

Supplemental Figure Legend

Supplemental Figure 1 – Beta-Blocker Prescription by Practice

Among 53 practices in our study cohort, rates of optimal combined prescription of secondary prevention medications ranges from 35.2% to 100%. The median rate of prescription was 78.4%.

CAD: Coronary Artery Disease; MI: Myocardial Infarction

Supplemental Figure 2 – ACEI/ARB Prescription by Practice

Among 56 practices in our study cohort, rates of optimal combined prescription of secondary prevention medications ranges from 39.1% to 100%. The median rate of prescription was 75.5%.

ACEI: Angiotensin Converting Enzyme Inhibitor; ARB: Angiotensin Receptor Blockers; CAD: Coronary Artery Disease; DM: Diabetes Mellitus; LVEF: Left Ventricular Ejection Fraction

Supplemental Figure 3 – Statin Prescription by Practice

Among 47 practices in our study cohort, rates of optimal combined prescription of secondary prevention medications ranges from 10.7% to 100%. The median rate of prescription was 73.3%.

CAD: Coronary Artery Disease; LDL: Low-Density Lipoprotein

Supplemental Table 1 - Patient Characteristics by Beta-Blocker Prescription

	Beta Blocker in CAD patients		P-Value
	Yes n =63800	No n =23199	
Age	67.9 +/- 12.5	66.8 +/- 14.1	<0.001
Male	41307 (64.9%)	13366 (57.7%)	<0.001
Race			<0.001
White	24865 (39.0%)	8028 (34.6%)	
Black	1873 (2.9%)	560 (2.4%)	
Other	198 (0.3%)	64 (0.3%)	
Missing	36864 (57.8%)	14547 (62.7%)	

	Beta Blocker in CAD patients		P-Value
	Yes n =63800	No n =23199	
Insurance			<0.001
None	2371 (3.7%)	909 (3.9%)	
Private	32633 (51.1%)	13435 (57.9%)	
Public	6904 (29.8%)		
Unknown	23129 (36.3%)	1951 (8.4%)	
	5667 (8.9%)		
Current Tobacco Use			<0.001
Yes	10179 (16.0%)	4061 (17.5%)	
No		14978 (64.6%)	
Unknown	45086 (70.7%)	4160 (17.9%)	
	8535 (13.4%)		
Heart Failure	25759 (40.4%)	7990 (34.4%)	<0.001

	Beta Blocker in CAD patients		P-Value
	Yes n =63800	No n =23199	
Dyslipidemia	50429 (79.0%)	15499 (66.8%)	<0.001
Diabetes	17232 (27.0%)	4642 (20.0%)	<0.001
Hypertension	51001 (80.0%)	16292 (70.3%)	<0.001
PAD	13077 (20.5%)	3861 (16.6%)	<0.001
Prior Stroke/TIA	9029 (14.2%)	2886 (12.4%)	<0.001
Angina	8519 (13.4%)	1914 (8.3%)	<0.001
Atrial Fibrillation	11417 (17.9%)	3733 (16.1%)	<0.001

	Beta Blocker in CAD patients		P-Value
	N=86999		
	Yes n =63800	No n =23199	
PCI within 12 months			<0.001
Yes	15692	4513 (19.5%)	
No	(24.6%)	16120 (69.5%)	
Unknown	42913 (67.3%)	2566 (11.1%)	
	5195 (8.1%)		
CABG within 12 months			<0.001
Yes	10028 (15.7%)	3950 (17.0%) 16684 (71.9%)	
No	48537 (76.1%)	2565 (11.1%)	
Unknown	5235 (8.2%)		

	Beta Blocker in CAD patients		P-Value
	Yes n =63800	No n =23199	
MI within 12 months			<0.001
Yes	27810	11336 (48.9%)	
No	(43.6%)	9448 (40.7%)	
Unknown	31500	2415 (10.4%)	
	(49.4%)		
	4490 (7.0%)		

*PAD: Peripheral Arterial Disease

† TIA: Transient Ischemic Attack

‡ PCI: Percutaneous Coronary Intervention

§ CABG: Coronary Artery Bypass Graft

□ MI: Myocardial Infarction

Supplemental Table 2 - Patient Characteristics by ACEI/ARB Prescription

	ACE/ARB in patients with C		P-Value
	AD and with DM or LVEF <= 40%		
	N=80552		
	Yes n =559 33	No n =24619	
Age	68.6 +/- 11.1	68.5 +/- 12.5	0.293
Male	35513 (63.7%)	14085 (57.4%)	<0.001
Race			<0.001
White	22209 (39.7%)	9297 (37.8%)	
Black		1439 (5.8%)	
Other	3317 (5.9%)	128 (0.5%)	
Missing	265 (0.5%) 30142 (53.9%)	13755 (55.9%)	

