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SUPPLEMENTAL DATA

Yan et al: 2-year DCB outcomes in TASC C/D IPADs

Drug-coated balloon treatment for tasc c/d infrapopliteal disease: Two-year matched cohort outcomes

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Table S1. Preoperative data before propensity score matching

Variable	Unit of observation	DCB group	POB group	p value
Duplicate patient	Target lesion (n=107/171)	25 (23.4)	32 (18.7)	0.363
Duplicate limb		13 (12.2)	12 (7.0)	0.195
Duplicate artery [†]		4 (3.7)	3 (1.8)	0.435
Restenosis		20 (18.7)	31 (18.1)	1.000
Previous revascularization	Limb (n=94/159)	22 (23.4)	36 (22.6)	0.878
Left side		48 (51.1)	83 (52.2)	0.897
Preoperative RC				0.536
3		5 (5.3)	3 (1.9)	
4		29 (30.8)	50 (31.4)	
5		40 (42.6)	70 (44.0)	
6		20 (21.3)	36 (22.6)	
Preoperative ABI [‡]		0.40±0.13	0.37±0.14	0.131
Preoperative ABI exceeding 1.4		6 (6.4)	6 (3.8)	0.370
Age (year)	Patient (n=82/139)	72.8±8.0	71.7±7.8	0.337
Male		52 (63.4)	83 (59.7)	0.669
Body mass index		25.2±2.1	24.4±2.2	0.009*
Hypertension		70 (85.4)	101 (72.7)	0.031*
Diabetes mellitus		72 (87.8)	129 (92.8)	0.231
Dyslipidemia		46 (56.1)	54 (38.8)	0.017*
Coronary heart disease		45 (54.9)	85 (61.2)	0.397
Auricular fibrillation		16 (19.5)	46 (33.1)	0.031*
Chronic kidney disease		16 (19.5)	35 (25.2)	0.409
Chronic lung disease		10 (12.2)	25 (18.0)	0.340
Anaemia		41 (50.0)	61 (43.9)	0.404
Previous cerebral infarction		27 (32.9)	41 (29.5)	0.652
Previous myocardial infarction		11 (13.4)	27 (19.4)	0.275
Current smoking		38 (46.3)	44 (31.7)	0.032*
Previous smoking		61 (74.4)	88 (63.3)	0.103
Preoperative statin [§]		39 (47.6)	60 (43.2)	0.576
Preoperative antiplatelet [§]		42 (51.2)	68 (48.9)	0.782

Observations are presented as “n (%)” or “x, ± standard deviation”. RC: Rutherford classification; ABI: ankle brachial index; DCB: drug coated balloon; POB: plain old balloon. [†]103 and 168 arteries respectively; [‡]6 excluded observations due to ABI values of more than 1.4 respectively; [§]lasted at least 6 months; * significant statistical difference due to a p-value of less than 0.05.

