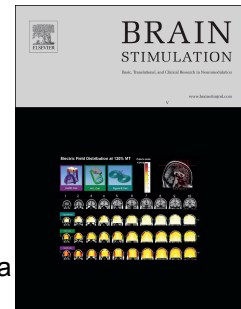


# Accepted Manuscript

Transcranial direct current stimulation unveils covert consciousness

Aurore Thibaut, Camille Chatelle, Audrey Vanhaudenhuyse, Géraldine Martens, Helena Cassol, Charlotte Martial, Manon Carrière, Alice Barra, Steven Laureys, Olivia Gosseries



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**Transcranial direct current stimulation unveils covert consciousness**

Aurore Thibaut<sup>1,2</sup>, Camille Chatelle<sup>1,3</sup>, Audrey Vanhaudenhuyse<sup>4</sup>, Géraldine Martens<sup>1</sup>, Helena Cassol<sup>1</sup>, Charlotte Martial<sup>1</sup>, Manon Carrière<sup>1</sup>, Alice Barra<sup>1</sup>, Steven Laureys<sup>1</sup>, Olivia Gosseries<sup>1</sup>

<sup>1</sup> GIGA-Consciousness, Coma Science Group & Neurology Department, University and University Hospital of Liege, Liege, Belgium

<sup>2</sup> Neuromodulation Center, Spaulding Rehabilitation Hospital, Harvard Medical School, Boston USA

<sup>3</sup> Laboratory for NeuroImaging of Coma and Consciousness - Department of Neurology, Massachusetts General Hospital, Harvard Medical School, Boston, USA

<sup>4</sup> Department of Algology and Palliative Care, University Hospital of Liege & GIGA-Consciousness, Sensation & Perception research Group, University of Liege, Belgium

Dear Editor,

Thanks to modern neuroimaging techniques it appears that 30% of patients clinically unresponsive (i.e., unresponsive wakefulness syndrome – UWS [1]) retain cerebral functions that are similar to patients in a minimally conscious state – MCS [1], as assessed by fluorodeoxyglucose positron emission tomography (FDG-PET), functional magnetic resonance imaging (fMRI) and electroencephalography (EEG). These patients are newly labeled as MCS\* or with cognitive-motor dissociation [2,3]. Even if the majority of them will regain some signs of consciousness, techniques to promote their recovery are still lacking. In this context, transcranial

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