Accepted Manuscript

Diagnostic criteria for camptocormia in Parkinson's disease: A consensus-based proposal

Alfonso Fasano, Christian Geroin, Alfredo Berardelli, Bastiaan R. Bloem, Alberto J. Espay, Mark Hallett, Anthony E. Lang, Michele Tinazzi

PII: S1353-8020(18)30224-4

DOI: 10.1016/j.parkreldis.2018.04.033

Reference: PRD 3655

To appear in: Parkinsonism and Related Disorders

Received Date: 6 March 2018

Revised Date: 17 April 2018

Accepted Date: 29 April 2018

Please cite this article as: Fasano A, Geroin C, Berardelli A, Bloem BR, Espay AJ, Hallett M, Lang AE, Tinazzi M, Diagnostic criteria for camptocormia in Parkinson's disease: A consensus-based proposal, *Parkinsonism and Related Disorders* (2018), doi: 10.1016/j.parkreldis.2018.04.033.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Diagnostic Criteria for Camptocormia in Parkinson's disease: A Consensus-Based Proposal

Alfonso Fasano^{1,2*}, Christian Geroin³, Alfredo Berardelli⁴, Bastiaan R. Bloem⁵, Alberto J. Espay⁶, Mark Hallett⁷, Anthony E. Lang^{1,2}, Michele Tinazzi⁸.

¹Edmond J. Safra Program in Parkinson's Disease, Morton and Gloria Shulman Movement Disorders Clinic, Toronto Western Hospital, UHN, Division of Neurology, University of Toronto, Toronto, Ontario, Canada

²Krembil Research Institute, Toronto, Ontario, Canada

³Neuromotor and Cognitive Rehabilitation Research Center (CRRNC), Department of Neurosciences, Biomedicine and Movement Sciences, University of Verona, Verona, Italy.

⁴Department of Human Neurosciences, Sapienza, University of Rome and IRCCS Neuromed Institute Pozzilli (IS), Italy

⁵Radboud university medical center; Donders Institute for Brain, Cognition and Behaviour; Department of Neurology; Nijmegen, the Netherlands

⁶Gardner Family Center for Parkinson's Disease and Movement Disorders, Department of Neurology, University of Cincinnati, Cincinnati, Ohio, USA.

⁷Human Motor Control Section, National Institute of Neurological Disorders and Stroke, NIH, Bethesda, MD, USA

⁸Neurology Unit, Movement Disorders Division, Department of Neurosciences, Biomedicine and Movement Sciences, University of Verona, Verona, Italy.

E-mails: alfonso.fasano@gmail.com; christian.geroin@univr.it;

alfredo.berardelli@uniroma1.it; Bas.Bloem@radboudumc.nl; aespay@gmail.com;

hallettm@ninds.nih.gov; lang@uhnresearch.ca; michele.tinazzi@univr.it;

Key words: Camptocormia, Bent Spine Syndrome, Stooped Posture, Postural Abnormalities, Back Pain.

*Corresponding author:

Dr. Alfonso Fasano, MD, PhD Associate Professor - University of Toronto Clinician Investigator - Krembil Research Institute Movement Disorders Centre - Toronto Western Hospital 399 Bathurst St, 7McL412 Toronto, ON Canada M5T 2S8 Phone (office): +1(416)603-5800 ext 5961 Fax +1 (416) 603-5004 e-mail: <u>alfonso.fasano@uhn.ca</u> e-mail: <u>alfonso.fasano@gmail.com</u> Download English Version:

https://daneshyari.com/en/article/8955917

Download Persian Version:

https://daneshyari.com/article/8955917

Daneshyari.com