

**Supplementary Table 1. Clinical and neuropathological characteristics of controls and Alzheimer’s disease (AD) patients participating in this study.**

**1a. Patients participating in histological analysis.**

Patient Number	Diagnosis	Age	Gender	PMI (hr)	Vascular Risk Factors	Braak	CERAD	CDR	MMSE	Disease Duration	Source	A $\beta$ load (%)	SD (%)	PICALM/lectin (%)	SD (%)
845	Control	90	F	5	Hypertension; Atherosclerosis	I	Negative	0	30	N/A	USC ADRC	0.50	0.08	46.44	7.89
870	Control	95	F	9	Hypertension	II	Negative	1	Unknown	N/A	USC ADRC	0.98	0.15	57.78	6.93
824	Control	87	F	7	Hypertension	0	Negative	0	30	N/A	USC ADRC	0.71	0.11	64.02	10.24
861	Control	74	F	10	None	I	Negative	0	18	N/A	USC ADRC	0.23	0.04	57.01	9.69
907	Control	84	M	3	None	I–II	Negative	0	28	N/A	USC ADRC	0.91	0.10	50.88	9.16
804	Control	82	M	9	None	0	Negative	0	28	N/A	USC ADRC	0.34	0.04	58.58	5.86
877	Control	93	M	3.75	None	I	Sparse	Unknown	18	N/A	USC ADRC	0.71	0.13	78.84	10.25
559	Control	70	M	10.5	Atherosclerosis	I	Negative	0	Unknown	N/A	USC ADRC	0.32	0.04	48.36	5.80
720	Control	63	M	3.5	Hypertension	0	Negative	0	Unknown	N/A	USC ADRC	0.37	0.06	70.34	11.25
10473384	Control	84	M	5	Hypertension	III	Negative	Unknown	26	N/A	Rush ADRC	1.67	0.17	57.24	9.73
20683921	Control	85	F	6	Hypertension	III	Sparse	Unknown	26	N/A	Rush ADRC	0.54	0.05	44.94	4.49
20993308	Control	83	F	1	None	I	Negative	Unknown	26	N/A	Rush ADRC	0.61	0.07	59.17	5.33
11072071	Control	88	M	8.5	Hypertension	II	Negative	Unknown	27	N/A	Rush ADRC	0.17	0.02	45.08	8.11
15844425	Control	77	M	8	Hypertension	III	Negative	Unknown	28	N/A	Rush ADRC	2.29	0.34	64.32	7.08
11342432	Control	90	M	2.5	None	II	Negative	Unknown	29	N/A	Rush ADRC	0.20	0.03	54.88	7.13
11190734	Control	77	M	4.5	None	II	Negative	Unknown	27	N/A	Rush ADRC	0.25	0.05	68.57	5.49
10383017	Control	88	F	5	Hypertension	I	Negative	Unknown	27	N/A	Rush ADRC	0.18	0.03	64.40	10.30
20998065	Control	82	M	8.5	None	I	Negative	Unknown	28	N/A	Rush ADRC	0.50	0.04	69.30	6.24
11697592	Control	78	M	9.75	None	I	Sparse	Unknown	29	N/A	Rush ADRC	0.61	0.05	56.05	5.61
20800682	Control	85	F	5.75	None	II	Negative	Unknown	30	N/A	Rush ADRC	0.71	0.06	51.48	5.66
785	AD	99	F	12.3	Atherosclerosis	III	Moderate	2	Unknown	7 years	USC ADRC	6.80	0.82	21.12	1.69
896	AD	83	F	13.25	Atherosclerosis, CAA	V–VI	Moderate	2	0	5 years	USC ADRC	14.38	1.58	21.59	3.89
800	AD	96	F	5	Atherosclerosis, CAA	V	Frequent	3	Unknown	9 years	USC ADRC	7.62	1.22	22.88	2.06
689	AD	78	F	7	None	V	Moderate	2	Unknown	8 years	USC ADRC	10.47	1.47	16.66	2.33
719	AD	92	F	4.25	Atherosclerosis, CAA	V–VI	Frequent	2	Unknown	10 years	USC ADRC	12.72	2.16	16.22	2.27

