

Table S1: The frequency of dependent variables (survival outcome, GOSE, MRS, and ASR) (N=122*)

Qualitative variables

Variable	Subgroups	Frequency n (%)
Patient's status	Alive	55 (45.1)
	Death in hospital	47 (38.5)
	Discharged and died 1 month	5 (4.1)
	Discharged and died 1-6 months after discharge	12 (9.8)
	Discharged and died 6-12 months after discharge	1 (0.8)
	Discharged and died 12 months after discharge	2 (1.6)
GOSE	1	67 (55)
	2	7 (5.7)
	4	16 (13.1)
	5	14 (11.5)
	6	4 (3.3)
	7	4 (3.3)
	8	10 (8.1)
mRS	0	6 (4.9)
	1	8 (6.5)
	2	5 (4.1)
	3	5 (4.1)
	4	17 (13.9)
	5	14 (11.5)
	6	67 (55)
ASR	0	6 (4.9)
	1	11 (9.0)
	2	5 (4.1)
	3	6 (4.9)
	4	27 (22.1)
	Dead	67 (55)

22 out of 144 patients who were discharged with unknown status were not considered in the statistics.

Table S2: Univariate logistic regression results for survival status

Variable	Odds ratio	Std. error	P value*	95% Confidence Interval
Age above 60 years	0.128	0.055	<0.001	0.055-0.296
Time to surgery more than 48 hours	1.118	0.412	0.761	0.543-2.301
rTPA	2.245	1.176	0.123	0.804-6.265
Territory lt MCA	1.159	0.463	0.712	0.529-2.537
Posterior Circulation	1.614	0.899	0.390	0.542-4.806
Male	0.894	0.335	0.764	0.429-1.863
VP shunt	0.165	0.179	0.097	0.020-1.384
Stroke	0.222	0.131	0.011	0.070-0.704
HTN	0.264	0.106	0.001	0.120-0.580
DM	0.256	0.122	0.004	0.100-0.652
IHD	0.684	0.307	0.398	0.283-1.651
AF	0.602	0.387	0.429	0.171-2.119
Thyroid problem	1.641	1.145	0.478	0.418-6.439
Dyslipidemia	0.374	0.228	0.107	0.113-1.236
Smoking	0.867	0.461	0.789	0.306-2.457
COVID-19 diagnose	0.283	0.169	0.034	0.088-0.912
MLS	0.930	0.045	0.134	0.846-1.023
Blood loss	1.001	0.001	0.082	1.000-1.002
GCS	1.263	0.090	0.001	1.099-1.452

rTPA: Recombinant tissue plasminogen activator; VP shunt: Ventriculoperitoneal shunt; HTN: Hypertension; DM: Diabetes mellitus; IHD: Ischemic heart disease; AF: Atrial fibrillation; GCS: Glasgow coma scale; MLS: Midline shift; MCA: Middle cerebral artery; Reference categories: Age under 60 years, Time to surgery less than 48 hours, No rTPA, Territory rt MCA, Female, No VP shunt, No Stroke, No HTN, No DM, No IHD, No AF, No Thyroid problem, No Dyslipidemia, No Smoking, No COVID-19 diagnosis. *Univariate logistic regression analysis, the level of significance was set as P<0.05.

Table S3: Univariate logistic regression results for GOSE

Variable	Odds ratio	Std. error	P value*	95% Confidence Interval
Age above 60 years	0.118	0.049	0.052	0.266-0.118
Time to surgery more than 48 hours	1.119	0.391	0.565	2.220-1.119
rtPA	1.786	0.808	0.736	4.335-1.786
lt MCA	1.118	0.421	0.535	2.337-1.118
Posterior Circulation	3.583	2.063	1.159	11.074-3.583
Male	0.781	0.279	0.388	1.573-0.781
VP shunt	0.191	0.209	0.022	1.628-0.191
Stroke	0.248	0.145	0.079	0.780-0.248
HTN	0.215	0.084	0.099	0.463-0.215
DM	0.305	0.144	0.121	0.771-0.305
IHD	0.541	0.232	0.234	1.253-0.541
AF	0.487	0.300	0.146	1.626-0.487
Thyroid problem	1.590	1.020	0.452	5.591-1.590
Dyslipidemia	0.390	0.235	0.120	1.271-0.390
Smoking	0.757	0.380	0.283	2.023-0.757
COVID-19 diagnose	0.302	0.179	0.095	0.962-0.302
MLS	0.876	0.046	0.791	0.970-0.876
Blood loss	1.001	0.000	1.000	1.001-1.001
GCS	1.278	0.084	1.123	1.455-1.278

