

Higher oxidative stress linked to metabolic syndrome

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(HealthDay)—Oxidized low-density lipoprotein (ox-LDL) as a proxy for



oxidative stress is associated with metabolic syndrome (MetS) and its components, according to a study published online Dec. 19 in *Diabetes*.

Yamilee Hurtado-Roca, M.D., from the Centro Nacional de Investigaciones Cardiovasculares Carlos III in Madrid, and colleagues examined the correlation between <u>oxidative stress</u> and MetS using data from 3,987 subjects without diabetes in the Progression of Early Subclinical Atherosclerosis study.

The researchers found that after adjustment for age, sex, smoking, LDL cholesterol, <u>body mass index</u>, waist circumference, and homeostatic model assessment of <u>insulin resistance</u> (HOMA-IR), the odds ratios for MetS for the second, third, and fourth quartiles of ox-LDL versus the first quartile were 0.84 (95 percent confidence interval, 0.52 to 1.36), 1.47 (95 percent confidence interval, 0.95 to 2.32), and 2.57 (95 percent confidence interval, 1.66 to 4.04) (P waist circumference and high-density lipoprotein cholesterol, blood pressure, and insulin resistance. The correlation between ox-LDL and MetS components was not mediated by HOMA-IR.

"Ox-LDL may reflect core mechanisms through which MetS components develop and progress in parallel with insulin resistance and could be a clinically relevant predictor of MetS development," the authors write.

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