

## **Metabolic syndrome and localization of white matter hyperintensities in the elderly population.**

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APPENDIX

Table A: Factors associated with total WMH volumes categorized in tertiles

	WMH volumes		
	Low levels (<0.7 mL)	High levels (≥0.7 mL)	p-value
Median, (25 <sup>th</sup> -50 <sup>th</sup> percentile)	0.30, (0.10-0.40)	1.75, (0.80-1.75)	
Women, %	53.7	52.0	0.76
Age, m (SD)	70.2 (3.7)	72.1 (4.1)	<10 <sup>-4</sup>
No academic qualification /primary school, %	17.5	19.6	0.85
Current smokers, %	7.5	8.8	0.92
Use of lipid lowering drugs, %	22.5	25.0	0.60
Performances in MMSE, m (SD)	27.8 (1.4)	27.5 (1.6)	0.10
ApoE4 genotype (heterozygote), %	17.5	23.6	0.18
Total cranial volume (ml), m (SD)	1460.6 (127.0)	1467.7(129.3)	<b>0.63</b>

MMSE: mini mental state examination; ApoE4: ε4 allele of the Apolipoprotein E (having at least one copy), WMH: white matter hyperintensities.  
M (SD): means (standard deviation)

Table B: Association between each MetS components and total WMH volumes.

MetS criteria	Total n, % exposed	Levels of WMH volumes	
		OR (95% CI) of having high levels of WMH volumes ( $\geq 0.7\text{mL}$ )*	p
Central obesity	292, 18.1%	1.57 (0.84;2.94)	0.16
High Triglycerides	308, 14.9%	1.25 (0.65; 2.39)	0.50
Low HDL-cholesterol	308, 8.1%	1.81 (0.77;4.27)	0.17
Hypertension	304, 80.6%	1.87 (1.00; 3.50)	0.05
High FBG	324, 9.4%	1.14 (0.51; 2.56)	0.75
Number of MetS criteria	288	1.31 (1.01-1.71)	0.04

WMH: White matter hyperintensities, MetS: Metabolic Syndrome, HDL: high density lipoprotein, FBG : Fasting Blood Glucose

OR (95% CI) : odds ratio accompanied with its 95% confidence interval,

\* Odds ratio adjusted for age at baseline (by year), sex, educational attainment, smoking, use of lipids lowering drugs MMSE scores, allele  $\epsilon 4$  of apolipoprotein E and total cranial volume - Results of logistic regression models -