

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 GK “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)

Brigitte Kaufmann (Luzern): Video-Oculography During Free Visual Exploration – a sensitive method to detect neglect

Nadine Schenke (Oldenburg/Bremen): Testing the Sprague effect with unilateral eye patching in LH and RH patients after small and large strokes

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

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 (Jena): Transcranial direct and alternating stimulation for the treatment of neglect: results from a meta-analytic approach
- 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)
(Moderator Andrea Hildebrandt, Oldenburg)

- 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)
- Dario Cazzoli (Luzern): Eye-hand coordination in neglect: preliminary data from a project with augmented reality
- Britta Stammler (Tübingen): Active exploration training in spatial neglect with the new augmented reality app "Negami" – a randomized controlled trial
- Nergiz Turgut (Quito): A new tool for treating neglect by audiospatial stimulation