

Supplemental Table 4: univariate and multivariate analyses after exclusion of the catheters colonized with Coagulase negative Staphylococci as part of a sensitivity analysis

Risk factors	Univariate analysis (n= 3,681)			Multivariate analysis (n= 3,681)		
	OR ¹	95 % CI ²	p-value	Adjusted OR ¹	95 % CI ²	p-value
Male	0.89	[0.70-1.12]	0.309			
Age > 60 years	1.52	[1.20-1.93]	0.001	1,38	[1.08-1.76]	0.01
Obesity	1.75	[1.37-2.25]	<0.001	1,5	[1.16-1.94]	0.002
Immunosuppression	0.96	[0.73-1.27]	0.783			
Diabetes	1.67	[1.30-2.14]	<0.001	1.4	[1.08-1.81]	0.012
SAPS2*	1.00	[1.00-1.01]	0.111	-	-	-
Mechanical ventilation	0.9	[0.69-1.18]	0.449			
Antibiotic therapy at insertion	1.06	[0.85-1.33]	0.596			
Parenteral nutrition	0.74	[0.44-1.27]	0.281			
Catecholamines	0.94	[0.75-1.17]	0.568			
Anticoagulation	1.27	[1.02-1.59]	0.032	-	-	-
Dialysis catheter	2.13	[1.67-2.72]	<0.001	1.75	[1.34-2.27]	0.002
Insertion site						
Subclavian insertion	1.00	-	-	1.00	-	-
Jugular insertion	3.17	[2.03-4.94]	<0.001	3.03	[1.95-4.71]	<0.001
Femoral insertion	5.52	[3.60-5.50]	<0.001	5.11	[3.31-7.87]	<0.001
First catheter inserted	0.62	[0.47-0.82]	0.001	-	-	-
Successful insertion at first attempt	1.19	[0.94-1.50]	0.155	-	-	-
Mechanical complication at insertion	0.94	[0.62-1.41]	0.765			
Dwell time > 5 days	2.03	[1.62-2.54]	<0.001	1.95	[1.55-2.47]	<0.001

¹ OR, odds-ratio

² CI, confidence interval

*SAPS2, Simplified Acute Physiology Score 2

Supplemental Table 5: Relative frequency (%) with which each candidate predictor was selected in 500 bootstrap samples from the training cohort and bootstrapped coefficients for the robust risk factors after exclusion of the catheters colonized with Coagulase negative Staphylococci as part of a sensitivity analysis

Risk factors	Full sample	90 % sample	80 % sample	70 % sample	Bootstrapped coefficients
Age > 60 years	73,8	63,2	70,6	83,4	0,31
Obesity	93,6	82,2	56	55	0,31
Diabetes	64,8	70,2	72,4	61,8	0,44
Insertion site					
Subclavian	-	-	-	-	-
Jugular	100	100	100	100	1,05
Femoral	100	100	100	100	1,6
Dialysis catheter	86,8	87	84,6	79,2	0,41
Dwell time > 5 days	100	100	100	99,6	0,71