

Additional file 5:

Table S2: Associations between in-vivo amyloid stage and cognitive performance.

Analysis of Covariance (ANCOVA) assessing the effect of in-vivo amyloid stage and conventional binary amyloid status on scores of the main principal components as well as the most representative tests for each of these components. Effects for in-vivo amyloid stage were assessed both with and without inclusion of the few individuals classified as stage 4 (N=4). Binary global amyloid status was assessed using both standard non-PVE corrected data and PVE-corrected data. In the binary approach a standard cutoff of $SUVR > 1.10$ was used for non-PVE corrected data, and for PVE-corrected data the same cutoff value was extrapolated to a value of $SUVR = 0.93$ (using the linear regression approach depicted in Additional File 2).

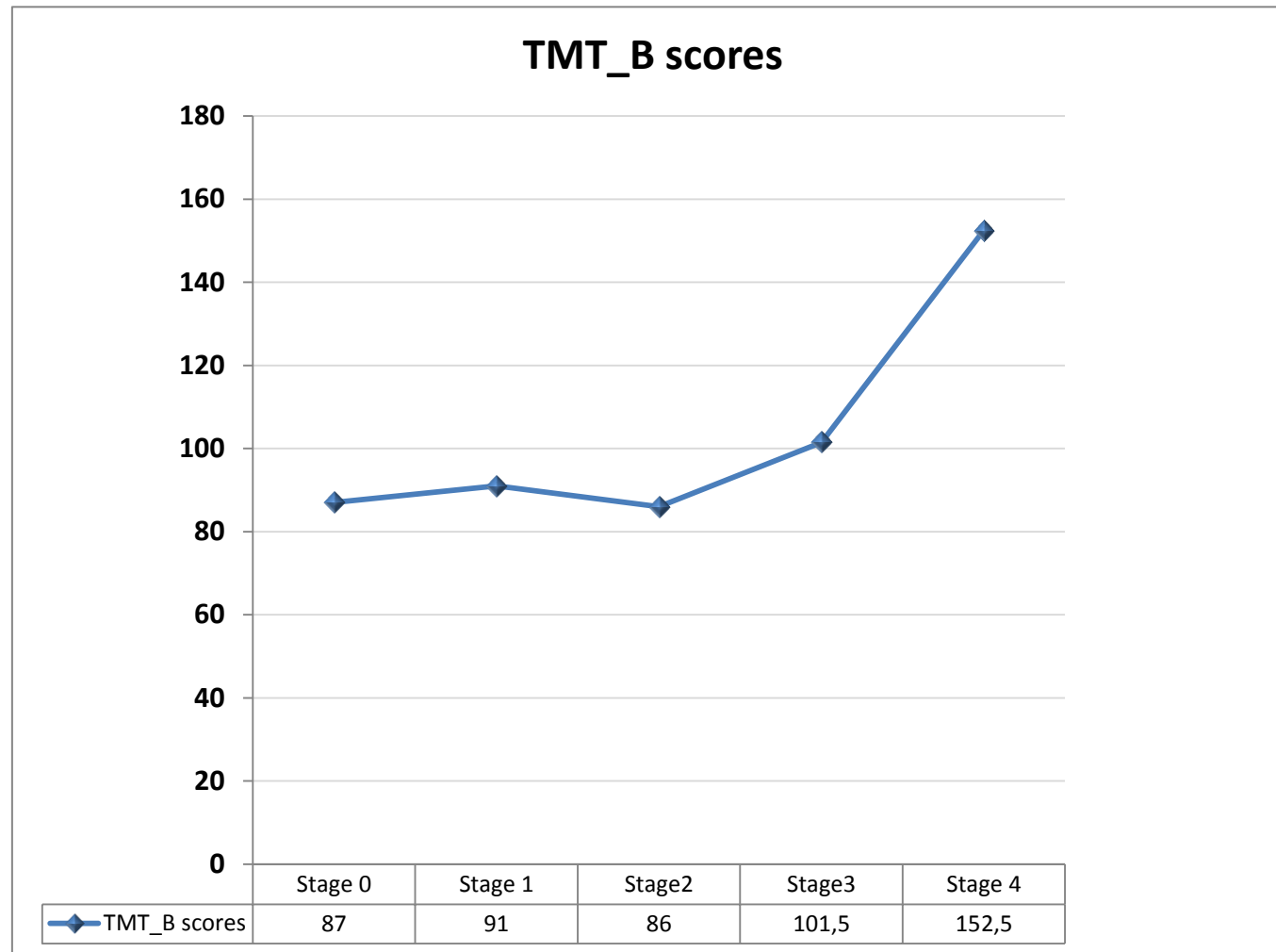
The values that passed the nominal level of significance ($p < 0.05$) are written in bold and marked by the symbol (*). None of these values survived Bonferroni correction for multiple comparisons across the 3 principal component scores and their most representative test scores (total of 6 statistical tests).

