

Supplemental Table S1: Multivariate logistic regression analysis

Model with Variable(s)	AD vs. SCD		AD vs. MCI		MCI vs. SCD	
	OR (95% CI)	p Value	OR (95% CI)	p Value	OR (95% CI)	p Value
Model 1		<.001*		<.001*		0.05
Maximum MTA	2.63 (1.85, 3.75)	<.001*	2.08 (1.67, 2.60)	<.001*	1.35 (0.99, 1.84)	0.06
Model 2		<.001*		<.001*		<.001*
Maximum ERiCA	5.56 (3.06, 10.13)	<.001*	2.52 (1.86, 3.42)	<.001*	1.91 (1.21, 3.02)	0.01*
Model 3		<.001*		<.001*		0.01*
Maximum MTA	1.34 (0.81, 2.24)	0.25	1.72 (1.23, 2.41)	0.002*	0.80 (0.47, 1.37)	0.41
Maximum ERiCA	3.92 (1.71, 9.00)	0.001*	1.41 (0.88, 2.24)	0.15	2.50 (1.13, 5.57)	0.02*
Model 4		<.001*		<.001*		0.005*
NTHV	<.001 (<.001, 0.1)	0.01*	<.001 (<.001, 0.02)	0.004*	0.01 (<.001, 1.30)	0.07
Maximum MTA	0.96 (0.54, 1.71)	0.96	1.30 (0.90, 1.90)	0.17	0.77 (0.54, 1.10)	0.15
Maximum ERiCA	2.95 (1.21, 3.22)	0.01*	1.20 (0.74, 1.93)	0.47	1.57 (0.96, 2.56)	0.07
Model 5		<.001*		<.001*		<.001*
NTHV	0.01 (<.001, 27.11)	0.20	<.001 (<.001, 0.03)	0.01*	0.15 (<.001, 340.71)	0.63
Maximum MTA	0.89 (0.49, 1.60)	0.69	1.30 (0.89, 1.89)	0.17	0.56 (0.30, 1.06)	0.07
Maximum ERiCA	3.14 (1.31, 7.53)	0.01*	1.20 (0.74, 1.93)	0.47	2.09 (0.92, 4.77)	0.08
Age at diagnosis	1.06 (1.00, 1.13)	0.05	1.00 (0.97, 1.04)	0.94	1.07 (1.02, 1.12)	0.004*
Model 6		<.001*		<.001*		0.001*
NTHV	<.001 (<.001, 11.46)	0.13	<.001 (<.001, 0.01)	<.001*	0.03 (<.001, 205.32)	0.43
Maximum MTA	0.85 (0.46, 1.59)	0.62	1.23 (0.84, 1.80)	0.30	0.50 (0.25, 0.97)	0.04
Maximum ERiCA	2.97 (1.17, 7.51)	0.02*	1.19 (0.73, 1.94)	0.49	2.37 (1.00, 5.60)	0.05
Sex: Female vs. Male	2.15 (0.71, 6.53)	0.18	1.43 (0.80, 2.56)	0.23	1.18 (0.50, 2.80)	0.71
Race: Minority vs. White)	1.06 (0.35, 3.22)	0.92	1.40 (0.77, 2.52)	0.27	0.59 (0.25, 1.38)	0.22
Highest education: ≤HS vs. >HS	2.19 (0.56, 8.52)	0.26	1.48 (0.77, 2.84)	0.24	1.82 (0.64, 5.15)	0.26
Age at diagnosis	1.06 (1.00, 1.14)	0.07	1.00 (0.96, 1.04)	0.97	1.07 (1.02, 1.12)	0.01*
Arterial hypertension: No vs. Yes	0.79 (0.27, 2.32)	0.66	1.04 (0.56, 1.94)	0.90	0.77 (0.32, 1.85)	0.56
Diabetes mellitus: No vs. Yes	2.79 (0.89, 8.75)	0.08	1.16 (0.59, 2.28)	0.67	2.49 (1.02, 6.07)	0.04*

Note.- MTA = medial temporal atrophy, ERiCA = entorhinal cortical atrophy, NTHV = normalized total hippocampal volume, HS = high school.

*Denotes statistical significance at alpha = 0.05

Supplemental Table S2: Comparison of Area Under Curve (AUC) Values

Model	AD vs. SCD	AD vs. MCI	MCI vs. SCD
Overall model	0.87 (0.79, 0.94)	0.76 (0.71, 0.82)	0.72 (0.63, 0.81)
NTHV	0.83 (0.74, 0.91)	0.75 (0.69, 0.81)	0.66 (0.55, 0.77)
Maximum MTA	0.80 (0.71, 0.89)	0.73 (0.68, 0.79)	0.61 (0.51, 0.71)
Maximum ERiCA	0.83 (0.76, 0.90)	0.71 (0.65, 0.77)	0.64 (0.55, 0.73)

Note.- 95% CI (in parenthesis). Overall model includes NTHV, maximum MTA, maximum ERiCA and age at diagnosis.

ROC = receiver-operating characteristic curve, AD = Alzheimer's disease, SCD = subjective cognitive decline, MCI = mild cognitive impairment, NTHV = normalized total hippocampal volume, MTA = medial temporal atrophy, ERiCA = entorhinal cortical atrophy, CI = confidence interval. Maximum MTA and maximum ERiCA refers to the higher score of the right and left values of the respective parameters.