On-line Table 1: Baseline characteristics (unadjusted) of the studied patient population as stratified by leukoaraiosis severity^a

On-line Table 1: Baseline characteristics (unadjusted) of the studied patient population as stratified by leukoaraiosis severity ^a							
Characteristics	All Patients (n = 129)	None, Moderate LA $(n = 100)$	Severe LA (n = 29)	P Value			
Age (yr)	71 (58–80)	65 (54–77)	81 (75–85)	<.001			
Female sex	52 (40%)	36 (36%)	16 (55%)	.085			
Admission NIHSS score	18 (12–21)	17 (11–21)	19 (17–22)	.094			
Admission SBP (mm Hg)	148 (±28)	147 (±27)	150 (±28)	.608			
Admission DBP (mm Hg)	79 (±19)	81 (±19)	74 (±17)	.115			
Admission glucose level (mg/dL)	121 (106–142)	121 (106–136)	120 (112–144)	.925			
Admission creatinine level (mg/dL)	1.00 (0.79–1.30)	0.91 (0.73–1.19)	1.30 (0.99–1.45)	.081			
Admission white blood cell count ($10^3/\mu$ L)	9.9 (±3.7)	10.1 (±3.7)	9.4 (±3.5)	.409			
HbA1c (%)	6.1 (±1.1)	6.1 (±1.1)	5.8 (±0.6)	.365			
LDL within 24 hours of admission (mg/dL)	79 (63–103)	80 (61–100)	78 (65–104)	.933			
Time to rtPA (min)	118 (±61)	121 (±63)	105 (±53)	.400			
Preadmission medications	(=)	()	(===)				
Antiplatelets	57 (44%)	41 (41%)	16 (55%)	.206			
Oral anticoagulant	18 (14%)	11 (11%)	7 (24%)	.123			
Statin	60 (47%)	44 (44%)	16 (55%)	.300			
Antiglycemic	17 (13%)	13 (13%)	4 (14%)	1.000			
Antihypertensive	60 (47%)	46 (46%)	14 (48%)	.836			
Pre-existing risk factors	00 (1770)	10 (1070)	11(10/0)	.030			
Hypertension	101 (78%)	75 (75%)	26 (90%)	.125			
Dyslipidemia	75 (58%)	56 (56%)	19 (66%)	.399			
Diabetes	29 (23%)	22 (22%)	7 (24%)	.804			
Prior stroke or transient ischemic attack ^b	29 (23%)	16 (16%)	13 (45%)	.002			
Atrial fibrillation	44 (34%)		19 (66%)	.002			
Coronary artery disease	48 (37%)	25 (25%) 32 (32%)	16 (55%)	.030			
	26 (20%)	19 (19%)	7 (24%)	.601			
Congestive heart failure	, ,	, ,	, ,	.009			
Peripheral vascular disease	13 (10%)	6 (6%)	7 (24%)				
Tobacco use Alcohol abuse	46 (36%)	35 (35%)	11 (38%)	.827 .518			
Final TOAST stroke mechanism	15 (12%)	13 (13%)	2 (7%)	.014			
	2F /100/)	22 (22%)	2 /100/)	.014			
Large-artery atherosclerosis	25 (19%)	22 (22%)	3 (10%)				
Cardioembolic Stroke of other or undetermined cause	77 (60%)	53 (53%)	24 (83%)				
	27 (21%)	25 (25%)	2 (7%)	< 0.01			
Leukoaraiosis grade (van Swieten score)	47 (2 (9/)	47 (470/)	0 (00/)	<.001			
0	47 (36%)	47 (47%)	0 (0%)				
1	30 (23%)	30 (30%)	0 (0%)				
2	23 (18%)	23 (23%)	0 (0%)				
3	13 (10%)	0 (0%)	13 (45%)				
4	16 (12%)	0 (0%)	16 (55%)				
Acute intervention ^c	7.4 (570/)	FF (FF0/)	10 (((0))	205			
IV rtPA	74 (57%)	55 (55%)	19 (66%)	.395			
IA rtPA	78 (61%)	61 (61%)	17 (59%)	.832			
Mechanical thrombectomy	109 (85%)	89 (89%)	20 (69%)	.017			
Time to first run (min)	252 (180–338)	256 (190–345)	210 (146–315)	.483			
Procedure duration (min)	92 (60–135)	99 (60–142)	90 (70–120)	.407			
Time to recanalization (min) ^d	354 (285–443)	359 (299–439)	335 (271–451)	.329			
Good collaterals (grades 3–4)	67 (55%)	48 (51%)	19 (70%)	.084			
Good recanalization (TICI 2b–3)	104 (81%)	80 (80%)	24 (83%)	1.000			
Parenchymal hemorrhage	37 (29%)	26 (26%)	11 (38%)	.246			
Discharge mRS (0–2)	25 (19%)	23 (23%)	2 (7%)	.063			
Discharge mRS (0–3)	45 (35%)	42 (42%)	3 (10%)	.002			
In-hospital mortality (mRS 6)	42 (33%)	25 (25%)	17 (59%)	.001			
Good 3-month mRS	55 (43%)	51 (51%)	4 (14%)	<.001			

Note:—LA indicates leukoaraiosis; LDL, low-density lipoprotein; TOAST, Trial of Org 10172 in Acute Stroke Treatment; IA, intra-arterial; SBP, systolic blood pressure; DBP, diastolic blood pressure; HbA1c, glycated hemoglobin.

