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Less is more - Pulse width dependent therapeutic window in deep brain stimulation for essential tremor

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## Less is more - Pulse width dependent therapeutic window in 1 deep brain stimulation for essential tremor 2 Alexia-Sabine Moldovan MD<sup>1,2,\*</sup>, Christian Johannes Hartmann MD<sup>1,2,\*</sup>, Carlos Trenado 3 PhD<sup>1,2</sup>, Nicola Meumertzheim MS<sup>1,2</sup>, Philipp Jörg Slotty MD<sup>3</sup>, Jan Vesper MD<sup>3</sup>, 4 Alfons Schnitzler MD<sup>1,2</sup>, Stefan Jun Groiss MD<sup>1,2</sup> 5 6 <sup>1</sup> Department of Neurology, Center for Movement Disorders and Neuromodulation, Medical 7 Faculty, Heinrich-Heine University, Düsseldorf, Germany 8 <sup>2</sup> Institute of Clinical Neuroscience and Medical Psychology, Medical Faculty, Heinrich-9 Heine University, Düsseldorf, Germany 10 <sup>3</sup> Department of Functional and Stereotactic Neurosurgery, Center for Neuromodulation, 11 12 Medical Faculty, Heinrich Heine University, Düsseldorf, Germany \* Contributed equally to the manuscript 13 14 **Correspondence to:** 15 Stefan Jun Groiss, MD 16 Department of Neurology, Center for Movement Disorders and Neuromodulation 17 Heinrich Heine University, Moorenstr. 5, 40225 Düsseldorf, Germany 18 Phone: +49-211-81-08473, Fax: +49-211-81-015-08473, e-mail: groiss-js@umin.net 19 20 Running title: DBS pulse width settings in ET 21 Word count: abstract 244 words, main manuscript 2657 words 22 23 24

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