

SUPPLEMENTAL MATERIAL

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Figure I. Flow chart of patient selection

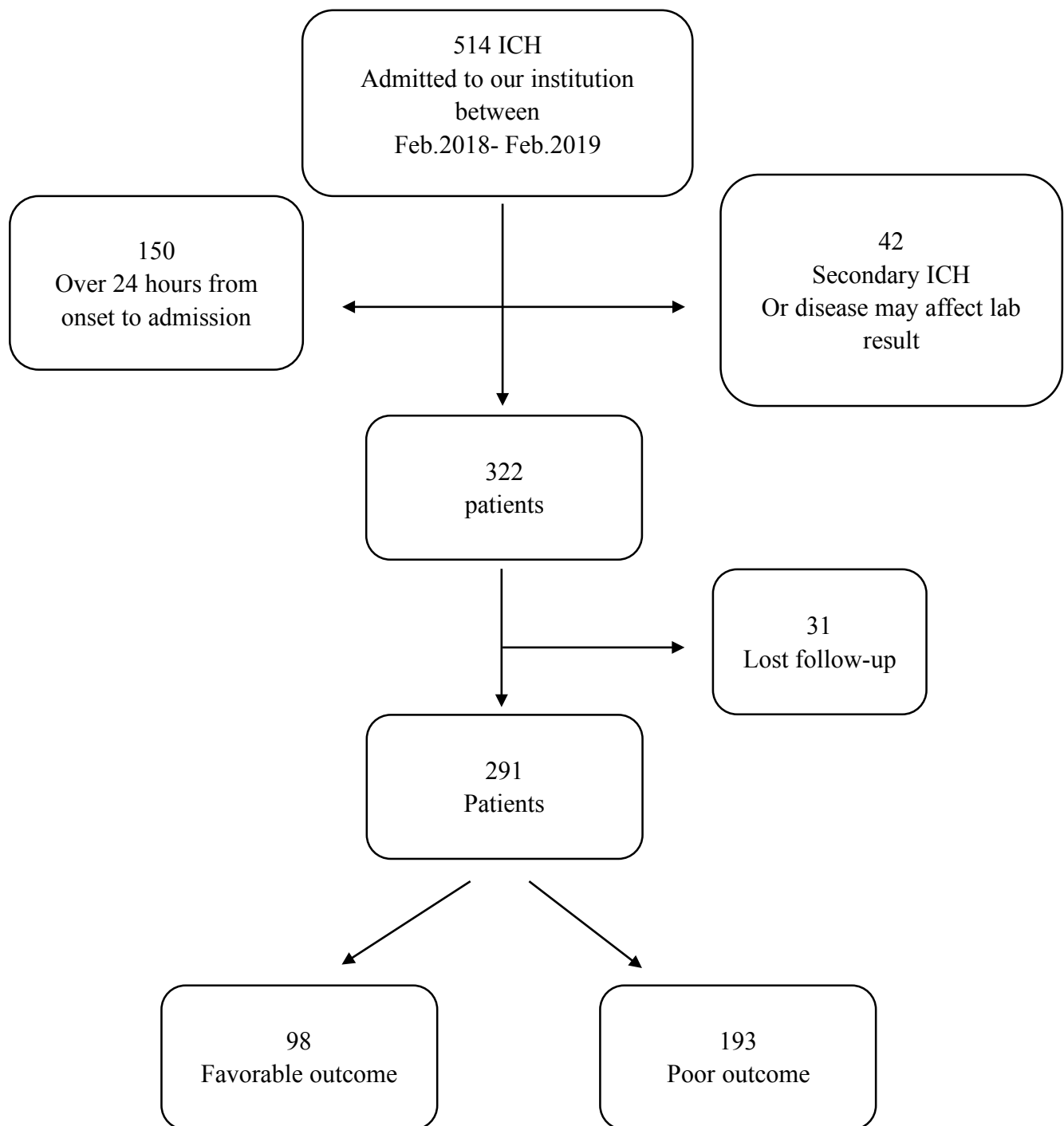


Table I. Baseline Comparison between 90-day outcome groups

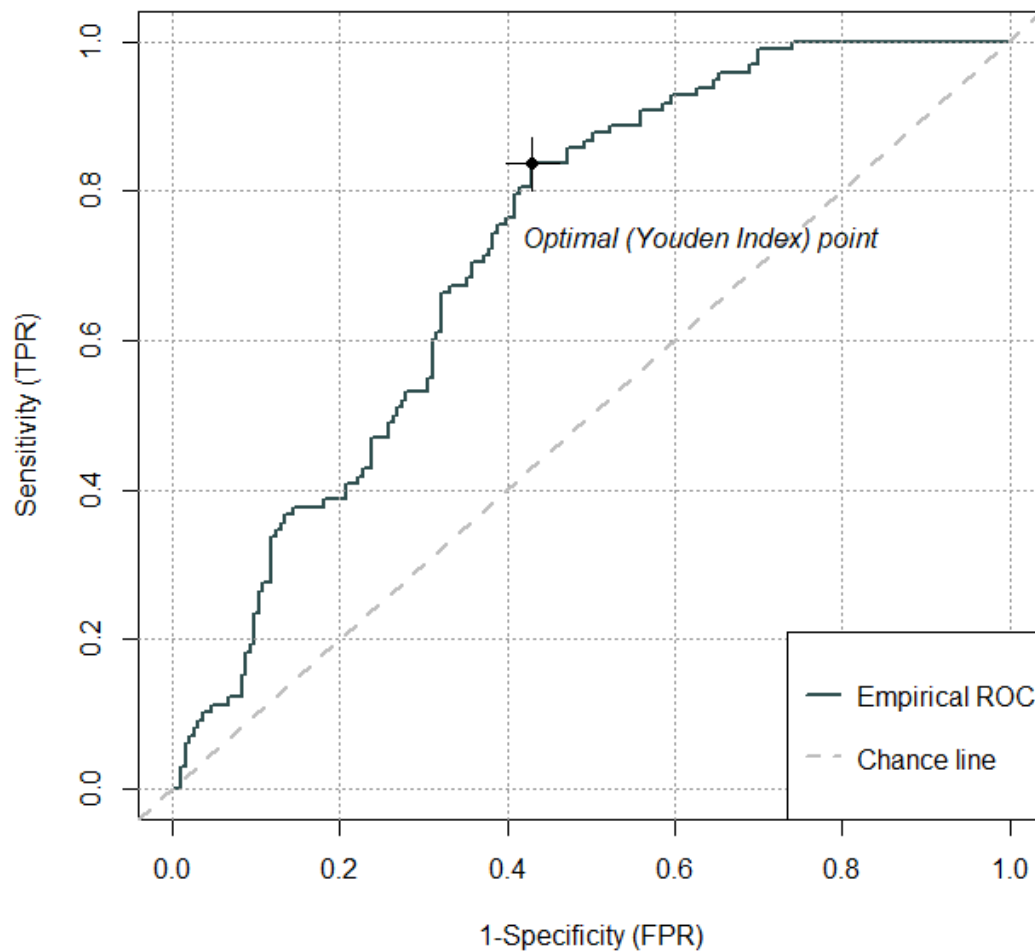
	Full cohort (n=291)	Favorable Outcome (n=98)	Poor outcome (n=193)	<i>P</i> value
Hypertension	180 (62%)	57 (58%)	123 (64%)	0.43 [*]
Diabetes mellitus	28 (9%)	10 (10%)	18 (9%)	0.97 [*]
Chronic kidney disease	8 (3%)	2 (2%)	6 (3%)	0.72 [*]
Coronary artery disease	7 (2%)	1 (1%)	6 (3%)	0.43 [*]
Anticoagulated	9 (3%)	2 (2%)	7 (4%)	0.72 [*]
Antiplatelets	22 (8%)	8 (8%)	14 (8%)	0.95 [*]
Prior stroke	22 (8%)	8 (8%)	14 (8%)	0.97 [*]
Current smoker	97 (33%)	37 (38%)	60 (31%)	0.31 [*]
Alcohol abuse	37 (13%)	16 (16%)	21 (11%)	0.25 [*]
Admission PLT, *10 ⁹ /L	176 [130-215]	172 [137-203]	180 [128-233]	0.29 [†]
Day-1 PLT, *10 ⁹ /L	155 [118-200]	160 [127-200]	151 [108-199]	0.35 [†]
Admission ANC, *10 ⁹ /L	9.2 [5.7-11.7]	6.4 [4.8-10.0]	10.0 [6.9-12.5]	<0.0001 [†]
Day-1 ANC, *10 ⁹ /L	8.8 [6.7-11.5]	7.3 [5.5-9.0]	9.9 [7.4-12.9]	<0.0001 [†]
Admission ALC, *10 ⁹ /L	1.12 [0.76-1.65]	1.03 [0.78-1.54]	1.14 [0.76-1.77]	0.43 [†]
Day-1 ALC, *10 ⁹ /L	0.90 [0.63-1.29]	1.16 [0.82-1.49]	0.80 [0.53-1.11]	<0.0001 [†]