 $^{^{\}rm a}$ Data are No. (%), mean (± SD), or median (interquartile range).

^b Prior lesion not in the same hemisphere as current lesion.

 $^{^{\}rm c}\,{\rm Most}$ patients had >1 treatment modality.

^d Defined as the time to final attempt at recanalization.

On-line Table 2: Baseline characteristics (unadjusted) of the studied patient population stratified according to 90-day outcome^a

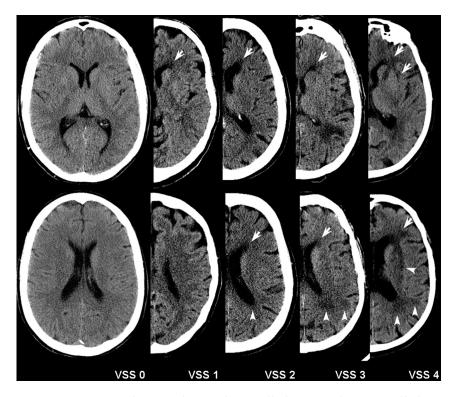
Age (yr) 71 (58-80) 63 (51-74) 77 (64-83) <0.01		2n-line Table 2: Baseline characteristics (unadjusted) of the studied patient population stratified according to 90-day outcome				
Female sex	Characteristics	All Patients (n = 129)	Good Outcome (n = 55)	Poor Outcome (n = 74)	P Value	
Admission NH/SS score 18 (D-21) 14 (D-19) 18 (b-2) <.001 Admission SBP (mm Hg) 148 (±28) 146 (±24) 149 (±30) .551 Admission DBP (mm Hg) 79 (±19) 79 (±16) 80 (±20) .813 Admission glucose level (mg/dL) 121 (106-142) 117 (105-130) 124 (108-144) .032 Admission was restrictine level (mg/dL) 120 (1079-130) 0.90 (079-14) 110 (080-140) .020 Admission white blood cell count (107/µL) 199 (±3.7) 9.6 (±3.0) 101 (±4.1) .402 LbAic (%) 61 (±11) 6.0 (±0.8) 6.1 (±1.2) .443 LDL within 24 hours of admission (mg/dL) 118 (±6) 124 (±78) 13 (±46) .518 Preadmission medications 7 74 (\$0.90) .91 .46 .91 .47 (50-92) .031 Preadmission medications 7 18 (4%) 9 (68%) .9 (25%) .609 .58 Antiplatelets 57 (44%) 20 (38%) .9 (25%) .35 (47%) .860 Station 60 (47%) 25 (45	Age (yr)	71 (58–80)	63 (51–74)	77 (64–83)	<.001	
Admission SBP (mm Hg) Admission SBP (mm Hg) Admission DBP (mm Hg) 79 (±19) 79 (±19) 79 (±16) 80 (±20) 813 Admission glucose level (mg/dL) 121 (106-142) 117 (105-130) 114 (108-144) .032 Admission mit blood cell count (10³/μL) 110 (0.079-1.30) .99 (±3.7) 9.6 (±3.0) 10.1 (±4.1) 4.02 4.04 (½) 4.15 (½) 4.15 (½) 4.15 (½) 4.16 (½) 4.15 (½)		` ,	` '	` '		
Admission DBP (mm Hg) 79 (±19) 79 (±19) 80 (±20) 8.81 Admission glucose level (mg/dL) 121 (106-142) 117 (105-130) 124 (108-144) .032 Admission reatinine level (mg/dL) 100 (079-130) 0.90 (079-114) 110 (080-140) .020 Admission white blood cell count (103/µL) 9.9 (±3.7) 9.6 (±3.0) 10.1 (±4.1) .402 HbAk (%) 61 (±11) 6.0 (±0.8) 6.1 (±1.2) .443 LDL within 24 hours of admission (mg/dL) 79 (63-103) 89 (66-115) 74 (59-92) .031 Time to rtPA (min) 118 (±61) 124 (±78) 13 (±6) .518 Preadmission medications	Admission NIHSS score	18 (12–21)	14 (10–19)	18 (16–22)	<.001	
Admission glucose level (mg/dL) 117 (105-130) 124 (108-144) .032 Admission creatinine level (mg/dL) 1.00 (079-130) 0.90 (0.79-13) 110 (0.80-140) .032 Admission white blood cell count (10³/μL) 9.9 (±3.7) 9.6 (±3.10) 110 (124.1) .402 HbAk (%) 6.1 (±1.1) 6.0 (±0.8) 6.1 (±1.2) .443 LDL within 24 hours of admission (mg/dL) 79 (63-103) 89 (66-115) 74 (59-92) .031 Time to rtPA (min) 118 (±6) 124 (±78) 113 (±46) .58 Preadmission medications	Admission SBP (mm Hg)	148 (\pm 28)	146 (±24)	149 (±30)	.551	
Admission creatinine level (mg/dL) 1.00 (0.79–1.130) 0.90 (0.79–1.14) 1.10 (0.80–1.40) 0.20 Admission white blood cell count (10³/μL) 9.9 (±3.7) 9.6 (±3.0) 10.1 (±4.1) .402 LDL within 24 hours of admission (mg/dL) 6.1 (±1.1) 6.0 (±0.8) 6.1 (±1.2) .443 LDL within 24 hours of admission (mg/dL) 79 (63–103) 89 (66–115) 74 (59–92) .031 Time to rtPA (min) 18 (±6) 124 (±78) 118 (±46) .518 Preadmission medications	Admission DBP (mm Hg)	79 (±19)		80 (±20)	.813	
