

SUPPLEMENTAL MATERIAL

Table S1. Predictors of fibrinolytic use vs PPCI.

Variable	Level	OR (95% CI)	P-value
Admission year (ref. 2003)	2004	0.61 (0.51-0.73)	<0.0001
	2005	0.36 (0.28-0.47)	
	2006	0.29 (0.21-0.38)	
	2007	0.16 (0.11-0.23)	
	2008	0.16 (0.10-0.25)	
Age (per 5 years)		0.99 (0.96-1.02)	0.41
Sex (ref. Male)	Female	1.05 (0.95-1.16)	0.36
Race (ref. Caucasian)	non-Caucasian	1.03 (0.92-1.17)	0.59
Hour of arrival (ref. off hours weekends and nights)	Regular hours (weekdays 7am - 7pm)	0.70 (0.63-0.77)	<0.0001
Insurance (ref. other)	Medicaid	0.97 (0.79-1.20)	0.67
	Medicare	1.08 (0.92-1.26)	
	No Insurance/Not Documented/UT	1.06 (0.92-1.22)	
Past Medical/Surgical history			
CABG	Yes	1.47 (0.95-2.28)	0.08
CAD	Yes	1.17 (0.93-1.46)	0.17
Diabetes	Yes	1.08 (0.97-1.20)	0.18
Heart failure	Yes	1.05 (0.80-1.38)	0.73
Hyperlipidemia	Yes	0.88 (0.80-0.97)	0.009
Hypertension	Yes	1.01 (0.92-1.10)	0.84
MI	Yes	1.02 (0.90-1.16)	0.75
PCI	Yes	1.07 (0.63-1.81)	0.78
Smoking	Yes	1.10 (1.00-1.20)	0.04
Number of beds (per 50 beds)		1.03 (0.99-1.08)	0.17

CABG/CT capable hospital	Yes	1.90 (0.81-4.45)	0.14
Rural location	Yes	2.51 (1.04-6.07)	0.04

PPCI – Primary percutaneous coronary intervention, OR – odds ratio, CI – Confidence interval,

CABG - Coronary artery bypass graft, CAD – Coronary artery disease, MI - myocardial

infarction, PCI - percutaneous coronary intervention, CT – Cardiothoracic.

Table S2. Predictors of delayed fibrinolysis (DTN > 30 minutes) vs timely fibrinolysis (DTN ≤ 30 minutes).

Variable	Level	OR (95% CI)	P-value
Admission year (ref. 2003)	2004	0.95 (0.70-1.30)	0.02
	2005	1.15 (0.75-1.76)	
	2006	0.78 (0.49-1.25)	
	2007	1.38 (0.84-2.28)	
	2008	2.31 (1.08-4.93)	
Age (per 5 years)		1.01 (0.96-1.07)	0.67
Sex (ref. Male)	Female	1.05 (0.83-1.33)	0.67
Race (ref. Caucasian)	non-Caucasian	0.92 (0.70-1.21)	0.56
Hour of arrival (ref. off hours (weekends and nights 7pm-7am))	Regular hours (weekdays 7am - 7pm)	0.97 (0.78-1.21)	0.81
Insurance (ref. other)	Medicaid	0.80 (0.54-1.20)	0.15
	Medicare	1.27 (0.91-1.77)	
	No Insurance/Not Documented/UT	1.05 (0.77-1.42)	
Past Medical/Surgical history			
CAD	Yes	1.14 (0.77-1.71)	0.51
COPD	Yes	1.29 (0.93-1.80)	0.12
Diabetes	Yes	1.27 (1.02-1.57)	0.03
Heart failure	Yes	1.48 (1.03-2.13)	0.04
Hyperlipidemia	Yes	1.04 (0.83-1.31)	0.73
Hypertension	Yes	1.10 (0.88-1.37)	0.41
MI	Yes	0.94 (0.72-1.23)	0.66
PCI	Yes	0.57 (0.23-1.41)	0.22
Smoking	Yes	0.91 (0.73-1.12)	0.36

Number of beds \leq 600 (per 50 beds)		0.98 (0.92-1.04)	0.46
Number of beds > 600 (per 50 beds)		1.07 (1.00-1.14)	0.04
CABG/CT capable hospital	Yes	1.03 (0.60-1.76)	0.91
Rural location	Yes	1.19 (0.57-2.49)	0.65

PPCI – Primary percutaneous coronary intervention, DTN- Door to needle, DTB – Door to balloon, OR – odds ratio, CI – Confidence interval, CAD – Coronary artery disease, COPD – chronic obstructive pulmonary disease, MI - myocardial infarction, PCI - percutaneous coronary intervention, CABG - Coronary artery bypass graft, CT – Cardiothoracic.

Table S3. Predictors of delayed PPCI (DTB > 90 minutes) vs timely PPCI (DTB ≤ 90 minutes).

Variable	Level	OR (95% CI)	P value
Admission year (ref. 2003)	2004	1.03 (0.79-1.34)	<0.0001
	2005	0.84 (0.62-1.14)	
	2006	0.58 (0.43-0.79)	
	2007	0.33 (0.23-0.46)	
	2008	0.21 (0.15-0.29)	
Age ≤ 53 (per 5 years)		0.94 (0.89-0.99)	0.01
Age > 53 (per 5 years)		1.08 (1.05-1.10)	<0.0001
Sex (ref. Male)	Female	1.08 (0.98-1.20)	0.11
Hour of arrival (ref. off hours (weekends and nights 7pm-7am))	Regular hours (weekdays 7am - 7pm)	0.45 (0.40-0.51)	<.0001
Insurance (ref. other)	Medicaid	1.08 (0.88-1.31)	0.65
	Medicare	0.96 (0.88-1.05)	
	No Insurance/Not Documented/UT	1.02 (0.91-1.15)	
Past Medical/Surgical history			
CAD	Yes	1.01 (0.86-1.19)	0.90
Diabetes	Yes	1.18 (1.08-1.28)	.0002
Dialysis	Yes	1.35 (0.69-2.63)	0.33
Heart failure	Yes	1.19 (1.00-1.43)	0.06
Hyperlipidemia	Yes	1.04 (0.96-1.12)	0.37
Hypertension	Yes	1.11 (1.02-1.20)	0.01
MI	Yes	1.15 (1.03-1.30)	0.02
Renal insufficiency	Yes	1.33 (1.06-1.68)	0.01
Smoking	Yes	0.86 (0.78-0.94)	0.001
Valvular heart disease	Yes	0.77 (0.24-2.50)	0.62
Number of beds ≤ 400 (per 50 beds)		1.09 (1.00-1.19)	0.05

Number of beds > 400 (per 50 beds)		1.01 (0.98-1.04)	0.60
Race (ref. Caucasian)	non-Caucasian	1.10 (0.98-1.23)	0.10
CABG/CT capable hospital	Yes	0.60 (0.38-0.95)	0.03
Rural location	Yes	1.77 (1.09-2.87)	0.02

PPCI – Primary percutaneous coronary intervention, DTB – Door to balloon, OR – odds ratio, CI – Confidence interval, CAD – Coronary artery disease, MI - myocardial infarction, CABG - Coronary artery bypass graft, CT – Cardiothoracic.