Table S2. Intra- and postoperative data before propensity score matching

Variable	Unit of observation	DCB group	POB group	p value
Arterial location	Target lesion (n=107/171)			0.481
Anterior tibial		38 (35.5)	61 (35.7)	
Peroneal		6 (5.6)	12 (7.0)	
Posterior tibial		34 (31.8)	50 (29.2)	
Tibiofibular trunk - peroneal		15 (14.0)	15 (8.8)	
Tibiofibular trunk - posterior tibial		14 (13.1)	33 (19.3)	
Calcification classification				0.607
0		4 (3.7)	5 (2.9)	
1		9 (8.4)	13 (7.6)	
2		29 (27.1)	62 (36.3)	
3		46 (43.0)	66 (38.6)	
4		19 (17.8)	25 (14.6)	
Chronic total occlusion		53 (49.5)	99 (57.9)	0.176
Length (mm)		154.3±37.2	158.1±32.3	0.374
Reference vessel diameter (mm)		2.54±0.11	2.53±0.12	0.648
Maximum balloon diameter (mm)		2.98±0.24	2.94±0.28	0.118
Maximum dilatation pressure (atm)		13.20±0.85	13.34±0.70	0.141
No. of dilatation		2.79±0.71	2.91±0.62	0.166
Dilatation duration (sec)		493.8±131.3	510.0±110.0	0.271
Subintimal angioplasty		22 (20.6)	46 (26.9)	0.254
Retrograde angioplasty		12 (11.2)	28 (16.4)	0.293
Crossover		8 (7.5)	21 (12.3)	0.231
Stent implantation		1 (0.9)	0 (0)	0.385
Dissection				0.815
A		12 (11.2)	18 (10.5)	
B		8 (7.5)	9 (5.3)	
C		4 (3.7)	4 (2.3)	
D		1 (0.9)	1 (0.6)	
Device success		107 (100)	171 (100)	1.000
Technical success		105 (98.1)	166 (97.1)	0.711
TASC classification	Limb (n=94/159)			0.295
C		57 (60.6)	85 (53.5)	
D		37 (39.4)	74 (46.5)	
Complete infrapopliteal artery before intervention [†]				0.595
0		54 (57.4)	98 (61.6)	
1		40 (42.6)	61 (38.4)	
Intervention to suprapopliteal arteries		15 (16.0)	22 (13.9)	0.714
Complete infrapopliteal artery after intervention [†]				0.333
1		8 (8.5)	10 (6.3)	
2		56 (59.6)	84 (52.8)	
3		30 (31.9)	65 (40.9)	
Postoperative statin [‡]	Patient	76 (92.7)	115 (82.7)	0.042*

	(n=82/139)			
Postoperative antiplatelet [‡]		77 (93.9)	123 (88.5)	0.238
Serious complications		1 (1.2)	1 (0.7)	1.000
Minor complication: acute kidney injury		7 (7.4)	15 (9.4)	0.651
Minor complication: minor bleeding		3 (3.2)	3 (1.9)	0.673
Minor complication: puncture related problem		3 (3.2)	5 (3.1)	1.000

Observations are presented as “n (%)” or “ $\bar{x} \pm$ standard deviation”. TASC: Trans-Atlantic Inter-Society Consensus; DCB: drug coated balloon; POB: plain old balloon. [†]infrapopliteal artery directly reaching foot without stenosis of more than 30%; [‡]lasted at least 6 months; * significant statistical difference due to a p-value of less than 0.05.

Table S3. Preoperative data based on limb in the analyses of major amputation

Variable	Before propensity score matching			After propensity score matching		
	DCB group (n=94)	POB group (n=159)	p value	DCB group (n=89)	POB group (n=132)	p value
Restenosis	15 (16.0)	31 (19.5)	0.506	14 (15.7)	28 (21.2)	0.383
Duplicate patient	12 (12.8)	20 (12.6)	1.000	12 (13.5)	16 (12.1)	0.838
Previous revascularization	23 (24.5)	36 (22.6)	0.760	22 (24.7)	32 (24.2)	1.000
Left side	48 (51.1)	84 (52.8)	0.796	44 (49.4)	72 (54.6)	0.494
Preoperative RC			0.536			0.952
3	5 (5.3)	3 (1.9)		3 (3.4)	3 (2.3)	
4	29 (30.8)	50 (31.4)		27 (30.3)	39 (29.6)	
5	40 (42.6)	70 (44.0)		39 (43.8)	58 (43.9)	
6	20 (21.3)	36 (22.6)		20 (22.5)	32 (24.2)	
Preoperative ABI [†]	0.40±0.13	0.37±0.14	0.123	0.39±0.13	0.36±0.14	0.128
Preoperative ABI exceeding 1.4	6 (6.4)	6 (3.8)	0.370	6 (6.7)	5 (3.8)	0.357
Age (year)	73.0±7.8	71.8±7.6	0.219	73.1±7.8	72.6±7.6	0.575
Male	61 (64.9)	96 (60.4)	0.505	59 (66.3)	86 (65.2)	0.886
BMI	25.2±2.0	24.4±2.2	0.007*	25.0±2.0	24.6±2.2	0.097
Hypertension	82 (87.2)	115 (72.3)	0.007*	77 (86.5)	107 (81.1)	0.359
Diabetes mellitus	81 (86.2)	148 (93.1)	0.079	77 (86.5)	122 (92.4)	0.173
Dyslipidemia	53 (56.4)	63 (39.6)	0.013*	48 (53.9)	60 (45.4)	0.221
Coronary heart disease	53 (56.4)	98 (61.6)	0.429	50 (56.2)	93 (70.4)	0.032*
Auricular fibrillation	19 (20.2)	54 (34.0)	0.022*	19 (21.4)	37 (28.0)	0.275
Chronic kidney disease	21 (22.3)	39 (24.5)	0.761	20 (22.5)	34 (25.8)	0.634
Chronic lung disease	12 (12.8)	32 (20.1)	0.170	12 (13.5)	28 (21.2)	0.158
Anaemia	45 (47.9)	71 (44.6)	0.695	43 (48.3)	57 (43.2)	0.492
Previous cerebral infarction	32 (34.0)	42 (26.4)	0.202	31 (34.8)	41 (31.1)	0.562
Previous myocardial infarction	14 (14.9)	33 (20.8)	0.316	14 (15.7)	31 (23.5)	0.177
Current smoking	44 (46.9)	50 (31.4)	0.016*	40 (44.9)	43 (32.6)	0.067
Previous smoking	71 (75.5)	101 (63.5)	0.052	67 (75.3)	89 (67.4)	0.231
Preoperative statin [‡]	46 (48.9)	65 (40.9)	0.239	44 (49.4)	62 (47.0)	0.784