Admission white blood cell count (10²/μL) 9.9 (±3.7) 9.6 (±3.0) 10.1 (±4.1) 4.02 HbAIc (%) 6.1 (±1.1) 6.0 (±0.8) 6.1 (±1.2) 4.43 LD. within 24 hours of admission (mg/dL) 79 (63–103) 89 (66–115) 74 (59–92) 0.31 Time to rtPA (min) 118 (±6) 124 (±78) 13 (±46) 5.18 Preadmission medications 57 (44%) 20 (36%) 37 (50%) 1.52 Antiplatelets 57 (44%) 20 (36%) 37 (50%) 1.52 Oral anticoagulant 18 (4%) 9 (16%) 9 (12%) 6.60 Statin 60 (47%) 25 (45%) 35 (47%) .860 Antilyperension 17 (13%) 4 (7%) 13 (88%) .116 Antilypertension 101 (78%) 41 (55%) .477 Dyslipidemia 75 (58%) 34 (62%) 41 (55%) .477 Diabetes 29 (23%) 12 (7%) 12 (23%) .201 Atral fibrillation 44 (34%) 12 (22%) 33 (45%) .094 Congestive h	Admission glucose level (mg/dL)	121 (106–142)	117 (105–130)	124 (108–144)	.032	
HbAlc (%)	` • · · ·	1.00 (0.79–1.30)	0.90 (0.79–1.14)	1.10 (0.80–1.40)		
LDL within 24 hours of admission (mg/dL)	Admission white blood cell count ($10^3/\mu$ L)	9.9 (±3.7)	` ,	10.1 (±4.1)	.402	
Time to rtPA (min) I18 (±61) 124 (±78) I13 (±46) .518 Preadmission medications 37 (50%) .152 Antiplatelets 57 (44%) 20 (36%) 37 (50%) .152 Oral anticoagulant 18 (44%) 9 (6%) 9 (12%) .609 Statin 60 (47%) 25 (45%) .35 (47%) .860 Antiglycemic 17 (13%) 4 (7%) 13 (88%) .116 Antinypertensive 60 (47%) 27 (49%) 33 (45%) .721 Pre-existing risk factors Hypertension 101 (78%) 41 (75%) 60 (81%) .395 Dyslipidemia 75 (58%) 34 (62%) 41 (55%) .477 Diabetes 29 (23%) 12 (17%) 17 (23%) 1.000 Prior stroke or TIAb 29 (23%) 12 (17%) 34 (52%) 41 (55%) .477 Diabetes 29 (23%) 12 (17%) 32 (43%) .004 Accoroary artery disease 48 (37%) 15 (22%) 33 (45%) .05 Congestive heart failure	HbA1c (%)	6.1 (±1.1)	6.0 (±0.8)	6.1 (±1.2)		
Preadmission medications Antiplatelets 57 (44%) 20 (36%) 37 (50%) 1.52 Oral anticoagulant 18 (14%) 9 (16%) 9 (12%) 609 Statin 60 (47%) 25 (45%) 35 (47%) 860 Antilypermic 17 (13%) 4 (7%) 13 (8%) 1.16 Antihypertensive 60 (47%) 27 (49%) 33 (45%) .721 Pre-existing risk factors Hypertension 101 (78%) 41 (75%) 60 (81%) .395 Dyslipidemia 75 (58%) 34 (62%) 41 (55%) .477 Diabetes 19 (23%) 12 (17%) 17 (23%) 1000 Prior stroke or TIAb 29 (23%) 9 (16%) 20 (27%) .201 Atrial fibrillation 44 (34%) 12 (22%) 32 (43%) .004 Coropacy artery disease 48 (37%) 15 (27%) 33 (45%) .05 Congestive heart failure 26 (20%) 7 (13%) 19 (26%) .079 Peripheral vascular disease 13 (0%) 2 (4%) 11 (15%)	LDL within 24 hours of admission (mg/dL)	79 (63–103)	89 (66–115)	74 (59–92)	.031	
Antiplatelets Oral anticoagulant B [14%] Oral anticoagulant Statin Oral Artiglycernic Oral Artiglycernic Oral Antiglycernic Oral Oral Artial fibriant Oral Statin Oral Artial fibriant Oral Oral Oral Oral Oral Oral Oral Oral	Time to rtPA (min)	118 (±61)	124 (±78)	113 (±46)	.518	
Oral anticoagulant 18 (14%) 9 (16%) 9 (12%) 6.09 Statin 60 (47%) 25 (45%) 35 (47%) 8.60 Antiglycemic 17 (13%) 4 (7%) 13 (8%) .116 Antihypertensive 60 (47%) 27 (49%) 33 (45%) .721 Pre-existing risk factors	Preadmission medications					
Statin 60 (47%) 25 (45%) 35 (47%) .860 Antilyperenic 17 (13%) 4 (7%) 13 (8%) .116 Antilypertensive 60 (47%) 27 (49%) 33 (45%) .721 Pre-existing risk factors	Antiplatelets	57 (44%)	20 (36%)	37 (50%)	.152	
