Supplementary Material

Table 1. The definition of process measures

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Acute phage process measu	ires		
rt-PA	intravenous tissue-type plasminogen activator		
	(tPA) in patients who arrive within 2 hours after		
	symptom onset and treated within 3 hours.		
Early antithrombotics	Antithrombotic treatment within 2 days after		
	admission, including antiplatelet or anticoagulant		
	medications.		
DVT prophylaxis	Patients who cannot walk received DVT prophylaxis		
	within 2 days after admission, including pneumatic		
	compression, heparin sodium, warfarin sodium or		
	new oral anticoagulants.		
Dysphagia screening	Dysphagia screening before oral intake		
Process measures at discha	rge		
Antithrombotic medication	Antithrombotic medication prescribed at discharge.		
Antihypertensive	Antihypertensive medication prescribed at discharge		
medication for	for patients with hypertension.		
hypertension			
Hypoglycemic medication	Hypoglycemic medication prescribed at discharge for		
for diabetes	patients with diabetes.		
Anticoagulation for AF	Anticoagulation medication prescribed at discharge		
	for patients with atrial fibrillation.		
Lowering LDL-C	Statin prescribed at discharge if LDL-C ≥100 mg/dL		
medication	or patient treated with lipid-lowering agent prior to		
	admission, or LDL-C not documented.		
Smoking cessation	Smoking cessation intervention before discharge for		
	current smokers.		
Stroke education	Stroke education provided to patient and/or caregiver,		
	including all five components: modifiable risk		
	factors, stroke warning sign and symptoms, how to		
	activate emergency medical services, need for follow-		
	up and medications prescribed.		

rt-PA indicates recombinant tissue plasminogen activator; AF, atrial fibrillation; LDL-C, low-density lipoprotein cholesterol.

^{*}Performance and quality measures are applied only to eligible patients in the absence of documented contraindications or any other rationale as to why therapy was not provided.

Table 2. Baseline characteristics between included and excluded patients

Characteristic	Included (n=17550)	Excluded (n=2054)	P	
Patient characteristics	(11-17330)	(II-2034)		
Male	11163 (63.6%)	1274 (62.0%)	0.1591	
Age	65(57-74)	65(57-75)	0.1122	
Health insurance	03(37-74)	03(37-73)	0.1122	
URBMI	8959 (51.0%)	1062 (51.7%)	0.4888	
NRCMS	6932 (39.5%)	815 (39.7%)	0.1000	
Commercial insurance	60 (0.3%)	9 (0.4%)		
Self-payment	1599 (9.1%)	168 (8.2%)		
Education	1000 (0.170)	100 (0.270)		
Elementary or below	7934 (45.2%)	948 (46.2%)	0.3827	
Middle school	4109 (23.4%)	453 (22.1%)	0.0027	
High School or above	5507 (31.4%)	653 (31.8%)		
Previous or current	` ,	, ,		
smoking	7818 (44.5%)	854 (41.6%)	0.0104	
Drinking	5277 (30.1%)	582 (28.3%)	0.1044	
Medical history	,			
Hypertension	11386 (64.9%)	1311 (63.8%)	0.3455	
Diabetes	3630 (20.7%)	430 (20.9%)	0.7905	
Hyperlipidemia	2128 (12.1%)	242 (11.8%)	0.6514	
Atrial fibrillation	1185 (6.8%)	197 (9.6%)	< 0.0001	
Stroke or TIA	5918 (33.7%)	722 (35.2%)	0.1951	
Medication history	, ,	, ,		
Antiplatelet	3444 (19.6%)	425 (20.7%)	0.2501	
Anticoagulation	178 (1.0%)	30 (1.5%)	0.0618	
Antihypertension	7868 (44.8%)	907 (44.2%)	0.5610	
Lipid-lowering medicine	1207 (6.9%)	144 (7.0%)	0.8216	
Antidiabetics	2782 (15.9%)	333 (16.2%)	0.6725	
NIHSS at admission	4(2-7)	4(1-8)	0.6146	
Days of hospitalization	13(9-16)	13(9-15)	0.3805	

URBMI, urban resident basic medical insurance; NRCMS, new rural cooperative medical scheme.

Table 3. The association between hospital volume and performance measures from unadjusted models.

	Q1 VS Q4	Q1 VS Q4		Q2 VS Q4		Q3 VS Q4	
Performance measures	Unadjusted OR (95%	D	Unadjusted OR (95%	P	Unadjusted OR (95%	P	
	CI)	r	CI)		CI)		
rt-PA	0.64 (0.31, 1.34)	0.2386	0.72 (0.35, 1.49)	0.3811	0.62 (0.28, 1.37)	0.2389	
Early antithrombotic	0.86 (0.39, 1.90)	0.7114	1.10 (0.49, 2.47)	0.8241	1.02 (0.44, 2.36)	0.9626	
Dysphagia screening	0.78 (0.38, 1.60)	0.5015	2.03 (0.93, 4.42)	0.0754	1.08 (0.53, 2.18)	0.8327	
DVT prophylaxis	1.31 (0.76, 2.28)	0.3329	1.37 (0.80, 2.36)	0.2501	2.22 (1.26, 3.91)	0.0059	
Antithrombotic medication	1.43 (0.93, 2.20)	0.1077	1.74 (1.09, 2.76)	0.0196	1.40 (0.71, 2.75)	0.3307	
Lowering LDL-C medication	1.12 (0.76, 1.66)	0.5726	1.35 (0.94, 1.94)	0.101	1.60 (1.10, 2.33)	0.0134	
Antihypertensive medication for hypertension	0.91 (0.66, 1.25)	0.5588	0.84 (0.62, 1.14)	0.2679	1.08 (0.79, 1.49)	0.6339	
Hypoglycemic medication for diabetes	0.98 (0.67, 1.45)	0.931	1.00 (0.68, 1.46)	0.9978	1.06 (0.72, 1.58)	0.757	
Anticoagulation for AF	0.58 (0.34, 1.01)	0.0528	0.77 (0.48, 1.24)	0.2842	1.24 (0.73, 2.09)	0.4229	
Smoking cessation	0.72 (0.44, 1.18)	0.1959	0.83 (0.50, 1.37)	0.4646	0.81 (0.43, 1.53)	0.5187	
Defect-free measure of care	0.88 (0.62, 1.25)	0.4634	1.13 (0.82, 1.56)	0.4496	1.15 (0.81, 1.62)	0.4347	

rt-PA indicates recombinant tissue plasminogen activator; DVT, deep vein thrombosis; AF, atrial fibrillation; LDL-C, low-density lipoprotein cholesterol.