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Supplementary Material

Article Title: Association Between White Matter Hyperintensity Severity and Cognitive Impairment According to the Presence of the Apolipoprotein E (*APOE*) ϵ 4 Allele in the Elderly: Retrospective Analysis of Data From the CREDOS Study

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1. [eTable 1](#) Effect of the *APOE* ϵ 4 Allele on Cognitive Impairment

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Supplementary eTable 1. Effect of the *APOE* ϵ 4 Allele on Cognitive Impairment

Function	Test	Model 1 ^a		Model 2 ^b	
		OR (95% CI)	<i>p</i>	OR (95% CI)	<i>p</i>
Language	K-BNT	1.29(1.14-1.46)	<.001	1.31(1.15-1.49)	<.001
Verbal memory	SVLT- delayed recall	2.47(2.15-2.83)	<.001	2.50(2.18-2.88)	<.001
Visuospatial memory	RCFT- delayed recall	2.30(2.01-2.63)	<.001	2.35(2.06-2.69)	<.001
Attention	Digit span- backward	1.17(1.03-1.33)	.016	1.20(1.06-1.36)	.005
Frontal/ executive Function	Stroop test- color reading	1.30(1.15-1.47)	<.001	1.35(1.19-1.53)	<.001
	COWAT	1.42(1.25-1.61)	<.001	1.48(1.30-1.68)	<.001

^a Model 1: Adjusted by age, gender, education, illness duration, cerebrovascular risk factors (hypertension, diabetes, hyperlipidemia, cardiac disease), and depression score; ^b Model 2: Model 1+ Adjusted by white matter hyperintensities severity.

Abbreviation: K-BNT=Korean Boston Naming Test, SVLT=Seoul Verbal Learning Test, RCFT=Rey-Complex Figure Test, COWAT=Controlled Oral Word Association Test, OR=Odd Ratio; CI=Confidence Interval.