Antiplycemic Antipypertensive 60 (47%) 27 (49%) 33 (45%) .721 Pre-existing risk factors Hypertension 101 (78%) 41 (75%) 60 (81%) .395 Dyslipidemia 75 (58%) 34 (62%) 41 (55%) .477 Diabetes 29 (23%) 12 (17%) 17 (23%) 1.000 Prior stroke or TIAb 29 (23%) 9 (16%) 20 (27%) .201 Atrial fibrillation 44 (34%) 12 (22%) 32 (43%) .014 Coronary artery disease 48 (37%) 15 (27%) 33 (45%) .055 Congestive heart failure 26 (20%) 7 (13%) 19 (26%) .079 Peripheral vascular disease 13 (10%) 2 (4%) 11 (15%) .042 Tobacco use 46 (36%) 19 (35%) 27 (37%) .854 Alcohol abuse 15 (12%) 8 (15%) 7 (10%) .414 Final TOAST stroke mechanism Large-artery atherosclerosis 25 (19%) 12 (22%) 13 (18%) Cardioembolic 377 (60%) 28 (51%) 49 (66%) Stroke of other or undetermined cause 27 (21%) 15 (27%) 12 (16%) Leukoaraiosis grade (van Swieten scale score) 0 47 (36%) 27 (49%) 20 (27%) 1 1 30 (23%) 13 (24%) 17 (23%) 10 (16%) 4 4 16 (12%) 2 (4%) 12 (16%) 4 Acute intervention 17 IV rtPA 78 (61%) 35 (64%) 43 (58%) .859 Al rtPA 78 (61%) 35 (64%) 43 (58%) .587 Mechanical thrombectomy 19 (26%) 19 (60-126) 98 (70-149) .254 Good collaterals (grade 4) 29 (24%) 12 (23%) 17 (25%) 1.000 Good recanalization (TICI 2b-3) 10 (48%) 50 (91%) 54 (73%) .013	Oral anticoagulant	18 (14%)	9 (16%)	` ,	.609	
Antihypertensive Pre-existing risk factors Hypertension Dyslipidemia Dyslipidemia Dyslipidemia To (58%) Dyslipidemia To (75%) Diabetes Dyslipidemia Dyslipidemi	Statin	60 (47%)	25 (45%)	35 (47%)	.860	
Pre-existing risk factors Hypertension 101 (78%) 11 (75%) 13 (60 (81%) 13 (395) Dyslipidemia 17 (5886) 13 (462%) 14 (55%) 17 (23%) 1000 Prior stroke or TIA ¹⁵ 29 (23%) 12 (17%) 17 (23%) 1000 Prior stroke or TIA ¹⁵ 29 (23%) 19 (16%) 20 (27%) 20 (27%) 20 (37%) 21 (37%) 22 (31%) 23 (38%) 24 (36%) 27 (49%) 28 (51%) 29 (66%) 29 (65%) 21 (15%) 21 (16%) 21	Antiglycemic	17 (13%)	4 (7%)	13 (18%)	.116	
Hypertension 101 (78%) 41 (75%) 60 (81%) .395 Dyslipidemia 75 (58%) 34 (62%) 41 (55%) .477 .477 .477 .477 .477 .477 .478 .477 .477 .477 .478 .477 .477 .478 .477 .477 .478 .477 .478 .477 .478 .477 .478 .477 .478 .477 .478 .477 .478 .477 .478 .477 .478 .477 .478 .477 .478 .477 .478 .478 .477 .478 .478 .477 .478 .478 .478 .477 .478 .	Antihypertensive	60 (47%)	27 (49%)	33 (45%)	.721	
Dyslipidemia 75 (58%) 34 (62%) 41 (55%) .477 Diabetes 29 (23%) 12 (17%) 17 (23%) 1.000 Prior stroke or TIAb 29 (23%) 9 (16%) 20 (27%) .201 Atrial fibrillation 44 (34%) 12 (22%) 32 (43%) .014 Coronary artery disease 48 (37%) 15 (27%) 33 (45%) .065 Congestive heart failure 26 (20%) 7 (13%) 19 (26%) .079 Peripheral vascular disease 13 (10%) 2 (4%) 11 (15%) .042 Tobacco use 46 (36%) 19 (35%) 27 (37%) .854 Alcohol abuse 15 (12%) 8 (15%) 7 (10%) .414 Final TOAST stroke mechanism 12 (22%) 13 (8%) .93 .18 (8%) .93 .854 Large-artery atherosclerosis 25 (19%) 12 (22%) 13 (8%) .94 (66%) .93 .18 (8%) .94 (66%) .93 .93 .18 (8%) .94 (66%) .93 .93 .18 (8%) .94 (66%) .93 <	Pre-existing risk factors					
Diabetes 29 (23%) 12 (17%) 17 (23%) 1,000 Prior stroke or TIAb 29 (23%) 9 (16%) 20 (27%) .201 Atrial fibrillation 44 (34%) 12 (22%) 32 (43%) .014 Coronary artery disease 48 (37%) 15 (27%) 33 (45%) .065 Congestive heart failure 26 (20%) 7 (13%) 19 (26%) .079 Peripheral vascular disease 13 (10%) 2 (4%) 11 (15%) .042 Tobacco use 46 (36%) 19 (35%) 27 (37%) .854 Alcohol abuse 15 (12%) 8 (15%) 7 (10%) .414 Final TOAST stroke mechanism	Hypertension	101 (78%)	41 (75%)	60 (81%)	.395	
