

Center volumes correlate with likelihood of stent implantation in German coronary angiography

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Supplementary Data S1: Multiple linear or logistic regression analyses and non-linear relationship of center volumes to all observed outcomes

Multiple linear or logistic regression analyses

	Number of Stents			Stent rate (at least one stent)			In-hospital mortality			Length of stay			Reimbursement			
	Coeff	p-value	95%CI	OR	p-value	95%CI	OR	p-value	95%CI	Coeff	p-value	95%CI	Coeff	p-value	95%CI	
Hospital volume (linear relationship per 100 procedures)	0.01	0.020	0.00 0.02	1.02	0.003	1.01 1.03	1.01	0.105	1.00 1.01	-0.01	0.201	-0.03 0.01	58 €	0.108	-13 € 128 €	
Logistic EuroSCORE	-0.01	0.000	-0.02 -0.01	0.97	0.000	0.97 0.97	1.02	0.000	1.02 1.02	0.24	0.000	0.23 0.25	151 €	0.000	134 € 167 €	
Age in 10 years	0.03	0.000	0.02 0.03	1.03	0.000	1.01 1.04	1.40	0.000	1.37 1.44	-0.08	0.002	-0.13 -0.03	-181 €	0.000	-25 € -12 €	
Female	0.02	0.000	0.01 0.03	1.05	0.000	1.03 1.07	0.96	0.034	0.92 1.00	-0.19	0.000	-0.25 -0.12	-544 €	0.000	-6,181 € -4,699 €	
1-vessel CAD	-0.23	0.000	-0.28 -0.18	0.80	0.000	0.73 0.88	0.65	0.000	0.52 0.82	3.02	0.000	2.50 3.54	2,820 €	0.000	2,149 € 3,490 €	
2-vessel CAD	0.10	0.000	0.05 0.15	1.28	0.000	1.16 1.41	0.73	0.005	0.59 0.91	2.90	0.000	2.38 3.42	2,873 €	0.000	2,206 € 3,540 €	
3-vessel CAD	0.19	0.000	0.14 0.24	1.08	0.112	0.98 1.19	1.07	0.547	0.86 1.33	3.20	0.000	2.68 3.73	3,206 €	0.000	2,529 € 3,883 €	
Left main stenosis	-0.11	0.000	-0.16 -0.07	0.59	0.000	0.55 0.63	1.67	0.000	1.57 1.77	1.49	0.000	1.24 1.74	1,609 €	0.000	1,265 € 1,954 €	
Stable AP	-0.04	0.216	-0.11 0.02	0.96	0.494	0.84 1.09	0.29	0.000	0.20 0.42	-1.01	0.000	-1.33 -0.69	-1,238 €	0.000	-1,512 € -965 €	
Unstable AP	0.16	0.000	0.13 0.19	1.54	0.000	1.46 1.63	0.39	0.000	0.35 0.43	-1.10	0.000	-1.23 -0.96	-1,137 €	0.000	-1,276 € -998 €	
NSTEMI	0.54	0.000	0.52 0.56	3.07	0.000	2.95 3.20	2.60	0.000	2.44 2.77	1.93	0.000	1.79 2.07	2,279 €	0.000	2,144 € 2,414 €	
STEMI	0.98	0.000	0.95 1.00	10.01	0.000	9.52 10.54	8.47	0.000	7.93 9.04	2.01	0.000	1.86 2.17	3,183 €	0.000	3,006 € 3,361 €	
In-stent stenosis	-0.03	0.090	-0.06 0.00	1.06	0.059	1.00 1.12	0.88	0.007	0.81 0.97	-0.60	0.000	-0.75 -0.45	-346 €	0.000	-524 € -168 €	
Emergency admission	-0.03	0.007	-0.06 -0.01	0.91	0.000	0.87 0.95	1.43	0.000	1.33 1.54	1.04	0.000	0.84 1.23	-305 €	0.015	-552 € -58 €	

Non-linear relationship

