

Online Supplemental Data

Baseline and procedural characteristics of the IA rt-PA RT and no IA rt-PA RT groups.

Characteristic	RT No IA-rtPA (n=83)	RT IA-rtPA (n=129)	p-value	M1 Only RT No IA-rtPA (n=36)	RT M1 Only RT IA-rtPA (n=71)	p-value
<i>Demographics</i>						
Age (years) (Mean, SD)	65.9 ± 15.3	68.0 ± 15.2	0.32	67.2 ± 15.9	69.2 ± 15.5	0.53
Female gender (% , N)	36.1% (30/83)	46.5% (60/129)	0.16	33.3% (12/36)	57.7% (41/71)	0.02
<i>Vascular Risk Factors (% , N)</i>						
Hypertension	74.7% (62/83)	71.3% (92/129)	0.64	58.3% (21/36)	67.6% (48/71)	0.40
Atrial fibrillation/flutter	34.9% (29/83)	38.8% (50/129)	0.66	33.3% (12/36)	39.4% (28/71)	0.67
Diabetes mellitus	27.7% (23/83)	27.9% (36/129)	1.0	25.0% (9/36)	25.4% (18/71)	1.0
Hyperlipidemia	56.6% (47/83)	41.1% (53/129)	0.03	50.0% (18/36)	33.8% (24/71)	0.14
Current or previous tobacco use	48.7% (37/76)	49.5% (54/109)	1.0	48.5% (16/33)	45.9% (28/61)	0.83
Myocardial disease/coronary artery Disease	28.9% (24/83)	22.5% (29/129)	0.33	30.6% (11/36)	16.9% (12/71)	0.14
<i>Clinical Presentation</i>						
Pre-stroke mRS (% , N)			0.18			0.28
0	79.5% (66/83)	84.5% (109/129)		86.1% (31/36)	83.1% (59/71)	
1	18.1% (15/83)	15.5% (20/129)		11.1% (4/36)	16.9% (12/71)	
2	2.4% (2/83)	0.0% (0/129)		2.8% (1/36)	0.0% (0/71)	
Baseline NIHSS (Mean, SD)	17.6 ± 5.7	17.0 ± 5.5)	0.43	17.6 ± 5.8	17.5 ± 5.6	0.96
ASPECTS (Mean, SD)	8.5 ± 1.6	8.2 ± 1.6	0.19	8.6 ± 1.6	8.1 ± 1.4	0.14
Occlusion location (% ,N)			0.09			
Basilar	4.8% (4/83)	5.4% (7/129)		-	-	-
ICA	37.3% (31/83)	20.2% (26/129)		-	-	-
M1	43.4% (36/83)	55.0% (71/129)		100% (36/36)	100% (71/71)	1.0
M2	14.5% (12/83)	18.6% (24/129)		-	-	-
PCA	0.0% (0/83)	0.8% (1/129)		-	-	-
Systolic blood pressure (Mean, SD)	151.3 ± 28.9	149.2 ± 29.1	0.69	143.0 ± 27.1	146.2 ± 31.7	0.69

Diastolic blood pressure (Mean, SD)	83.4 ± 18.8	89.1 ± 19.1	0.11	79.3 ± 18.8	88.3 ± 19.6	0.09
IV-tPA delivered (% , N)	62.7% (52/83)	70.5% (91/129)	0.24	72.2% (26/36)	71.8% (51/71)	1.0
<i>Procedural Factors</i>						
Onset to arterial puncture (min) (Mean, SD)	227.9 ± 91.9	200.2 ± 104.6	0.05	229.1 ± 88.4	197.8 ± 103.2	0.12
Onset to puncture >6hrs (% , N)	10.8% (9/83)	10.9% (14/128)	1.0	8.3% (3/36)	9.9% (7/71)	1.0
Onset to procedure end (min) (Mean, SD)	318.3 ± 107.4	278.9 ± 112.2	0.01	312.3 ± 106.2	274.0 ± 110.1	0.09
General anesthesia (% , N)	27.7% (23/83)	31.8% (41/129)	0.54	22.2% (8/36)	28.2% (20/71)	0.64
Puncture to procedure end (min) (Mean, SD)	89.1 ± 45.1	78.7 ± 43.1	0.10	80.0 ± 39.8	76.2 ± 44.0	0.67
Balloon guide catheter Use (% , N)	34.9% (29/83)	45.0% (58/129)	0.16	38.9% (14/36)	45.1% (32/71)	0.68
Use of Aspiration, % (n/N)	100.0% (83/83)	99.2% (128/129)	1.000	-	-	-
Use of Mindframe, % (n/N)	6.0% (5/83)	5.4% (7/129)	1.000			
IA-tPA dose (Median, IQR)	-	[4.0] (2.0-12.0)	-	-	[4.0] (2.0-10.5)	-

Clinical and Angiographic outcomes in the RT IA rt-PA RT and RT No IA rt-PA groups.