Prior stroke or TIAb 29 (23%) 9 (16%) 20 (27%) .201 Atrial fibrillation 44 (34%) 12 (22%) 32 (43%) .014 Coronary artery disease 48 (37%) 15 (27%) 33 (45%) .065 Congestive heart failure 26 (20%) 7 (13%) 19 (26%) .079 Peripheral vascular disease 13 (10%) 2 (4%) 11 (15%) .042 Tobacco use 46 (36%) 19 (35%) 27 (37%) .854 Alcohol abuse 15 (12%) 8 (15%) 7 (10%) .414 Final TOAST stroke mechanism	Dyslipidemia	75 (58%)	34 (62%)	41 (55%)	.477	
Atrial fibrillation	Diabetes	29 (23%)	12 (17%)	17 (23%)	1.000	
Coronary artery disease Congestive heart failure Peripheral vascular disease Periphera	Prior stroke or TIA ^b	29 (23%)	9 (16%)	20 (27%)	.201	
Congestive heart failure 26 (20%) 7 (13%) 19 (26%) .079 Peripheral vascular disease 13 (10%) 2 (4%) 11 (15%) .042 Tobacco use 46 (36%) 19 (35%) 27 (37%) .854 Alcohol abuse 15 (12%) 8 (15%) 7 (10%) .414 Final TOAST stroke mechanism Large-artery atherosclerosis 25 (19%) 12 (22%) 13 (18%) Cardioembolic 77 (60%) 28 (51%) 49 (66%) Stroke of other or undetermined cause 27 (21%) 15 (27%) 12 (16%) Leukoaraiosis grade (van Swieten scale score) 0 47 (36%) 27 (49%) 20 (27%) 1 30 (23%) 13 (24%) 17 (23%) 17 (23%) 2 23 (18%) 11 (20%) 11 (15%) 3 13 (10%) 2 (4%) 12 (16%) 4 16 (12%) 2 (4%) 14 (19%) Acute intervention ^c 1V rtPA 74 (57%) 31 (56%) 43 (58%) .587 Mechanical thrombectomy 109 (85%) 48 (87%)	Atrial fibrillation	44 (34%)	12 (22%)	32 (43%)	.014	
Peripheral vascular disease 13 (10%) 2 (4%) 11 (15%) .042 Tobacco use 46 (36%) 19 (35%) 27 (37%) .854 Alcohol abuse 15 (12%) 8 (15%) 7 (10%) .414 Final TOAST stroke mechanism Large-artery atherosclerosis 25 (19%) 12 (22%) 13 (18%) Cardioembolic 77 (60%) 28 (51%) 49 (66%) Stroke of other or undetermined cause 27 (21%) 15 (27%) 12 (16%) Leukoaraiosis grade (van Swieten scale score) 0 47 (36%) 27 (49%) 20 (27%) 1 30 (23%) 13 (24%) 17 (23%) 12 (16%) 2 23 (18%) 11 (20%) 11 (15%) 3 (16%) 3 (16%) 2 (4%) 12 (16%) 4 (16%) 4 (16 (12%) 2 (4%) 12 (16%) 4 (16%) 4 (16 (12%) 2 (4%) 12 (16%) 1 (15%) 3 (16%) 2 (4%) 12 (16%) 4 (16%) 3 (16%) 2 (4%) 12 (16%) 4 (16 (12%) 2 (4%) 12 (16%) 4 (16 (12%) 2 (4%) 12 (16%)	Coronary artery disease	48 (37%)	15 (27%)	33 (45%)	.065	
Tobacco use Alcohol abuse I5 (12%) Alcohol abuse I5 (12%) B (15%) T (10%) Alt4 Final TOAST stroke mechanism Large-artery atherosclerosis Cardioembolic Stroke of other or undetermined cause Leukoaraiosis grade (van Swieten scale score) O 47 (36%) 27 (21%) 18 (22%) 18 (18%) 49 (66%) Stroke of other or undetermined cause Leukoaraiosis grade (van Swieten scale score) O 47 (36%) 27 (49%) 20 (27%) 1 30 (23%) 13 (24%) 17 (23%) 2 23 (18%) 11 (10%) 11 (15%) 3 13 (10%) 2 (4%) 12 (16%) 4 16 (12%) Acute intervention ^C IV rtPA IA rtPA F8 (61%) IA rtP	Congestive heart failure	26 (20%)	7 (13%)	19 (26%)	.079	
Alcohol abuse 15 (12%) 8 (15%) 7 (10%) .414 Final TOAST stroke mechanism .193 Large-artery atherosclerosis 25 (19%) 12 (22%) 13 (18%) .49 (66%) 28 (51%) 49 (66%) .5 (66%) .5 (66%) .5 (77 (60%) 28 (51%) .49 (66%) .5 (77 (60%) .28 (51%) .49 (66%) .5 (77 (60%) .28 (51%) .49 (66%) .5 (77 (60%) .28 (51%) .49 (66%) .5 (77 (60%) .28 (51%) .49 (66%) .5 (77 (60%) .28 (51%) .49 (66%) .5 (77 (60%) .28 (51%) .49 (66%) .5 (77 (60%) .28 (51%) .49 (66%) .5 (77 (60%) .28 (51%) .49 (66%) .5 (77 (60%) .28 (51%) .49 (66%) .5 (77 (60%) .29 (16%) .5 (77 (60%) .29 (16%) .5 (77 (60%) .29 (16%) .5 (77 (60%) .29 (16%) .5 (77 (60%) .29 (16%) .5 (77 (60%) .29 (16%) .5 (77 (60%) .29 (16%) .5 (77 (60%) .29 (16%) .5 (77 (60%) .29 (16%) .5 (77 (60%) .29 (16%) .5 (77 (60%) .29 (16%) .29 (16%) .5 (77 (60%) .29 (16%) .5 (77 (77 (60%) .29 (16%) .29 (16%) .29 (16%) .29 (16%) .5 (77 (77 (60%) .29 (16%) .29 (16%) .29 (16%) .29 (16%) .29 (16%) .5 (16%)	Peripheral vascular disease	13 (10%)	2 (4%)	11 (15%)	.042	