SS: Sum of squares; df: degree of freedom; MS: Mean squares; Sig: significance

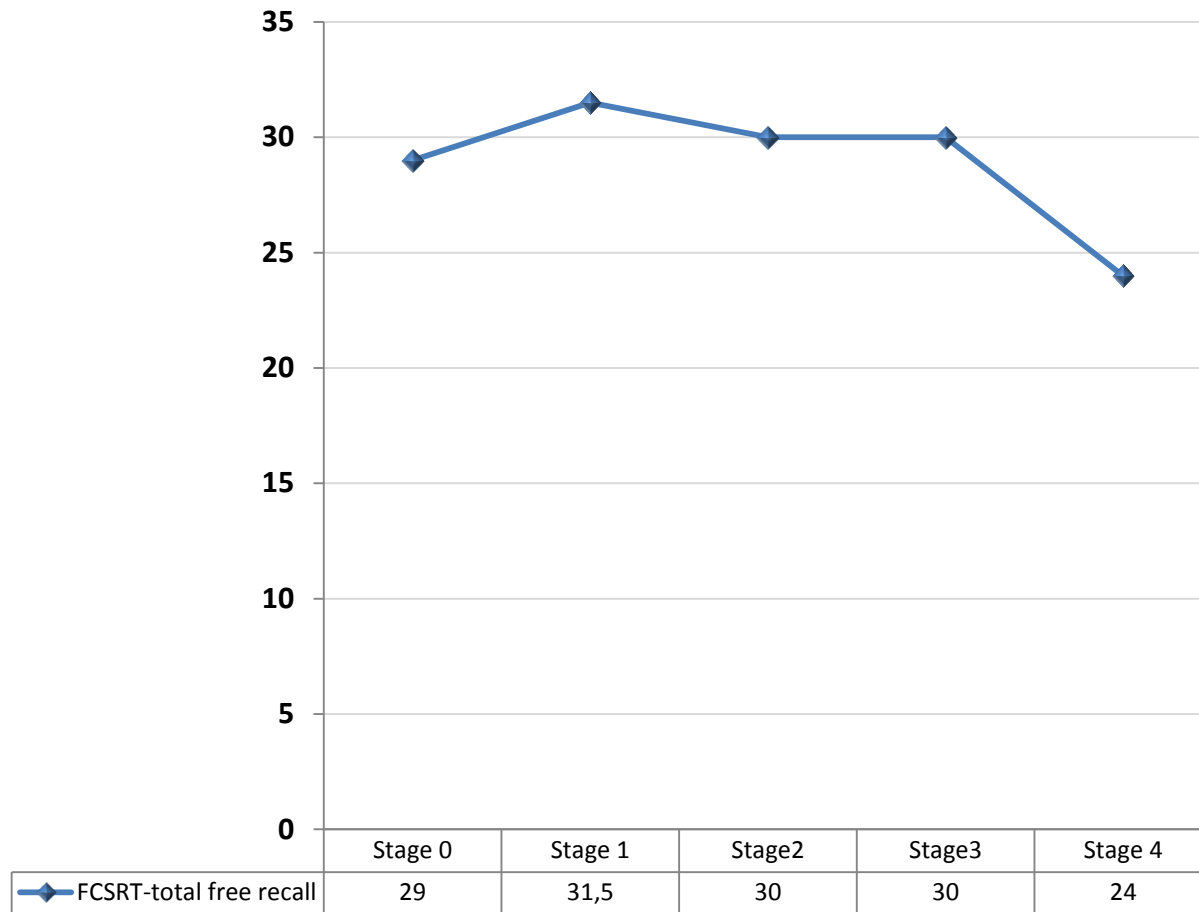
	Model	SS	df (error)	MS	F	Sig. (p value)	Partial η^2
PC1	Staging4 (0.98)	6.484	3(142)	2.161	2.102	0.103	0.043
	Staging(exclude stage4)	5.083	2(139)	2.542	2.467	0.089	0.034
	Binary non –PVC-PET	2.240	1(299)	2.240	2.412	0.122	0.008
	Binary PVC-PET	2.177	1(299)	2.177	2.342	0.127	0.008
PC2	Staging4 (0.98)	1.280	3(142)	0.427	0.431	0.731	0.009
	Staging(exclude stage4)	0.561	2(139)	0.280	0.296	0.744	0.004
	Binary non –PVC-PET	0.117	1(299)	0.117	0.118	0.732	0.0001
	Binary PVC-PET	0.076	1(299)	0.076	0.077	0.781	0.0001
PC3	Staging4 (0.98)	10.198	3(142)	3.399	4.463	0.005*	0.086*
	Staging(exclude stage4)	3.383	2(139)	1.692	2.202	0.114	0.031
	Binary non –PVC-PET	0.002	1(299)	0.002	0.003	0.960	0.0001
	Binary PVC-PET	0.067	1(299)	0.067	0.075	0.785	0.0001

	Model	SS	df (error)	MS	F	Sig. (p value)	Partial η^2
FCSRT total free recall	Staging4 (0.98)	10.022	3(147)	3.341	3.292	0.022*	0.063*
	Staging(exclude stage4)	5.455	2(144)	2.728	2.661	0.073	0.030
	Binary non –PVC- PET	2.921	1(313)	2.921	3.146	0.077	0.010
	Binary PVC-PET	2.449	1(313)	2.449	2.633	0.106	0.008
MCT- Immediate Free recall (List A+B)	Staging4 (0.98)	1.836	3(143)	0.612	0.661	0.578	0.014
	Staging(exclude stage4)	0.921	2(140)	0.460	0.515	0.599	0.007
	Binary non –PVC- PET	0.176	1(303)	0.176	0.180	0.672	0.001
	Binary PVC-PET	0.039	1(303)	0.039	0.40	0.842	0.0001
TMT - B	Staging4 (0.98)	8.607	3(147)	2.869	2.922	0.036*	0.056*
	Staging(exclude stage4)	2.717	2(144)	1.358	1.365	0.259	0.019
	Binary non –PVC- PET	1.040	1(311)	1.040	1.114	0.292	0.004
	Binary PVC-PET	1.520	1(311)	1.520	1.631	0.203	0.005

The median values of the cognitive tests scores with the highest loadings for each of the extracted principal components,(TMT B-scores, FCSRT total free recall scores and MCT both lists immediate recall scores, are shown for the different in-vivo amyloid stages.



FCSRT Total free recall scores



MCT Immediate recall List 1+2 scores

