

Patients' characteristics

A total of 361 patients visited our clinic from January 2013 to December 2019. The baseline characteristics of study participants are shown in Table 1.

Table 1. Baseline characteristics

	Total(n)	Favorable Functional Outcome (n=262)	Unfavorable Functional Outcome (n=99)	p-values
Females n(%)	129 (35.7)	92 (35.1)	37 (37.4)	0.689
age (median [IQR])	66.00 [59.00, 75.00]	65.00 [58.00, 72.00]	69.00 [64.00, 79.00]	0.000
Onset_to_thrombolysis (median [IQR])	180.00 [140.00, 220.00]	185.00 [140.00, 220.00]	180.00 [140.00, 215.00]	0.918
RDW3_1 (median [IQR])	0.00 [-0.20, 0.30]	-0.10 [-0.20, 0.20]	0.30 [0.00, 0.80]	0.000
LDL (median [IQR])	2.75 [2.22, 3.44]	2.75 [2.22, 3.51]	2.80 [2.19, 3.27]	0.238
BG (median [IQR])	7.07 [5.99, 8.87]	6.96 [5.91, 8.94]	7.42 [6.1, 8.78]	0.739
History of hypertension, n (%)	248 (68.7)	176 (67.2)	72 (72.7)	0.310
History of DM, n (%)	98 (27.1)	71 (27.1)	27 (27.3)	0.974
smoking, n (%)	142 (39.3)	108 (41.2)	34 (34.3)	0.233
drink, n (%)	86 (23.8)	66 (25.2)	20 (20.2)	0.321
CHD, n (%)	56 (15.5)	34 (13.0)	22 (22.2)	0.030
history_of_stroke, n(%)	42 (11.6)	23 (8.8)	19 (19.2)	0.006
AF, n (%)	80 (22.2)	39 (14.9)	41 (41.4)	0.000
AF_drug_used, n(%)	7 (1.9)	3 (1.1)	4 (4)	0.075
Intravascular thrombectomy, n (%)	25 (6.9)	12 (4.6)	13 (13.1)	0.004
Toast, n(%)				0.507
Large-artety atherosclerosis,n(%)	121 (33.5)	67 (25.6)	54 (54.5)	-
Small-vessel disease,n(%)	178 (49.3)	172 (65.6)	6 (6.1)	-
Cardioembolic,n(%)	57 (15.8)	19 (7.3)	38 (38.4)	-
Other cause,n(%)	4 (1.1)	4 (1.5)	0 (0)	-
Unknown cause,n(%)	1 (0.3)	0 (0)	1 (1.0)	-
hemorrhage_transformation (%)	55 (15.2)	23 (8.8)	31 (31.3)	0.000
urine_tube_placed (%)	78 (21.6)	24 (9.2)	54 (54.5)	0.000
stomach_tube_placed (%)	81 (22.4)	22 (8.4)	59 (59.6)	0.000
NIHSS_at_onset (median [IQR])	4.00 [2.00, 10.00]	3.00 [2.00, 5.00]	11.00 [6.00, 17.00]	0.000
NIHSS_at_over (median [IQR])	3.00 [1.00, 9.00]	2.00 [0.00, 4.00]	12.00 [6.00, 17.00]	0.000

RDW, red blood cell distribution width; LDL, low density lipoprotein; CHD, coronary heart disease; BG, blood glucose; DM, diabetes mellitus; AF, atrial fibrillation; NIHSS, the national institutes of health stroke scale; ΔRDW is equal to [the third day of hospitalization RDW - admission RDW].

Normality of the distribution: Shapiro-Wilk normality test

	W	p-value
age	0.98041	8.067e-05
NIHSS_at_onset	0.84572	< 2.2e-16
NIHSS_at_over	0.81386	< 2.2e-16
Onset_to_thrombolysis	0.99203	0.04999

RDW3_1	0.73379	< 2.2e-16
LDL	0.98429	0.0005764
BG	0.7485	< 2.2e-16