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**Oxidative stress is increased in serum from Mexican patients with relapsing-remitting multiple sclerosis.**

[Ortiz GG](#), [Macías-Islas MA](#), [Pacheco-Moisés FP](#), [Cruz-Ramos JA](#), [Sustersik S](#), [Barba EA](#), [Aguayo A](#).

Laboratorio de Estrés Oxidativo & Patología, División de Neurociencias, Centro de Investigación Biomédica de Occidente (CIBO), Instituto Mexicano del Seguro Social (IMSS), Guadalajara, Jalisco, México División de Ciencias de la Salud, Instituto Tecnológico de Estudios Superiores de Monterrey (ITESM) Campus Guadalajara, Zapopan, Jalisco, México.

**Objective:** To determine the oxidative stress markers in serum from patients with relapsing-remitting multiple sclerosis. **Methods:** Blood samples from healthy controls and 22 patients 15 women (7 aged from 20 to 30 and 8 were > 40 years old) and 7 men (5 aged from 20 to 30 and 2 were > 40 years old) fulfilling the McDonald Criteria and classified as having Relapsing-Remitting Multiple Sclerosis accordingly with Lublin were collected for oxidative stress markers quantification. **Results:** Nitric oxide metabolites (nitrates/nitrites), lipid peroxidation products (malondialdehyde plus 4-hidroxiakenals), and glutathione peroxidase activity were significantly increased in serum of subjects with relapsing-remitting multiple sclerosis in comparison with that of healthy controls. These data support the hypothesis that multiple sclerosis is a component closely linked to oxidative stress.

PMID: 19242067 [PubMed - as supplied by publisher]

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