

SUPPLEMENTAL MATERIAL

Online Supplemental for manuscript entitled:

The incidence and associated factors of early neurological deterioration after thrombolysis: Results from SITS Registry.

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Supplemental Tables: I – II

SUPPLEMENTAL TABLES

Supplementary Table I: Univariate Analysis for Death at day-90

Variable	OR	95% CI	P-Value
Age per year	1.07	1.067-1.073	p<0.001
Male	1.82	1.73-1.92	p<0.001
Aspirin	1.52	1.44-1.60	p<0.001
Dipyridamole	1.10	0.89-1.37	p=0.381
Clopidogrel	1.48	1.36-1.63	p<0.001
Oral AntiDiabetic	1.39	1.29-1.50	p<0.001
Insulin	2.04	1.84-2.27	p<0.001
Oral Antihypertensives	1.61	1.53-1.70	p<0.001
Statin	1.12	1.06-1.19	p<0.001
Hypertension	1.67	1.57-1.77	p<0.001
Diabetes	1.72	1.63-1.83	p<0.001
Hyperlipidemia	0.95	0.90-1.01	p=0.056
Previous smoker	0.92	0.85-1.00	p=0.037
Current Smoker	04.6	0.43-0.51	p<0.001
Previous stroke \leq 3 months	1.19	0.98-1.43	p=0.075
Previous stroke >3 months earlier	1.36	1.26-1.47	p<0.001
Previous TIA	1.05	0.95-1.16	p=0.383
AF	2.29	2.16-2.42	p<0.001
CHF	2.58	2.39-2.79	p<0.001
Baseline NIHSS	1.15	1.14-1.15	p<0.001

mRS	1.61	1.57-1.65	p<0.001
SBP	1.004	1.003-1.01	p<0.001
Glucose (mmol/l)	1.03	1.02-1.03	p<0.001
Cholesterol (mmol/l)	0.99	0.97-1.00	p=0.020
Hyperdense artery sign at baseline	2.31	2.18-2.44	p<0.001
Signs of current infarction imaging baseline	1.75	1.63-1.87	p<0.001
Diagnosis Ischaemic Stroke	0.96	0.83-1.10	p=0.533
Vascular Territory (Left hemisphere)	0.96	0.91-1.02	p= 0.213
Vascular Territory (Posterior)	0.76	0.69-0.84	p<0.001
Onset to Needle Time	1.00	1.00-1.00	p=0.037
Stroke Subtype (Large Vessel with significant carotid stenosis)	3.48	3.01-4.03	p<0.001
Stroke Subtype (Large vessel disease- other)	4.13	3.64-4.70	p<0.001
Stroke Subtype (Cardiac Emboli)	4.45	3.92-5.04	p<0.001
ICH	3.83	3.57-4.12	p<0.001
END	7.98	7.36-8.65	p<0.001

TIA= Transient Ischaemic Attack, AF= Atrial Fibrillation, CHF= Congestive Heart Failure, NIHSS= National Institutes of Health Stroke Scale, mRS= Modified Rankin Scale, SBP= Systolic Blood Pressure, END= Early Neurological Deterioration, mmol/L= Millimoles per Litre, ICH= intracerebral haemorrhage

Supplementary Table II: Multivariate Log Regression Analysis for Death at day- 90

Variable	OR	95%CI	P-value
Male	1.92	1.73-2.13	p<0.001
Age per year	1.06	1.06-1.07	p<0.001
Aspirin	0.94	0.84-1.05	p=0.26
Clopidogrel	0.97	0.79-1.19	p=0.753
Oral AntiDiabetic	0.84	0.69-1.02	p=0.082
Insulin	1.24	0.99-1.56	p=0.064
Oral Antihypertensives	0.97	0.84-1.11	p=0.656
Statin	0.83	0.73-0.94	p=0.002
Hypertension	1.09	0.94-1.26	p=0.281
Diabetes	1.76	1.49-2.09	p<0.001
Current Smoker	0.93	0.78-1.09	p=0.367
Previous stroke >3 months earlier	1.09	0.93-1.28	p=0.267
AF	1.33	1.16-1.51	p<0.001
CHF	1.70	1.47-1.97	p<0.001
mRS	1.3	1.24-1.36	p<0.001
Baseline NIHSS	1.16	1.15-1.17	p<0.001
SBP	1.00	0.99-1.00	p=0.643
Hyperdense artery sign at baseline	1.26	1.13-1.42	p<0.001
Signs of current infarction imaging baseline	1.20	1.05-1.38	p=0.009
Stroke Subtype (LVD- other)	1.87	1.47-2.38	p<0.001
Stroke Subtype (Cardiac Emboli)	1.52	1.19-1.94	p=0.001

Stroke Subtype (LVD with carotid stenosis)	1.67	1.27-2.19	p<0.001
Diagnosis Ischaemic Stroke	1.27	0.85-1.93	p=0.246
Vascular Territory (posterior)	1.13	0.92-1.39	p=0.257
Vascular Territory (Left)	0.82	0.73--0.92	p=0.001
Onset to needle time	1.002	1.001-1.003	p=0.001
ICH	1.86	1.64-2.11	p<0.001
END	9.70	8.36-11.26	p<0.001
Glucose (mmol/l)	1.01	1.00-1.02	p=0.004

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