

Provocation and prediction of visual peripersonal neglect-like symptoms in preoperative planning and during awake surgery

Viktória Tamás¹

Gabriella Sebestyén¹

Szilvia Anett Nagy^{2,3,4,5}

Péter Zsolt Horváth¹

Ákos Mérei⁶

Francesco Tomaiuolo⁷

Giovanni Raffa⁸

Antonino Francesco Germanó⁸

András Büki^{1,9}

¹Department of Neurosurgery, Medical School, University of Pécs, Hungary,

²MTA-PTE Clinical Neuroscience MR Research Group, Pécs, Hungary, Hungary

³János Szentágothai Research Centre, University of Pécs, Hungary

⁴Pécs Diagnostic Center, Hungary

⁵Department of Laboratory Medicine, Medical School, University of Pécs, Hungary

⁶Department of Anesthesiology and Intensive Therapy, Medical School, University of Pécs, Hungary

⁷Department of Clinical and Experimental Medicine, University of Messina, Italy

⁸Department of Biomedical, Dental, Morphological and Functional Imaging Sciences, University of Messina, Italy

⁹Neurotrauma Research Group, Szentágothai Research Centre, University of Pécs, Hungary

Corresponding Author: Viktória Tamás, tamas.viktoria@pte.hu, +36305594559

Supplementary Material 1. Tests for neuropsychological/psychological evaluation

- Rey Auditory Verbal Learning Test (RAVLT) – verbal learning and episodic memory
- Phonemic and semantic Verbal Fluency Tests - executive functions and semantic retrieval/retrograde memory
- Rey Osterrieth Complex Figure Test (ROCF) visual attention, incidental memory, executive functions
- Part A and B of the Trail Making Test (TMT A and B) - psychomotor speed, visuospatial skills, mental flexibility, attention switching
- Frontal Assessment Battery (FAB) - executive functions, inhibitory control
- Digit Span Forward and Backward - short-term memory/attention and working memory)
- Pieron Test – attention, concentration
- Clock-Drawing Test - visuospatial abilities, executive functions
- Picture naming part of the Dean Woodcock Neuropsychological Battery (DWNB) – language, gnosis
- Finger Tapping and Grip Strength Assessment of Dean Woodcock Neuropsychological Battery (DWNB) – motor functions/skills
- Pattern fluency test (Five-Point Test) – executive functions, visual attention
- Shortened Beck Depression Inventory (13 items), Beck Anxiety Inventory, SF-12 Questionnaire and the MD Anderson Symptom Inventory - assessment of intrapsychic and health state
- Line Bisection Test – visuospatial attention, vision
- Bells test – visuospatial attention, vision