	ACE/ARB in patients with C		P-Value
	AD and with DM or LVEF <= 40% N=80552		
	Yes n =559 33	No n =24619	
Insurance			<0.001
None	1813 (3.2%)	881 (3.6%)	
Private	28756 (51.4%)	14278 (58.0%)	
Public	8590 (34.9%)		
Unknown	22222 (39.7%) 3142 (5.6%)	870 (3.5%)	
Current Tobacco Use			<0.001
Yes	7339 (13.1%)	3136 (12.7%)	
No	40854 (73.0%)	17529 (71.2%)	
Unknown	7740 (13.8%)	3954 (16.1%)	
Heart Failure	23637 (42.3%)	9004 (36.6%)	<0.001

	ACE/ARB in patients with C		
	AD and with DM or LVEF <= 40% N=80552		
	Yes n =559 33	No n =24619	P-Value
Dyslipidemia	46685 (83.5%)	19443 (79.0%)	<0.001
Diabetes	48679 (87.0%)	22366 (90.9%)	<0.001
Hypertension	49986 (89.4%)	20427 (83.1%)	<0.001
PAD	11473 (20.5%)	4756 (19.3%)	<0.001
Prior Stroke/TIA	9387 (16.8%)	4374 (17.8%)	<0.001
Angina	8143 (14.6%)	3306 (13.5%)	<0.001
Atrial Fibrillation	10718 (19.2%)	4828 (19.6%)	0.134

	ACE/ARB in patients with C		P-Value
	AD and with DM or LVEF <= 40% N=80552		
	Yes n =559 33	No n =24619	
PCI within 12 months			<0.001
Yes	11779	4509 (18.3%)	
No	(21.1%)	19411 (78.8%)	
Unknown	41946 (75.0%) 2208 (3.9%)	699 (2.8%)	
CABG within 12 months			<0.001
Yes	7642 (13.7%)	4621 (18.8%)	
No	46083 (82.4%)	19286 (78.3%) 712 (2.9%)	
Unknown	2208 (3.9%)		
MI within 12 months			<0.001
Yes	7475 (13.4%)	3543 (14.4%)	
No	46270 (82.7%)	20320 (82.5%)	
Unknown	2188 (3.9%)	756 (3.1%)	

*PAD: Peripheral Arterial Disease

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Supplemental Table 3 - Patient Characteristics by Statin Prescription

	Statin among patients with CAD and LDL>100 N=27628		P-Value
	Yes n =188 33	No n =8795	
Age	65.5 +/- 11.9	66.4 +/- 13.6	<0.001
Male	10890 (58.1%)	4194 (47.9%)	<0.001
Race			<0.001
White	7492 (39.8%)	3205 (36.4%)	
Black	1362 (7.2%)	542 (6.2%)	
Other	88 (0.5%)	25 (0.3%)	
Missing	9891 (52.5%)	5023 (57.1%)	
Insurance			<0.001
None	1150 (6.1%)	518 (5.9%)	
Private	11182 (59.4%)	5217 (59.3%)	
Public	5481 (29.1%)	2443 (27.8%)	
Unknown	1020 (5.4%)	617 (7.0%)	
Current Tobacco Use			<0.001
Yes	2894 (15.4%)	989 (11.2%)	
No	13897 (73.8%)	6578 (74.8%)	
Unknown	2042 (10.8%)	1228 (14.0%)	

	Statin among patients with CAD and LDL>100 N=27628		P-Value
	Yes n =188 33	No n =8795	
Heart Failure	4703 (25.0%)	2163 (24.6%)	0.493
Dyslipidemia	17314 (91.9%)	6504 (74.0%)	<0.001
Diabetes	4403 (23.4%)	1556 (17.7%)	<0.001
Hypertension	14435 (76.7%)	6349 (72.3%)	<0.001
PAD	2980 (15.8%)	956 (10.9%)	<0.001
Prior Stroke/TIA	1408 (7.5%)	832 (9.5%)	<0.001
Angina	3104 (16.5%)	1177 (13.4%)	<0.001
Atrial Fibrillation	2290 (12.2%)	1632 (18.6%)	<0.001
PCI within 12 months			<0.001
Yes	3532 (18.8%)	980 (11.1%)	
No	14181 (75.3%)	6992 (79.5%)	
Unknown	1120 (5.9%)	823 (9.4%)	
CABG within 12 months			<0.001
Yes	14656 (77.8%)	5954 (67.7%)	
No	1110 (5.9%)	822 (9.3%)	
Unknown			

