

Supplementary Materials

Title: Measuring the health outcomes of Chinese ischemic stroke patients based on the data from a longitudinal multi-center study

Journal: Quality of Life Research

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Table S1 Social-demographic Characteristics and Clinical Information of Excluded Patients

Patient Characteristics ^a	Visit B (n=27)	Visit C (n=675)	Visit D (n=673)
Age ^b , mean (SD)	64.3 (17.6)	64.1 (12.5)	63.6 (11.9)
Sex ^c			
Male %(n)	77.8% (21)	63.1% (426)	70.4% (474)^e
Female %(n)	22.2% (6)	36.9% (249)	29.6% (199)^e
Medical insurance Plan			
BMIW %(n)	29.6% (8)	32.6% (219)^d	31.6% (212)^d
BMIUR %(n)	11.1% (3)	28.1% (189)^d	22.7% (152)^d
BMIRR %(n)	18.5% (5)	11.3% (76)^d	20.1% (135)^d
FMC %(n)	0% (0)	1.5% (10)^d	3.3% (22)^d
BMI %(n)	0% (0)	0.7% (5)^d	1.2% (8)^d
Without Insurance %(n)	40.7% (11)	25.7% (173)^d	21.2% (142)^d
Disease History in Recent 3 Months ^b			
Stroke %(n)	25.9% (7)	19.9% (134)^d	22% (148)
Hypertension %(n)	37.04% (10)	26.07% (499)	63.2% (164)
Diabetes %(n)	37% (10)	26.1% (499)	24.4% (509)

Dyslipidemia %(n)	0% (0)	4.3% (29)	4.3% (29)
Coronary Heart Disease %(n)	11.1% (3)	11% (74)^d	11.1% (75)^d
Atrial Fibrillation %(n)	3.7% (1)	4.7% (32)	4.3% (29)
Carotid Plaque %(n)	0% (0)	0% (0)^d	0.7% (5)
Cancer %(n)	7.4% (2)	1.9% (13)	1.8% (12)
TOAST Classification			
LAA %(n)	63.6% (7)	74.1% (117)	65.1% (140)
CE %(n)	9.1% (1)	7% (11)	3.7% (8)
SVD %(n)	18.2% (2)	12.7% (20)	22.3% (48)
Other determined cause %(n)	0% (0)	2.5% (4)	1.9% (4)
Undetermined cause %(n)	9.1% (1)	3.8% (6)	7% (15)
Length of Stay, mean (SD)	17.2 (25.7)^d	-	-
Families' Company %(n)	63.2% (12)^d	-	-
Thrombolysis %(n)	0% (0)	-	-
TCM therapy %(n)	47.4% (9)^d	-	-
ICU patients %(n)	5% (1)	-	-
Persistent Adverse Reactions %(n)	20% (4)	-	-
Recurrent Rate %(n)	-	3.5% (3)	5.9% (1)
Readmission Rate %(n)	-	9.2% (8)	5.9% (1)

SD: Standard deviation, BMIW: Basic Medical Insurance for Workers, BMIUR: Basic Medical Insurance for Urban Residents, BMIRR: Basic Medical Insurance for Rural Residents, FM: Free Medical Care, BMS: Business Medical Insurance, TOAST: Trial of Org 10172 in Acute Stroke Treatment, LAA: Large-artery atherosclerosis, CE: Cardioembolic stroke, SVD: Small-vessel disease, TCM: traditional Chinese Medicine, ICU: Intensive Care Unit.

a: Patients who lost to follow-up, had missing outcome data, or withdrew from the survey

b: Measured at admission

c: Sex assigned at birth according to external examination of body characteristics

d: Significant differences ($P < 0.05$) were found between analytical samples and missing data or withdrawal or lost to follow-up samples

Table S2 Results of Mann-Whitney Test for Utility Index Scores between Two Visits

Visit	Visit A (n=9,978)	Visit B (n=9,944)	Visit C (n=9,162)	Visit D (n=8,396)
Visit A (n=9,978)	-	P<0.001	P<0.002	P<0.003
Visit B (n=9,944)	-	-	P<0.001	P<0.001
Visit C (n=9,162)	-	-	-	P<0.001
Visit D (n=8,396)	-	-	-	-

Table S3 Change of the Utility Index Scores between Different Visits

Compared visits	Change of utilities (mean (SD))	Interval (days, mean (SD))	Standard change of utilities (mean (SD)) ^{a,b}
Visit B compared to Visit A (n=9,944)	0.162 (0.249)	13.0 (8.46)	0.102 (0.189)
Visit C compared to Visit B (n=9,162)	0.083 (0.207)	78.0 (9.73)	0.008 (0.020)
Visit D compared to Visit C (n=8,396)	0.039 (0.176)	270.5 (17.5)	0.001 (0.005)

a: Adjusted to the change of utility index score per week

b: Significant difference was found between one another using Mann-Whitney Test (P<0.001)

Table S4 Sensitivity Results of the Utility Index Scores Measured at the Follow-up Visit

Patient Groups	Visit A (n=9,978)	Visit B (n=9,944)	Visit C (n=9,162)	Visit D^b (n=8,550)
Total Patients, mean (SD)	0.546 (0.327)	0.709 (0.306)	0.801 (0.259)	0.846 (0.236)
Sex^a, mean (SD)				
Male	0.567 (0.324)	0.725 (0.301)	0.815 (0.250)	0.859 (0.225)
Female	0.507 (0.329)	0.678 (0.314)	0.772 (0.272)	0.823 (0.255)
Mann-Whitney test P	<0.001	<0.001	<0.001	<0.001
TOAST Classification, mean (SD)				
LAA	0.533 (0.327)	0.693 (0.311)	0.783 (0.273)	0.837 (0.247)
CE	0.309 (0.366)	0.505 (0.370)	0.653 (0.352)	0.717 (0.332)
SVD	0.613 (0.288)	0.797 (0.238)	0.859 (0.210)	0.901 (0.187)
Other determined cause	0.528 (0.332)	0.782 (0.254)	0.851 (0.237)	0.888 (0.199)
Undetermined cause	0.565 (0.323)	0.763 (0.3)	0.839 (0.231)	0.876 (0.194)
Kruskal-Wallis rank test P	<0.001	<0.001	<0.001	<0.001

SD: Standard deviation, TOAST: Trial of Org 10172 in Acute Stroke Treatment, LAA: Large-artery atherosclerosis, CE: Cardioembolic stroke, SVD: Small-vessel disease,

a: Sex assigned at birth according to external examination of body characteristics

b: Included 154 patients with no respond to EQ-5D at Visit C but responding at Visit D.

