

Table S1 distribution of procedural success by J-CTO score

J-CTO Score	Total	Procedural success	Procedural failure	P value
0	57	56	1	<0.001
1	61	49	12	
2	52	34	18	
≥3	37	18	19	

J-CTO, Multicenter CTO Registry of Japan.

Table S2 CCTA characteristics

	Total(N=207)	Successful guidewire crossing ≤30 min (n=131)	Failed guidewire crossing ≤30 min (n=76)	P value
Proximal branch	65 (31.4)	29 (22.1)	36 (47.4)	0.001
Proximal blunt stump	74 (35.7)	31 (23.7)	43 (56.6)	0.001
Lesion length ≥15 mm	107 (51.7)	55 (42.0)	52 (68.4)	<0.001
Lesion length ≥20 mm	80 (38.6)	42 (32.1)	38 (50.5)	<0.001
Bending >45°	42 (20.3)	17 (13.0)	25 (32.9)	0.001
Any calcification	80 (38.6)	37 (28.2)	43 (56.6)	<0.001
Severe calcification	63 (30.4)	26 (19.8)	37 (48.7)	<0.001
Distal branch	48 (23.2)	23 (17.6)	25 (32.9)	0.019
Multiple occlusion	10 (4.8)	6 (4.6)	4 (52.6)	1.000
CTA-JCTO score	1.45±1.30	1.01±1.09	2.22±1.26	<0.001
CTA-JCTO score = 0	58 (28.0)	53 (40.5)	5 (6.6)	<0.001
CTA-JCTO score = 1	62 (30.0)	42 (32.1)	20 (26.3)	
CTA-JCTO score = 2	45 (21.7)	23 (17.6)	22 (28.9)	
CTA-JCTO score ≥ 3	42 (20.3)	13 (9.9)	29 (38.2)	

Severe calcification was defined as presence of any calcification involving more than 50% cross section area in CTO segment. CCTA, coronary computed tomography angiography; J-CTO, Multicenter CTO Registry of Japan.