

Supplementary Table 1. Neuropathologic and Alzheimer changes in controls.

	Control 1-1	Control 1-2	Control 1-3	Control 2-1	Control 2-2	Control 2-3	Control 2-4	Control 2-5	Control 3-1	Control 3-2	Control 3-3	Control 3-4	Control 4-1	Control 4-2	Control 4-3	Control 4-4
Gender	F	M	F	F	F	F	M	F	M	F	F	F	F	F	M	F
Age at death	88	89	83	99	79	94	84	81	87	74	83	80	88	81	80	80
PMH (hours)	11.7	15.1	6.1	10.4	3	20	3.2	17.7	4.7	5.5	4.3	16.9	48	unknown	unknown	13.5
Brain weight (grams)	920	1,205	1,310	1,130	1,174	990	1,283	1,130	1,230	990	1,124	1,084	1,300	1,150	1,268	1,141
APOE	unavailable	34	34	34	33	34	34	33	33	unavailable	34	33	24	34	33	34
Alzheimer disease changes (A, B, C)	3,2,1	3,2,1	3,2,1	3,2,2	3,2,2	3,2,2	3,2,2	3,2,2	3,2,3	3,2,3	3,2,3	unclassifiable	3,2,2	3,2,2	3,2,2	3,2,2
Superior frontal gyrus & anterior cingulate gyrus	1	2	1	2	1	2	2	1	2	2	2	1	2	2	1	1
Caudate nucleus & putamen	1	1	1	2	1	2	1	0	1	1	1	2	2	2	0	1
Globus pallidus	1	1	1	1	1	2	2	2	1	1	1	1	2	2	1	1
Substantia innominata	1	1	1	1	2	2	2	1	3	1	2	2	3	2	0	1
Amygdala	3	2	1	2	1	3	1	1	3	2	2	2	2	3	0	2
Superior and middle temporal gyrus	1	2	1	1	1	2	2	2	2	2	2	2	2	2	0	2
Subthalamic nucleus	1	2	2	2	1	1	1	0	1	1	1	0	1	2	0	2
Thalamus	1	2	2	2	1	1	1	0	1	1	1	0	1	2	0	2
Hippocampus, CA1 - CA4	2	2	2	2	1	1	2	2	1	1	1	1	2	2	0	2
Hippocampus, Molecular layer	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Hippocampus, Dentate Gyrus	0	1	0	0	1	2	1	0	0	0	0	0	1	1	0	2
Subiculum	3	3	0	1	1	3	2	1	3	2	2	1	2	2	0	2
Entorhinal Cortex	3	2	1	2	1	3	2	1	3	2	2	2	2	2	0	3
Superior parietal lobule	2	2	1	2	1	2	3	1	2	2	2	2	2	2	0	1
Calcarine cortex	1	2	1	2	1	1	2	1	2	2	2	1	1	2	0	1
Cerebellum, molecular layer	1	2	1	1	1	2	0	0	1	0	0	2	0	2	0	1
Cerebellum, Purkinje cell layer	0	2	1	2	1	3	2	1	2	1	2	2	2	2	0	2
Cerebellum, granule cell layer	0	2	1	2	1	2	0	0	1	0	0	2	0	2	0	2
Cerebellum, dentate nucleus	2	0	1	2	1	1	1	1	0	1	2	1	1	2	0	2
Cerebellum, white matter	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Midbrain, superior colliculus	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Midbrain, periaqueductal grey	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Midbrain, substantia nigra	2	1	0	0	1	1	2	2	1	2	2	0	1	1	0	1
Midbrain, red nucleus	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Midbrain, locus coeruleus	1	1	0	0	1	2	1	1	0	2	1	2	2	3	0	2
Pons, pontine nuclei	0	0	2	2	0	0	1	0	0	0	0	0	0	0	0	0
Pons, reticular formation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Medulla, dorsal motor nucleus of the vagus nerve	0	0	0	0	0	1	1	0	0	0	2	2	2	3	0	2
Medulla, hypoglossal nucleus	0	0	1	2	0	1	1	0	0	0	2	2	2	3	0	2
Medulla, inferior olivary nucleus	1	0	0	2	1	1	2	2	0	1	2	2	1	2	0	2
Middle frontal gyrus	1	2	1	2	1	2	2	1	2	n/a	n/a	1	2	2	0	1

Areas of neuronal loss and gliosis AND no associated AD related pathology (neuritic plaques, diffuse plaques, neurofibrillary tangles, neuropil threads, tau-ir neurons)
 Plaques (Neuritic and Diffuse)
 Plaques (Neuritic and Diffuse) & Tangles
 Tangles, only

Degree of neuron loss and gliosis in brain regions: none = 0, mild = 1, moderate = 2, severe = 3

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