)	2 (7.4)	
ACA	0 (0)	0 (0)	
Carotid T	4 (25)	3 (11.1)	
MCA, M1	4 (25)	6 (22.2)	
MCA, M2	2 (12.5)	3 (11.1)	
MCA, M3	0 (0)	1 (3.7)	
PCA	0 (0)	(0)	
BA	2 (12.5)	9 (33.3)	
VA	0 (0)	1 (3.7)	
Stenosis, detected, n (%)	2 (12.5)	14 (51.9)	0.021
Reperfusion, n (%)			
mTICI 2c–3	9 (56.3)	16 (59.3)	>0.99
mTICI 2b–3	11 (68.8)	22 (81.5)	0.46
mTICI 0	4 (25)	5 (18.5)	0.706

For abbreviations and definitions please refer to the main text. ^a Assessable in 27/43. ^b Collateral status according to Tan score, assessable in n=25/43 cases [anterior circulation only].

S3 Characteristics of patients in the EVT more than 24 h group with favorable versus unfavorable outcome

	Favorable outcome (N = 10)	Unfavorable outcome (N = 33)	p-value
Age, years, mean (SD)	76 (12)	75 (10)	0.77
Female sex, n (%)	7 (70)	16 (49)	0.294
Referral, n (%)	9 (90)	19 (58)	0.127
<i>Comorbidities, n (%)</i>			
Prior stroke/TIA	0 (0)	5 (16)	0.315
Atrial fibrillation	4 (40)	9 (27)	0.696
Arterial hypertension	8 (80)	24 (75)	>0.99
Diabetes mellitus	1 (10)	11 (34)	0.233
Hyperlipidemia	5 (50)	9 (27)	0.252
Ischemic heart disease	1 (10)	9 (28)	0.404
Peripheral artery disease	0 (0)	2 (6)	>0.99
<i>Prior medication, n (%)</i>			
Antiplatelet	5 (50)	10 (32)	0.453
Oral anticoagulation	0 (0)	4 (13)	0.557
NIHSS before EVT, median (IQR) ^a	8 (5–24)	15 (10–21)	0.321
Prestroke mRS*	1 (0–1)	0 (0–3)	0.675
EVT > 24 since definite symptom onset	8 (80)	19 (58)	0.276
ASPECTS, median (IQR) ^a	10 (7–10)	8 (8–10)	0.615
Collateral status, median (IQR) ^b	3 (3–3)	2 (1–3)	0.043
Occlusion site, n (%)			0.582
ICA	0 (0)	2 (6)	
ICA plus MCA	1 (10)	5 (15)	
ACA	0 (0)	0 (0)	
Carotid T	3 (30)	4 (12)	
MCA, M1	4 (40)	6 (18)	
MCA, M2	0 (0)	5 (15)	
MCA, M3	0 (0)	1 (3)	
PCA	0 (0)	0 (0)	
BA	2 (20)	9 (27)	
VA	0 (0)	1 (3)	
Stenosis, detected, n (%)	4 (40)	12 (36)	>0.99

Reperfusion, n (%)			
mTICI 2c-3	8 (80)	17 (52)	0.153
mTICI 2b-3	10 (100)	23 (70)	0.084
mTICI 0	0 (0)	9 (27)	0.089

^a Assessable in 27/43; ^b Collateral status according to Tan score, assessable in n=25/43 cases

[anterior circulation only].

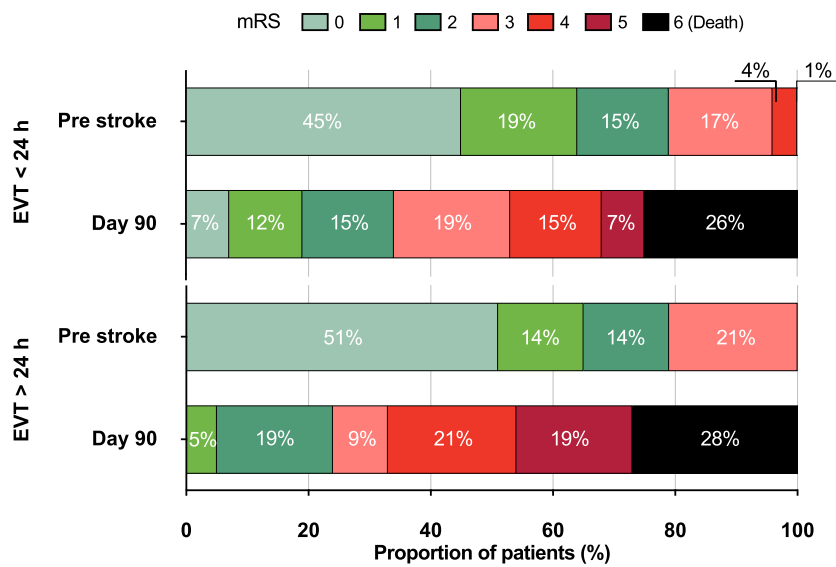
Table S4 Characteristics of patients with anterior versus posterior circulation stroke