Preoperative antiplatelet [‡]	49 (52.1)	79 (46.7)	0.795		47 (52.8)	71 (53.8)	0.892
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Observations are presented as “n (%)” or “x,– ± standard deviation”. RC: Rutherford classification; ABI: ankle brachial index; DCB: drug coated balloon; POB: plain old balloon. [†]88/153 and 83/127 observations respectively; [‡]lasted at least 6 months; * significant statistical difference due to a p-value of less than 0.05.

Table S4. Intra- and postoperative data based on limb in the analyses of major amputation

Variable	Before propensity score matching			After propensity score matching		
	DCB group (n=94)	POB group (n=159)	p value	DCB group (n=89)	POB group (n=132)	p value
Arterial location [†]			0.715			0.781
Anterior tibial	32 (37.6)	54 (36.0)		31 (38.3)	43 (34.4)	
Peroneal	4 (4.7)	6 (4.0)		4 (4.9)	6 (4.8)	
Posterior tibial	27 (31.8)	44 (29.3)		24 (29.6)	37 (29.6)	
Tibiofibular trunk - peroneal	10 (11.8)	14 (9.3)		10 (12.4)	12 (9.6)	
Tibiofibular trunk - posterior tibial	12 (14.1)	32 (21.3)		12 (14.8)	27 (21.6)	
TASC classification			0.360			0.408
C	56 (59.6)	84 (52.8)		53 (59.6)	70 (53.0)	
D	38 (40.4)	75 (47.2)		36 (40.4)	62 (47.0)	
Complete IPA before intervention [‡]			0.506			0.398
0	54 (57.4)	99 (62.3)		52 (58.4)	85 (64.4)	
1	40 (42.6)	60 (37.7)		37 (41.6)	47 (35.6)	
Calcification classification [§]	2.61±1.02	2.57±0.93	0.786	2.65±0.99	2.57±0.94	0.528
Chronic total occlusion	48 (51.1)	92 (57.9)	0.299	46 (51.7)	78 (59.1)	0.333
Length (mm)	157.7±33.7	160.4±29.3	0.507	158.8±33.0	159.5±30.2	0.889
Reference vessel diameter (mm)	2.54±0.11	2.53±0.13	0.762	2.54±0.11	2.54±0.13	0.705
Intervention to SPAs	16 (17.0)	22 (13.8)	0.585	15 (16.8)	17 (12.9)	0.440
Maximum balloon diameter (mm)	2.98±0.24	2.94±0.28	0.177	3.00±0.23	2.94±0.27	0.127
Maximum dilatation pressure (atm)	13.19±0.85	13.33±0.70	0.169	13.17±0.86	13.32±0.73	0.162
No. of dilatation	2.77±0.68	2.90±0.61	0.110	2.78±0.68	2.93±0.60	0.092
Dilatation duration (sec)	489.6±126.4	509.3±109.4	0.193	492.6±126.3	514.4±107.9	0.171
Subintimal angioplasty	22 (23.4)	47 (29.6)	0.310	22 (24.7)	42 (31.8)	0.291
Retrograde angioplasty	12 (12.8)	27 (17.0)	0.472	12 (13.5)	23 (17.4)	0.459
Crossover	8 (8.5)	21 (13.2)	0.310	8 (9.0)	18 (13.6)	0.395
Stent implantation	1 (1.1)	0 (0)	0.372	1 (1.1)	0 (0)	0.403
Dissection			0.714			0.809
A	12 (12.8)	19 (12.0)		12 (13.5)	16 (12.1)	
B	8 (8.5)	9 (5.7)		8 (9.0)	8 (6.1)	
C	4 (4.3)	4 (2.5)		4 (4.5)	4 (3.0)	
D	1 (1.1)	1 (0.6)		1 (1.1)	1 (0.8)	
Complete IPA after intervention [‡]			0.425			0.465
1	7 (7.4)	10 (6.3)		7 (7.9)	8 (6.1)	
2	57 (60.6)	85 (53.5)		53 (59.6)	71 (53.8)	
3	30 (31.9)	64 (40.2)		29 (32.6)	53 (40.2)	
Device success	94 (100)	159 (100)		89 (100)	132 (100)	1.000
Technical success	92 (97.9)	154 (96.9)	1.000	87 (97.8)	128 (97.0)	1.000

