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Tatjana Timotijević and Biljana Kosanović

Department of Scientific Information, National Library of Serbia,
Belgrade

Prague, May 2010



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Author(s): Drulovic J, Dujmovic I, Stojsavljevic N, Mesaros S, Andjelkovic S, Miljkovic D, Peric V, Dragutinovic G, Marinkovic J, Levic L, Stojkovic MM

Source: JOURNAL OF NEUROLOGY **Volume:** 248 **Issue:** 2 **Pages:** 121-126 **Published:** FEB 2001

Times Cited: 36 **References:** 28 [Citation Map](#)

Abstract: The levels of uric acid (UA), a natural peroxynitrite scavenger, were measured in sera from 240 patients with multiple sclerosis (MS) and 104 sex- and age-matched control patients with other neurological diseases (OND). The mean serum UA concentration was lower in the MS than in the OND group, but the difference did not reach the level of statistical significance ($P=0.068$). However, the mean serum UA level from patients with active MS (202.6 ± 67.1 $\mu\text{mol/l}$) was significantly lower than that in inactive MS patients (226.5 ± 78.6 $\mu\text{mol/l}$; $P=0.046$) and OND controls ($P=0.007$). We found a significant inverse correlation of serum UA concentration with female gender ($P=0.0001$), disease activity ($P=0.012$) and duration ($P=0.017$), and a trend towards an inverse correlation with disability as assessed by EDSS score, which did not reach statistical significance ($P=0.067$). Finally, multivariate linear regression analyses showed that UA concentration was independently correlated with gender ($P=0.0001$), disease activity ($P=0.014$) and duration of the disease ($P=0.043$) in MS patients. These findings suggest that serum UA might serve as a possible marker of disease activity in MS. They also provide support to the potential beneficial therapeutic effect of radical-scavenging substances in MS.

Document Type: Article

Language: English

Author Keywords: multiple sclerosis; uric acid; peroxynitrite; disease activity; magnetic resonance imaging

KeyWords Plus: CENTRAL-NERVOUS-SYSTEM; EXPERIMENTAL ALLERGIC ENCEPHALOMYELITIS; MAGNETIC-RESONANCE SPECTROSCOPY; NITRIC-OXIDE; PEROXYNITRITE FORMATION; DISABILITY; DISEASE; LESIONS; DAMAGE; DEMYELINATION

Reprint Address: Drulovic, J (reprint author), Univ Belgrade, Sch Med, Clin Ctr Serbia, Inst Neurol, Dr Subotica 6, YU-11000 Belgrade, Yugoslavia

Addresses:

1. Univ Belgrade, Sch Med, Clin Ctr Serbia, Inst Neurol, YU-11000 Belgrade, Yugoslavia
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5. Univ Belgrade, Sch Med, Inst Biostat Publ Hlth & Res Med, YU-11000 Belgrade, Yugoslavia
6. Univ Belgrade, Sch Med, Inst Microbiol & Immunol, YU-11000 Belgrade, Yugoslavia

Publisher: DR DIETRICH STEINKOPFF VERLAG, PLATZ DER DEUTSCHEN EINHEIT 25, D-64293 DARMSTADT, GERMANY

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Dujmovic I, Pekmezovic T, Obrenovic R, et al. [Cerebrospinal fluid and serum uric acid levels in patients with multiple sclerosis](#) CLINICAL CHEMISTRY AND LABORATORY MEDICINE 47 7 848-853 JUL 2009

Amorini AM, Petzold A, Tavazzi B, et al. [Increase of uric acid and purine compounds in biological fluids of multiple sclerosis patients](#) CLINICAL BIOCHEMISTRY 42 10-11 1001-1006 JUL 2009

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Info	JOURN  2, str. 121-126
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Author(s): Drulovic J, Dujmovic I, Stojavljevic N, Mesaros S, Andjelkovic S, Miljkovic D, Peric V, Dragutinovic G, Marinkovic J, Levic Z, Stojkovic MM