Final TOAST stroke mechanism Large-artery atherosclerosis Cardioembolic Stroke of other or undetermined cause Leukoaraiosis grade (van Swieten scale score) 0 47 (36%) 28 (51%) 15 (27%) 12 (16%) Leukoaraiosis grade (van Swieten scale score) 0 47 (36%) 27 (49%) 20 (27%) 1 30 (23%) 13 (24%) 17 (23%) 2 (21%) 18 (10%) 19 (15%) 3 (13 (10%) 2 (4%) 11 (15%) 4 4 (16 (12%) 2 (4%) 12 (16%) 4 Acute intervention ^c 1V rtPA 74 (57%) 18 (16%) 35 (64%) 43 (58%) 43 (58%) 587 1A rtPA Mechanical thrombectomy 109 (85%) 48 (87%) 61 (82%) 624 Time to first run, (min) Procedure duration (min) 252 (180–338) 272 (177–360) 241 (180–317) 482 Procedure duration (min) 600d recanalization (TICI 2b–3) 104 (81%) 50 (91%) 55 (73%) .013	Tobacco use	46 (36%)	19 (35%)	27 (37%)	.854	
Large-artery atherosclerosis 25 (19%) 12 (22%) 13 (18%) Cardioembolic 77 (60%) 28 (51%) 49 (66%) Stroke of other or undetermined cause 27 (21%) 15 (27%) 12 (16%) Leukoaraiosis grade (van Swieten scale score) 0 47 (36%) 27 (49%) 20 (27%) 1 30 (23%) 13 (24%) 17 (23%) 2 23 (18%) 11 (20%) 11 (15%) 3 13 (10%) 2 (4%) 12 (16%) 4 16 (12%) 2 (4%) 14 (19%) Acute intervention ^c IV rtPA 74 (57%) 31 (56%) 43 (58%) .859 IA rtPA 78 (61%) 35 (64%) 43 (58%) .587 Mechanical thrombectomy 109 (85%) 48 (87%) 61 (82%) .624 Time to first run, (min) 252 (180–338) 272 (177–360) 241 (180–317) .482 Procedure duration (min) 92 (60–135) 91 (60–126) 98 (70–149) .254 Good collaterals (grade 4) 29 (24%) 12 (23%) 17 (25%) 1.000 Good recanalization (TICI 2b–3) 104 (Alcohol abuse	15 (12%)	8 (15%)	7 (10%)	.414	
Cardioembolic Stroke of other or undetermined cause Leukoaraiosis grade (van Swieten scale score) 0	Final TOAST stroke mechanism				.193	
Stroke of other or undetermined cause 27 (21%) 15 (27%) 12 (16%) Leukoaraiosis grade (van Swieten scale score) 47 (36%) 27 (49%) 20 (27%) 1 30 (23%) 13 (24%) 17 (23%) 2 23 (18%) 11 (20%) 11 (15%) 3 13 (10%) 2 (4%) 12 (16%) 4 16 (12%) 2 (4%) 14 (19%) Acute intervention ^c IV rtPA 74 (57%) 31 (56%) 43 (58%) .859 IA rtPA 78 (61%) 35 (64%) 43 (58%) .587 Mechanical thrombectomy 109 (85%) 48 (87%) 61 (82%) .624 Time to first run, (min) 252 (180–338) 272 (177–360) 241 (180–317) .482 Procedure duration (min) 92 (60–135) 91 (60–126) 98 (70–149) .254 Good collaterals (grade 4) 29 (24%) 12 (23%) 17 (25%) 1.000 Good recanalization (TICI 2b–3) 104 (81%) 50 (91%) 54 (73%) .013	Large-artery atherosclerosis		12 (22%)	13 (18%)		
Leukoaraiosis grade (van Swieten scale score) 0	Cardioembolic	77 (60%)	28 (51%)	49 (66%)		
0 47 (36%) 27 (49%) 20 (27%) 1 30 (23%) 13 (24%) 17 (23%) 2 23 (18%) 11 (20%) 11 (15%) 3 13 (10%) 2 (4%) 12 (16%) 4 16 (12%) 2 (4%) 14 (19%) Acute intervention ^c IV rtPA 74 (57%) 31 (56%) 43 (58%) .859 IA rtPA 78 (61%) 35 (64%) 43 (58%) .587 Mechanical thrombectomy 109 (85%) 48 (87%) 61 (82%) .624 Time to first run, (min) 252 (180–338) 272 (177–360) 241 (180–317) .482 Procedure duration (min) 92 (60–135) 91 (60–126) 98 (70–149) .254 Good collaterals (grade 4) 29 (24%) 12 (23%) 17 (25%) 1.000 Good recanalization (TICI 2b–3) 104 (81%) 50 (91%) 54 (73%) .013	Stroke of other or undetermined cause	27 (21%)	15 (27%)	12 (16%)		