Characteristic	RT No IA rt-PA (n=83)	RT IA rt-PA (n=129)	p-value	M1 Only No IA rt-PA (n=36)	M1 Only IA rt-PA (n=71)	p-value
<i>Clinical Outcomes</i>						
Good functional outcome (mRS 0-2) at 90 days (% , N)	46.6% (34/73)	59.2% (71/120)	0.10	52.9% (18/34)	60.0% (39/65)	0.53
Mortality at 90 days (% , N)	23.3% (17/73)	13.3% (16/120)	0.08	17.6% (6/34)	10.8% (7/65)	0.36
Symptomatic ICH (% , N)	0.0% (0/66)	1.6% (2/123)	0.54	0.0% (0/28)	1.4% (1/70)	1.0
<i>Angiographic Outcomes</i>						
mTICI score prior to RT, % (n/N)			0.892			
0	21.0% (17/81)	20.0% (4/20)				
1	7.4% (6/81)	5.0% (1/20)				
2a	44.4% (36/81)	45.0% (9/20)				
2b	23.5% (19/81)	25.0% (5/20)				
2c	2.5% (2/81)	0.0% (0/20)				
3	1.2% (1/81)	5.0% (1/20)				
Substantial reperfusion (imaging core lab) (% , N)	73.0% (46/63)	84.7% (100/118)	0.08	83.3% (20/24)	90.6% (58/64)	0.45
Distal embolization (% , N)	66.7% (42/63)	67.8% (80/118)	0.87	66.7% (16/24)	67.2% (43/64)	1.0
Embolization to new territory (% , N)	0.0% (0/63)	1.7% (2/118)	0.54	0.0% (0/24)	1.6% (1/64)	1.0
Device passes prior to RT	2.0 ± 1.1	1.8 ± 0.9	0.450	-	-	-
Total Device passes (Mean, SD)	3.6 ± 1.3	2.2 ± 1.4	<0.001	3.2 ± 1.0	2.0 ± 1.3	<0.001
1	0.0% (0/83)	38.8% (50/129)		0.0% (0/36)	39.4% (28/71)	
2	24.1% (20/83)	31.0% (40/129)		30.6% (11/36)	35.2% (25/71)	
3	26.5% (22/83)	16.3% (21/129)		27.8% (10/36)	16.9% (12/71)	
>3	49.4% (41/83)	14.0% (18/129)		41.7% (15/36)	8.5% (6/71)	

Predictors of Substantial Reperfusion in the RT population.

Covariate in Model	Odds Ratio [95% CI]	p-value
IA-rtPA used: Yes vs No	1.07 [0.44, 2.57]	0.8853
Hyperlipidemia: Yes vs No	0.93 [0.40, 2.12]	0.8551
Number of passes: Per one pass increase	0.79 [0.58, 1.07]	0.1247
Onset to arterial puncture: Per five minute increase	1.03 [0.99, 1.08]	0.1447
Onset to procedure end: Per five minute increase	0.96 [0.92, 1.01]	0.1036
ICA: Yes vs No	0.88 [0.32, 2.47]	0.8154
M1: Yes vs No	2.56 [0.92, 7.13]	0.0714

Predictors of Good functional Outcome (mRS 0-2) at 90 days in the RT population.

Covariate in Model	Odds Ratio [95% CI]	p-value
IA-rtPA used: Yes vs No	0.92 [0.46, 1.83]	0.8023
Hyperlipidemia: Yes vs No	1.16 [0.63, 2.15]	0.6332
Number of passes: Per one pass increase	1.27 [0.97, 1.66]	0.0850
Onset to arterial puncture: Per five minute increase	0.99 [0.95, 1.03]	0.5871
Onset to procedure end: Per five minute increase	1.02 [0.98, 1.06]	0.3264
ICA: Yes vs No	1.45 [0.59, 3.58]	0.4190
M1: Yes vs No	1.15 [0.53, 2.50]	0.7142

Predictors of Mortality at 90 days.

Covariate in Model	Odds Ratio [95% CI]	p-value
IA-rtPA used: Yes vs No	0.54 [0.22, 1.31]	0.1727
Hyperlipidemia: Yes vs No	1.82 [0.82, 4.06]	0.1434
Number of passes: Per one pass increase	0.93 [0.66, 1.31]	0.6860
Onset to arterial puncture: Per five minute increase	0.98 [0.94, 1.03]	0.4569
Onset to procedure end: Per five minute increase	1.02 [0.97, 1.06]	0.4874
ICA: Yes vs No	1.04 [0.35, 3.09]	0.9395
M1: Yes vs No	0.73 [0.28, 1.95]	0.5342