rtPA: Recombinant tissue plasminogen activator; VP shunt: Ventriculoperitoneal shunt; HTN: Hypertension; DM: Diabetes mellitus; IHD: Ischemic heart disease; AF: Atrial fibrillation; GCS: Glasgow coma scale; MLS: Midline shift; MCA: Middle cerebral artery; Reference categories: Age under 60 years, Time to surgery less than 48 hours, No rtPA, Territory rt MCA, Female, No VP shunt, No Stroke, No HTN, No DM, No IHD, No AF, No Thyroid problem, No Dyslipidemia, No Smoking, No COVID-19 diagnosis. *Univariate logistic regression analysis, the level of significance was set as $P < 0.05$.

Table S4: Univariate logistic regression results for MRS

Variable	Odds ratio	Std. error	P value*	95% Confidence Interval
Age above 60 years	8.105	3.366	<0.001	3.591-18.294
Time to surgery more than 48 hours	0.854	0.299	0.652	0.430-1.694
rtPA	0.574	0.258	0.218	0.238-1.387
Territory lt MCA	0.925	0.348	0.835	0.442-1.935
Posterior Circulation	0.334	0.187	0.051	0.111-1.004
Male	1.243	0.444	0.542	0.617-2.504
VP shunt	5.185	5.675	0.133	0.607-44.301
Stroke	4.269	2.489	0.013	1.361-13.384
HTN	4.636	1.817	0.000	2.150-9.993
DM	3.570	1.682	0.007	1.418-8.991
IHD	1.778	0.763	0.180	0.767-4.123
AF	2.058	1.266	0.241	0.616-6.870
Thyroid problem	0.677	0.432	0.541	0.194-2.363
Dyslipidemia	2.648	1.592	0.105	0.815-8.603
Smoking	1.248	0.629	0.661	0.464-3.351
COVID-19 diagnose	3.355	1.980	0.040	1.056-10.664
MLS	1.138	0.058	0.011	1.030-1.258
Blood loss	0.999	0.000	0.172	0.999-1.000
GCS	0.774	0.051	<0.001	0.679-0.881

rtPA: Recombinant tissue plasminogen activator; VP shunt: Ventriculoperitoneal shunt; HTN: Hypertension; DM: Diabetes mellitus; IHD: Ischemic heart disease; AF: Atrial fibrillation; GCS: Glasgow coma scale; MLS: Midline shift; MCA: Middle cerebral artery; Reference categories: Age under 60 years, Time to surgery less than 48 hours, No rtPA, Territory rt MCA, Female, No VP shunt, No Stroke, No HTN, No DM, No IHD, No AF, No Thyroid problem, No Dyslipidemia, No Smoking, No COVID-19 diagnosis. *Univariate logistic regression analysis, the level of significance was set as $P < 0.05$.

Table S5: Univariate logistic regression results for ASR

Variable	Odds ratio	Std. error	P value*	95% Confidence Interval
Age above 60 years old	0.673	0.433	0.191	2.377-0.673
Time to surgery more than 48 hours	1.051	0.541	0.383	2.882-1.051
rTPA	0.295	0.184	0.087	0.999-0.295
Territory lt MCA	0.016	0.013	0.003	0.081-0.016
Posterior Circulation	0.755	0.728	0.114	5.004-0.755
Male	1.401	0.724	0.509	3.858-1.401
Stroke	0.740	0.729	0.107	5.102-0.740
IHD or AF or HTN	0.739	0.398	0.257	2.123-0.739
DM or Thyroid disease	1.590	0.997	0.465	5.433-1.590
Smoking	2.918	2.526	0.535	15.921-2.918
COVID-19 diagnose	0.399	0.350	0.071	2.230-0.399
MLS	0.876	0.068	0.753	1.021-0.876
Blood loss	0.999	0.001	0.998	1.000-0.999
GCS	1.382	0.154	1.110	1.721-1.382

rtPA: Recombinant tissue plasminogen activator; VP shunt: Ventriculoperitoneal shunt; HTN: Hypertension; DM: Diabetes mellitus; IHD: Ischemic heart disease; AF: Atrial fibrillation; GCS: Glasgow coma scale; MLS: Midline shift; MCA: Middle cerebral artery; Reference categories: Age under 60 years, Time to surgery less than 48 hours, No rTPA, Territory rt MCA, Female, No VP shunt, No Stroke, No HTN or IHD or AF, No DO or Thyroid problem, No Smoking, No COVID-19 diagnosis; *Univariate logistic regression analysis, level of significance was set as $P < 0.05$.