

**Table e-1:** Univariable and multivariable logistic regression for rupture status in current, former, and never smokers using complete cases only\* (N=4,596) and using prospective cases only\*\* (N=778).

Characteristics	Univariable*		Multivariable*		Univariable**		Multivariable**	
	OR (95% CI)	P-val.	OR (95% CI)	P-val.	OR (95% CI)	P-val.	OR (95% CI)	P-val.
Female	0.64 (0.55-0.74)	<0.001	0.66 (0.57-0.77)	<0.001	0.83 (0.58-1.19)	0.32	-	-
Black (vs. white race)	1.93 (1.51-2.47)	<0.001	2.01 (1.55-2.61)	<0.001	1.97 (1.22-3.18)	0.005	2.07 (1.27-3.36)	0.003
Hispanic (vs. white race)	1.32 (1.01-1.72)	0.04	1.44 (1.08-1.91)	0.01	0.58 (0.30-1.12)	0.11	0.61 (0.31-1.20)	0.16
Asian (vs. white race)	1.86 (1.25-2.76)	0.002	2.06 (1.36-3.12)	0.001	1.29 (0.49-3.37)	0.61	1.51 (0.56-4.03)	0.42
Other (vs. white race)	1.32 (1.02-1.71)	0.03	1.51 (1.15-1.98)	0.003	1.88 (0.87-4.08)	0.11	1.93 (0.88-4.23)	0.10
Age at diagnosis	0.98 (0.97-0.98)	<0.001	0.98 (0.98-0.99)	<0.001	1.00 (0.99-1.01)	0.85	-	-
Hypertension	1.11 (0.98-1.26)	0.10	-	-	1.50 (1.11-2.02)	0.008	-	-

Coronary artery disease	0.70 (0.51-0.95)	0.02	0.74 (0.54-1.03)	0.07	0.97 (0.54-1.75)	0.92	-	-
Myocardial infarction	0.86 (0.62-1.20)	0.37	-	-	0.72 (0.45-1.14)	0.16	-	-
Atrial fibrillation	1.02 (0.71-1.49)	0.90	-	-	1.09 (0.53-2.24)	0.83	-	-
Diabetes	0.74 (0.59-0.93)	0.01	0.74 (0.58-0.94)	0.02	0.81 (0.51-1.29)	0.38	-	-
Max. size largest aneurysm	1.01 (0.99-1.02)	0.38	-	-	1.04 (1.00-1.08)	0.05	-	-
Mean number of aneurysms per patient	1.02 (0.94-1.11)	0.61	-	-	1.03 (0.89-1.20)	0.66	-	-
Family history aneurysms	0.60 (0.50-0.73)	<0.001	0.54 (0.44-0.65)	<0.001	0.67 (0.49-0.93)	0.02	0.66 (0.47-0.93)	0.02
Family history SAH	0.60 (0.47-0.76)	<0.001	-	-	0.66 (0.43-1.00)	0.05	-	-
Antihypertensive use	0.89 (0.78-1.01)	0.06	-	-	0.99 (0.74-1.33)	0.96	-	-
Former tobacco use (vs. never)	1.41 (1.19-1.67)	<0.001	1.65 (1.38-1.96)	<0.001	1.45 (1.01-2.08)	<0.05	1.48 (1.02-2.15)	0.04

Current tobacco use (vs. never)	2.30 (1.98-2.68)	<0.001	2.32 (1.98-2.71)	<0.001	1.79 (1.24-2.60)	0.002	1.87 (1.28-2.73)	0.001
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**Table e-2:** Univariable and multivariable logistic regression for rupture status in former and current smokers using complete cases

only\* (N=1,851) and using prospective cases only\*\* (N= 480).

Characteristics	Univariable*		Multivariable*		Univariable**		Multivariable**	
	OR (95% CI)	P-val.	OR (95% CI)	P-val.	OR (95% CI)	P-val.	OR (95% CI)	P-val.
Female	0.64 (0.53-0.77)	<0.001	0.72 (0.57-0.91)	0.006	0.71 (0.45-1.12)	0.14	-	-
Black (vs. white race)	2.07 (1.49-2.88)	<0.001	1.90 (1.26-2.86)	0.002	2.23 (1.24-4.02)	0.008	2.15 (1.02-4.54)	0.04
Hispanic (vs. white race)	1.25 (0.83-1.88)	0.28	1.12 (0.68-1.84)	0.66	0.64 (0.26-1.55)	0.33	0.72 (0.24-2.14)	0.56
Asian (vs. white race)	2.40 (1.15-5.00)	0.02	1.64 (0.64-4.17)	0.30	5.50 (0.57-53.35)	0.14	2.59 (0.14-46.5)	0.52
Other (vs. white race)	1.47 (1.02-2.13)	0.04	1.54 (0.96-2.48)	0.07	3.30 (1.08-10.0)	0.04	2.68 (0.77-9.30)	0.12
Age at diagnosis	0.98 (0.97-0.98)	<0.001	0.97 (0.96-0.98)	<0.001	0.99 (0.98-1.01)	0.44	-	-
Hypertension	1.05 (0.89-1.24)	0.55	-	-	1.31 (0.90-1.90)	0.16	-	-

Coronary artery disease	0.69 (0.48-0.97)	0.04	0.70 (0.46-1.05)	0.09	0.86 (0.45-1.62)	0.64	-	-
Myocardial infarction	0.69 (0.47-1.02)	0.06	-	-	0.55 (0.32-0.94)	0.03	0.53 (0.29-0.98)	0.04
Atrial fibrillation	1.09 (0.68-1.73)	0.73	-	-	1.14 (0.48-2.71)	0.78	-	-
Diabetes	0.77 (0.57-1.03)	0.08	-	-	0.82 (0.46-1.45)	0.49	-	-
Max. size largest aneurysm	1.02 (0.99-1.03)	0.09	1.02 (1.00-1.04)	0.07	1.04 (0.99-1.09)	0.15	-	-
Mean number of aneurysms per patient	1.00 (0.91-1.10)	0.99	-	-	1.02 (0.85-1.22)	0.86	-	-
Family history aneurysms	0.57 (0.45-0.71)	<0.001	0.63 (0.48-0.83)	0.001	0.57 (0.38-0.85)	0.006	0.60 (0.37-0.97)	0.04
Family history SAH	0.66 (0.50-0.88)	0.005	-	-	0.73 (0.44-1.22)	0.23	-	-
Antihypertensive use	0.74 (0.63-0.88)	<0.001	-	-	0.87 (0.60-1.25)	0.45	-	-
Current tobacco (vs. former)	1.63 (1.38-1.93)	<0.001	1.19 (0.88-1.62)	0.26	1.24 (0.86-1.79)	0.25	1.05 (0.55-1.98)	0.88

Years smoked	1.01 (1.01-1.02)	<0.001	1.02 (1.01-1.03)	<0.001	1.02 (1.00-1.03)	0.008	1.02 (1.00-1.04)	0.04
Packs per day	1.39 (1.20-1.60)	<0.001	1.39 (1.17-1.64)	<0.001	1.88 (1.28-2.77)	0.001	2.07 (1.37-3.13)	0.001
Years since quit ***	0.97 (0.96-0.98)	<0.001	1.00 (0.98-1.01)	0.73	0.98 (0.96-0.99)	0.002	0.99 (0.96-1.01)	0.34

\*\*\*0 in current smokers