Postoperative statin [¶]	85 (90.4)	130 (81.8)	0.070*		80 (89.9)	112 (84.8)	0.315
Postoperative antiplatelet [¶]	88 (93.6)	141 (88.7)	0.267		83 (93.3)	116 (87.9)	0.253
Serious complications	1 (1.1)	1 (0.6)	1.000		1 (1.1)	1 (0.8)	1.000
Minor complication: AKI	7 (7.4)	15 (9.4)	0.651		6 (6.7)	15 (11.4)	0.350
Minor complication: MB	3 (3.2)	3 (1.9)	0.673		2 (2.2)	1 (0.8)	0.566
Minor complication: PRP	3 (3.2)	5 (3.1)	1.000		3 (3.4)	4 (3.0)	1.000

Observations are presented as “n (%)” or “ $\bar{x} \pm$ standard deviation”. TASC: Trans-Atlantic Inter-Society Consensus; IPA: infrapopliteal artery; SPA: suprapopliteal artery; AKI: acute kidney injury; MB: minor bleeding; PRP: puncture related problem; DCB: drug coated balloon; POB: plain old balloon. [†]85/150 and 81/125 observations respectively; [‡]infrapopliteal artery directly reaching foot without stenosis of more than 30%; [§]conversion to a numerical variable due to the merging of observations; [¶]lasted at least 6 months; * the p-value in the comparison of observations based on patient was 0.042.

