

Supplementary Table 7. Overview of the study characteristics and reported prevalence of strictly lobar microbleeds in cognitively normal elderly

Author	Year	Country	Area	Definition domain	Study acronym/ name of cohort	n	Age: mean (SD) or median (range)	Female (%)	Hypertension (%)	MRI parameters (field strength [T]/sequence/ slice thickness [mm])	Prevalence MBs strictly lobar/strictly deep/mixed (%)	QA
Atri ¹²¹	2005	USA	West	Retired nurses, no stroke/dementia	CANHSMR	23	78	100	52.2	1.5/T2*/5	4/NR/NR	2
Barnaure ¹²²	2017	Switzerland	West	Cognitively normal	Geneva University Hospitals	328	74.2	62.2	NR	3/T2*/1.1	20/6/NR	2.5
Brundel ¹²³	2014	The Netherlands	West	Clinically healthy, non-diabetic	UDES	49	71.1 (4.5)	38.8	51.0	7/T2*/0.35	22/6/12	2.5
Chang ¹²⁴	2021	China	East Asia	No cognitive or subjective impairment, MMSE ≥28	Chinese PLA General Hospital	15	78	26.7	66.7	NR/SWI/1.2	27/NR/NR	5
Chiang ¹²⁵	2015	USA	West	Clinically normal	ADNI-2, ADNI-GO	151	NR	NR	NR	3/T2*/4	22/6/2	1
Donaghy ¹²⁶	2020	UK	West	Healthy controls, recruited through research case register or partners of participants	Secondary care services in the North of England	20	75.9 (7.3)	20.0	60.0	3/SWI/3	15/0/0	5
Graff-Radford ¹²⁷	2017	USA	West	Cognitively normal	ARIC	1,072	NR	NR	NR	3/T2*/3.3	14/NR/NR	0
Gregg ¹²⁸	2015	USA	West	32/55 CDR 0, 13/55 CDR 0.5	GEMS	55	86.8 (2.7)	40.0	NR	3/T2* or SWI/3 (gradient echo) and 1.5 or 1.2 for SWI	25/5/7	4
Ham ¹²⁹	2014	South Korea	East Asia	Cognitively normal	Yonsei University Hospital	49	70.4 (6.7)	61.2	42.9	3/T2*/5	10/0/2	2
Johansson ¹³⁰	2016	Sweden	West	Clinically healthy	University hospital, Umea	41	70.5 (5.4)	43.9	68.3	3/T2*/5	10/15/0	1.5
Kwon ¹³¹	2016	South Korea	East Asia	Neurologically healthy; free of strokes/TIA's/neurological symptoms	Seoul National University Hospital	1,737	55.9 (9.1)	45.4	25.9	1.5/T2*/5	2/NR/NR	0
Mendes ¹³²	2018	France	West	Clinically healthy	PHRC-CAPP	19	64 (55–76)*	73.7	47.4	3/T2* or SWI/2.5	5/NR/NR	5.5
Mitaki ¹³³	2017	Japan	East Asia	Neurologically normal	Shimane University, Izumo	4,024	61.6 (10.1)	45.5	31.5	1.5/T2*/7	1/2/1	1.5
Nakata-Kudo ¹³⁴	2006	Japan	East Asia	Normal neurological examination and MRI findings (age-matched to AD group in study)	Kyoto University Hospital	26	71.2 (6.4)	61.5	38.5	1.5/T2*/5	0/0/0	3.5
Ochi ¹³⁵	2009	Japan	East Asia	Free of CVD/severe cognitive dysfunction/dementia	Ehime University Hospital	443	67.1 (8.1)	63.7	56.7	3/T2*/6	2/NR/NR	2
Romero ¹³⁶	2020	USA	West	Dementia-, stroke-, and other neurological disease-free Framingham Heart Study participants	Framingham Heart Study	3,680	55 (13)	53.6	39.4	1.5/T2*/5	4/1/1	2.5
Roob ¹³⁷	1999	Austria	West	No history of neuropsychiatric disease, normal neurological examination	ASPS	280	60	46.8	31.8	NR/T2*/5	3/3/0	0

Supplementary Table 7. Continued

Author	Year	Country	Area	Definition domain	Study acronym/ name of cohort	n	Age: mean (SD) or median (range)	Female (%)	Hypertension (%)	MRI parameters (field strength [T]/sequence/ slice thickness [mm])	Prevalence MBs strictly lobar/strictly deep/mixed (%)	QA
Wang ¹³⁸	2019	Taiwan	East Asia	Free of stroke/ dementia cognitive impairment	ILAS	659	62.1 (8.3)	56.0	37.2	3/SWI/2	5/6/2	0
Wollenweber ¹³⁹	2017	Austria	West	Stroke/dementia-free, normal neurologic examination	ASPFS	372	65 (10.7)	43.3	63.2	3/T2*/4	2/NR/NR	3
Yakushiji ¹⁴⁰	2015	Japan	East Asia	Population, free of neurological disorders, normal neurological examination	Kashima Scan Study	1,451	58 (22–84)*	53.5	NR	1.5/T2*/7	3/3/NR	0
Yilmaz ¹⁴¹	2019	The Netherlands	West	Stroke- and dementia-free population	Rotterdam Study	1,622	73.1 (7.6)	54.3	78.7	1.5/T2*/0.8	18/NR/NR	0
Zhang ¹⁴²	2018	China	East Asia	Hypertensive elderly, free of stroke/ dementia/MCI	3 Centers in northern China	819	64.4 (8.3)	44.8	55.2	3/SWI/1.2	4/NR/NR	2

Prevalence of microbleeds shows the prevalence of (1) strictly lobar microbleeds, (2) strictly deep microbleeds, and (3) mixed microbleeds.

ADNI-2, Alzheimer's Neuro-imaging Initiative 2; ADNI-GO, Alzheimer's Neuro-imaging Initiative GO; ARIC, Atherosclerosis Risk in Communities; ASPFS, Austrian Stroke Prevention Family Study; ASPS, Austrian Stroke Prevention Study; CANHSMR, Cognitive Assessment in Nurses Health Study Massachusetts Residents' cohort; GEMS, Ginkgo Evaluation of Memory Study; ILAS, I-Lan Longitudinal Aging Study; PHRC-CAPP, French multicenter investigation on primary progressive aphasia; UDES, Utrecht Diabetic Encephalopathy Study; AD, Alzheimer's disease; CDR, clinical dementia rating; CVD, cerebrovascular disease; MBs, microbleeds; MCI, mild cognitive impairment; MRI, magnetic resonance imaging; NR, not reported; QA, total score of quality assessment; SD, standard deviation; SWI, susceptibility-weighted imaging; T, tesla; TIA, transient ischemic attack; USA, United States of America.

*Median age and/or age range was reported instead of mean age (SD).