Table S5 Distributions of Health Levels within EQ-5D Dimensions

[illegible]

Level 1	46.3%	48.1%	42.6%	69.3%	70.4%	67.0%	79.9%	81.0%	77.8%	85.6%	86.2%	84.4%
Level 2	44.9%	43.8%	47.0%	27.4%	26.5%	29.0%	18.1%	17.3%	19.7%	13.0%	12.6%	13.8%
Level 3	8.9%	8.1%	10.4%	3.4%	3.0%	4.0%	2.0%	1.7%	2.5%	1.4%	1.3%	1.8%
p ^a			<0.001			0.001			<0.001			0.003

a: Mann-Whitney test for male and female

Table S6 Proportions and Numbers of Patients with Different mRS Levels at Each Visit

mRS Levels	Sex^a	Visit A (n=9,978)	Visit B (n=9,944)	Visit C (n=9,162)	Visit D (n=8,396)
0	Total %(n)	4.5% (452)	15.0% (1,495)	22.7% (2,080)	29.7% (2,493)
	Male %	4.8% (313)	15.8% (1,033)	23.6% (1,429)	30.6% (1,693)
	Female %	4.1% (139)	13.6% (462)	21.0% (651)	27.9% (800)
1	Total %(n)	31.7% (3,163)	38.3% (3,806)	41.1% (3,769)	40.7% (3,418)
	Male %	33.7% (2,211)	39.7% (2,598)	42.6% (2,581)	41.8% (2,312)
	Female %	27.9% (952)	35.5% (1,208)	38.2% (1,188)	38.6% (1,106)
2	Total %(n)	20.7% (2,065)	16.9% (1,678)	16.3% (1,489)	14.6% (1,228)
	Male %	21.1% (1,382)	16.7% (1,094)	15.6% (946)	14.4% (795)
	Female %	20.0% (683)	17.2% (584)	17.5% (543)	15.1% (433)
3	Total %(n)	13.3% (1,331)	11.3% (1,120)	10.1% (929)	7.6% (640)
	Male %	13.3% (871)	10.8% (706)	9.5% (577)	6.9% (379)
	Female %	13.5% (460)	12.2% (414)	11.3% (352)	9.1% (261)
4	Total %(n)	18.9% (1,888)	12.6% (1,253)	6.9% (635)	4.9% (413)
	Male %	17.7% (1,159)	11.9% (778)	6.2% (376)	4.5% (251)
	Female %	21.4% (729)	14% (475)	8.3% (259)	5.7% (162)
5	Total %(n)	10.8% (1,079)	6.0% (592)	2.8% (260)	2.4% (204)
	Male %	9.6% (628)	5.1% (330)	2.4% (146)	1.8% (97)
	Female %	13.2% (451)	7.7% (262)	3.7% (114)	3.7% (107)
P^b		<0.001	<0.001	<0.001	<0.001

mRS: modified Rankin Scale

a: Sex assigned at birth according to external examination of body characteristics

b: Mann-Whitney test

Table S7 Utility Values Stratified by mRS Levels

mRS Levels	Number of Observed Values (n)	Utility Values (Mean (SD))
0	6,520	0.983 (0.076)
1	14,156	0.894 (0.137)
2	6,460	0.679 (0.150)
3	4,020	0.556 (0.154)
4	4,189	0.270 (0.215)
5	2,135	0.058 (0.167)

mRS: modified Rankin Scale, SD: standard deviation

Table S8 Table 4 NIHSS Scores Recorded at Each Visit

Items	Visit A (n=9,788)	Visit B (n=9,742)	Sensitivity Results	
			Visit A (n=9,976)	Visit B (n=9,942)
NIHSS Scores, mean (SD)	5.3 (4.98)	3.6 (4.24)	5.5 (5.18)	3.8 (4.49)
p^a		<0.001		<0.001
Classified by Severity				
Normal %(n)	8.9% (873)	22.2% (2,162)	8.8% (874)	21.9% (2,172)
Mild Stroke %(n)	47.1% (4,611)	49.3% (4,799)	46.4% (4,620)	48.8% (4,844)
Moderate Stroke %(n)	39.0% (3,818)	26.0% (2,529)	39.4% (3,924)	26.5% (2,634)
Moderate to Severe Stroke %(n)	3.3% (323)	1.5% (149)	3.4% (333)	1.7% (173)
Severe Stroke %(n)	1.7% (163)	1.1% (107)	2.0% (202)	1.01% (100)
Classified by TOAST				
LAA, mean (SD)	5.5 (5.08)	3.8 (4.29)	5.7 (5.28)	4.0 (4.54)
CE, mean (SD)	10.2 (8.18)	6.8 (7.46)	10.4 (8.43)	7.1 (7.80)
SVD, mean (SD)	4.3 (3.84)	2.5 (3.06)	4.4 (3.91)	2.6 (3.17)
Other determined cause, mean (SD)	5.2 (4.81)	3.2 (4.30)	5.4 (4.88)	3.2 (4.27)
Undetermined cause, mean (SD)	4.2 (4.01)	2.7 (3.44)	4.3 (4.24)	2.8 (3.61)
p^b	<0.001	<0.001	<0.001	<0.001

