

Treatment of visual and visuospatial deficits after brain damage

***CvO University of Oldenburg, 14.7.23/15.7.23
University Library Hall, Uhlhornsweg 49-55***

Attendance is free of costs, but registration is mandatory for organizational reasons. Please, register here:

<https://uol.de/neuromodulation/events/workshop-neglect-july-2023/registration>

Scientific program

Friday

Opening of the meeting by Christiane Thiel (speaker of the RTG “Neuromodulation”) (13.00-13.10)

Session 1: Introductory clinical case presentations (13.10 – 14.15)

Helmut Hildebrandt (Bremen/Oldenburg)

Balint’s syndrome

Representation left side of the body in neglect patients

A case with reaching impairments: what is the cause?

Session 2: Attentional models and interventions in visuospatial neglect (14.30 – 16.30)

(Moderator Christiane Thiel, Oldenburg)

- Simone Vossel (Jülich): Deficits in probabilistic inference in patients with neglect and potential implications for rehabilitation
- Andreas Sprenger (Lübeck): Gaze-contingent modification can help to reduce ipsilesional attention bias
- Nadine Schenke (Oldenburg/Bremen): Testing the Sprague effect with unilateral eye patching in LH and RH patients after small and large strokes
- Brigitte Kaufmann (Luzern): Video-Oculography During Free Visual Exploration – a sensitive method to detect neglect
- Christoph Herrmann (Oldenburg): taCS and the modulation of visuospatial attention in healthy subjects.
- Riccardo Galli (Genf): fMRI-based Neurofeedback Modulation of Visual Attention: Implication for Hemi-spatial Neglect Syndrome Rehabilitation

Session 3: Neuromodulation as treatment option for visuospatial neglect (17.00 – 18.40)
(Moderator Christoph Herrmann, Oldenburg)

Marij Middag-van Spanje (Maastricht): Transcranial alternating current stimulation in chronic neglect patients: effective as add-on to functional treatment?

Thomas Nyffeler (Luzern): Theta Burst Stimulation in patients with neglect

Monika Harvey (Glasgow): Is neuromodulation (tDCS) a feasible tool for enhancing action training for the rehabilitation of chronic spatial neglect?

Bernhard Elsner (Lübeck): Transcranial direct current stimulation (tDCS) for improving activities of daily living, and physical and cognitive functioning, in people after stroke

Hans-Otto Karnath (Tübingen): Magnetic Vestibular Stimulation as treatment option for patients with neglect.

Saturday

Session 4: Treatment options for patients with neglect and lateropulsion (8.45 -10.15)
(Moderator Andreas Sprenger, Lübeck)

Lisa Kunkel gnt. Bode (Lübeck): Combined optokinetic stimulation and cueing-assisted reading therapy

Helmut Hildebrandt (Bremen): Recalibration, not realignment improves visuospatial attention in patients with neglect. Results from an RCT using prism adaptation

Nadine Külzow (Beelitz-Heilstätten): Effects of end-effector-controlled gait training on walking ability in non-ambulatory patients with left-sided neglect

Anna E. Pape (Bremen): Is Prism adaptation an option to treat the Pusher syndrome?

Soraya Brosset (Genf): EEG-based Neurofeedback Modulation of Visual Attention: Implication for Hemi-spatial Neglect Syndrome Rehabilitation

Session 5: Virtual and augmented reality, a new horizon for the treatment of neglect (10.45- 12.15)
(Moderation Andrea Hildebrandt, Oldenburg)

Dario Cazzoli (Luzern): Eye-hand coordination in neglect: preliminary data from a project with augmented reality

Julia Belger (Leipzig): Application of immersive Virtual Reality for the assessment and cognitive rehabilitation of visuospatial neglect

Eileen Bousché (Utrecht): HEMIRehApp: Engaging Multisensory Immersive Rehabilitation App for patients with hemispatial neglect

Hanne Huygelier (Leuven): Assessment and rehabilitation of neglect with a VR serious game (HEMIRehApp)

Britta Stammer (Tübingen): Active exploration training in spatial neglect with the new augmented reality app “Negami” – a randomized controlled trial

Nergiz Turgut (Quito): Spatial Music in Neurorehabilitation