Supplementary Material

Plasma High Density Lipoprotein Small Subclass Is Reduced in Alzheimer's Disease Patients and Correlates with Cognitive Performance

НС								
	<i>APOE</i> ε4- (n = 271)	<i>APOE</i> ϵ 4+ (n = 76)	р					
Cholesterol (mg/dl)	220 ± 37 231 ± 38		0.018					
LDL (mg/dl)	131 ± 32	145 ± 35 0.001						
HDL (mg/dl)	66 ± 18	66 ± 18 65 ± 17						
TG (mg/dl)	114 ± 51	107 ± 47	0.195					
MCI								
	APOE ε 4- (n = 23)	APOE $\varepsilon 4+(n=32)$	р					
Cholesterol (mg/dl)	213 ± 39	216 ± 37	0.973					
LDL (mg/dl)	126 ± 36	130 ± 32	0.878					
HDL (mg/dl)	62 ± 13	63 ± 16	0.993					
TG (mg/dl)	127 ± 67	113 ± 46	0.595					
AD								
	APOE ε 4- (n = 36)	APOE $\varepsilon 4+(n=48)$	р					
Cholesterol (mg/dl)	222 ± 46	229 ± 42	0.616					
LDL (mg/dl)	132 ± 40	137 ± 38	0.714					
HDL (mg/dl)	65 ± 17	66 ± 18	0.651					
TG (mg/dl)	124 ± 51	132 ± 104	0.640					

Supplementary Table 1. Comparison of lipid distribution with regards to *APOE* ɛ4 status in HC, MCI, and AD groups.

Non-parametric Mann-Whitney U Test was used and regarded as significant when p < 0.05 (bold). Values are presented as mean \pm S.D.

HC									
	HDL Subdistribution (% of total HDL)			HDL Subdistribution (mg/dl)					
	APOE ε4-	APOE E4+	р	APOE ε4-	APOE E4+	р			
HDL L	34.5 ± 10.1	34.2 ± 10.5	0.95	24.2 ± 12.7	23.5 ± 11.7	0.80			
HDL I	53.8 ± 6.8	54.2 ± 6.5	0.99	34.9 ± 7.6	34.9 ± 7.8	0.85			
HDL S	11.6 ± 5.5	11.5 ± 6.1	0.86	7.2 ± 3.0	7.1 ± 3.5	0.72			
MCI/AD									
	HDL Subdistribution (% of total HDL)			HDL Subdistribution (mg/dl)					
	APOE ε4-	APOE E4+	р	APOE ε4-	APOE e4+	р			
HDL L	32.2 ± 10.4	36.2 ± 9.5	0.10	20.9 ± 10.6	24.0 ± 10.7	0.27			
HDL I	55.3 ± 6.7	53.1 ± 5.5	0.20	33.8 ± 5.1	33.2 ± 6.7	0.33			
HDL S	12.4 ± 6.7	10.6 ± 5.5	0.33	7.4 ± 3.5	6.4 ± 2.9	0.30			
AD									
	HDL Subdistribution (% of total HDL)			HDL Subdistribution (mg/dl)					
	APOE ε4-	APOE E4+	р	APOE ε4-	APOE e4+	р			
HDL L	38.7 ± 9.7	38.0 ± 11.0	0.94	25.9 ± 10.7	25.9 ± 11.6	0.97			
HDL I	52.8 ± 6.7	53.3 ± 8.0	0.79	34.0 ± 7.3	34.8 ± 9.2	0.74			
HDL S	8.3 ± 5.6	8.6 ± 5.2	0.66	5.4 ± 4.0	5.3 ± 3.1	0.69			

Supplementary Table 2. Comparison of HDL sub-distribution with regards to *APOE* ε4 status in the HC, MCI, and AD groups, expressed as % or mg/dl.

ANCOVA (analyses were adjusted for sex, age and site) or non-parametric Mann-Whitney U Test were used and regarded as significant when p < 0.05. For HDL S (% and mg/dl), HDL L (mg/dl) and HDL I (mg/dl) non-parametric tests were used. Values are presented as mean \pm S.D.