	Statin among patients with CAD and LDL>100 N=27628		P-Value
	Yes n =188 33	No n =8795	
MI within 12 months			<0.001
Yes	3051 (16.2%)	1263 (14.4%)	
No	14798 (78.6%)	6718 (76.4%)	
Unknown	984 (5.2%)	814 (9.3%)	

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Supplemental Table 4 - Practice and Patient Factors Associated with Individual Prescription of
Secondary Prevention Medications Following Multivariable Adjustment

	Beta-Blockers	ACEI/ARB	Statins
	Rate Ratio (95% CI)	Rate Ratio (95% CI)	Rate Ratio (95% CI)
Practice Median Rate Ratio	1.20 (1.16, 1.28)*	1.19 (1.15, 1.26)*	1.31 (1.24, 1.44)*
Age: 65 < 75	1.00 (0.98, 1.03)	1.02 (0.99, 1.05)	1.00 (0.98, 1.02)
Age: >= 75	1.01 (0.97, 1.05)	0.97 (0.93, 1.00)	0.94 (0.91, 0.98)*
Female	0.95 (0.93, 0.97)*	0.93 (0.91, 0.96)*	0.91 (0.89, 0.94)*
Insurance: Private	1.00 (0.95, 1.05)	1.01 (0.96, 1.06)	1.00 (0.96, 1.05)
Insurance: Public	1.02 (0.97, 1.07)	1.02 (0.97, 1.07)	1.00 (0.94, 1.07)
Insurance: Unknown	1.03 (0.95, 1.12)	1.04 (0.99, 1.10)	1.00 (0.94, 1.07)
A-fib	1.03 (1.00, 1.05)	0.98 (0.96, 1.01)	0.87 (0.85, 0.90)*
Dyslipidemia	1.11 (1.07, 1.16)*	1.10 (1.05, 1.15)*	1.84 (1.37,

			2.46)*
Hypertension	1.12 (1.08, 1.17)*	1.22 (1.11, 1.35)*	1.03 (1.00, 1.07)
PAD	1.07 (1.03, 1.10)*	1.05 (1.00, 1.09)	1.08 (1.03, 1.14)*
Prior stroke	0.98 (0.96, 0.99)*	0.96 (0.94, 0.98)*	0.93 (0.90, 0.96)*
Angina	1.06 (1.03, 1.09)*	0.99 (0.96, 1.02)	1.01 (0.97, 1.05)
MI w/in 12 months: Yes	0.96 (0.92, 1.02)	0.98 (0.94, 1.02)	1.01 (0.96, 1.05)
MI w/in 12 months: Unknown	0.79 (0.73, 0.85)*	0.94 (0.88, 1.01)	0.74 (0.57, 0.97)*
Current Smoker: Yes	1.02 (1.00, 1.03)	0.98 (0.96, 1.00)	1.05 (1.02, 1.08)*
Current Smoker: Unknown	0.94 (0.89, 1.00)	0.97 (0.94, 1.00)	1.02 (0.98, 1.05)
CABG w/in 12 months: Yes	0.97 (0.89, 1.05)	0.90 (0.79, 1.02)	0.90 (0.78, 1.04)
CABG w/in 12 Months:	0.91 (0.83, 0.99)*	0.91 (0.83, 0.99)*	0.90 (0.79, 1.02)

Unknown			
PCI w/in 12 months: Yes	1.08 (1.05, 1.11)*	1.05 (1.02, 1.09)*	1.11 (1.08, 1.14)*
PCI w/in 12 months: Unknown	0.98 (0.92, 1.05)	1.07 (1.01, 1.13)*	1.10 (0.97, 1.24)
Diabetes	1.05 (1.03, 1.07)*	0.89 (0.86, 0.91)*	1.06 (1.02, 1.10)*
Heart Failure	1.09 (1.04, 1.15)*	1.05 (1.02, 1.08)*	0.96 (0.93, 0.99)*

