

Supplementary material

Vassilev D, Mileva N, Panayotov P, et al. Side branch predilatation during percutaneous coronary bifurcation intervention: Long-term mortality analysis. Pol Heart J. 2024.

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Table S1. Unmatched population demographic characteristics

Patient characteristics	Total	SBPD(+)	SBPD(-)	P-value
Age, years	67 (10)	67 (10)	67 (10)	0.95
Sex, males, n (%)	569 (70)	230 (71)	342 (70)	0.67
Hypertension, n (%)	805 (99)	320 (99)	479 (98)	0.25
Hyperlipidemia, n (%)	781 (96)	311 (96)	455 (93)	0.12
Diabetes, n (%)	325 (40)	152 (47)	181 (37)	0.01
Renal failure, n (%)	252 (31)	103 (32)	142 (29)	0.38
Smoking, n (%)	333 (41)	136 (42)	205 (42)	0.99
Previous stroke, n (%)	130 (16)	49 (15)	78 (16)	0.81
Peripheral artery disease, n (%)	317(39)	39 (12)	39 (8)	0.07
Previous myocardial infarction, n (%)	228 (28)	84 (26)	137 (28)	0.52
Previous PCI, n (%)	398 (49)	171 (53)	230 (47)	0.06

COPD, n (%)	106 (13)	42 (13)	63 (13)	0.92
Atrial fibrillation, n (%)	179 (22)	74 (23)	98 (20)	0.42
DOAC, n (%)	57 (7)	29 (9)	24 (5)	0.032
Clopidogrel treatment	659 (81)	249 (77)	425 (87)	<0.001
LV ejection fraction, %	56 (10)	55 (10)	56 (9)	0.047

Abbreviations: COPD, chronic obstructive pulmonary disease; DOAC, direct oral anticoagulant; LV, left ventricle; PCI, percutaneous coronary intervention

Table S2. Whole group angiographic and procedural characteristics

Angiographic parameter	SBPD(+)	SBPD(-)	P-value
SYNTAX score	13 (7)	12 (6)	<0.001
pMV RVD, mm	3.36 (0.41)	3.37 (0.42)	<0.001
pMV %DS, %	62 (29)	55 (31)	<0.001
dMV RVD, mm	2.89 (0.37)	3.23 (0.52)	0.12
dMV %DS, %	71 (24)	68 (24)	0.06
SB RVD, mm	2.36 (0.31)	2.36 (0.91)	0.91
SB %DS, %	68 (25)	40 (31)	<0.001
SB %DS, %, after stenting	42 (36)	48 (33)	0.02
SB %DS, %, final	20 (29)	33 (31)	<0.001
Lesion length, mm	42 (21)	34 (19)	<0.001
MB postdilatation, POT, (%)	249 (77%)	303 (62%)	<0.001

KBI, n (%)	165 (51%)	106 (22%)	<0.001
Multivessel disease, n (%)	249 (77%)	308 (63%)	<0.001

Abbreviations: %DS, percentage diameter stenosis; dMV, distal main vessel; KBI, kissing balloon inflation; pMV, proximal main vessel; POT, proximal optimization technique; RVD, reference vessel diameter; SB, side branch; SBPD, side branch pre-dilatation;

Table S3. Factors influencing the performance of SBPD

Parameter	C-statistics	95% CI	P-value
SB %DS $\geq 65\%$	$c = 0.770$	0.612–0.858	<0.001
pMV RVD ≤ 3.3 mm	$c = 0.574$	0.401–0.719	0.001
pMV %DS $\geq 70\%$	$c = 0.569$	0.398–0.721	0.002
dMV RVD ≤ 3.0 mm	$c = 0.590$	0.501–0.811	0.001
dMV %DS $\geq 70\%$	$c = 0.547$	0.211–0.855	0.03
Lesion length ≥ 25 mm	$c = 0.617$	0.490–0.762	0.001
SYNTAX score ≥ 11	$c = 0.587$	0.432–0.792	0.001

Abbreviations: dMV %DS, distal main vessel percentage diameter stenosis; dMV RVD, distal main vessel reference vessel diameter; pMV %DS, proximal main vessel percentage diameter stenosis; pMV RVD, proximal main vessel reference vessel diameter; SB %DS, side branch percentage diameter stenosis

