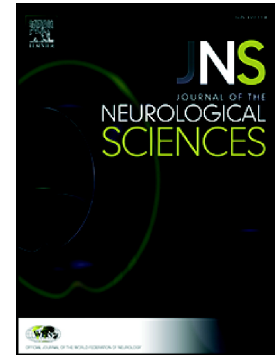


Accepted Manuscript

Vitamin D3 supplementation in multiple sclerosis: Symptoms and biomarkers of depression

Linda Rolf, Anne-Hilde Muris, Yvonne Bol, Jan Damoiseaux, Joost Smolders, Raymond Hupperts



PII: S0022-510X(17)30233-2
DOI: doi: [10.1016/j.jns.2017.04.017](https://doi.org/10.1016/j.jns.2017.04.017)
Reference: JNS 15271

To appear in: *Journal of the Neurological Sciences*

Received date: 2 February 2017
Revised date: 10 March 2017
Accepted date: 4 April 2017

Please cite this article as: Linda Rolf, Anne-Hilde Muris, Yvonne Bol, Jan Damoiseaux, Joost Smolders, Raymond Hupperts, Vitamin D3 supplementation in multiple sclerosis: Symptoms and biomarkers of depression. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. *Jns*(2017), doi: [10.1016/j.jns.2017.04.017](https://doi.org/10.1016/j.jns.2017.04.017)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Original contribution

Vitamin D₃ supplementation in multiple sclerosis: symptoms and biomarkers of depression

Linda Rolf^{a,b*}, Anne-Hilde Muris^{a,b}, Yvonne Bol^{b,c}, Jan Damoiseaux^d, Joost Smolders^{a,e}, Raymond Hupperts^{a,b}

^a Maastricht University, School for Mental Health and Neuroscience, Universiteitssingel 40, 6229 ER Maastricht, the Netherlands (LR: linda.rolf@maastrichtuniversity.nl; AHM: a.muris@maastrichtuniversity.nl); ^b Zuyderland Medical Center, Academic MS Center Limburg, PO Box 5500, 6130 MB, Sittard, the Netherlands (RH: r.hupperts@zuyderland.nl; YB: y.bol@zuyderland.nl); ^c Zuyderland Medical Center, Department of Medical and Clinical Psychology, PO Box 5500, 6130 MB, Sittard, the Netherlands; ^d Maastricht University Medical Center, Central Diagnostic Laboratory, PO box 5800, 6202 AZ, Maastricht, the Netherlands (JD: jan.damoiseaux@mumc.nl); ^e Canisius Wilhelmina Hospital, Department of Neurology, Weg door Jonkerbos 100, 6532 SZ, Nijmegen, the Netherlands (JS: smolders@gmail.com).

*Corresponding author:

Download English Version:

<https://daneshyari.com/en/article/5502821>

Download Persian Version:

<https://daneshyari.com/article/5502821>

[Daneshyari.com](https://daneshyari.com)