Source: JOURNAL OF NEUROLOGY **Volume:** 248 **Issue:** 2 **Pages:** 121-126 **Published:** FEB 2001

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4. Clin Ctr Serbia, MRI Ctr, YU-11000 Belgrade, Yugoslavia
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Dujmovic I, Pekmezovic T, Obrenovic R, et al. Cerebrospinal fluid and serum uric acid levels in patients with multiple sclerosis. CLINICAL CHEMISTRY AND LABORATORY MEDICINE 47 7 848-853 JUL 2009

Amorini AM, Petzold A, Tavazzi B, et al. Increase of uric acid and purine compounds in biologic fluids of multiple sclerosis patients. CLINICAL BIOCHEMISTRY 42 10-11 1001-1006 JUL 2009

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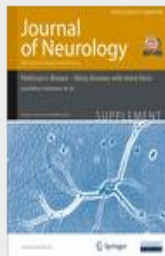
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Uric acid levels in sera from patients with multiple sclerosis

Journal	Journal of Neurology
Publisher	Springer Berlin / Heidelberg
ISSN	0340-5354 (Print) 1432-1459 (Online)
Issue	Volume 248, Number 2 / March, 2001
Category	Original communication
DOI	10.1007/s004150170246
Pages	121-126
Subject Collection	Medicine
SpringerLink Date	Monday, February 05, 2001

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Jelena Drulović¹, Irena Dujmović¹, Nebojša Stojsavljević¹, Šarlota Mesaroš¹, Slobodanka Andjelković², Djordje Miljković³, Vesna Perić⁴, Gradimir Dragutinović⁴, Jelena Marinković⁵, Zvonimir Lević¹ and Marija Mostarica Stojković⁶

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- (2) Institute of Medical Biochemistry, Clinical Centre of Serbia, Višegradska 26, Belgrade 11000, Yugoslavia, YU
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- (5) Institute of Biostatistics, Public Health and Research in Medicine, School of Medicine, University of Belgrade, Dr Subotića 15, Belgrade 11000, Yugoslavia, YU

Detailed information about the Journal in which article is published

Podaci o časopisu

ISSN	0340-5354
Naslov	Journal of Neurology
Status	Active
Tip dokumenta	Journal; AC
Učestalost	monthly
Jezik	Text in English
Prvi broj	1891
Abstrakt	Provides a source for original investigations in clinical neurology, and related basic research.
Alternativni naslovi	Parallel language title: Zeitschrift fuer Neurologie; Former titles (until 1974): Zeitschrift fuer Neurologie; ISSN 0012-1037; (until 1970): Deutsche Zeitschrift fuer Nervenheilkunde; ISSN 0367-004X; Supplement of; Online - full text edition; ISSN 1432-1459

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2002-2002	Medicinski fakultet, Beograd, BEOGRAD	361-5551, bibl.361-8444/llok 2125
1990-1991	Neuropsihijatrijska bolnica, Kovin, KOVIN	013/741-234

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Author(s): Drulovic, J

Source: **JOURNAL OF NEUROLOGY** Volume: 248 Issue: 2 Pages: 121-126 Published: FEB 2001

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Author(s): Andreadou E, Nikolaou C, Gourmaras F, et al.
Source: **CLINICAL NEUROLOGY AND NEUROSURGERY** Volume: 111 Issue: 9 Pages: 724-728 Published: NOV 2009
Times Cited: 0
2. Title: [Cerebrospinal fluid and serum uric acid levels in patients with multiple sclerosis](#)
Author(s): Dujmovic I, Pekmezovic T, Obrenovic R, et al.
Source: **CLINICAL CHEMISTRY AND LABORATORY MEDICINE** Volume: 47 Issue: 7 Pages: 848-853 Published: JUL 2009
Times Cited: 0
3. Title: [Increase of uric acid and purine compounds in biological fluids of multiple sclerosis patients](#)
Author(s): Amorini AM, Petzold A, Tavazzi B, et al.
Source: **CLINICAL BIOCHEMISTRY** Volume: 42 Issue: 10-11 Pages: 1001-1006 Published: JUL 2009
Times Cited: 2
4. Title: [The acute and chronic phases of chronic relapsing experimental autoimmune encephalomyelitis \(CR EAE\) are ameliorated by the peroxynitrite decomposition catalyst, 5,10,15,20-tetrakis\(4-sulfonatophenyl\)porphyrinatoiron \(III\) chloride, \(FeTPPS\)](#)
Author(s): Bolton C, Scott GS, Smith T, et al.
Source: **EUROPEAN JOURNAL OF PHARMACOLOGY** Volume: 601 Issue: 1-3 Pages: 88-93 Published: DEC 28 2008
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Tončev Goran
Vojnosanitetski pregled, vol. 63, br. 10, str. 879-882, 2006