Table S5. Preoperative data based on patient in the analyses of all-cause death

Variable	Before propensity score matching			After propensity score matching		
	DCB group (n=82)	POBA group (n=139)	p value	DCB group (n=76)	POBA group (n=119)	p value
Restenosis	15 (18.3)	30 (21.6)	0.607	14 (18.4%)	24 (20.2%)	0.854
Previous revascularization	23 (28.0)	35 (25.2)	0.639	22 (29.0)	28 (23.5)	0.406
Left side [†]	39 (53.4)	63 (52.9)	1.000	35 (52.2)	55 (52.9)	1.000
Preoperative RC			0.463			0.923
3	5 (6.1)	3 (2.2)		3 (4.0)	3 (2.5)	
4	22 (26.8)	34 (24.5)		20 (26.3)	31 (26.0)	
5	35 (42.7)	66 (47.5)		34 (44.7)	57 (47.9)	
6	20 (24.4)	36 (25.9)		19 (25.0)	28 (23.5)	
Preoperative ABI [‡]	0.39±0.13	0.35±0.14	0.073	0.39±0.13	0.36±0.14	0.270
Preoperative ABI exceeding 1.4	6 (7.3)	6 (4.3)	0.368	6 (7.9)	5 (4.2)	0.344
Age (year)	72.8±8.0	71.7±7.8	0.338	72.8±8.0	71.6±7.9	0.285
Male	52 (63.4)	83 (59.7)	0.669	49 (64.5)	77 (64.7)	1.000
BMI	25.2±2.1	24.4±2.2	0.009*	25.1±2.1	24.7±2.2	0.157
Hypertension	70 (85.4)	101 (72.7)	0.031*	65 (85.5)	91 (76.5)	0.144
Diabetes mellitus	72 (87.8)	129 (92.8)	0.231	67 (88.2)	111 (93.3)	0.298
Dyslipidemia	46 (56.1)	54 (38.8)	0.017*	41 (54.0)	52 (43.7)	0.187
Coronary heart disease	45 (54.9)	85 (61.2)	0.397	41 (54.0)	77 (64.7)	0.176
Auricular fibrillation	16 (19.5)	46 (33.1)	0.031*	15 (19.7)	35 (29.4)	0.178
Chronic kidney disease	16 (19.5)	35 (25.2)	0.409	15 (19.7)	29 (24.4)	0.487
Chronic lung disease	10 (12.2)	25 (18.0)	0.340	9 (11.9)	21 (17.6)	0.314
Anaemia	41 (50.0)	61 (43.9)	0.404	39 (51.3)	48 (40.3)	0.142
Previous cerebral infarction	27 (32.9)	41 (29.5)	0.652	25 (32.9)	39 (32.8)	1.000
Previous myocardial infarction	11 (13.4)	27 (19.4)	0.275	11 (14.5)	24 (20.2)	0.345
Current smoking	38 (46.3)	44 (31.6)	0.032*	34 (44.7)	41 (34.4)	0.175
Previous smoking	61 (74.4)	88 (63.3)	0.103	56 (73.7)	80 (67.2)	0.424

Preoperative statin [§]	39 (47.6)	60 (43.2)	0.576		37 (48.7)	55 (46.2)	0.770
Preoperative antiplatelet [§]	42 (51.2)	68 (48.9)	0.782		40 (52.6)	60 (50.4)	0.771

Observations are presented as “n (%)” or “ $\bar{x} \pm$ standard deviation”. RC: Rutherford classification; ABI: ankle brachial index. [†]73/119 and 67/104 observations respectively; [‡]76/133 and 70/114 observations respectively; [§]lasted at least 6 months; *significant statistical difference due to a p-value of less than 0.05.

Table S6. Intra- and postoperative data based on patient in the analyses of all-cause death

