

THE LANCET **Neurology**

Supplementary webappendix

This webappendix formed part of the original submission and has been peer reviewed. We post it as supplied by the authors.

Supplement to: Whitwell JL, Dickson DW, Murray ME, et al. Neuroimaging correlates of pathologically defined subtypes of Alzheimer's disease: a case-control study. *Lancet Neurol* 2012; published online Sep 3. [http://dx.doi.org/10.1016/S1474-4422\(12\)70200-4](http://dx.doi.org/10.1016/S1474-4422(12)70200-4).

Supplemental Table 1: Imaging and pathological data for typical Alzheimer’s disease (AD) with predominant memory impairment versus typical AD with predominant impairment in another domain*

	Typical AD Memory (<i>n</i> = 98)	Typical AD Other (<i>n</i> = 25)	<i>p</i> -value†
Gray matter volume scaled by total intracranial volume			
Hippocampus/cortex ratio	0.041 (0.031, 0.057)	0.045 (0.035, 0.056)	0.001
Hippocampus	0.45 (0.28, 0.60)	0.47 (0.36, 0.56)	0.05
Amygdala	0.13 (0.08, 0.16)	0.13 (0.10, 0.16)	0.04
Entorhinal cortex	0.18 (0.10, 0.26)	0.19 (0.13, 0.24)	0.04
Parahippocampal gyrus	0.19 (0.14, 0.23)	0.18 (0.14, 0.24)	0.64
Substantia innominata	0.02 (0.01, 0.02)	0.01 (0.01, 0.02)	0.01
Striatum	0.83 (0.56, 1.24)	0.77 (0.63, 0.96)	0.03
Thalamus	0.29 (0.21, 0.39)	0.28 (0.21, 0.37)	0.19
Orbitofrontal cortex	1.91 (1.32, 2.61)	1.96 (1.56, 2.43)	0.32
Lateral frontal lobe	3.99 (2.63, 5.11)	3.89 (3.17, 4.76)	0.67
Lateral temporal lobe	4.43 (2.83, 5.98)	4.22 (3.65, 4.90)	0.03
Lateral parietal lobe	2.33 (1.38, 3.22)	2.24 (1.48, 2.94)	0.10
Precuneus	1.22 (0.78, 1.61)	1.18 (0.90, 1.43)	0.18
Cingulum	1.63 (1.20, 2.01)	1.64 (1.42, 1.88)	0.48
Neurofibrillary tangle count			
Middle frontal	4 (0, 25)	10 (0, 22)	0.01
Superior temporal	7 (0, 33)	12 (2, 32)	0.009
Inferior parietal	5 (0, 30)	12 (0, 31)	0.001
Hippocampus CA1	10 (1, 45)	13 (1, 30)	0.83
Hippocampus subiculum	16 (0, 66)	17 (0, 53)	0.83

Data shown as median (range)

* Two subjects could not be categorized based on limited clinical data.

† Based on two-sample *t*-test with unequal variances. Nonparametric rank-sum test results were very similar

Supplemental Figure 1: patterns of grey matter loss in each Alzheimer's disease subtype compared with the entire cohort of 177 controls

