

Supplementary data

Supplementary Table 1. Baseline clinical characteristics.

Clinical variables	OCT (n=153)	IVUS (n=136)	Angiography (n=142)
Age, years	66 (59-72)	66 (61-73)	67 (56-75)
Male sex	69%	74%	73%
Hypertension	78%	78%	75%
Dyslipidaemia	73%	75%	77%
Diabetes mellitus	33%	36%	28%
Current smoker	17%	13%	23%
Serum creatinine, mg/dL	0.92 (0.80-1.10)	0.93 (0.80-1.10)	0.91 (0.80-1.10)
Silent ischaemia/staged procedure	33%	29%	29%
Stable angina	34%	35%	35%
Acute coronary syndrome	33%	36%	36%

Values are % or median (interquartile range).

IVUS: intravascular ultrasound; OCT: optical coherence tomography

Supplementary Table 2. Angiographic and procedural characteristics.

	OCT (n=153)	IVUS (n=136)	Angiography (n=142)	<i>p</i> -value	
				OCT vs IVUS	OCT vs angiography
Angiographic variables					
LAD/LCx/RCA, %	52/27/22	50/27/22	57/20/23	0.67	0.72
Thrombus, %	0.7	1.5	1.4	0.60	0.61
Calcification (mod to severe), %	20	17	26	0.47	0.24
Reference vessel diameter, mm	2.78 (2.43-3.12)	2.91 (2.59-3.18)	2.76 (2.50-3.10)	0.16	0.99
Minimum lumen diameter, mm	0.99 (0.70-1.23)	1.05 (0.73-1.26)	0.96 (0.68-1.21)	0.69	0.58
Diameter stenosis, %	64.0 (55.8-72.8)	63.3 (56.0-73.3)	65.4 (57.6-74.9)	1.00	0.43
Lesion length, mm	15.3 (11.0-23.2)	15.3 (11.1-23.0)	14.7 (10.6-20.0)	0.99	0.35
TIMI 3 flow, %	92%	89%	88%	0.35	0.23
Procedural variables					
Radial access, %	67%	59%	61%	0.13	0.28
Stents per lesion, n	1 (1-1)	1 (1-1)	1 (1-1)	0.47	0.84
Stent length, mm	23 (15-32)	24 (16-32)	20 (16-30)	0.96	0.35
Maximal stent diameter, mm	3.00 (2.75-3.50)	3.13 (2.75-3.50)	3.00 (2.75-3.50)	0.26	0.34
Post-dilatation balloons used, n	2 (1-3)	2 (1-3)	1 (1-2)	0.81	0.0009
Maximum balloon size, mm	3.5 (3.0-4.0)	3.5 (3.0-4.0)	3.0 (2.8-3.5)	0.93	0.0003
Maximum inflation pressure, atm	18 (16-20)	19 (16-20)	18 (16-20)	0.67	0.02
Procedure duration, min	71 (57-100)	72 (53-99)	57 (39-78)	0.99	<0.0001
Radiation dose, Gy	1.3 (0.9-2.0)	1.2 (0.7-2.3)	1.2 (0.7-2.0)	0.95	0.46
Contrast volume, mL	225 (160-285)	196 (143-250)	183 (137-250)	0.018	0.0013

IVUS: intravascular ultrasound; LAD: left anterior descending artery; LCx: left circumflex artery; OCT: optical coherence tomography; RCA: right coronary artery; TIMI: Thrombolysis In Myocardial Infarction

Supplementary Table 3. Post-procedure OCT measures.

	OCT (n=136)	IVUS (n=126)	Angiography (n=136)	<i>p</i> -value	
				OCT vs IVUS	OCT vs angiography
Stent expansion indices					
Minimal stent area, mm ²	5.79 (4.58-7.34)	6.20 (4.69-7.92)	5.49 (4.39-6.59)	0.52	0.17
Minimal stent expansion, %	87±17	87±16	83±13	0.82	0.02
Mean stent expansion, %	106 (98-119)	106 (97-116)	101 (92-110)	0.80	0.002
Stent expansion					
Optimal (>95%)	25%	25%	17%	0.94	0.09
Acceptable (90 to <95%)	15%	13%	3.8%	0.59	0.001
Unacceptable (<90%)	60%	62%	80%	0.65	0.0004
Post-procedure findings					
Dissection (any)	27%	42%	44%	0.013	0.004
Major	14%	28%	18%	0.003	0.30
Minor	14%	13%	26%	0.95	0.013
Malapposition (any)	41%	38%	61%	0.65	0.001
Major	11%	20%	32%	0.046	<0.0001
Minor	30%	19%	28%	0.03	0.75
Tissue protrusion (any)	68%	74%	67%	0.29	0.83
Major	19%	21%	18%	0.73	0.68
Minor	49%	53%	50%	0.49	0.91

Values are mean±standard deviation or median (interquartile range). IVUS: intravascular ultrasound; OCT: optical coherence tomography