

Univariate and multivariate logistic regression analysis of risk factors for *N. meningitidis* carriage

Characteristic	N ¹	Unadjusted			Distribution of cases (used in univariate analyses)			Adjusted			Distribution of cases (used in multivariate / adjusted analysis)	
		OR	95% CI	p ²	Negative N = 381	Positive N = 20	N	OR	95% CI	p	Negative N = 36 ³	Positive N = 19
Gender	401						388					
Female	(ref) ³	—	—		297 (78%)	13 (65%)	(ref)	—	—		286 (78%)	13 (68%)
Male		1.90	0.70, 4.80	0.184	84 (22%)	7 (35%)		1.52	0.50, 4.13	0.431	83 (22%)	6 (32%)
Type of residence	400						388					
Apartment/house	(ref)	—	—		298 (78%)	13 (68%)	(ref)	—	—		288 (78%)	13 (68%)
Dormitory		1.66	0.57, 4.33	0.321	83 (22%)	6 (32%)		1.78	0.59, 4.83	0.272	81 (22%)	6 (32%)
Unknown ⁴					0	1						
Smoking	399						388					
No	(ref)	—	—		289 (76%)	11 (55%)	(ref)	—	—		282 (76%)	11 (58%)
Yes		2.63	1.03, 6.55	0.038	90 (24%)	9 (45%)		1.87	0.67, 4.95	0.214	87 (24%)	8 (42%)
Unknown					2	0						
Previous COVID-19	401						388					
No	(ref)	—	—		188 (49%)	10 (50%)	(ref)	—	—		180 (49%)	10 (53%)
Yes		0.97	0.39, 2.43	0.954	193 (51%)	10 (50%)		0.80	0.30, 2.11	0.650	189 (51%)	9 (47%)
No. of party/bar/ night club visits	391						388					
0	(ref)	—	—		171 (46%)	4 (20%)	(ref)	—	—		169 (46%)	4 (21%)
1-3		2.82	0.96, 10.2	0.078	182 (49%)	12 (60%)		2.31	0.75, 8.59	0.167	182 (49%)	11 (58%)
4 or more		9.50	2.09, 43.4	0.003	18 (4.9%)	4 (20%)		8.71	1.82, 41.8	0.005	18 (4.9%)	4 (21%)
Unknown					10	0						

¹ N, number of non-missing values

² Statistically significant *p*-values (*p*<0.05) are in red.

³ Reference group

⁴ Unknown values were not included in the logistic regression