

Accepted Manuscript

Title: Peripersonal and extrapersonal visuospatial neglect in different frames of reference: A brain lesion-symptom mapping study

Authors: Antonia F. Ten Brink, J. Matthijs Biesbroek, Quirien Oort, Johanna M.A. Visser-Meily, Tanja C.W. Nijboer



PII: S0166-4328(17)31736-9
DOI: <https://doi.org/10.1016/j.bbr.2018.06.010>
Reference: BBR 11467

To appear in: *Behavioural Brain Research*

Received date: 24-10-2017
Revised date: 28-5-2018
Accepted date: 11-6-2018

Please cite this article as: Ten Brink AF, Matthijs Biesbroek J, Oort Q, Visser-Meily JMA, Nijboer TCW, Peripersonal and extrapersonal visuospatial neglect in different frames of reference: A brain lesion-symptom mapping study, *Behavioural Brain Research* (2018), <https://doi.org/10.1016/j.bbr.2018.06.010>

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.

Peripersonal and extrapersonal visuospatial neglect in different frames of reference: A brain lesion-symptom mapping study

Antonia F. Ten Brink^{1,2}, J. Matthijs Biesbroek³, Quirien Oort¹, Johanna M. A. Visser-Meily^{1,4},
Tanja C. W. Nijboer^{1,2,*}

¹Center of Excellence in Rehabilitation Medicine, Brain Center Rudolf Magnus, University Medical Center Utrecht, and De Hoogstraat Rehabilitation, Utrecht, The Netherlands

²Department of Experimental Psychology, Helmholtz Institute, Utrecht University, Utrecht, The Netherlands

³Department of Neurology, Brain Center Rudolf Magnus, University Medical Center Utrecht, Utrecht, The Netherlands

⁴Department of Rehabilitation, Physical Therapy Science & Sports, Brain Center Rudolf Magnus, University Medical Center Utrecht, The Netherlands

*Corresponding Author:

Tanja C.W. Nijboer, PhD, Utrecht University, Department of Experimental Psychology, Heidelberglaan 1, 3584 CS, Utrecht, The Netherlands.

Email: t.c.w.nijboer@uu.nl

Word count: 10.415

Highlights

- Visuospatial neglect (VSN) can manifest in peripersonal or extrapersonal space
- Overlapping brain areas were associated with peripersonal and extrapersonal neglect
- Several brain areas were specifically involved in extrapersonal attention processes
- We found evidence against the peripersonal/extrapersonal dorsal/ventral hypothesis
- Future studies could focus on remote effects of lesions on distant brain areas

Abstract

Introduction: Visuospatial neglect can occur in peripersonal and extrapersonal space. The dorsal visual pathway is hypothesized to be associated with peripersonal, and the ventral

Download English Version:

<https://daneshyari.com/en/article/11031791>

Download Persian Version:

<https://daneshyari.com/article/11031791>

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