On-line Table 1: Characteristics of the studied sample at MRI

	Included (*n* = 1228)		Excluded (*n* = 62)		
	Mean	SD	Mean	SD	*P* Value
Age (yr)	70.60	8.92	71.69	10.28	.10
Male sex (%)	41		19		.001
Hispanic (%)	65		79		.03
Black (%)	18		11		.20
Hypertension at MRI (%)	84		95		.02
Hypertension during follow-up (%)	91		97		.10
Average systolic BP at MRI (mm Hg)	136.30	17.49	139.24	17.77	.82
Average diastolic BP at MRI (mm Hg)	78.08	9.64	76.78	10.19	.50
Pulse pressure at MRI (mm Hg)	58.22	15.03	62.46	15.50	.69
Use of antihypertensives at MRI (%)	64		79		.02
Use of antihypertensive at the last follow-up (%)	78		90		.02
Hypercholesterolemia at MRI (%)	69		73		.56
Hypercholesterolemia at the last follow-up (%)	81		84		.57
Total cholesterol (mg/dL)	193.99	39.54	189.95	40.01	.85
LDL (mg/dL)	115.48	35.43	112.28	34.91	.93
Diabetes at MRI visit (%)	25		44		.001
Diabetes at the last follow-up (%)	37		56		.002
Fasting blood glucose (mg/dL)	100.70	33.77	109.10	35.66	.52
Smoking at MRI (%)	16		18		.71
Persistent smoking during follow-up (%)	7		0		.02
Any cardiac disease (%)	16		27		.02
Body mass index	28.33	4.99	29.65	5.57	.20

Note:—BP indicates blood pressure; LDL, low-density lipoprotein.

On-line Table 2: Cross-sectional associations between perivascular spaces and vascular risks[a]

	Small PVS			Large PVS		
Parameter	Adjusted Estimate	SE	*P* Value	Adjusted Estimate	SE	*P* Value
Age (per 5 yr)	0.05	0.01	.001	−0.04	0.03	.15
Male sex	−0.13	0.05	.01	−0.06	0.11	.58
Hispanic	0.01	0.06	.94	0.09	0.13	.47
Black	0.08	0.07	.22	−0.03	0.15	.85
Hypertension (%)	0.14	0.05	.001	0.52	0.11	.0001
Hypercholesterolemia (%)	0.00	0.04	.97	−0.06	0.09	.54
Diabetes (%)	0.03	0.04	.50	0.03	0.10	.79
Current smoking (%)	0.03	0.05	.61	−0.05	0.11	.67
Any cardiac disease (%)	0.01	0.05	.78	−0.04	0.12	.71
Body mass index	−0.01	0.01	.07	−0.03	0.01	.001
Percentage of brain atrophy	−0.01	0.01	.34	0.01	0.01	.64

Note:—SE indicates standard error.

[a] The Poisson regression model was also adjusted for motion artifacts and head size.

On-line Table 3: Incidence rate per 1000 person-year follow-up

	All Deaths	Vascular Death	Myocardial Infarction	Any Stroke	Any Vascular Event
No. of events	300	113	68	88	218
Overall	27.5 (24.7–30.8)	10.4 (8.6–12.5)	6.4 (5.1–8.1)	8.28 (6.7–10.2)	21.1 (18.4–24.5)
By small PVS groups					
First tertile	25.4 (20.6–31.5)	7.2 (4.8–10.7)	3.3 (1.9–6.0)	6.44 (4.2–9.9)	15.23 (11.5–20.14)
Second tertile	23.7 (19.4–28.8)	10.4 (7.7–14.0)	8.3 (5.9–11.6)	6.91 (4.8–10.0)	21.8 (17.7–26.9)
Third tertile	34.2 (28.5–40.1)	13.4 (10.7–17.9)	7.2 (4.8–10.8)	11.8 (8.6–16.1)	26.0 (21.0–32.2)
By large PVS groups					
≤1	27.1 (23–30.7)	10.1 (8.2–12.5)	5.8 (4.4–7.7)	8.2 (6.5–13.3)	20.7 (17.1–29.9)
≥2	29.1 (22.9–36.9)	11.3 (7.7–16.6)	8.6 (5.5–13.4)	8.5 (5.4–13.2)	22.6 (17.1–29.9)

On-line Table 4: Interaction with pulse pressure

	All Deaths	Vascular Death	Myocardial Infarction	Any Stroke	Any Vascular Event
SPVS score × PP at MRI	0.007 ($P = .31$)	0.023 ($P = .011$)	0.012 ($P = .35$)	0.018 ($P = .095$)	0.016 ($P = .019$)
LPVS score × PP at MRI	−0.003 ($P = .90$)	0.037 ($P = .13$)	0.04 ($P = .31$)	0.03 ($P = .44$)	0.04 ($P = .10$)

Note:—SPVS indicates small perivascular spaces; LPVS, large perivascular spaces.

On-line Table 5: Interaction with other imaging biomarkers of cerebrovascular disease

	All Deaths	Vascular Death	Myocardial Infarction	All Strokes	Any Vascular Event
Small PVS score × WMHV	0.001 ($P = .007$)	0.002 ($P = .020$)	−0.001 ($P = .99$)	0.002 ($P = .07$)	0.001 ($P = .04$)
Small PVS score × LPI	0.011 ($P = .49$)	0.024 ($P = .22$)	0.041 ($P = .07$)	0.019 ($P = .35$)	0.024 ($P = .13$)
Small PVS score × large PVS	−0.003 ($P = .54$)	0.003 ($P = .70$)	−0.007 ($P = .43$)	0.002 ($P = .81$)	−0.001 ($P = .84$)
Large PVS × WMHV	−0.001 ($P = .81$)	−0.003 ($P = .52$)	−0.002 ($P = .79$)	0.002 ($P = .65$)	−0.003 ($P = .56$)
Large PVS × LPI	0.104 ($P = .17$)	0.261 ($P = .01$)	0.220 ($P = .09$)	0.060 ($P = .57$)	0.165 ($P = .05$)