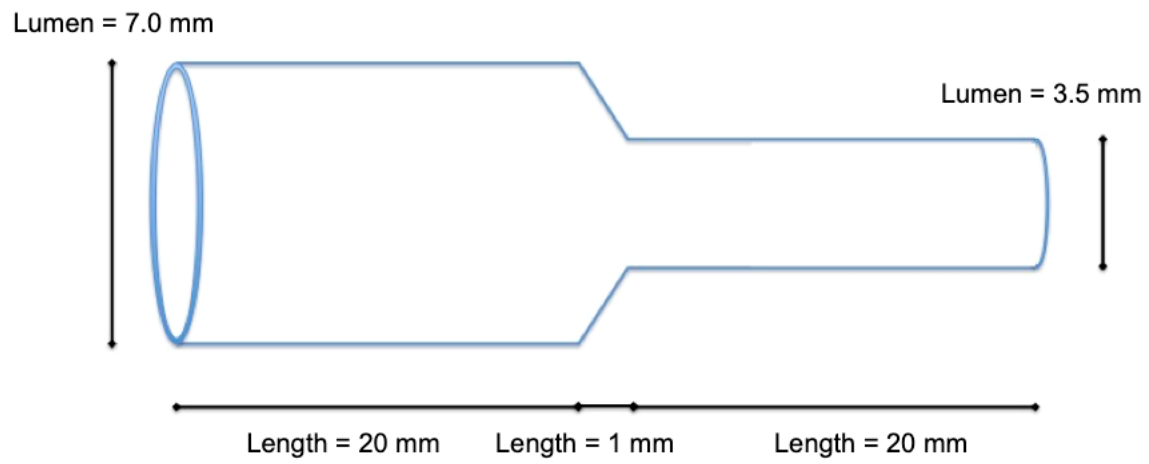
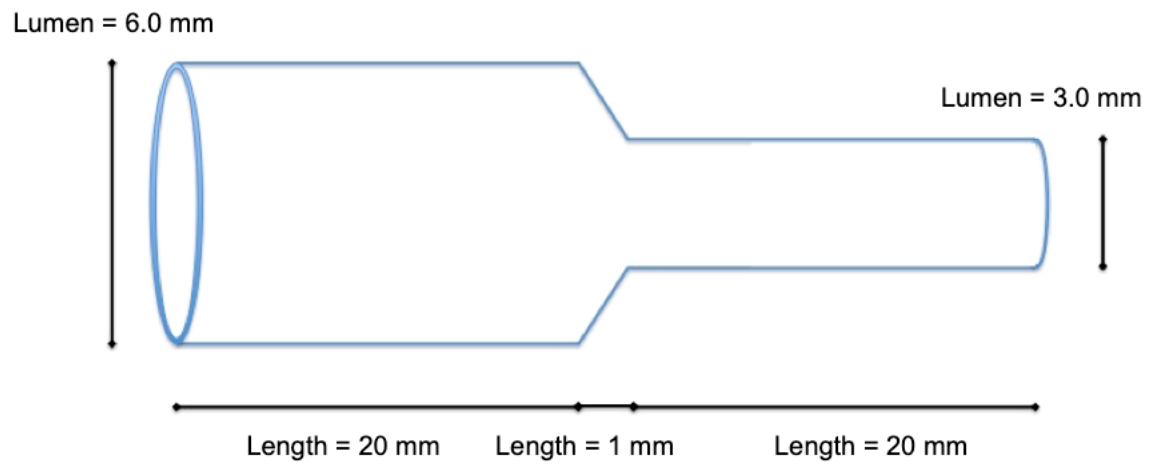


