

SUPPLEMENTAL MATERIAL

Appendix A. Diagnoses and ICD-9 Codes used to identify index myocardial infarction, comorbidities and procedures

<i>Diagnoses</i>	<i>ICD-9 Codes</i>
Myocardial Infarction	ST-segment elevation MI: ICD-9 Dx codes: 410.0-6, 410.8 5th digit 0 or 1 for all Non-ST segment elevation MI: ICD-9 Dx codes 410.71, 410.70, 410.90, 410.91 5th digit 0 or 1 for all
Chronic Renal Disease	ICD-9 Dx and V codes: 585-586, V420, V451, V56.x
Cancer	ICD-9 Dx and V codes: 140-171.9, 174-195.9, 196-199.9, 200-208.9, 273.0-273.3, V1046
Heart Failure	ICD-9 Dx code: 402.01, 402.11, 402.91, 425.0-9, 428.0-428.9, 429.3, 404.01, 404.03, 404.11, 404.13, 404.91, 404.93
Unstable Angina	ICD-9 Dx codes: 411.x, 413.x
Pulmonary Disease	Chronic Non-Asthmatic Lung Disease: ICD-9 Dx code: 415.0, 416.8, 416.9, 491.0, 492.0, 494.0, 496.0 Asthmatic Lung Disease: ICD-9 Dx code 493.xx
Dementia	ICD-9 Dx code: 290.xx, 331.0-331.2
Diabetes and Diabetes with Complications combined	ICD-9 Dx code: 250.xx
Cerebrovascular Disease	ICD-9 Dx code: 362.34, 430-436.9, 437.0, 437.1, 437.9, 781.4, 784.3 997.0

Peptic Ulcer Disease	ICD-9 Dx code: 531- 534
Mild and Moderate Liver Disease	ICD-9 Dx code: 571.2, 571.5, 571.6, 571.8, 571.9, 572.2-572.4, 456.0x-456.29
Depression	ICD-9 Dx codes: 293.83,296.2,296.3, 296.90, 296.99, 298.0, 300.4,301.12,309.0,309.1,311
Cardiac catheterization	ICD-9 procedure codes, 37.22, 37.23, 88.55, 88.56, 88.57, 88.52, 88.53, 88.54
Percutaneous coronary intervention	ICD-9 procedure codes, 36.06, 36.07, 36.09, 00.66
Drug Eluting Stent	ICD-9 36.07, DRG 526, 527, 246, 247
Coronary artery bypass graft	ICD-9 procedure codes 36.10- 36.19

Appendix B. Prescription Fill Sensitivity Analysis Using Unrestricted Cohort:

Adjusted Probabilities of a Clopidogrel Prescription Fill in the First 7 and First 90 Days Following Hospitalization with Receipt of a Drug Eluting Coronary Artery Stent.

	Clopidogrel Fill 0 to 7	95% CI	Clopidogrel Fill 0 to 90	95% CI
Age 70 to 74	-0.017	[-.036,.001]	-0.009	[-.025,.008]
Age 75 to 79	-.019*	[-.038,-.000]	-0.013	[-.029,.004]
Age 80 to 84	-.032**	[-.053,-.011]	-.029**	[-.048,-.011]
Age >84	-.111**	[-.135,-.086]	-.114**	[-.135,-.093]
Black	-.090**	[-.118,-.063]	-.073**	[-.097,-.049]
Female	-.032**	[-.045,-.018]	-.033**	[-.045,-.021]
Income 2nd Quartile	0.007	[-.013,.027]	0.003	[-.015,.020]
Income 3rd Quartile	-0.016	[-.037,.005]	-0.012	[-.031,.007]
Income Top Quartile	-0.009	[-.032,.015]	-0.011	[-.032,.010]
Poverty	-0.078	[-.187,.030]	-0.082	[-.177,.013]
Co-insurance 10%-19%	-.075**	[-.102,-.047]	-.057**	[-.080,-.033]
Co-insurance 20%-40%	-.031**	[-.049,-.013]	-.018*	[-.034,-.002]
Co-insurance > 40%	0	[-.018,.018]	.018*	[.002,.034]
Stent in 2007 vs. 2006	-0.001	[-.014,.012]	-0.007	[-.018,.005]
Length Of Stay > Median	-.029**	[-.044,-.014]	-.033**	[-.047,-.019]
AMI	.139**	[.125,.153]	.131**	[.120,.143]
Peptic Ulcer	0.019	[-.059,.098]	-0.007	[-.080,.067]
Liver Disease	-0.083	[-.217,.052]	-.136*	[-.271,-.000]
Cerebrovascular Disease	-0.019	[-.059,.020]	0.001	[-.032,.034]
Renal Disease	-.037**	[-.063,-.010]	-.032**	[-.055,-.008]
Congestive Heart Failure	0.003	[-.015,.021]	0.009	[-.006,.025]
Hemorrhage	0.001	[-.058,.060]	0.024	[-.024,.072]
Depression	-.094**	[-.134,-.055]	-.113**	[-.151,-.075]
Diabetes Mellitus	-.017*	[-.032,-.003]	-0.005	[-.018,.007]
Dementia	-.211**	[-.306,-.116]	-.201**	[-.293,-.108]
Pulmonary Disease	-0.003	[-.022,.017]	-0.009	[-.026,.009]
Cancer	-.057**	[-.094,-.020]	-.073**	[-.109,-.038]
Warfarin Prescription	-.025*	[-.047,-.002]	-.033**	[-.054,-.013]
Academic Medical Center	.042*	[.010,.074]	.053**	[.021,.085]