Variable	Before propensity score matching			After propensity score matching		
	DCB group (n=82)	POBA group (n=139)	p value	DCB group (n=76)	POB group (n=119)	p value
Arterial location [†]			0.212			0.291
Anterior tibial	26 (40.0)	45 (36.6)		24 (39.3)	35 (32.7)	
Peroneal	4 (6.2)	4 (3.2)		4 (6.6)	4 (3.7)	
Posterior tibial	21 (32.3)	36 (29.3)		19 (31.2)	35 (32.7)	
Tibiofibular trunk - peroneal	8 (12.3)	11 (8.9)		8 (13.1)	10 (9.4)	
Tibiofibular trunk - posterior tibial	6 (9.2)	27 (22.0)		6 (9.8)	23 (21.5)	
TASC classification			0.676			0.770
C	45 (54.9)	71 (51.1)		41 (54.0)	61 (51.3)	
D	37 (45.1)	68 (48.9)		35 (46.0)	58 (48.7)	
Complete IPA before intervention ^{‡§}	0.46±0.54	0.46±0.56	0.992	0.48±0.55	0.46±0.55	0.756
Calcification classification [§]	2.68±1.02	2.65±0.93	0.812	2.68±1.02	2.65±0.91	0.815
Chronic total occlusion	46 (56.1)	85 (61.2)	0.481	44 (57.9)	73 (61.3)	0.655
Length (mm)	157.8±32.2	159.6±29.2	0.674	159.0±31.5	159.1±31.1	0.972
Reference vessel diameter (mm)	2.54±0.11	2.53±0.12	0.714	2.54±0.11	2.54±0.12	0.931
Intervention to SPAs	16 (19.5)	22 (15.8)	0.580	15 (19.7)	19 (16.0)	0.563
Maximum balloon diameter (mm)	2.98±0.25	2.94±0.28	0.185	3.00±0.25	2.94±0.28	0.128
Maximum dilatation pressure (atm)	13.20±0.78	13.33±0.66	0.209	13.16±0.78	13.36±0.65	0.060
No. of dilatation	2.77±0.64	2.89±0.60	0.170	2.76±0.64	2.89±0.61	0.173
Dilatation duration (sec)	488.7±118.1	506.3±107.7	0.258	488.0±118.3	506.5±109.8	0.268
Subintimal angioplasty	22 (26.8)	46 (33.1)	0.367	21 (27.6)	43 (36.1)	0.274
Retrograde angioplasty	12 (14.6)	28 (20.1)	0.367	11 (14.5)	23 (19.3)	0.442
Crossover	8 (9.8)	21 (15.1)	0.306	7 (9.2)	17 (14.3)	0.374
Stent implantation	1 (1.2)	0 (0)	0.371	1 (1.3)	0 (0)	0.390
Dissection			0.589			0.665
A	12 (14.6)	18 (13.0)		11 (14.5)	14 (11.8)	
B	8 (9.8)	8 (5.8)		8 (10.5)	8 (6.7)	
C	4 (4.9)	4 (2.9)		4 (5.3)	4 (3.4)	
D	1 (1.2)	1 (0.7)		1 (1.3)	1 (0.8)	
Complete IPA after intervention [§]	2.26±0.54	2.35±0.58	0.236	2.35±0.60	2.27±0.55	0.332
Device success	82 (100)	139 (100)	1.000	76 (100)	119 (100)	1.000
Technical success	80 (97.6)	134 (96.4)	1.000	74 (97.4)	116 (97.5)	1.000
Postoperative statin [¶]	76 (92.7)	115 (82.7)	0.042*	70 (92.1)	106 (89.1)	0.623
Postoperative antiplatelet [¶]	77 (93.9)	123 (88.5)	0.238	72 (94.7)	107 (89.9)	0.291
Serious complications	1 (1.2)	1 (0.7)	1.000	1 (1.3)	1 (0.8)	1.000
Minor complication: AKI	7 (8.5)	14 (10.1)	0.815	6 (7.9)	12 (10.1)	0.801
Minor complication: MB	3 (3.7)	2 (1.4)	0.363	1 (1.3)	1 (0.8)	1.000

Minor complication: PRB	3 (3.7)	5 (3.6)	1.000	3 (4.0)	5 (4.2)	1.000
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Observations are presented as “n (%)” or “x, ± standard deviation”. TASC: Trans-Atlantic Inter-Society Consensus; IPA: infrapopliteal artery; SPA: suprapopliteal artery; AKI: acute kidney injury; MB: minor bleeding; PRP: puncture related problem; DCB: drug coated balloon; POB: plain old balloon.[†]65/123 and 61/107 observations respectively; [‡]infrapopliteal artery directly reaching foot without stenosis of more than 30%; [§]conversion to a numeric variable due to the merging of observations; [¶]lasted at least 6 months; significant statistical difference due to a p-value of less than 0.05.

