

Supplementary table 1: Baseline characteristics of global population (Including medical, surgical and percutaneous treatment).

SUPPLEMENTARY TABLE 1: BASELINE CHARACTERISTICS OF GLOBAL POPULATION (Including medical, surgical and percutaneous treatment)				
BASELINE CHARACTERISTICS	Total (n=667)	Ostial LCx (n=240)	Ostial LAD (n=427)	p
Age (years), mean±SD	69.1±12.2	71.4 ±10.8	67.8±12.8	<0.001
Female, n (%)	165 (24.7)	65 (27.1)	100 (23.3)	0.277
BMI, mean±SD	27.1±4.9	27.7±4.8	26.9±4.9	0.046
CARDIOVASCULAR RISK FACTORS				
Hypertension, n(%)	461 (68.9)	182 (75.8)	279 (65.0)	0.004
Dyslipidemia, n(%)	355 (53.1)	137 (57.1)	218 (50.8)	0.119
Diabetes, n(%)	220 (32.9)	89 (37.1)	131 (30.5)	0.084
Smoking history, n(%)	333 (49.9)	111 (46.3)	222 (52.0)	0.155
PREVIOUS HISTORY				
Previous AMI, n(%)	302 (45.2)	139 (60.6)	163 (38.2)	<0.001
Previous PCI, n(%)	132 (19.7)	64 (26.7)	68 (15.9)	0.001
Previous stroke, n(%)	57 (8.5)	22 (9.2)	35 (8.2)	0.654
Peripheral vascular disease, n(%)	72 (10.8)	26 (10.8)	46 (10.7)	0.965
CKD, n(%)	84 (12.6)	36 (15.0)	48 (11.2)	0.154
CLINICAL PRESENTATION AND ANGIOGRAPHIC CHARACTERISTICS				
Acute coronary syndrome, n(%)	436 (65.3)	144 (60.0)	292 (68.3)	0.031
Stable angina, n(%)	288 (43.2)	122 (50.8)	166 (38.9)	0.005
Severe multivessel disease, n(%)	328 (49.2)	139 (57.9)	189 (44.3)	0.001

LCx: left circumflex; LAD: left descending anterior; SD: standard deviation; BMI: body mass index; AMI: acute myocardial infarction; PCI: **percutaneous coronary intervention**; CKD: chronic kidney disease.

Chi square test was performed to binary data, data expressed by absolute numbers and percentages; Fisher test was performed in cases with n<5 in some group. Student's t-test was performed to quantitative variables, data expressed by mean and standard deviation.

Supplementary table 2: standardized mean differences between groups Pre-matching.

	LAD (240)	LCx (47)	SMD
Dilated lesion (mean (SD))	0.82 (0.39)	0.87(0.34)	0.146
Sex (mean (SD))	0.24 (0.43)	0.17(0.38)	0.181
Age (mean (SD))	66.46(13.57)	71.13 (12.60)	0.357
Body mass index (mean (SD))	26.00(4.93)	28.50(5.40)	0.483
Prior CABG (mean (SD))	0.02(0.14)	0.13 (0.34)	0.411
Prior MI (mean (SD))	0.21 (0.41)	0.47(0.50)	0.562
Prior PCI (mean (SD))	0.18 (0.38)	0.43(0.50)	0.560
Arterial hypertension (mean (SD))	0.60(0.49)	0.79(0.41)	0.420
Hyperlipidaemia (mean (SD))	0.46(0.50)	0.60(0.50)	0.268
Diabetes mellitus (mean (SD))	0.21(0.41)	0.32(0.47)	0.247
Smoking (mean (SD))	0.55(0.50)	0.53(0.50)	0.045
Peripheral vascular disease (mean (SD))	0.09(0.28)	0.11(0.31)	0.061
Prior stroke (mean (SD))	0.05(0.21)	0.04(0.20)	0.018
CKD (mean (SD))	0.08(0.28)	0.19(0.40)	0.313
Acute coronary syndrome (mean (SD))	0.79(0.41)	0.68(0.47)	0.237
ACS type (mean (SD))	1.06(0.70)	0.96(0.78)	0.137
Prior PCI with stent (mean (SD))	0.92(0.26)	0.87(0.34)	0.172
Prior 1 lesion PCI (mean (SD))	0.62(0.49)	0.49(0.51)	0.259
Procedural success (mean (SD))	0.95(0.22)	0.94(0.25)	0.057
Prior stent (mean (SD))	0.91(0.28)	0.96(0.20)	0.185

LAD: left anterior descending, LCX: left circumflex, SMD: standardized mean differences, SD: standard deviation, CABG: coronary artery bypass grafting; MI: myocardial infarction; PCI: percutaneous coronary intervention, CKD: chronic kidney disease. ACS: acute coronary syndrome.

Supplementary table 3: standardized mean differences post-matching.

	Means LAD	Means LCx	Std. Mean Diff.	p-value (difference between groups)
DISTANCE	0.3409	0.278	0.2466	
Dilated lesion (mean (SD))	0.8723	0.9787	-0.3188	0.05158
Sex (mean (SD))	0.1702	0.1915	-0.0566	0.7914
Age (mean (SD))	71.1277	73.3404	-0.1756	0.3681
Body mass index (mean (SD))	28.5001	28.512	-0.0022	0.9899
Prior CABG (mean (SD))	0.1277	0.0851	0.1275	0.5087
Prior MI (mean (SD))	0.4681	0.383	0.1706	0.4095
Prior PCI (mean (SD))	0.4255	0.4255	0	>0.99
Arterial hypertension (mean (SD))	0.7872	0.8298	-0.104	0.6047
Hyperlipidaemia (mean (SD))	0.5957	0.5319	0.1301	0.5377
Diabetes mellitus (mean (SD))	0.3191	0.3404	-0.0456	0.8286
Smoking (mean (SD))	0.5319	0.5532	-0.0426	0.8381
Peripheral vascular disease (mean (SD))	0.1064	0.0638	0.138	0.4652
Prior stroke (mean (SD))	0.0426	0.0213	0.1054	0.5624
CKD (mean (SD))	0.1915	0.1489	0.1081	0.5878
Acute coronary syndrome (mean (SD))	0.6809	0.6809	0	>0.99
ACS type (mean (SD))	0.9574	0.8936	0.0819	0.6827
Prior PCI with stent (mean (SD))	0.8723	0.9149	-0.1275	0.5087
Prior 1 lesion PCI (mean (SD))	0.4894	0.5532	-0.1277	0.5407
Procedural success (mean (SD))	0.9362	0.9149	0.087	0.6982
Prior stent (mean (SD))	0.9574	0.9149	0.2108	0.4044

LAD: left anterior descending, LCX: left circumflex, Std. Mean Diff.: standardized mean differences, SD: standard deviation, CABG: coronary artery bypass grafting; MI: myocardial infarction; PCI: percutaneous coronary intervention, CKD: chronic kidney disease. ACS: acute coronary syndrome.

Supplementary table 4: Differences in bifurcation angle with LMCA according to vessel (LAD vs. LCx)

Differences in bifurcation angle with LMCA according to vessel (LAD vs. LCx) P=0.002			
	n	Mean ± SD	CI95%
Angle LAD-LMCA (°)	23	128.4 ±22.9	118.5-138.3
Angle LCx-LMCA (°)	34	107.5 ±23.5	99.3-115.7

LMCA: left main coronary artery; LAD: left anterior descending; LCX: left circumflex; SD: standard deviation; CI: confidence interval.
#Student's t-test, data expressed by mean and standard deviation.