Supplementary Table 1. Categories of microbleed count and incident lacunes.

		Incident lacunes
_	n/N	
No pre-existing microbleeds	8/608	Reference
Single pre-existing microbleeds (all)	6/123	3.98 (1.33; 11.90)
Multiple pre-existing microbleeds (all)	6/ <mark>72</mark>	5.70 (1.79; 18.13)
Single pre-existing strictly lobar	5/93	4.42 (1.39; 14.02)
Multiple pre-existing strictly lobar	1/36	1.53 (0.17; 13.71)
Single pre-existing deep or infratentorial	1/30	2.46 (0.29; 20.86)
Multiple pre-existing deep or infratentorial	5/ <mark>36</mark>	10.31 (3.06; 34.73)
No incident microbleeds	10/725	Reference
Single incident microbleed (all)	3/43	4.65 (1.19; 18.09)
Multiple incident microbleed (all)	7/35	16.18 (5.60; 46.78)
Single incident strictly lobar	2/34	4.00 (0.82; 19.51)
Multiple incident strictly lobar	2/15	9.72 (1.79; 52.72)
Single incident deep or infratentorial	1/9	7.40 (0.80; 68.40)
Multiple incident deep or infratentorial	5/20	23.67 (6.98; 80.25)

Values are adjusted for age, sex, and scan interval.

Values represent odds ratios for incident lacunes in participants with pre-existing and incident microbleeds compared to no microbleeds.

Abbreviations: n= number of participants with incident lacunes; N= total number of participants.

Supplementary Table 2. Categories of microbleed count and progression of WML volume.

	Difference in annual progression of WML volume	
No pre-existing microbleeds	Reference	
Single pre-existing microbleeds (all)	-0.09 (-0.22; 0.05)	
Multiple pre-existing microbleeds (all)	0.07 (-0.12; 0.26)	
Single pre-existing strictly lobar	-0.15 (-0.30; 0.00)	
Multiple pre-existing strictly lobar	0.24 (-0.00; 0.49)	
Single pre-existing deep or infratentorial	0.10 (-0.16; 0.36)	
Multiple pre-existing deep or infratentorial	-0.10 (-0.34; 0.15)	
No incident microbleeds	Reference	
Single incident microbleeds (all)	0.20 (-0.02; 0.41)	
Multiple incident microbleeds (all)	0.26 (0.01; 0.51)	
Single incident strictly lobar	0.30 (0.06; 0.54)	
Multiple incident strictly lobar	0.65 (0.30; 1.01)	
Single incident deep or infratentorial	-0.17 (-0.61; 0.27)	
Multiple incident deep or infratentorial	-0.06 (-0.39; 0.27)	

Values are adjusted for age, sex, scan interval, and intracranial volume.

Values represent differences in annual white matter lesion volume progression in participants with pre-existing and incident microbleeds compared to no microbleeds.

Abbreviations: WML=white matter lesion.

Supplementary Table 3. Microbleeds and progression of WML by APOE & status.

	Differences in annual progression of WML volume		
	Carriers (N=188)	Non-carriers (N=454)	
Pre-existing microbleeds (all)	0.10 (-0.12; 0.32)	-0.12 (-0.25; 0. 0004)	
Pre-existing strictly lobar	0.10 (-0.14; 0.34)	-0.12 (-0.27; 0.02)	
Pre-existing deep or infratentorial	0.14 (-0.20; 0.47)	-0.14 (-0.34; 0.06)	
Incident microbleeds (all)	0.28 (-0.04; 0.61)	-0.03 (-0.22; 0.16)	
Incident strictly lobar	0.34 (-0.02; 0.71)	0.05 (-0.19; 0.28)	
Incident deep or infratentorial	0.09 (-0.56; 0.73)	-0.15 (-0.43; 0.14)	

Adjusted for age, sex, scan interval, and intracranial volume.

Values represent differences in annual white matter lesion volume progression in *APOE* $\varepsilon 4$ carriers and non-carriers with pre-existing and incident microbleeds compared to no microbleeds.

Abbreviations: WML= white matter lesion; *APOE*= *apolipoprotein E*.