

SUPPLEMENTAL MATERIAL

Table S1. Characteristics of the non-culprit plaques of the culprit vessel.

	DM group (n=29)	Non-DM group (n=79)	P Value #
Maximal lipid arc, degree	248.9 ± 83.9	179.9 ± 58.3	0.006
Mean lipid arc, degree	190.8 ± 50.3	144.1 ± 35.3	0.001
Lipid length, mm	7.6 ± 6.6	5.7 ± 4.0	0.253
Lipid index	1400.0 ± 1061.9	865.9 ± 744.2	0.025
Thinnest FCT, μm	103.3 ± 56.2	140.7 ± 70.0	0.013
Minimal lumen area, mm ²	2.34 ± 0.86	2.81 ± 1.30	0.066
Reference lumen area, mm ²	7.07 ± 3.23	7.68 ± 3.14	0.196
Area stenosis, %	64.4 ± 12.0	63.3 ± 8.7	0.978
Lipid-rich plaque	15 (51.7)	34 (43.0)	0.295
TCFA	5 (17.2)	5 (6.3)	0.031
Plaque rupture	1 (3.4)	5 (6.3)	0.687
Macrophage accumulation	18 (62.1)	39 (49.4)	0.434
Microvessels	12 (41.4)	27 (34.2)	0.515
Cholesterol crystals	9 (31.0)	15 (19.0)	0.288
Calcification	16 (55.2)	35 (44.3)	0.920
Spotty calcium	6 (20.7)	17 (21.5)	0.810
Thrombus	6 (20.7)	13 (16.5)	0.507

Generalized estimating equations were applied for fitting general- and generalized linear models. Data are presented as count (%) or mean ± SD. #Adjusted for differences in baseline characteristics.

FCT = fibrous cap thickness; TCFA = thin-cap fibroatheroma.

Table S2. Comparison of culprit plaque characteristics based on HbA1C level.

	A) High HbA1C DM (A1C ≥8%) (n=31)	B) Low HbA1C DM (A1C <8%) (n=51)	C) Non-DM (n=227)	P Value #			
				Overall	A vs B	A vs C	B vs C
Maximal lipid arc, degree	233.9 ± 93.4	275.5 ± 70.0	246.9 ± 91.7	0.430			
Mean lipid arc, degree	181.2 ± 73.7	200.6 ± 49.0	184.6 ± 59.6	0.734			
Lipid length, mm	8.7 ± 6.1	7.9 ± 3.7	8.1 ± 6.4	0.944			
Lipid index	1777.9 ± 1529.9	1544.4 ± 707.8	1581.6 ± 1337.9	0.845			
Thinnest FCT, μm	103.7 ± 79.3	90.9 ± 48.8	97.9 ± 64.0	0.590			
Minimal lumen area, mm ²	1.75 ± 1.86	1.60 ± 1.05	1.85 ± 1.45	0.779			
Reference lumen area, mm ²	6.75 ± 2.85	6.59 ± 2.92	7.33 ± 3.09	0.359			
Area stenosis, %	73.8 ± 20.6	75.4 ± 12.0	73.9 ± 16.8	0.899			
Lipid-rich plaque	20 (64.5)	31 (60.8)	102 (44.9)	0.042	0.798	0.062	0.052
TCFA	13 (41.9)	12 (23.5)	55 (24.2)	0.179			
Plaque rupture	10 (32.3)	18 (35.3)	69 (30.4)	0.803			
Macrophage accumulation	20 (64.5)	33 (64.7)	102 (44.9)	0.025	0.975	0.064	0.026
Microvessels	9 (29.0)	18 (35.3)	78 (34.4)	0.878			

Cholesterol crystals	7 (22.6)	20 (39.2)	64 (28.2)	0.465
Calcification	15 (48.4)	30 (58.8)	97 (42.7)	0.500
Spotty calcium	7 (22.6)	10 (19.6)	35 (15.4)	0.487
Thrombus	17 (54.8)	30 (58.8)	116 (51.1)	0.352

Generalized linear model for categorical variables and general linear model for continuous variables were applied. Data are presented as number (%) or mean \pm SD. Thirteen patients in DM group were excluded from the analysis due to lack of HbA1C data.

#Adjusted for differences in baseline characteristics.

FCT = fibrous cap thickness; TCFA = thin-cap fibroatheroma.

Table S3. Comparison of non-culprit plaque characteristics of the culprit vessel based on HbA1C level.

	A) High HbA1C DM (A1C ≥8%) (n=9)	B) Low HbA1C DM (A1C <8%) (n=18)	C) Non-DM (n=79)	P Value #			
				Overall	A vs B	A vs C	B vs C
Maximal lipid arc, degree	304.7 ± 79.2	221.1 ± 74.6	179.9 ± 58.3	<0.001	0.038	<0.001	0.089
Mean lipid arc, degree	228.8 ± 39.8	171.9 ± 45.2	144.1 ± 35.3	<0.001	0.016	<0.001	0.054
Lipid length, mm	7.4 ± 4.2	7.6 ± 7.8	5.7 ± 4.0	0.598			
Lipid index	1813.8 ± 1165.6	1193.2 ± 1003.7	865.9 ± 744.2	0.079			
Thinnest FCT, μm	90.6 ± 41.1	109.6 ± 63.5	140.7 ± 70.0	0.056			
Minimal lumen area, mm ²	2.42 ± 1.54	2.31 ± 0.87	2.81 ± 1.30	0.143			
Reference lumen area, mm ²	7.06 ± 3.22	7.04 ± 3.51	7.68 ± 3.14	0.591			
Area stenosis, %	63.9 ± 14.5	64.1 ± 11.6	63.3 ± 8.7	0.975			
Lipid-rich plaque	5 (55.6)	10 (55.6)	34 (43.0)	0.288			
TCFA	2 (22.2)	3 (16.7)	5 (6.3)	0.144			
Plaque rupture	1 (11.1)	0 (0.0)	5 (6.3)	0.322			
Macrophage accumulation	4 (44.4)	13 (72.2)	39 (49.4)	0.183			
Microvessels	4 (44.4)	7 (38.9)	27 (34.2)	0.684			

Cholesterol crystals	1 (11.1)	7 (38.9)	15 (19.0)	0.146
Calcification	4 (44.4)	10 (55.6)	35 (44.3)	0.733
Spotty calcium	2 (22.2)	4 (22.2)	17 (21.5)	0.987
Thrombus	1 (11.1)	5 (27.8)	13 (16.5)	0.462

Generalized estimating equations were applied for fitting general- and generalized linear models. Data are presented as count (%) or mean \pm SD.

#Adjusted for differences in baseline characteristics.

FCT = fibrous cap thickness; TCFA = thin-cap fibroatheroma.