NIHSS: National Institute of Health Stroke Scale, SD: standard deviation, TOAST: Trial of Org 10172 in Acute Stroke Treatment, LAA: Large-artery atherosclerosis, CE: Cardioembolic stroke, SVD: Small-vessel disease,

a: Mann-Whitney test P for different visits

b: Kruskal-Wallis rank test P for different TOAST classification

c: Missing data for patients with less than 50% missing NIHSS items were imputed using mean

values from patients with the same mRS

Table S9 Utility Values Stratified by NIHSS Groups

NIHSS Group	Number of Observed Values (n)	Utility Values (Mean (SD))
Normal	3,046	0.912 (0.160)
Mild Stroke	9,438	0.758 (0.210)
Moderate Stroke	6,347	0.385 (0.282)
Moderate to Severe Stroke	477	0.06 (0.191)
Severe Stroke	232	0.001 (0.170)

NIHSS: National Institute of Health Stroke Scale, SD: standard deviation

Table S10 Results of Mixed-effects Model for Mobility Dimension

Variable	OR	SE	95% CIs	P
Visit				
Visit A	Reference			
Visit B	7.48	0.39	(6.76, 8.28)	<0.001
Visit C	21.1	1.24	(18.81, 23.67)	<0.001
Visit D	38.98	2.50	(34.38, 44.19)	<0.001
Sex^a				
Male	Reference			
Female	0.73	0.05	(0.63, 0.84)	<0.001
Age	0.96	0.003	(0.96, 0.97)	<0.001
Medical Insurance plan				
BMIW	Reference			
BMIUR	0.84	0.08	(0.70, 1.01)	0.068
BMIRR	1.14	0.10	(0.95, 1.36)	0.151
FMC	1.49	0.52	(0.75, 2.96)	0.259
BMI	1.45	0.39	(0.86, 2.44)	0.165
Without Insurance	0.82	0.08	(0.68, 0.99)	0.035
Disease history				
Stroke	0.59	0.05	(0.51, 0.69)	<0.001
Hypertension	0.94	0.07	(0.82, 1.08)	0.361
Diabetes	0.66	0.05	(0.57, 0.77)	<0.001
Dyslipidemia	1.24	0.23	(0.85, 1.79)	0.262
CHD	0.98	0.1	(0.81, 1.19)	0.835
AF	1.25	0.21	(0.89, 1.75)	0.199
CP	0.86	0.35	(0.38, 1.91)	0.706
Cancer	1.08	0.23	(0.71, 1.65)	0.722
Thrombolysis	1.23	0.20	(0.90, 1.69)	0.195
TCM therapy	0.90	0.07	(0.77, 1.05)	0.18
Baseline NIHSS classification				
Normal	Reference			
Mild	0.13	0.02	(0.10, 0.17)	<0.001
Moderate	0.01	0.001	(0.00, 0.01)	<0.001
Moderate to severe	0.001	0.0002	(0.0005, 0.001)	<0.001
Severe	0.0005	0.0002	(0.0002, 0.001)	<0.001
Constant	67.09	16.18	(41.82, 107.63)	<0.001
Random effect parameter (Individual patient)				
Constant	7.09	0.26	(6.59, 7.63)	<0.001

BMIW: Basic Medical Insurance for workers, BMIUR: Basic Medical Insurance for Urban Residents,
BMIRR: Basic Medical Insurance for Rural Residents, FM: Free Medical Care, BMS: Business

Medical Insurance, CHD: Coronary Heart Disease, AF: Atrial Fibrillation, CP: Carotid Plaque, TCM: Traditional Chinese Medicine, OR: Odds Ratio, SE: Standard error, CIs: Confidence intervals
a: Sex assigned at birth according to external examination of body characteristics

Table S11 Results of Mixed-effects Model for Self-care Dimension

Variable	OR	SE	95% CIs	P
Visit				
Visit A	Reference			
Visit B	6.56	0.34	(5.93, 7.26)	<0.001
Visit C	24.12	1.48	(21.39, 27.19)	<0.001
Visit D	47.73	3.24	(41.78, 54.53)	<0.001
Sex^a				
Male	Reference			
Female	0.70	0.05	(0.60, 0.8)	<0.001
Age	0.97	0.003	(0.96, 0.97)	<0.001
Medical Insurance plan				
BMIW	Reference			
BMIUR	0.72	0.07	(0.60, 0.87)	0.001
BMIRR	0.93	0.09	(0.78, 1.12)	0.458
FMC	1.36	0.49	(0.67, 2.76)	0.396
BMI	1.27	0.35	(0.74, 2.18)	0.393
Without Insurance	0.81	0.08	(0.67, 0.98)	0.034
Disease history				
Stroke	0.66	0.05	(0.56, 0.77)	<0.001
Hypertension	1.06	0.08	(0.92, 1.23)	0.402
Diabetes	0.64	0.05	(0.55, 0.75)	<0.001
Dyslipidemia	1.17	0.23	(0.80, 1.72)	0.41
CHD	0.89	0.09	(0.73, 1.08)	0.236
AF	1.13	0.2	(0.80, 1.59)	0.490
CP	0.79	0.33	(0.35, 1.80)	0.576
Cancer	0.94	0.21	(0.61, 1.44)	0.767
Thrombolysis	1.03	0.17	(0.75, 1.41)	0.878
TCM therapy	0.92	0.07	(0.78, 1.07)	0.276
Baseline NIHSS classification				
Normal	Reference			
Mild	0.10	0.01	(0.08, 0.14)	<0.001
Moderate	0.003	0.0005	(0.002, 0.004)	<0.001
Moderate to severe	0.0003	0.0001	(0.0002, 0.0006)	<0.001
Severe	0.0002	0.0001	(0.0001, 0.0004)	<0.001
Constant	152.12	38.74	(92.35, 250.58)	<0.001
Random effect parameter (Individual patient)				
Constant	7.28	0.28	(6.76, 7.85)	<0.001