Viši nivoi mokraćne kiseline u serumu kod bolesnika sa multipla sklerozom nakon terapije interferonom beta - 1b


Tončev G.
Aktuelnosti iz neurologije, psihijatrije i graničnih područja, vol. 14, br. 1-2, str. 26-35, 2006

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1. <input type="checkbox"/> Serum uric acid levels in patients with relapsing-remitting multiple sclerosis Abstract + Refs View at Publisher  Show Abstract	Altinkaynak, K. , Varoğlu, A.O. , Aksoy, H. , Deniz, O. , Aksoy, A.	2009	European Journal of General Medicine 6 (3), pp. 166-169
2. <input type="checkbox"/> Serum uric acid levels in patients with Parkinson's disease: Their relationship to treatment and disease duration Abstract + Refs View at Publisher  Show Abstract	Andreadou, E. , Nikolaou, C. , Goumaras, F. , Rentzos, M. , Boufidou, E. , Tsoutsou, A. , Zourmas, C. , (...), Vassilopoulos, D.	2009	Clinical Neurology and Neurosurgery 111 (9), pp. 724-728
3. <input type="checkbox"/> Plasma uric acid levels in multiple sclerosis patients as a marker of disease activity and blood-brain barrier dysfunction [Plazmatické hladiny kyseliny močovej u pacientov so sklerózou multiplex ako marker aktivity ochorenia a dysfunkcie hematoencefalickej bariéry] Abstract + Refs  Show Abstract	Kalnovičová, T. , Turčáni, P.	2009	Psychiatrie 13 (SUPPL. 2), pp. 80-81
4. <input type="checkbox"/> Cerebrospinal fluid and serum uric acid levels in patients with multiple sclerosis Abstract + Refs View at Publisher  Show Abstract	Dujmovic, I. , Pekmezovic, T. , Obrenovic, R. , Nikolić, A. , Spasic, M. , Stojkovic, M.M. , Drulovic, J.	2009	Clinical Chemistry and Laboratory Medicine 47 (7), pp. 848-853
5. <input type="checkbox"/> Increase of uric acid and purine compounds in biological fluids of multiple sclerosis patients Abstract + Refs View at Publisher  Show Abstract	Amorini, A.M. , Petzold, A. , Tavazzi, B. , Eikelenboom, J. , Keir, G. , Belli, A. , Giovannoni, G. , (...), Lazzarino, G.	2009	Clinical Biochemistry 42 (10-11), pp. 1001-1006
6. <input type="checkbox"/> The acute and chronic phases of chronic relapsing experimental autoimmune encephalomyelitis (CR EAE) are ameliorated by the peroxynitrite decomposition catalyst, 5,10,15,20-tetrakis(4-sulfonatophenyl)porphyrinatoiron (III) chloride, (FeTPPS) Abstract + Refs View at Publisher  Show Abstract	Bolton, C. , Scott, G.S. , Smith, T. , Flower, R.J.	2008	European Journal of Pharmacology 601 (1-3), pp. 88-93

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journal={ARCHIVES OF BIOLOGICAL SCIENC
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pages={29-36},
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journal={JOURNAL OF NEUROINFLAMMATION}
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