

SUPPLEMENTARY TABLES

Supplementary table 1: WMS-R-J scores except for LM and VR, and SPECT findings in the 2y-MCI-C and 2y-MCI-NC groups

More than 2 years followed baseline MCI patients (n = 23)	2y-MCI-C n = 10	2y-MCI-NC n = 13	p-value	F (df 1)
MMSE delayed recall (range 0-3)	1.2 (0.9)	2.3 (0.6)	0.003	11.8
WMS-R-J				
VIPA-I (SD)	6.8 (2.4)	10.7 (4.0)	0.013	7.30
VIPA-II	3.0 (1.5)	4.4 (1.7)	0.051	4.29
VIPA-II/I	44.3 (12.7)	46.5 (25.5)	0.811	0.058
VEPA-I	9.8 (4.3)	13.3 (3.0)	0.032	5.28
VEPA-II	3.9 (1.7)	5.7 (1.4)	0.010	8.00
VEPA-II/I	42.7 (14.3)	43.7 (11.8)	0.850	0.037
rIRI	72.4 (16.5)	97.4 (14.7)	0.001	14.7
rDRI	23.5 (12.2)	57.4 (14.4)	<0.001	35.7
rDRI/rIRI	31.1 (12.2)	59.2 (12.7)	<0.001	28.8
SPECT (precuneus hypoperfusion) (%)	6/9 (66.7)	2/12 (16.7)	0.018	6.66

Values are presented as means. SPECT was not performed in 2 patients. F, F-value; df, degrees of freedom; SD, standard deviation; 2y-MCI-C (MCI converters), MCI patients that progressed to AD within 2 years; 2y-MCI-NC (MCI non-converters), MCI patients that did not progress to dementia within 2 years; MMSE, Mini-Mental State Examination; VIPA, Visual Paired Associates; VEPA, Verbal Paired Associates; rIRI, raw score of Immediate Recall Index; rDRI, raw score of Delayed Recall Index; -I, immediate recall of that subtest; -II, delayed recall of that subtest; -II/I or rDRI/rIRI, percentage retention score (percentage retention from immediate to delayed recall).

Supplementary table 2: Analysis by multiple logistic regression of variable for more than 2y-followed baseline MCI patients (n = 23)

Variable	multiple logistic regression		
	p-value	OR	95%CI
MMSE delayed recall (range 0-3)	0.027	0.098	0.012-0.77
WMS-R-J			
LM-I (SD)	0.029	0.73	0.55-0.97
VR-II	0.032	0.75	0.57-0.98
VR-II/I	0.022	<0.001	<0.01-0.23
rIRI	0.109	0.77	0.57-1.06
rDRI/rIRI	0.032	0.78	0.63-0.98
SPECT (precuneus hypoperfusion)	0.046	9.02	1.04-78.5

SPECT was performed for 21 patients. Multiple logistic regression was performed using Age, Sex and Educational years as covariates with MCI as the outcome of significantly predictive factors by univariate logistic regression analysis. MMSE, LM-II, LM-II story A, LM-II/I, VR-I, rDRI were not significant in univariate logistic regression analyses. OR, odds ratio; 95% CI, 95% confidence interval

Supplementary table 3. Correlation coefficients for MMSE and WMS-R-J indices

Supplementary table 3A: Correlation coefficients for each item in MCI patients (n = 27)

MCI (n = 27)	LM-I	LM-II	VIPA-I	VIPA-II	VEPA-I	VEPA-II	VR-I	VR-II	rIRI	rDRI
MMSE	0.439	0.230	0.104	0.174	0.154	0.106	-0.048	0.143	0.219	0.199
LM-I		0.727	0.068	0.151	0.469	0.358	0.026	0.344	0.524	0.503
LM-II			0.123	0.097	0.463	0.450	0.059	0.476	0.477	0.670
VIPA-I				0.512	0.306	0.285	0.421	0.316	0.682	0.365
VIPA-II					0.490	0.518	0.714	0.426	0.680	0.542
VEPA-I						0.775	0.465	0.546	0.840	0.686
VEPA-II							0.392	0.559	0.678	0.734
VR-I								0.667	0.683	0.626
VR-II									0.666	0.940
rIRI										0.781

Supplementary table 3B: Correlation coefficients for each item in ND participants (n = 66)

ND (n = 66)	LM-I	LM-II	VIPA-I	VIPA-II	VEPA-I	VEPA-II	VR-I	VR-II	rIRI	rDRI
MMSE	0.398	0.321	0.366	0.415	0.377	0.271	0.217	0.161	0.457	0.344
LM-I		0.891	0.445	0.500	0.495	0.278	0.309	0.184	0.742	0.615
LM-II			0.491	0.477	0.578	0.375	0.307	0.319	0.755	0.750
VIPA-I				0.610	0.575	0.496	0.404	0.198	0.846	0.539
VIPA-II					0.586	0.523	0.533	0.330	0.723	0.637
VEPA-I						0.674	0.287	0.349	0.822	0.717
VEPA-II							0.345	0.297	0.622	0.622
VR-I								0.440	0.538	0.485
VR-II									0.336	0.772
rIRI										0.782

Pearson product-moment correlation coefficients > 0.9 only occur between VR-II and rDRI of

MCI patients (written in bold). MMSE, Mini-Mental State Examination; LM, Logical Memory; VR, Visual

Reproduction; VIPA, Visual Paired Associates; VEPA, Verbal Paired Associates; rIRI, raw score of

Immediate Recall Index; rDRI, raw score of Delayed Recall Index; -I, immediate recall of that subtest; -II,

delayed recall of that subtest;