	EVT >24	EVT < 24		EVT >24	EVT < 24	
Circulation	Anterior	Anterior	<i>p</i> -value	Posterior	Posterior	<i>p</i> -value
N	31	2048	-	12	256	-
Age, years, mean (SD)	78.3 (8.3)	74 (12.7)	0.009	68.3 (11.2)	73.1 (12.4)	0.187
Female sex, n (%)	19 (61.3)	1081 (52.8)	0.371	4 (33.3)	112 (43.8)	0.562
Referral, n (%)	17 (54.8)	1084/1997 (54.3)	>0.99	11 (91.7)	126 (49.8)	0.006
<i>Comorbidities, n (%)</i>						
Prior stroke/TIA	3 (10)	438/2040 (21.5)	0.176	2 (16.7)	59/255 (23.1)	>0.99
Atrial fibrillation	12 (38.7)	976/2040 (47.8)	0.367	1 (8.3)	99/254 (39)	0.034
Arterial hypertension	21 (70)	1560/2047 (76.2)	0.396	11 (91.7)	189/254 (74.4)	0.304
Diabetes mellitus	8 (26.7)	480/2046 (23.5)	0.667	4 (33.3)	60/255 (23.5)	0.49
Hyperlipidemia	9 (29)	739/2033 (36.4)	0.456	5 (41.7)	83/252 (32.9)	0.542
Ischemic heart disease	7 (23.3)	559/2044 (27.3)	0.836	3 (25)	67/252 (26.6)	>0.99
Peripheral artery disease	1 (3.2)	145/2020 (7.2)	0.721	1/11 (9.1)	14/251 (5.6)	>0.99
<i>Prior medication, n (%)</i>						
Antiplatelet	11/30 (36.7)	664/2015 (33)	0.697	4/11 (36.4)	74/247 (30)	0.739
Oral anticoagulation	4 (12.9)	401/2030 (19.8)	0.494	0/11 (0)	53/249 (21.3)	0.127
NIHSS before EVT, median (IQR) ^a	12 (8–21)	15 (10–20)	0.544	13 (10–20)	15 (7–34)	0.813
<i>Functional status^a</i>						
Prestroke mRS, median (IQR)	1 (0–3)	1 (0–2)	0.661	0 (0–1)	1 (0–2)	0.083
mRS at day 90, median (IQR)	4 (2–5)	3 (2–5)	0.144	5 (3–6)	4 (2–6)	0.245
Favorable outcome, n (%)	8 (25.8)	806/1999 (40.3)	0.138	2 (16.7)	80/251 (31.9)	0.352
Death, n (%)	7 (22.6)	492 (24.5)	>0.99	5 (41.7)	92/252 (36.5)	0.764

ASPECTS, median (IQR) ^a	9 (7–10)	9 (8–10)	0.559	n.a.	n.a.	-
Collateral status, median (IQR) ^a	3 (1–3)	n.a.	-	n.a.	n.a.	-
Stenosis, detected, n (%)	9 (29)	n.a.	-	7 (58.3)	n.a.	
Reperfusion, n (%) ^a						
mTICI 2c–3	17 (54.8)	1166/2032 (57.4)	0.855	8 (66.7)	170 (67.7)	>0.99
mTICI 2b–3	23 (74.2)	1727/2032 (85)	0.124	10 (83.3)	218/251 (86.9)	0.665
mTICI 0	7 (22.6)	200/2032 (9.8)	0.03	2 (16.7)	22 (8.8)	0.301

^a Missing data in anterior circulation analysis: NIHSS 13/2048 (0.6%), pRS 13/2048 (0.6%), mRS at day 90 36/2048 (1.8%), mTICI 16/2048 (0.8%); ASPECTS assessable in 27/31 and 1855/2048; TAN scores 25/31. Missing data in posterior circulation analysis: NIHSS 11/12 (8.3%) and 2/256 (0.8%), pRS 1/256 (0.4%), mRS at day 90 4/256 (1.6%), mTICI 5/256 (2%).

Figure SF1 Distribution of modified Rankin scale scores pre stroke and after 3 months



Distribution of modified Rankin scale scores pre stroke and after 3 months. Pre stroke mRS was missing in 14/2304 (0.6%) and mRS at day 90 missing in 40/2304 (1.7%) (EVT < 24 h).