



10TH

INTERNATIONAL CONGRESS ON AUTOIMMUNITY

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PROGRAM BOOK

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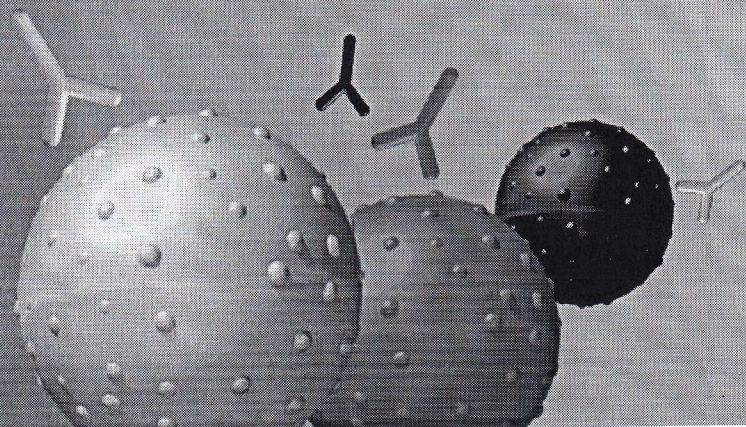


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ANTIOXIDANT STATUS IN PATIENTS WITH AUTOIMMUNE DISEASES

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Background/Objectives. An imbalance between oxidant production and antioxidant defense has been associated with pathogenesis of many human diseases. The aim of this study was to assess antioxidant status in patients with autoimmune diseases and to compare it with healthy controls. The antioxidant status was assessed on the basis of serum uric acid (UA) levels and total antioxidant status (TAS) values. **Design/Method.** The study population included 30 patients with autoimmune diseases (10 patients with the diagnosis of Hashimoto thyroiditis, 4 patients with Graves' disease, 9 patients with multiple sclerosis, and 7 patients with diabetes mellitus type 1) and 20 healthy controls. Serum concentrations of UA were measured using commercially available enzymatic reagent. TAS values were determined colorimetrically using the TAS kit. **Results.** Significant differences in TAS values were found between patients with autoimmune diseases and control subjects (3.02 ± 0.84 vs 1.86 ± 0.34 mmol/L; $p < 0.001$), while uric acid concentrations were similar in both populations (217.80 ± 76.39 vs 244.30 ± 66.34 μ mol/L; $p = 0.212$). There was an indirect correlation between uric acid concentrations and TAS values in the patients group ($r = -0.451$, $p = 0.012$). **Conclusion.** The patients with autoimmune diseases have an altered antioxidant status reflected in increase of TAS values.