BMIW: Basic Medical Insurance for workers, BMIUR: Basic Medical Insurance for Urban Residents, BMIRR: Basic Medical Insurance for Rural Residents, FM: Free Medical Care, BMS: Business

Medical Insurance, CHD: Coronary Heart Disease, AF: Atrial Fibrillation, CP: Carotid Plaque, TCM: Traditional Chinese Medicine, OR: Odds Ratio, SE: Standard error, CIs: Confidence intervals
a: Sex assigned at birth according to external examination of body characteristics

Table S12 Results of Mixed-effects Model for Usual Activity Dimension

Variable	OR	SE	95% CIs	P
Visit				
Visit A	Reference			
Visit B	6.52	0.33	(5.91, 7.19)	<0.001
Visit C	20.5	1.18	(18.32, 22.94)	<0.001
Visit D	45.8	2.94	(40.38, 51.94)	<0.001
Sex^a				
Male	Reference			
Female	0.75	0.05	(0.66, 0.86)	<0.001
Age	0.97	0.003	(0.96, 0.97)	<0.001
Medical Insurance plan				
BMIW	Reference			
BMIUR	0.74	0.06	(0.62, 0.87)	<0.001
BMIRR	0.89	0.08	(0.75, 1.05)	0.160
FMC	1.06	0.35	(0.56, 2.01)	0.859
BMI	1.17	0.29	(0.71, 1.91)	0.534
Without Insurance	0.77	0.07	(0.65, 0.92)	0.004
Disease history				
Stroke	0.68	0.05	(0.59, 0.79)	<0.001
Hypertension	1.05	0.07	(0.92, 1.19)	0.500
Diabetes	0.71	0.05	(0.62, 0.82)	<0.001
Dyslipidemia	1.34	0.24	(0.95, 1.91)	0.096
CHD	0.91	0.08	(0.76, 1.09)	0.303
AF	0.99	0.16	(0.72, 1.36)	0.945
CP	1.15	0.44	(0.54, 2.43)	0.719
Cancer	0.88	0.18	(0.59, 1.31)	0.527
Thrombolysis	1.18	0.18	(0.88, 1.58)	0.278
TCM therapy	0.83	0.06	(0.72, 0.96)	0.013
Baseline NIHSS classification				
Normal	Reference			
Mild	0.12	0.01	(0.09, 0.15)	<0.001
Moderate	0.01	0.001	(0.004, 0.01)	<0.001
Moderate to severe	0.001	0.0002	(0.0005, 0.0013)	<0.001
Severe	0.001	0.0003	(0.0004, 0.0016)	<0.001
Constant	48.75	11.03	(31.29, 75.95)	<0.001
Random effect parameter (Individual patient)				
Constant	5.96	0.22	(5.55, 6.41)	<0.001

BMIW: Basic Medical Insurance for workers, BMIUR: Basic Medical Insurance for Urban Residents,
BMIRR: Basic Medical Insurance for Rural Residents, FM: Free Medical Care, BMS: Business

Medical Insurance, CHD: Coronary Heart Disease, AF: Atrial Fibrillation, CP: Carotid Plaque, TCM: Traditional Chinese Medicine, OR: Odds Ratio, SE: Standard error, CIs: Confidence intervals
a: Sex assigned at birth according to external examination of body characteristics

Table S13 Results of Mixed-effects Model for Pain/Discomfort Dimension

Variable	OR	SE	95% CIs	P
Visit				
Visit A	Reference			
Visit B	4.86	0.20	(4.48, 5.28)	<0.001
Visit C	11.60	0.56	(10.56, 12.74)	<0.001
Visit D	24.04	1.33	(21.57, 26.79)	<0.001
Sex^a				
Male	Reference			
Female	0.86	0.05	(0.77, 0.95)	0.005
Age	0.99	0.002	(0.99, 1.00)	0.004
Medical Insurance plan				
BMIW	Reference			
BMIUR	0.82	0.06	(0.72, 0.94)	0.005
BMIRR	0.83	0.06	(0.73, 0.96)	0.009
FMC	1.62	0.45	(0.94, 2.79)	0.081
BMI	2.41	0.52	(1.58, 3.68)	<0.001
Without Insurance	1.00	0.07	(0.86, 1.15)	0.980
Disease history				
Stroke	0.76	0.05	(0.68, 0.86)	<0.001
Hypertension	1.02	0.06	(0.91, 1.13)	0.765
Diabetes	0.86	0.05	(0.76, 0.96)	0.009
Dyslipidemia	0.93	0.13	(0.70, 1.24)	0.622
CHD	0.80	0.06	(0.69, 0.92)	0.002
AF	1.05	0.14	(0.82, 1.35)	0.694
CP	1.17	0.37	(0.63, 2.16)	0.622
Cancer	0.94	0.15	(0.68, 1.29)	0.688
Thrombolysis	0.82	0.10	(0.64, 1.04)	0.100
TCM therapy	0.79	0.05	(0.70, 0.89)	<0.001
Baseline NIHSS classification				
Normal	Reference			
Mild	0.47	0.05	(0.38, 0.57)	<0.001
Moderate	0.14	0.01	(0.11, 0.17)	<0.001
Moderate to severe	0.03	0.01	(0.02, 0.04)	<0.001
Severe	0.02	0.005	(0.01, 0.03)	<0.001
Constant	5.69	1.02	(4.00, 8.10)	<0.001
Random effect parameter (Individual patient)				
Constant	3.62	0.14	(3.36, 3.90)	<0.001

BMIW: Basic Medical Insurance for workers, BMIUR: Basic Medical Insurance for Urban Residents,
BMIRR: Basic Medical Insurance for Rural Residents, FM: Free Medical Care, BMS: Business

Medical Insurance, CHD: Coronary Heart Disease, AF: Atrial Fibrillation, CP: Carotid Plaque, TCM: Traditional Chinese Medicine, OR: Odds Ratio, SE: Standard error, CIs: Confidence intervals
a: Sex assigned at birth according to external examination of body characteristics