Patient Number	Diagnosis	Age	Gender	PMI (hr)	Vascular Risk Factors	Braak	CERAD	CDR	MMSE	Disease Duration	Source	A $\beta$ load (%)	SD (%)	PICALM/lectin (%)	SD (%)
728	AD	86	M	10	Atherosclerosis, CAA	IV	Moderate	1	Unknown	Unknown	USC ADRC	8.32	1.42	25.07	3.51
905	AD	81	M	8	Atherosclerosis	III	Moderate	2	11	5 years	USC ADRC	5.24	0.47	28.08	2.81
890	AD	71	M	5.5	None	V–VI	Moderate	2	8	4 years	USC ADRC	17.20	2.75	10.57	0.95
796	AD	76	M	5	Atherosclerosis, CAA	V	Moderate	3	0	2 years	USC ADRC	11.65	1.28	14.20	1.28
825	AD	68	F	9.75	Hypertension	III	Moderate	1	15	4 years	USC ADRC	4.99	0.60	29.14	5.25
902	AD	91	F	3.25	Atherosclerosis	V–VI	Frequent	3	6	3 years	USC ADRC	18.57	1.86	6.25	1.00
900	AD	87	M	5.5	Atherosclerosis, CAA	V–VI	Frequent	2	19	Unknown	USC ADRC	9.45	1.70	17.01	3.06
799	AD	95	F	6	Atherosclerosis	V	Frequent	2	Unknown	17 years	USC ADRC	11.20	1.68	22.56	3.16
854	AD	87	F	5.5	Atherosclerosis, CAA	V	Moderate	2	0	17 years	USC ADRC	5.00	0.75	31.31	3.76
888	AD	51	F	6	None	V–VI	Frequent	Unknown	Unknown	1 month	USC ADRC	7.26	0.94	38.61	3.09
427	AD	74	M	9	Atherosclerosis, CAA	V	Frequent	3	Unknown	15 years	USC ADRC	13.53	2.30	21.42	2.14
851	AD	87	F	4.75	Atherosclerosis	V	Frequent	3	16	6 months	USC ADRC	12.70	2.29	28.00	4.20
808	AD	98	M	6	Hypertension, CAA	V–VI	Frequent	1	28	2 years	USC ADRC	14.11	1.13	36.18	3.62
910	AD	100	F	4.75	Atherosclerosis	IV	Moderate	1	11	Unknown	USC ADRC	7.55	1.06	28.13	3.66
911	AD	88	M	7	Atherosclerosis	III	Moderate	1	19	Unknown	USC ADRC	3.40	0.61	26.97	2.70
915	AD	86	F	7.5	Atherosclerosis, CAA	V	Frequent	3	Unknown	Unknown	USC ADRC	9.91	1.19	23.52	3.53
20195344	AD	94	F	5	Hypertension	IV	Moderate	Unknown	11	2 years	RUSH ADRC	5.17	0.93	19.74	2.96
10248033	AD	88	M	18	Hypertension	III	Moderate	Unknown	12	2 years	RUSH ADRC	0.66	0.11	30.53	3.66
11606935	AD	98	M	4	Hypertension	III	Moderate	Unknown	18	1 years	RUSH ADRC	4.31	0.78	32.30	3.88
21403995	AD	86	F	21	Hypertension	III	Frequent	Unknown	15	3 years	RUSH ADRC	2.51	0.33	30.08	3.61
20865035	AD	101	F	8.75	Hypertension	IV	Moderate	Unknown	19	2 years	RUSH ADRC	11.44	1.94	16.35	1.64
20254902	AD	94	M	6	Hypertension	IV	Moderate	Unknown	24	2 years	RUSH ADRC	9.92	1.79	23.66	1.89
20187042	AD	84	F	13	Hypertension	III	Moderate	Unknown	22	6 months	RUSH ADRC	4.94	0.74	22.75	3.41
20506587	AD	92	F	4.25	None	III	Moderate	Unknown	Unknown	2 years	RUSH ADRC	2.16	0.28	40.85	6.13
11326252	AD	95	M	3.25	Hypertension	IV	Moderate	Unknown	20	3 years	RUSH ADRC	9.92	1.79	30.24	4.84

**1b. Patients participating in a rapid brain autopsy study to establish brain endothelial cell (BEC) cultures.**

<b>Patient Number</b>	<b>Diagnosis</b>	<b>Age</b>	<b>Gender</b>	<b>PMI (hr)</b>	<b>Vascular Risk Factors</b>	<b>Braak</b>	<b>CERAD</b>	<b>CDR</b>	<b>Source</b>
17	Control	59	F	4.5	None	0	Negative	0	Rochester ADRC
29	Control	96	F	6	None	0	Negative	0	Rochester ADRC
38	Control	58	F	5.5	None	0	Negative	0	Rochester ADRC
39	Control	72	M	4.3	Atherosclerosis Myocardial Infarction	0-I	Sparse	0	Rochester ADRC
40	Control	73	M	4.7	Atherosclerosis	I-II	Negative	0	Rochester ADRC
804	Control	82	M	9	None	0	None	0	USC ADRC
845	Control	90	F	5	Hypertension Atherosclerosis	I	Sparse	0	USC ADRC
877	Control	93	M	3.75	None	I	Sparse	Unknown	USC ADRC
37	AD	80	F	3.0	Atherosclerosis	V-VI	Frequent	3	Rochester ADRC
41	AD	80	F	3.1	None	V-VI	Frequent	2	Rochester ADRC
42	AD	80	F	5.2	None	III-V	Moderate	2	Rochester ADRC
43	AD	77	M	2.8	None	V-VI	Frequent	2	Rochester ADRC
49	AD	78	M	5.0	Atherosclerosis	V-VI	Frequent	2	Rochester ADRC
799	AD	95	F	6	Atherosclerosis	V	Frequent	2	USC ADRC
854	AD	87	F	5.5	Atherosclerosis	V	Moderate	2	USC ADRC
888	AD	51	F	6	None	V-VI	Frequent	Unknown	USC ADRC