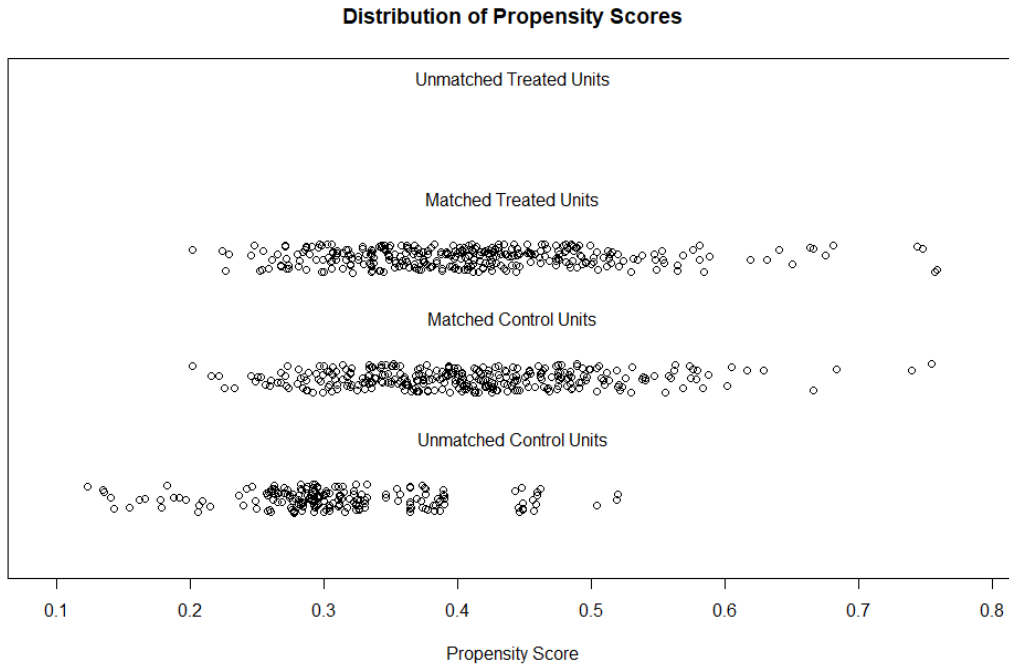


Figure S1. Distribution of the propensity scores in the unmatched and matched cohort

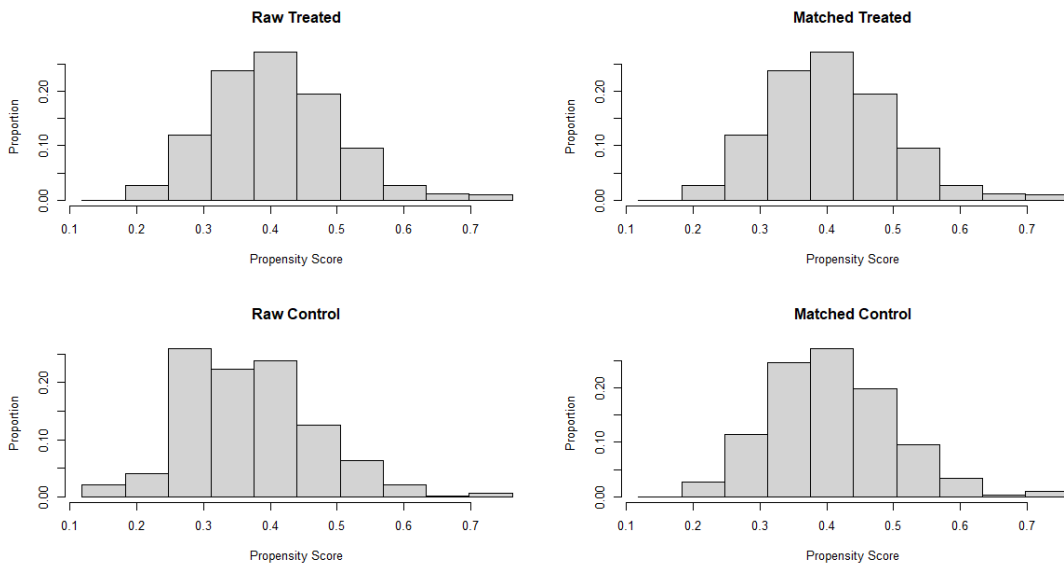


Figure S2. Distribution of the propensity scores in the unmatched and matched cohort