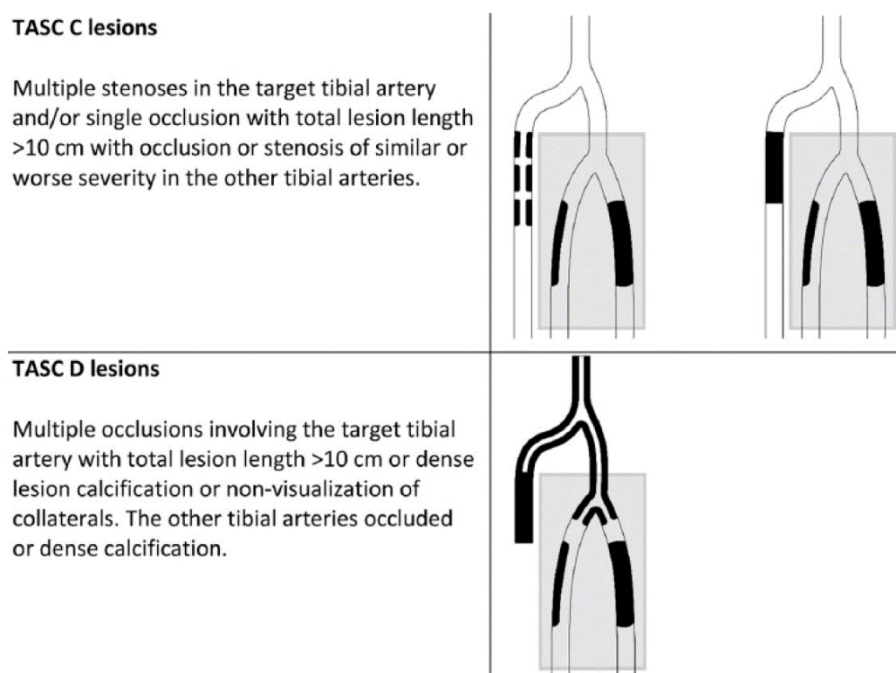


Figure S1. TASC classification of infrapopliteal artery lesions.

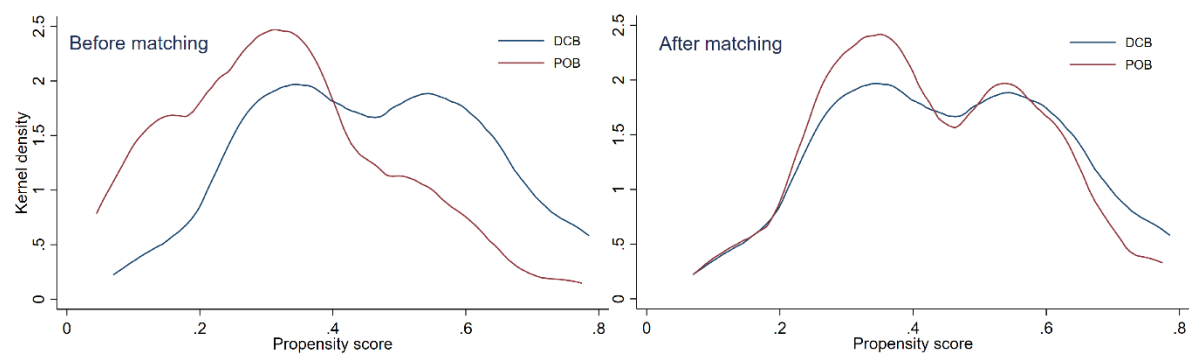


Figure S2. Comparison of the kernel density distribution before and after propensity score matching for the data based on limb. DCB: drug coated balloon; POB: plain old balloon.

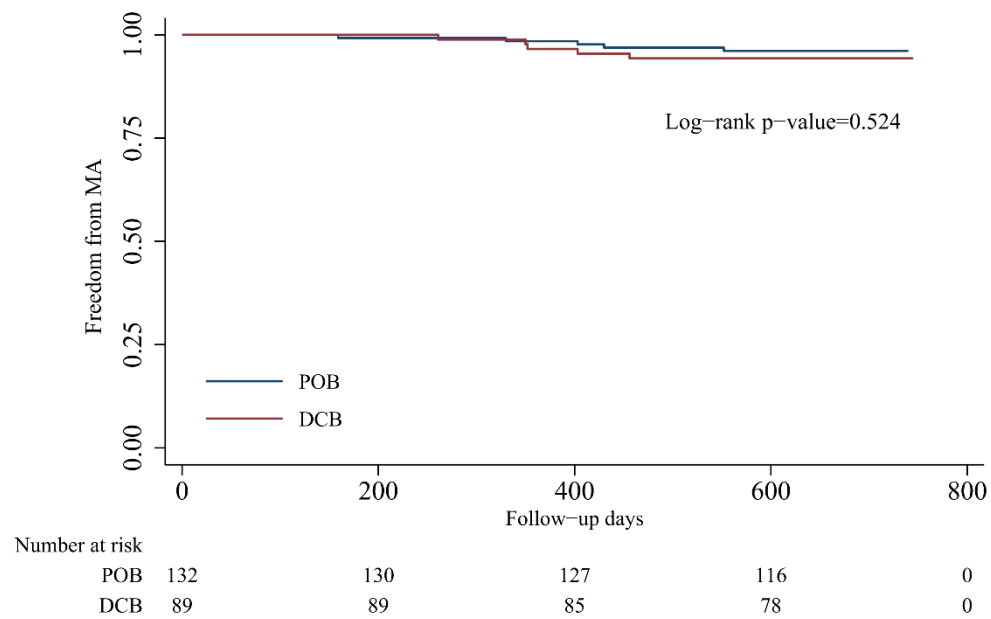


Figure S3. Kaplan-Meier survival of freedom from major amputation. POB: plain old balloon; DCB: drug coated balloon.