PLT, platelets; ANC, absolute neutrophil count; ALC, absolute lymphocyte count

^{*} χ^2 test or Fisher exact test

[†] Mann-Whitney test

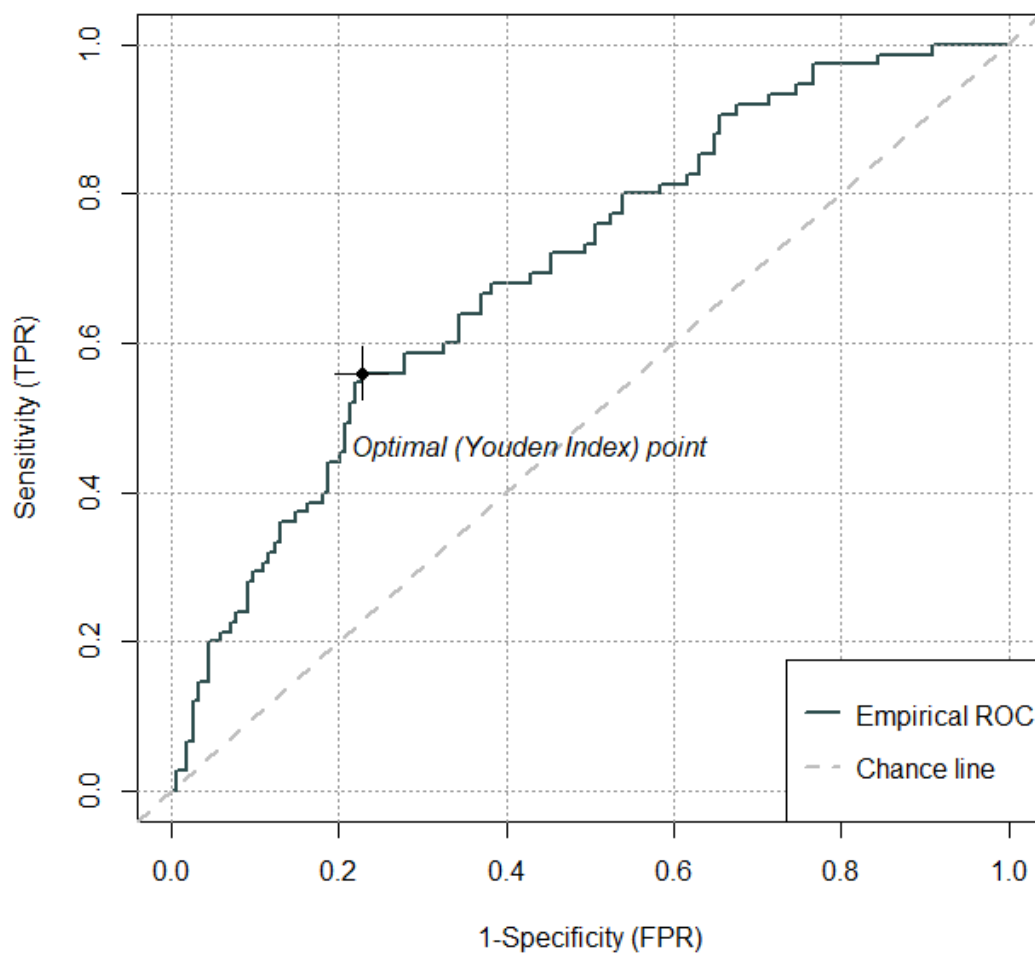
Figure II Unadjusted receiver operating curve and area under curve of SII