Table S14 Results of Mixed-effects Model for Anxiety/Depression Dimension

Variable	OR	SE	95% CIs	P
Visit				
Visit A	Reference			
Visit B	5.05	0.21	(4.65, 5.48)	<0.001
Visit C	12.4	0.60	(11.27, 13.64)	<0.001
Visit D	22.33	1.24	(20.04, 24.89)	<0.001
Sex^a				
Male	Reference			
Female	0.84	0.04	(0.76, 0.94)	0.002
Age	1	0.002	(0.99, 1.00)	0.426
Medical Insurance plan				
BMIW	Reference			
BMIUR	0.8	0.05	(0.69, 0.91)	0.001
BMIRR	0.71	0.05	(0.63, 0.81)	<0.001
FMC	0.93	0.25	(0.56, 1.56)	0.797
BMI	1.8	0.38	(1.19, 2.73)	0.005
Without Insurance	0.95	0.07	(0.83, 1.10)	0.486
Disease history				
Stroke	0.91	0.05	(0.81, 1.02)	0.093
Hypertension	0.98	0.05	(0.88, 1.08)	0.638
Diabetes	0.79	0.05	(0.7, 0.88)	<0.001
Dyslipidemia	0.98	0.14	(0.74, 1.29)	0.876
CHD	0.88	0.06	(0.76, 1.01)	0.073
AF	1.04	0.13	(0.81, 1.33)	0.756
CP	1.54	0.48	(0.83, 2.86)	0.170
Cancer	0.84	0.13	(0.62, 1.15)	0.285
Thrombolysis	0.75	0.09	(0.60, 0.95)	0.017
TCM therapy	0.75	0.04	(0.67, 0.84)	<0.001
Baseline NIHSS classification				
Normal	Reference			
Mild	0.46	0.05	(0.38, 0.56)	<0.001
Moderate	0.12	0.010	(0.10, 0.14)	<0.001
Moderate to severe	0.03	0.004	(0.02, 0.04)	<0.001
Severe	0.02	0.005	(0.01, 0.03)	<0.001
Constant	5.88	1.04	(4.16, 8.30)	<0.001
Random effect parameter (Individual patient)				
Constant	3.26	0.13	(3.02, 3.52)	<0.001

BMIW: Basic Medical Insurance for workers, BMIUR: Basic Medical Insurance for Urban Residents, BMIRR: Basic Medical Insurance for Rural Residents, FM: Free Medical Care, BMS: Business

Medical Insurance, CHD: Coronary Heart Disease, AF: Atrial Fibrillation, CP: Carotid Plaque, TCM: Traditional Chinese Medicine, OR: Odds Ratio, SE: Standard error, CIs: Confidence intervals
a: Sex assigned at birth according to external examination of body characteristics

Table S15 Results of Male's Utility Values Classified According to Age Groups (1)

NIHSS: National Institute of Health Stroke Scale, SD: standard deviation, mRS: modified Rankin Scale

a: combined due to small sample size

Note: Data from different visits were pooled to estimate the utility values for mRS and NIHSS. Visit A represents the visit at admission, Visit B represents the visit at discharge, Visit C represents the visit at 90 ± 14 days after medication treatment, and Visit D represents the visit at 360 ± 28 days after medication treatment.

Table S15 Results of Male's Utility Values Classified According to Age Groups (2)

Age group	60<Age<=65			65<Age<=70			70<Age<=75			75<Age<=80			80<Age<=85			Age>85		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Visit A	0.575	0.319	1,169	0.564	0.323	946	0.548	0.332	699	0.525	0.317	562	0.514	0.346	346	0.467	0.337	145
Visit B	0.741	0.289	1,169	0.717	0.306	942	0.706	0.306	695	0.672	0.326	560	0.675	0.330	343	0.595	0.351	142
Visit C	0.831	0.233	1,091	0.820	0.238	873	0.798	0.250	637	0.753	0.306	502	0.737	0.320	321	0.691	0.335	128
Visit D	0.867	0.211	1,007	0.859	0.215	807	0.831	0.250	582	0.791	0.288	449	0.773	0.313	280	0.740	0.296	112
mRS=0	0.983	0.083	823	0.984	0.069	612	0.984	0.062	457	0.977	0.100	314	0.972	0.114	190	0.951	0.127	57
mRS=1	0.893	0.136	1,815	0.896	0.135	1,397	0.896	0.135	946	0.881	0.152	731	0.897	0.142	462	0.863	0.166	164
mRS=2	0.682	0.165	764	0.686	0.160	651	0.691	0.149	444	0.674	0.165	342	0.694	0.135	195	0.677	0.157	102
mRS=3	0.548	0.151	455	0.549	0.163	388	0.553	0.158	287	0.575	0.154	228	0.542	0.168	138	0.554	0.172	62
mRS=4	0.286	0.223	379	0.265	0.224	368	0.279	0.201	332	0.270	0.209	301	0.257	0.204	181	0.244	0.251	92
mRS=5	0.051	0.158	200	0.047	0.167	152	0.068	0.167	147	0.069	0.177	157	0.055	0.172	124	0.038	0.176	50
mRS 0-2	0.867	0.170	3,402	0.865	0.169	2,660	0.868	0.164	1,847	0.852	0.181	1,387	0.867	0.167	847	0.82	0.187	323
mRS 3-5	0.356	0.263	1,034	0.350	0.268	908	0.341	0.255	766	0.325	0.267	686	0.289	0.264	443	0.288	0.287	204
NIHSS																		
Normal	0.913	0.161	389	0.911	0.174	260	0.922	0.155	217	0.919	0.140	151	0.905	0.172	108	0.867	0.164	33
Mild	0.761	0.210	1,191	0.774	0.201	916	0.771	0.200	635	0.739	0.213	538	0.738	0.224	313	0.675	0.256	131
Moderate	0.402	0.285	663	0.408	0.292	604	0.376	0.272	472	0.365	0.263	352	0.344	0.288	219	0.312	0.302	98
Moderate to Severe	0.075	0.165	37	0.080	0.178	54	0.045	0.183	40	0.036	0.147	36	0.033	0.192	22	0.033	0.192	10
Severe	-0.047	0.193	17	0.013	0.157	22	-0.012	0.188	9	0.045	0.173	23	0.030	0.174	16	-0.013	0.132	3

NIHSS: National Institute of Health Stroke Scale, SD: standard deviation, mRS: modified Rankin Scale

Note: Data from different visits were pooled to estimate the utility values for mRS and NIHSS. Visit A represents the visit at admission, Visit B represents the visit at discharge, Visit C represents the visit at 90±14 days after medication treatment, and Visit D represents the visit at 360±28 days after medication treatment.