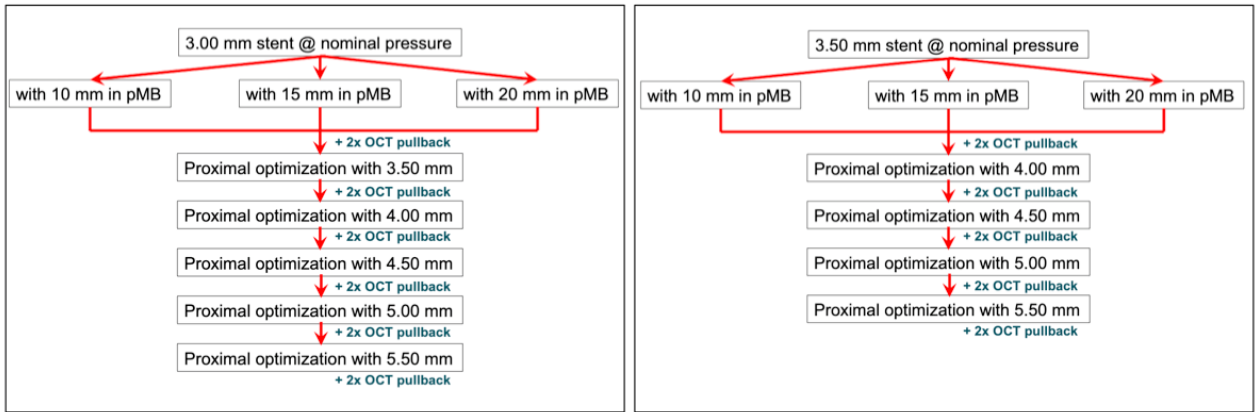
Supplementary data

Supplementary Table 1. Procedural and stent characteristics of the clinical cases.

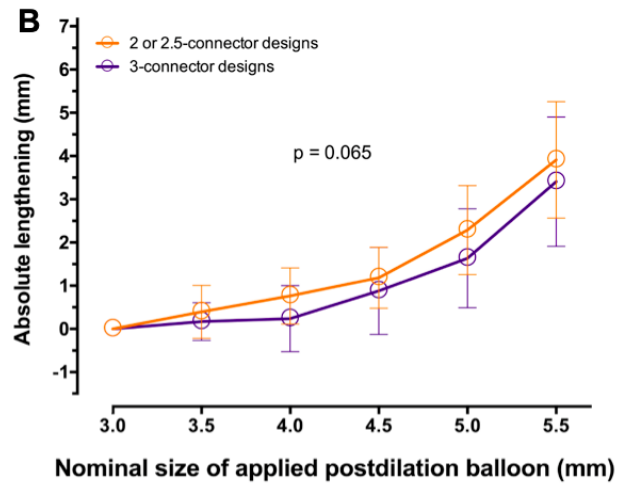
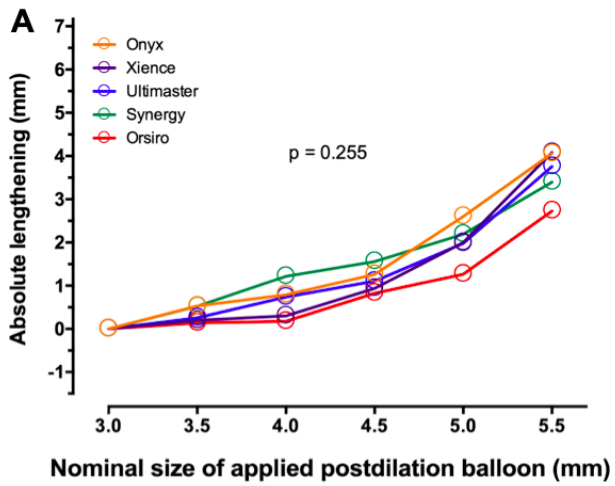
Localisation	Left main stem	22 (61%)	
	LAD	13 (36%)	
	RCA	1 (3%)	
	LCX	0 (0%)	
Stent type	XIENCE (Abbott)	13 (36%)	
	Resolute Onyx (Medtronic)	11 (31%)	
	Ultimaster (Terumo)	4 (11%)	
	SYNERGY (Boston Sc.)	3 (8%)	
	Orsiro (Biotronik)	3 (8%)	
	Other	2 (6%)	
Stent diameter	Nominal diameter	3.31±0.34 mm	
	Post-dilation diameter	4.29±0.43 mm	p<0.01
	Absolute overexpansion	+0.98±0.36 mm	
	Overexpansion rate	+30.29±12.98 %	
Stent length	Nominal length	26.14±9.03 mm	
	Final length	28.36±9.01 mm	p<0.01
	Absolute lengthening	+2.22±1.35 mm	
	Lengthening rate	+9.53±7.24 %	
Elongation per extent of post-dilation	First tertile	1.62±0.94 mm	
	Second tertile	2.36±1.15 mm	
	Third tertile	2.49±1.70 mm	p=0.30