* p<0.05, ** p<0.01

Estimates are the adjusted probabilities obtained using the margin dydx function in STATA 11.0, following logistic regression modeling with random facility level effects.

Appendix C. Prescription Fill Analysis Reported as Odds Ratios

Adjusted Odds of a Clopidogrel Prescription Fill in the First 7 and First 90 Days Following Hospitalization with Receipt of a Drug Eluting Coronary Artery Stent

	Clopidogrel Fill 0 to 7	95% CI	Clopidogrel Fill 0 to 90	95% CI
Age 70 to 74	0.9	[0.8,1.01]	0.93	[0.8,1.08]
Age 75 to 79	0.9	[0.8,1.02]	0.91	[0.78,1.07]
Age 80 to 84	0.83**	[0.72,0.95]	0.8**	[0.68,0.95]
Age >84	0.52**	[0.44,0.61]	0.38**	[0.31,0.45]
Black	0.58**	[0.48,0.69]	0.55**	[0.44,0.68]
Female	0.81**	[0.74,0.89]	0.74**	[0.66,0.83]
Income 2nd Quartile	1.04	[0.92,1.19]	1.03	[0.87,1.21]
Income 3rd Quartile	0.9	[0.78,1.03]	0.91	[0.77,1.08]
Income Top Quartile	0.93	[0.79,1.08]	0.9	[0.74,1.09]
Poverty	0.59	[0.29,1.2]	0.48	[0.2,1.16]
Co-insurance 10%-19%	0.64**	[0.53,0.76]	0.62**	[0.5,0.77]
Co-insurance 20%-40%	0.82**	[0.73,0.92]	0.85**	[0.74,0.98]
Co-insurance > 40%	1.01	[0.9,1.14]	1.21**	[1.04,1.4]
Stent in 2007 vs. 2006	1.01	[0.93,1.1]	0.96	[0.87,1.07]
Length Of Stay > Median	0.84**	[0.77,0.93]	0.76**	[0.67,0.85]
AMI	2.72**	[2.41,3.07]	4.61**	[3.88,5.47]
Peptic Ulcer	1.07	[0.62,1.83]	0.87	[0.46,1.65]
Liver Disease	0.67	[0.32,1.42]	0.42*	[0.19,0.96]
Cerebrovascular Disease	0.9	[0.7,1.15]	1.02	[0.75,1.39]

Renal Disease	0.8**	[0.68,0.94]	0.76**	[0.62,0.92]
Congestive Heart Failure	1	[0.89,1.13]	1.08	[0.93,1.25]
Hemorrhage	0.97	[0.66,1.42]	1.23	[0.74,2.05]
Depression	0.6**	[0.49,0.73]	0.45**	[0.36,0.57]
Diabetes Mellitus	0.91*	[0.83,1]	0.98	[0.87,1.1]
Dementia	0.32**	[0.21,0.51]	0.27**	[0.17,0.45]
Pulmonary Disease	0.99	[0.87,1.13]	0.94	[0.81,1.1]
Cancer	0.75**	[0.61,0.94]	0.59**	[0.46,0.76]
Warfarin Prescription	0.86*	[0.75,0.99]	0.77**	[0.65,0.9]
Academic Medical Center	1.3*	[1.05,1.6]	1.6**	[1.19,2.14]

* p<0.05, ** p<0.01