NIHSS: National Institute of Health Stroke Scale, SD: standard deviation, mRS: modified Rankin Scale

a: combined due to small sample size

Note: Data from different visits were pooled to estimate the utility values for mRS and NIHSS. Visit A represents the visit at admission, Visit B represents the visit at discharge, Visit C represents the visit at 90 ± 14 days after medication treatment, and Visit D represents the visit at 360 ± 28 days after medication treatment.

Table S16 Results of Female's Utility Values Classified According to Age Groups (2)

Age group	60<Age<=65			65<Age<=70			70<Age<=75			75<Age<=80			80<Age<=85			Age>85		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Visit A	0.514	0.323	542	0.512	0.340	603	0.508	0.314	509	0.499	0.320	455	0.459	0.344	284	0.366	0.361	155
Visit B	0.675	0.324	541	0.687	0.308	601	0.667	0.303	509	0.658	0.317	455	0.605	0.333	280	0.542	0.355	154
Visit C	0.780	0.266	499	0.787	0.264	559	0.761	0.266	461	0.734	0.291	410	0.688	0.308	250	0.663	0.339	129
Visit D	0.843	0.237	456	0.830	0.243	524	0.797	0.267	429	0.765	0.278	373	0.758	0.300	223	0.733	0.322	116
mRS=0	0.982	0.073	320	0.986	0.053	349	0.987	0.067	260	0.985	0.053	213	0.981	0.079	136	0.94	0.191	81
mRS=1	0.897	0.135	714	0.894	0.141	842	0.871	0.161	651	0.872	0.147	559	0.876	0.152	309	0.867	0.138	133
mRS=2	0.673	0.142	387	0.672	0.133	424	0.668	0.136	366	0.686	0.144	289	0.645	0.153	161	0.668	0.154	77
mRS=3	0.542	0.172	248	0.566	0.138	250	0.565	0.153	252	0.565	0.172	228	0.574	0.121	134	0.576	0.157	64
mRS=4	0.242	0.223	252	0.236	0.206	278	0.288	0.22	245	0.287	0.22	260	0.274	0.195	166	0.281	0.208	97
mRS=5	0.064	0.166	117	0.054	0.174	144	0.077	0.162	134	0.095	0.174	144	0.08	0.183	131	0.038	0.175	102
mRS 0-2	0.855	0.171	1,421	0.856	0.170	1,615	0.836	0.181	1,277	0.844	0.17	1,061	0.838	0.186	606	0.835	0.19	291
mRS 3-5	0.329	0.268	617	0.320	0.268	672	0.354	0.263	631	0.344	0.265	632	0.309	0.26	431	0.258	0.278	263
NIHSS																		
Normal	0.883	0.195	157	0.914	0.153	173	0.862	0.12	14	0.885	0.164	116	0.900	0.149	76	0.854	0.259	34
Mild	0.733	0.223	491	0.743	0.214	555	0.887	0.165	144	0.729	0.208	413	0.703	0.238	219	0.689	0.230	97
Moderate	0.375	0.283	374	0.359	0.276	411	0.702	0.219	481	0.354	0.284	321	0.347	0.260	218	0.345	0.283	129
Moderate to Severe	0.016	0.154	34	-0.001	0.167	22	0.371	0.279	345	0.164	0.206	22	0.044	0.175	20	0.024	0.183	19
Severe	-0.048	0.164	9	0.015	0.173	19	0.098	0.173	29	0.077	0.155	19	-0.024	0.168	22	-0.115	0.067	18

NIHSS: National Institute of Health Stroke Scale, SD: standard deviation, mRS: modified Rankin Scale

Note: Data from different visits were pooled to estimate the utility values for mRS and NIHSS. Visit A represents the visit at admission, Visit B represents the visit at discharge, Visit C represents the visit at 90±14 days after medication treatment, and Visit D represents the visit at 360±28 days after medication treatment.

