

Supplementary Table 1: ICD 9 CM Codes Used in Our Study

Variable Name	ICD 9 CM Code
Smoking	v15.82, 305.1
Family History of Coronary Artery Disease	v17.3
Prior Myocardial Infarction	412
Acute Renal Failure	584
Any Stroke	430, 431, 432, 997.02, 433.01, 433.11, 433.21, 433.31, 433.81, 433.91, 434.01, 434.11, 434.91, or 436
Blood Loss Requiring Transfusion	998.11, 998.12, 285.1, 99.0

Supplementary Table 2: Deyo's Modification of Charlson's Co-morbidity Index (CCI).

Condition	ICD 9 Code	Charlson Score
Myocardial infarction	410 – 410.9	1
Congestive heart failure	428 – 428.9	1
Peripheral vascular disease	433.9, 441 – 441.9, 785.4, V43.4	1
Cerebrovascular disease	430 – 438	1
Dementia	290 – 290.9	1
Chronic pulmonary disease	490 – 496, 500 – 505, 506.4	1
Rheumatologic disease	710.0, 710.1, 710.4, 714.0 – 714.2, 714.81, 725	1
Peptic ulcer disease	531 – 534.9	1
Mild liver disease	571.2, 571.5, 571.6, 571.4 – 571.49	1
Diabetes	250 – 250.3, 250.7	1
Diabetes with chronic complications	250.4 – 250.6	2
Hemiplegia or paraplegia	344.1, 342 – 342.9	2
Renal disease	582 – 582.9, 583 – 583.7, 585, 586, 588 – 588.9	2
Any malignancy including leukemia and Lymphoma	140-172.9, 174-195.8, 200-208.9	2
Moderate or severe liver disease	572.2 – 572.8	3
Metastatic solid tumor	196-199.1	6
AIDS	042 – 044.9	6

Supplementary Table 3: Demographics and Baseline Characteristics After Propensity Score Matched Cohorts

Variable Name	No Atherectomy (N=11,037)	Atherectomy (N=11,037)	Standardized Difference
Age (Years)	69.7±11.6	69.7±11.7	0.3%
Race:			
White	62.9%	62.4%	4.5%
Black	18.8%	18.4%	
Hispanic	12.6%	13.1%	
Asian	1.4%	1.2%	
Other	4.3%	4.9%	
Gender:			
Male	56%	57%	2.0%
Female	44%	43%	
Charlson's/Deyo Comorbidity Index:			
≤2	42.5%	42.4%	0.7%
≥3	57.5%	57.6%	
Comorbidities:			
Diabetes Mellitus (uncomplicated)	27.7%	27.8%	0.1%
Diabetes Mellitus (with chronic complications)	27.8%	28.8%	2.0%
Hypertension	81.3%	80.8%	1.2%
Liver Disease	1.1%	1.5%	3.4%
Fluid and Electrolytes Disorder	20%	20.6%	1.6%
Other Neurological Disorder	5.5%	5.7%	1.0%
Obesity	10.7%	11.1%	1.2%
Valvular Disease	1.7%	1.5%	1.5%
Smoking	20.1%	20.6%	1.3%
Alcohol	2.4%	2.2%	1.5%
Prior MI	10%	10.9%	2.7%
Family History of CAD	2.5%	2.6%	0.5%
Coagulopathy	3.2%	3.9%	3.9%
Chronic Pulmonary Disease	20.5%	20.6%	0.3%
Congestive Heart Failure	5%	5.7%	3.3%
Renal failure	34.6%	34%	1.2%

MI- Myocardial Infarction, CAD- Coronary Artery Disease