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Psychiatry and Neuroscience Seminar Series 2021

Pr Yves VANDERMEEREN

(Host P Lindberg)

Université Catholique de Louvain - UCLouvain | Institute of Neuroscience, Belgium

Implementing motor learning in stroke neurorehabilitation

Friday, October 1st, 2021, noon

R04-45, 102-108 rue de la santé - 75014 Paris & VISIOCONFERENCE

Pr Yves VANDERMEEREN

Head of the Stroke Unit chez CHU Namur, Université Catholique de Louvain - UCLouvain | Institute of Neuroscience, Belgium

Pr Vandermeeren is a neurologist involved in the care of acute and chronic stroke patients and in the study of neuroplasticity after stroke. His research is focused on Neurology, Rehabilitation Medicine and Physiology. In order to validate the potential of non-invasive brain stimulation to induce long-term stable recovery from stroke, our strategy is to test the cumulative effect of restorative stimulation sessions. To test this hypothesis, stroke patients receive real or fake stimulation. Using the 3D motion capture system, kinetic changes in pointing and grabbing movements are monitored to objectively quantify motor recovery and identify different types of movements. The neural substrates underlying motor recovery will be followed longitudinally, using rTMS (transcranial magnetic stimulation) and fMRI (functional MRI) and by comparison between groups (real vs sham noninvasive brain stimulation). We also assess the issue of motor skills learning in patients with chronic stroke, through the use of fMRI and kinetic analysis.

Keywords:

Motor Learning | Stroke Rehabilitation | Neuroscience | Brain Imaging | Rehabilitation | Neuroimaging | Motion Analysis | Physiology | Cognitive Neuroscience | Neurophysiology

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