1 30 (23%) 13 (24%) 17 (23%) 2 23 (18%) 11 (20%) 11 (15%) 3 13 (10%) 2 (4%) 12 (16%) 4 16 (12%) 2 (4%) 14 (19%) Acute intervention ^c IV rtPA 74 (57%) 31 (56%) 43 (58%) .859 IA rtPA 78 (61%) 35 (64%) 43 (58%) .587 Mechanical thrombectomy 109 (85%) 48 (87%) 61 (82%) .624 Time to first run, (min) 252 (180–338) 272 (177–360) 241 (180–317) .482 Procedure duration (min) 92 (60–135) 91 (60–126) 98 (70–149) .254 Good collaterals (grade 4) 29 (24%) 12 (23%) 17 (25%) 1.000 Good recanalization (TICI 2b–3) 104 (81%) 50 (91%) 54 (73%) .013	Leukoaraiosis grade (van Swieten scale score)				.005	
2 (18%) 11 (20%) 11 (15%) 3 13 (10%) 2 (4%) 12 (16%) 4 16 (12%) 2 (4%) 14 (19%) Acute intervention ^c IV rtPA 74 (57%) 31 (56%) 43 (58%) .859 IA rtPA 78 (61%) 35 (64%) 43 (58%) .587 Mechanical thrombectomy 109 (85%) 48 (87%) 61 (82%) .624 Time to first run, (min) 252 (180–338) 272 (177–360) 241 (180–317) .482 Procedure duration (min) 92 (60–135) 91 (60–126) 98 (70–149) .254 Good collaterals (grade 4) 29 (24%) 12 (23%) 17 (25%) 1.000 Good recanalization (TICI 2b–3) 104 (81%) 50 (91%) 54 (73%) .013	0	47 (36%)	27 (49%)	20 (27%)		
3 13 (10%) 2 (4%) 12 (16%) 4 16 (12%) 2 (4%) 14 (19%) Acute intervention ^c 1V rtPA 74 (57%) 31 (56%) 43 (58%) .859 IA rtPA 78 (61%) 35 (64%) 43 (58%) .587 Mechanical thrombectomy 109 (85%) 48 (87%) 61 (82%) .624 Time to first run, (min) 252 (180–338) 272 (177–360) 241 (180–317) .482 Procedure duration (min) 92 (60–135) 91 (60–126) 98 (70–149) .254 Good collaterals (grade 4) 29 (24%) 12 (23%) 17 (25%) 1.000 Good recanalization (TICI 2b–3) 104 (81%) 50 (91%) 54 (73%) .013	1	30 (23%)	13 (24%)	17 (23%)		
4 16 (12%) 2 (4%) 14 (19%) Acute intervention FIV rtPA 74 (57%) 31 (56%) 43 (58%) .859 IA rtPA 78 (61%) 35 (64%) 43 (58%) .587 Mechanical thrombectomy 109 (85%) 48 (87%) 61 (82%) .624 Time to first run, (min) 252 (180–338) 272 (177–360) 241 (180–317) .482 Procedure duration (min) 92 (60–135) 91 (60–126) 98 (70–149) .254 Good collaterals (grade 4) 29 (24%) 12 (23%) 17 (25%) 1.000 Good recanalization (TICI 2b–3) 104 (81%) 50 (91%) 54 (73%) .013	2	23 (18%)	11 (20%)	11 (15%)		
Acute intervention ^c IV rtPA 74 (57%) 31 (56%) 43 (58%) .859 IA rtPA 78 (61%) 35 (64%) 43 (58%) .587 Mechanical thrombectomy 109 (85%) 48 (87%) 61 (82%) .624 Time to first run, (min) 252 (180–338) 272 (177–360) 241 (180–317) .482 Procedure duration (min) 92 (60–135) 91 (60–126) 98 (70–149) .254 Good collaterals (grade 4) 29 (24%) 12 (23%) 17 (25%) 1.000 Good recanalization (TICI 2b–3) 104 (81%) 50 (91%) 54 (73%)	3	13 (10%)	2 (4%)	12 (16%)		
IV rtPA 74 (57%) 31 (56%) 43 (58%) .859 IA rtPA 78 (61%) 35 (64%) 43 (58%) .587 Mechanical thrombectomy 109 (85%) 48 (87%) 61 (82%) .624 Time to first run, (min) 252 (180–338) 272 (177–360) 241 (180–317) .482 Procedure duration (min) 92 (60–135) 91 (60–126) 98 (70–149) .254 Good collaterals (grade 4) 29 (24%) 12 (23%) 17 (25%) 1.000 Good recanalization (TICI 2b–3) 104 (81%) 50 (91%) 54 (73%) .013	4	16 (12%)	2 (4%)	14 (19%)		