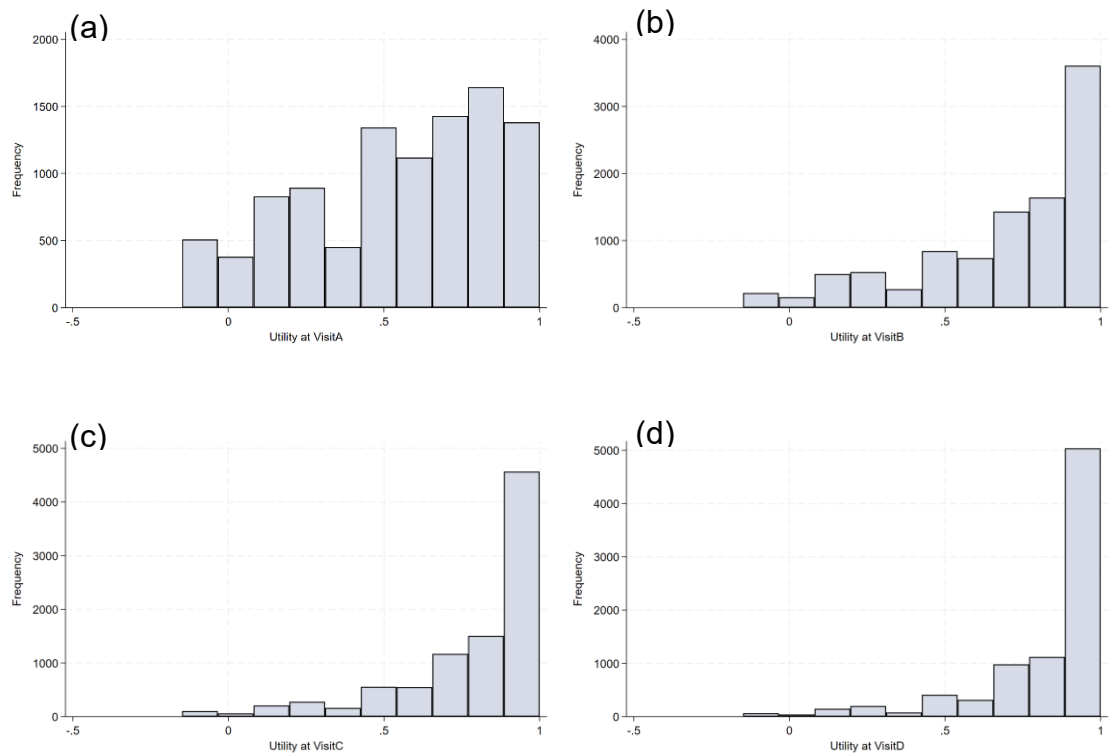


Fig S1 Histograms of Utility Values for the Follow-up Visits

Note: Figure 3 (a), (b), (c) and (d) represent the utility measured at Visit A, Visit B, Visit C and Visit D, respectively.

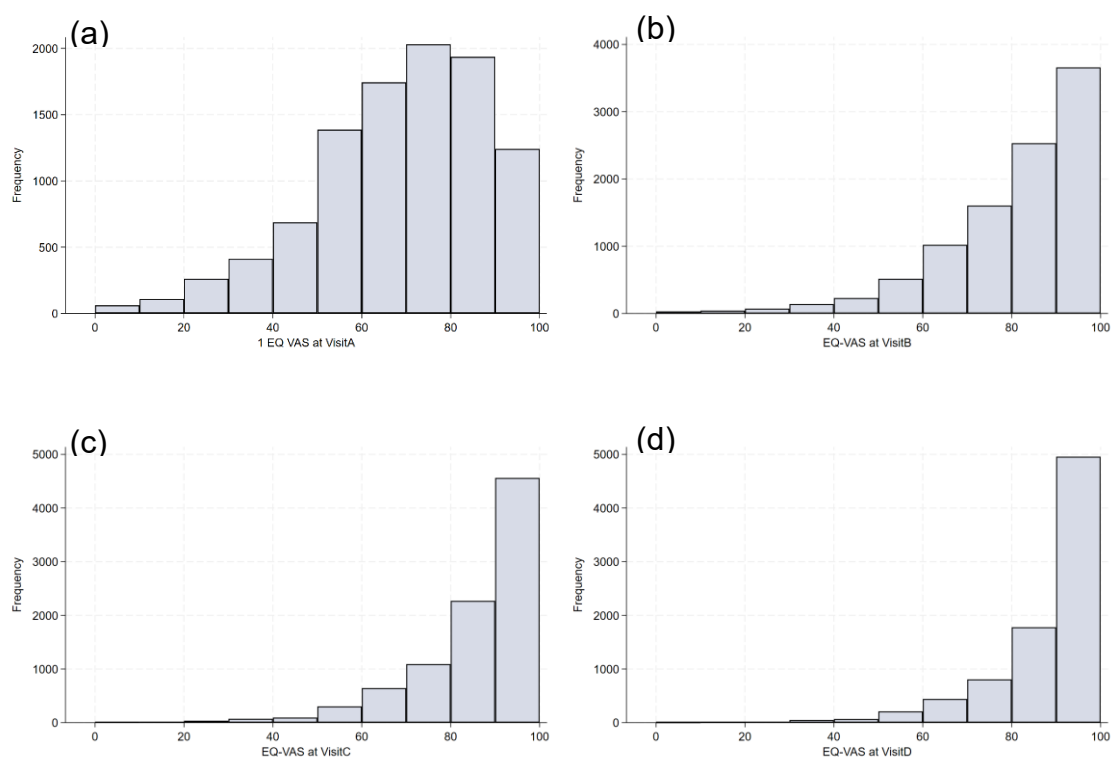


Fig S2 Histograms of EQ-VAS for the Follow-up Visits

Note: Figure S1 (a), (b), (c) and (d) represent the EQ-VAS scores measured at Visit A, Visit B, Visit C and Visit D, respectively.