a. Admission SII

Area under curve 0.726 (95%CI 0.662-0.791)

Optimal point (Admission SII= $1315 \times 10^9/L$) sensitivity 83.7%, specificity 56.9%.



b. Day-1 SII

Area under curve 0.699 (95%CI 0.624-0.774)

Optimal point (Day-1 SII= $1700 \times 10^9/\text{L}$), sensitivity 53.3%, specificity 77.3%.

Table II. Multivariate logistic regression models predicting 90-day poor outcome

	Odds Ratio	95% CI lower	95% CI upper	P Value
Model 1				
Male	0.53	0.25	1.09	0.09
Age	1.03	1.01	1.06	0.007
GCS	0.73	0.64	0.82	<0.0001
Log ICH volume	2.18	1.41	3.52	0.0008
IVH	1.86	0.91	3.85	0.09
ICH Location	2.18	1.08	4.56	0.03
Craniotomy	1.19	0.48	3.05	0.71
Admission SII	1.19	0.81	1.75	0.37
Model 2				
Male	0.62	0.28	1.67	0.24
Age	1.04	1.01	1.07	0.004
GCS	0.79	0.69	0.90	0.0005
Log ICH volume	2.31	1.39	4.07	0.002
IVH	1.67	0.77	3.64	0.19
ICH Location	2.86	1.28	6.60	0.01
Craniotomy	0.97	0.37	2.85	0.95
Day-1 SII	1.74	1.03	3.00	0.04
Model 3				
Male	0.53	0.25	1.07	0.08
Age	1.03	1.01	1.06	0.006
GCS	0.73	0.64	0.82	<0.0001
Log ICH volume	2.18	1.42	3.52	0.0007
IVH	1.82	0.88	3.76	0.10
ICH Location	2.18	1.08	4.52	0.03
Craniotomy	1.19	0.48	3.06	0.71
Admission SII>1315 *10 ⁹ /L	1.42	0.72	2.82	0.31
Model 4				
Male	0.63	0.28	1.38	0.26
Age	1.04	1.01	1.06	0.007
GCS	0.79	0.68	0.89	0.0003
Log ICH volume	2.38	1.44	4.17	0.001
IVH	1.70	0.79	3.72	0.17
ICH Location	2.90	1.31	6.70	0.01
Craniotomy	0.97	0.37	2.59	0.95
Day1-SII>1700 *10 ⁹ /L	2.36	1.09	5.26	0.03

Note: variables included in the multivariate logistic regression:

model 1: Male, age, GCS, ICH volume, IVH, ICH location, craniotomy, Admission SII

model 2: Male, age, GCS, ICH volume, IVH, ICH location, craniotomy, Day-1 SII

model 3: Male, age, GCS, ICH volume, IVH, ICH location, craniotomy, Admission SII>1315 *10⁹/L

model 4: Male, age, GCS, ICH volume, IVH, ICH location, craniotomy, Day1-SII>1700 *10⁹/L