IA rtPA 78 (61%) 35 (64%) 43 (58%) .587 Mechanical thrombectomy 109 (85%) 48 (87%) 61 (82%) .624 Time to first run, (min) 252 (180–338) 272 (177–360) 241 (180–317) .482 Procedure duration (min) 92 (60–135) 91 (60–126) 98 (70–149) .254 Good collaterals (grade 4) 29 (24%) 12 (23%) 17 (25%) 1.000 Good recanalization (TICI 2b–3) 104 (81%) 50 (91%) 54 (73%) .013	Acute intervention ^c					
Mechanical thrombectomy 109 (85%) 48 (87%) 61 (82%) .624 Time to first run, (min) 252 (180–338) 272 (177–360) 241 (180–317) .482 Procedure duration (min) 92 (60–135) 91 (60–126) 98 (70–149) .254 Good collaterals (grade 4) 29 (24%) 12 (23%) 17 (25%) 1.000 Good recanalization (TICI 2b–3) 104 (81%) 50 (91%) 54 (73%) .013	IV rtPA	74 (57%)	31 (56%)	43 (58%)	.859	
Time to first run, (min) 252 (180–338) 272 (177–360) 241 (180–317) .482 Procedure duration (min) 92 (60–135) 91 (60–126) 98 (70–149) .254 Good collaterals (grade 4) 29 (24%) 12 (23%) 17 (25%) 1.000 Good recanalization (TICI 2b–3) 104 (81%) 50 (91%) 54 (73%) .013	IA rtPA	78 (61%)	35 (64%)	43 (58%)	.587	
Procedure duration (min) 92 (60–135) 91 (60–126) 98 (70–149) .254 Good collaterals (grade 4) 29 (24%) 12 (23%) 17 (25%) 1.000 Good recanalization (TICI 2b–3) 104 (81%) 50 (91%) 54 (73%) .013	Mechanical thrombectomy	109 (85%)	48 (87%)	61 (82%)	.624	
Good collaterals (grade 4) 29 (24%) 12 (23%) 17 (25%) 1.000 Good recanalization (TICI 2b–3) 104 (81%) 50 (91%) 54 (73%) .013	Time to first run, (min)	252 (180–338)	272 (177–360)	241 (180–317)	.482	
Good recanalization (TICI 2b–3) 104 (81%) 50 (91%) 54 (73%) .013		92 (60–135)	91 (60–126)	98 (70–149)	.254	
		29 (24%)	12 (23%)	17 (25%)	1.000	
27 (200)	Good recanalization (TICI 2b–3)		50 (91%)	54 (73%)	.013	
Parenchymal hemorrhage 37 (29%) 7 (13%) 30 (41%) .001	Parenchymal hemorrhage	37 (29%)	7 (13%)	30 (41%)	.001	

Note:—LDL, low-density lipoprotein; TOAST, Trial of Org 10172 in Acute Stroke Treatment; IA, intra-arterial; SBP, systolic blood pressure; DBP, diastolic blood pressure; HbA1c, glycated hemoglobin.

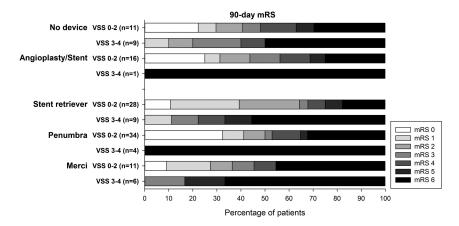
^a Data are No. (%), mean (\pm SD), or median (interquartile range).

 $^{^{\}rm b}\,{\rm Prior}$ lesion not in the same hemisphere as current lesion.

 $^{^{\}rm c}$ Most patients had >1 acute treatment modality.



ON-LINE FIG 1. Representative noncontrast CT depicting advancing degrees of leukoaraiosis. The severity of leukoaraiosis was graded from 0 (no leukoaraiosis) to 2 (confluent white matter involvement from the ventricles to the gray matter) for the respective anterior (*white arrows*) and posterior (*arrowheads*) white matter at the levels of the choroid plexus (top row), section through the cella media (bottom row), and centrum semiovale (not shown). Summing the score from the anterior and posterior regions provides a total van Swieten scale score ranging from 0 to 4.²⁸



ON-LINE FIG 2. Outcome as stratified by leukoaraiosis severity and device type. Functional outcome at 3 months according to leukoaraiosis severity (unadjusted) and as stratified by an interventional approach. Scores of ≤ 2 or return to baseline on the mRS is considered a good outcome (darker shades indicate worse outcomes). Because most patients were treated with several modalities, they are grouped according to the interventional approach that achieved recanalization or that was used last if recanalization was not achieved. The van Swieten scale is the following: 0-2= absent-to-moderate and 3-4= severe leukoaraiosis.