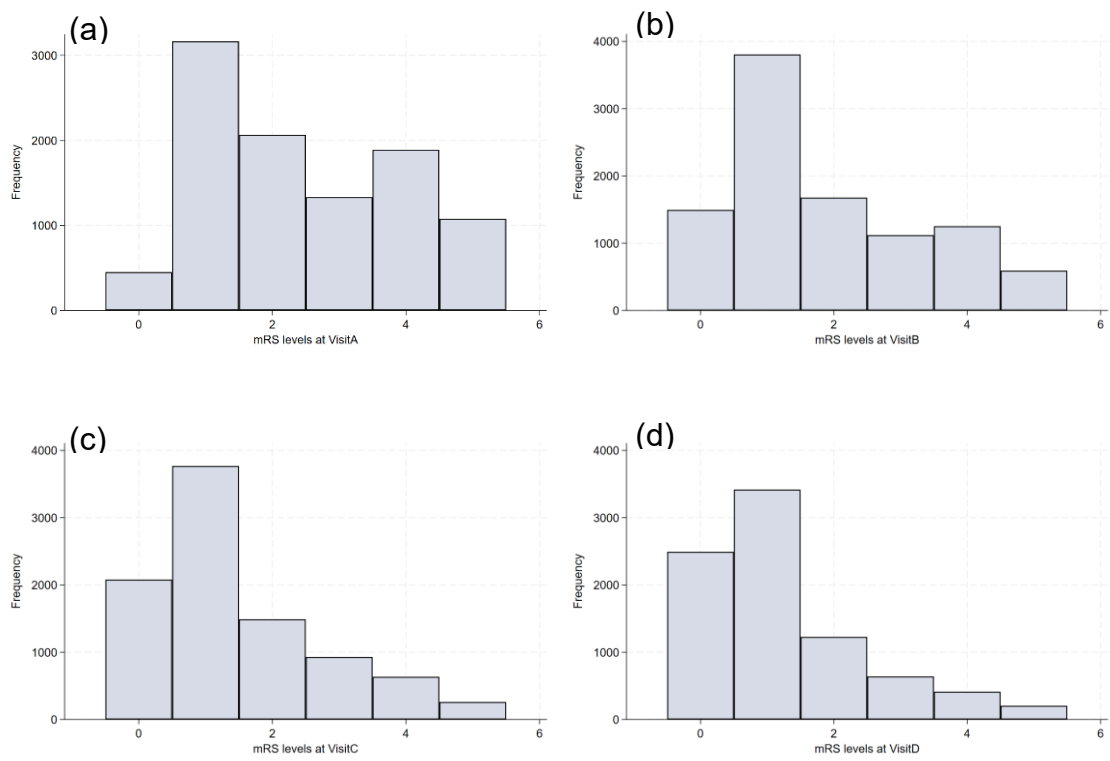


Fig S3 Histogram of mRS Levels for the Follow-up Visits

Note: Figure S2 (a), (b), (c) and (d) represent the mRS levels measured at Visit A, Visit B, Visit C and Visit D, respectively.

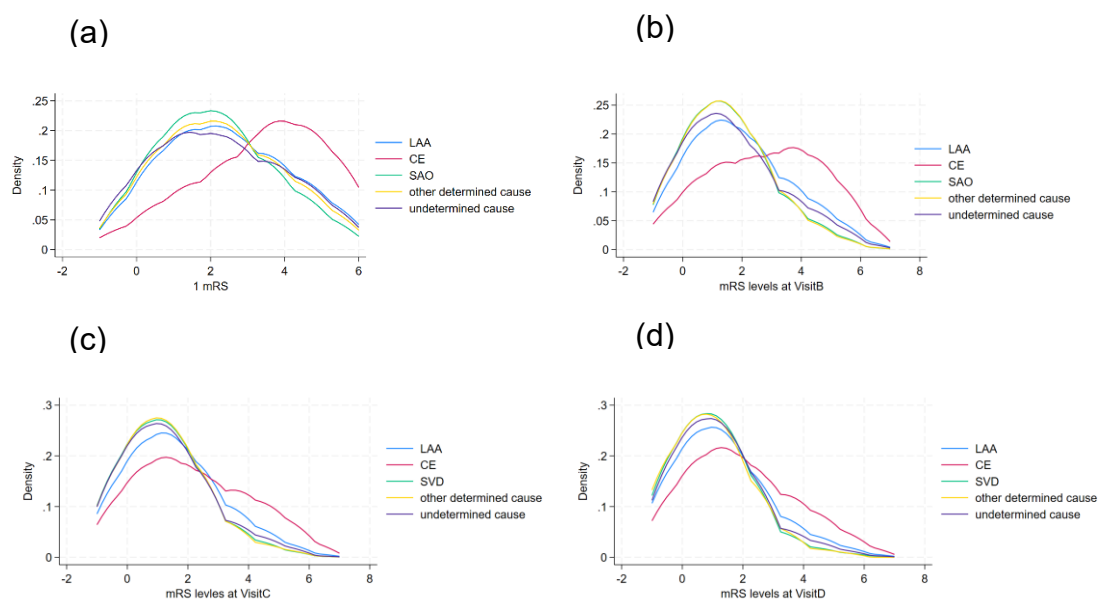


Fig S4 Distributions of the mRS Levels Classified by TOAST for the Follow-up Visits

LAA: Large-artery atherosclerosis, CE: Cardioembolic stroke, SVD: Small-vessel disease,

Note: Figure S3 (a), (b), (c) and (d) represent the mRS levels measured at Visit A, Visit B, Visit C and Visit D, respectively.

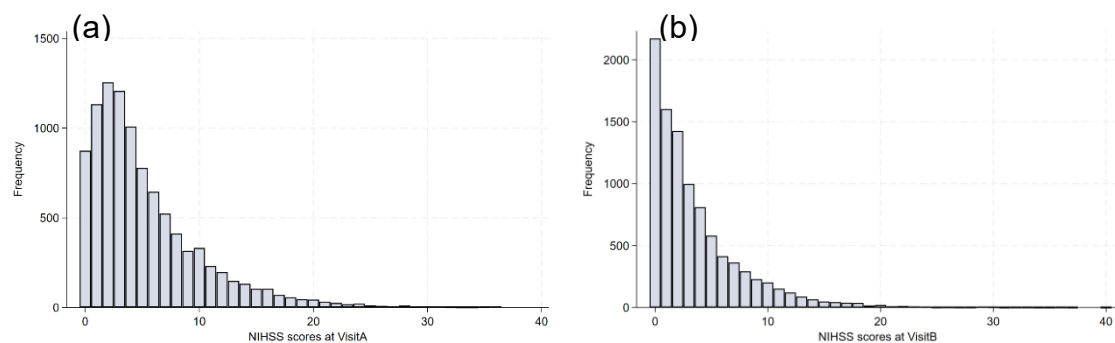


Fig S5 Histograms of NIHSS Score for the Follow-up Visits

Note: Figure S4 (a) and (b) represent the NIHSS scores measured at Visit A and Visit B