

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

Florence Portet, Adam Brickman, Yaakov Stern, Nikolaos Scarmeas, Jordan Muraskin, Frank Provenzano, Claudine Berr, Alain Bonafé, Sylvaine Artero, Karen Ritchie, et al.

► **To cite this version:**

Florence Portet, Adam Brickman, Yaakov Stern, Nikolaos Scarmeas, Jordan Muraskin, et al.. Metabolic syndrome and localization of white matter hyperintensities in the elderly population.. Alzheimer's and Dementia, Elsevier, 2012, 8 (5 Suppl), pp.S88-95.e1. 10.1016/j.jalz.2011.11.007. inserm-00715982

HAL Id: inserm-00715982

<https://www.hal.inserm.fr/inserm-00715982>

Submitted on 9 Jul 2012

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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 th -50 th 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 ⁻⁴
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)	0.63

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 -