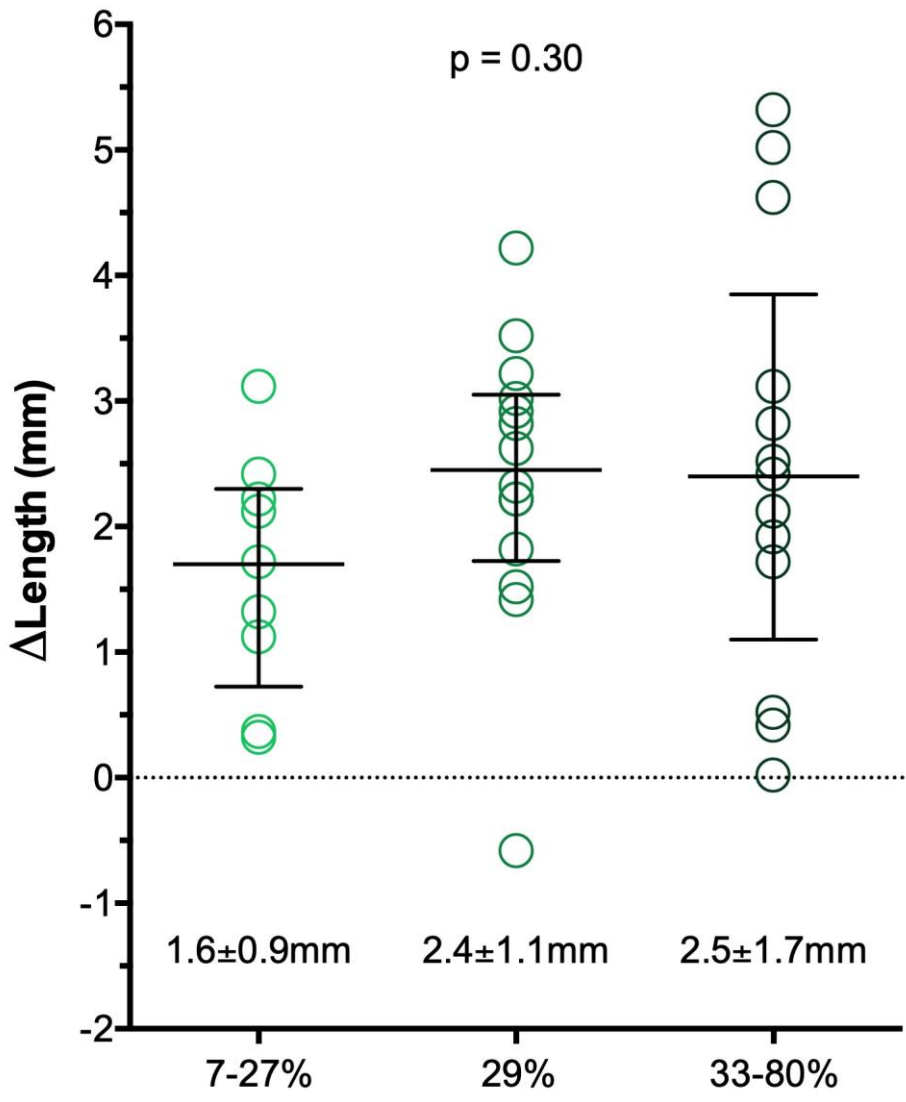
Supplementary Figure 1. Parameters of the bench vessel models.



Supplementary Figure 2. Steps of the bench testing for the 3.00 mm stent platform (left) and for the 3.50 mm stent platform (right).



Supplementary Figure 3. Lengthening according to different stent types (A) and according to different type of stent designs (B).



Tertiles according to relative overexpansion

Supplementary Figure 4. Lengthening in the tertiles according to extent of overdilation.