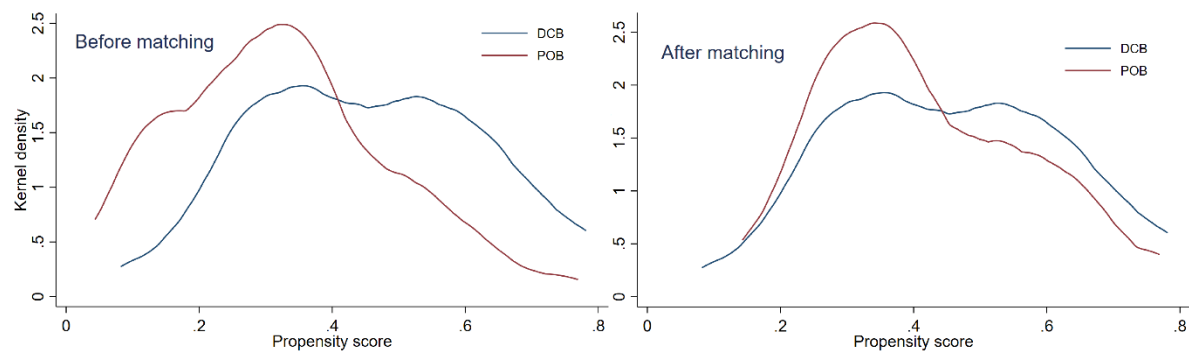


Figure S4. Comparison of the kernel density distribution before and after propensity score matching for the data based on patient. DCB: drug coated balloon; POB: plain old balloon.

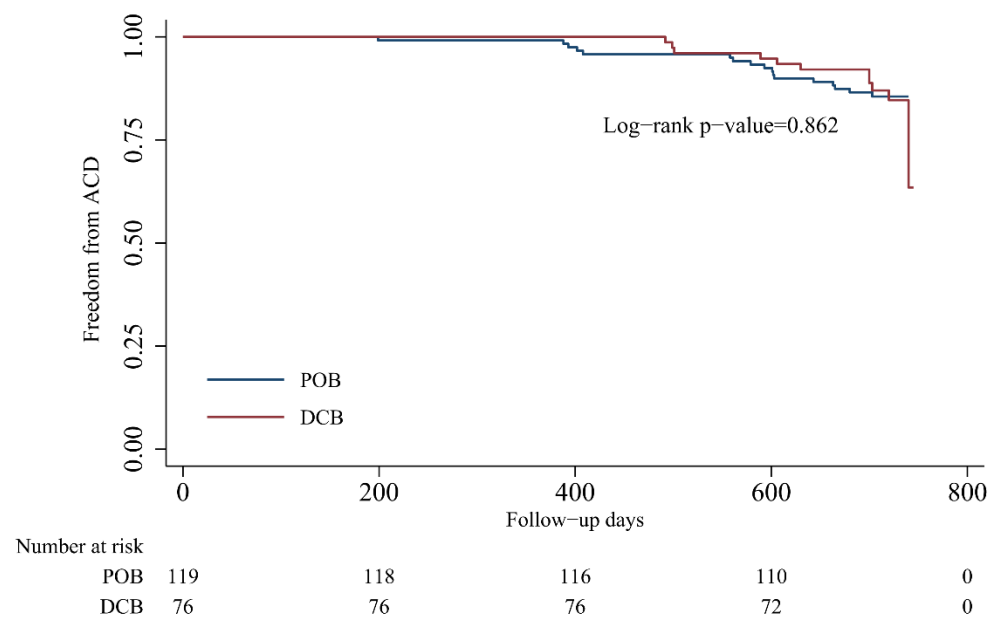


Figure S5. Kaplan-Meier survival of freedom from all-cause death. POB: plain old balloon; DCB: drug coated balloon.