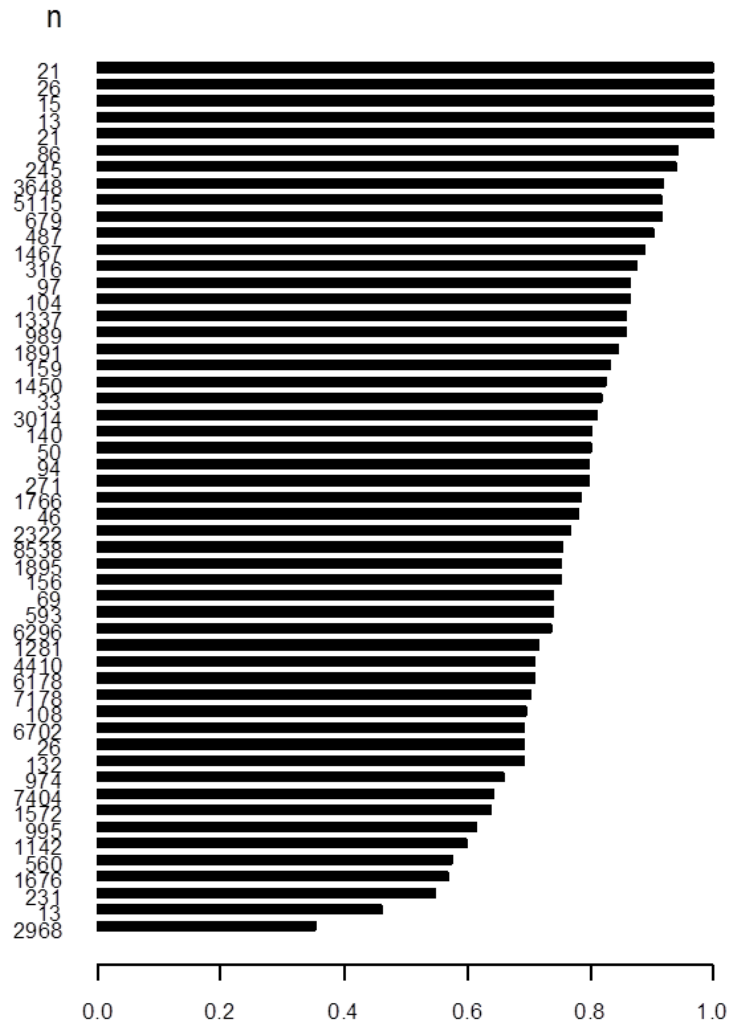
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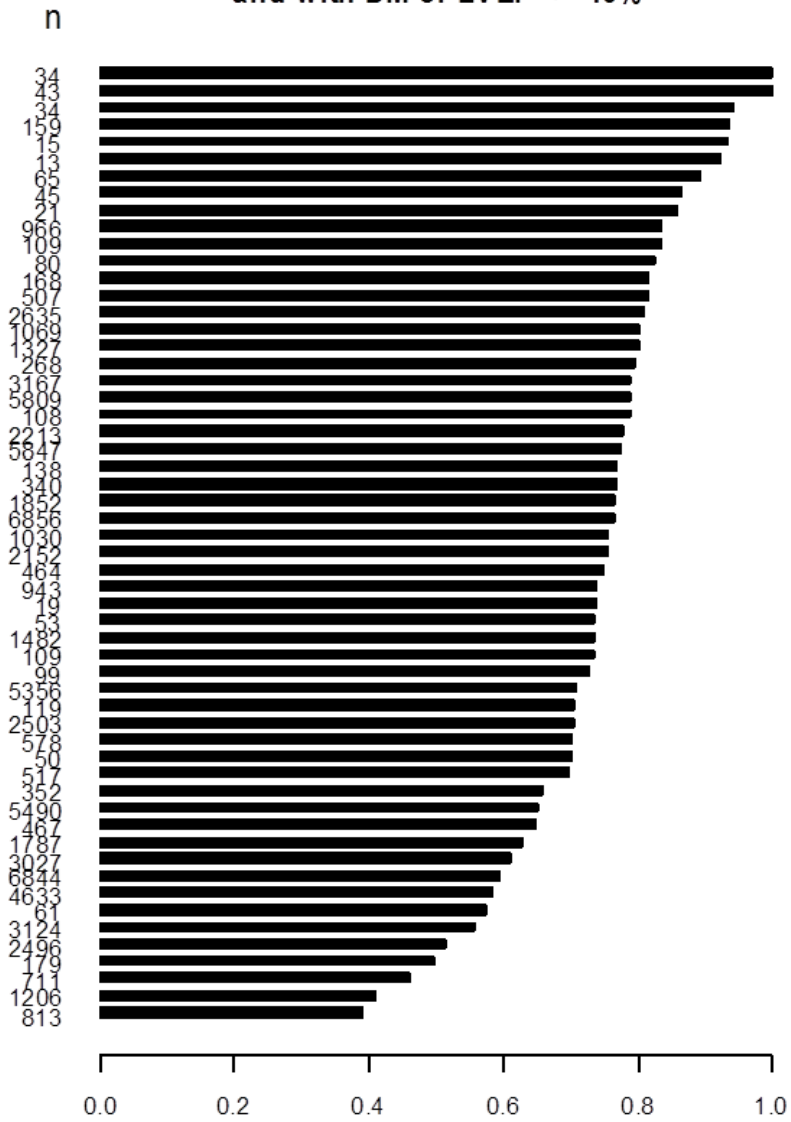
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Beta Blocker Rate in patients with CAD and MI history



ACE/ARB in patients with CAD
and with DM or LVEF <= 40%



Statin in patients with CAD and LDL > 100

