Accepted Manuscript

Permutation entropy analysis of heart rate variability for the assessment of cardiovascular autonomic neuropathy in type 1 diabetes mellitus

Claudia Carricarte, Lazaro Sanchez-Rodriguez, Marta Brown, Mario Estévez, Andrés Machado

PII: S0010-4825(17)30119-1

DOI: 10.1016/j.compbiomed.2017.05.003

Reference: CBM 2658

To appear in: Computers in Biology and Medicine

Received Date: 8 November 2016

Revised Date: 5 May 2017

Accepted Date: 6 May 2017

Please cite this article as: C. Carricarte, L. Sanchez-Rodriguez, M. Brown, M. Estévez, André. Machado, Permutation entropy analysis of heart rate variability for the assessment of cardiovascular autonomic neuropathy in type 1 diabetes mellitus, *Computers in Biology and Medicine* (2017), doi: 10.1016/j.compbiomed.2017.05.003.

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.



Permutation entropy analysis of heart rate variability for the assessment of cardiovascular autonomic neuropathy in type 1 diabetes mellitus

Claudia Carricarte^a, Lazaro Sanchez-Rodriguez^{b,c}*, Marta Brown^d, Mario Estévez^e, Andrés

Machado^a

^a Faculty of Biology, University of Havana; Calle 25 No. 455, Plaza de la Revolución, La Habana, 10400, Cuba

^b Biomedical Engineering Graduate Program, University of Calgary, 2500 University Drive

NW, Calgary, AB, T2N1N4, Canada

^c Hotchkiss Brain Institute and Department of Radiology, University of Calgary, 3330 Hospital Drive NW HSC Building, Room 2925F, Calgary, AB, T2N 1N4, Canada

^d Cuban Neuroscience Center; Calle 190, Playa, La Habana, 11600, Cuba

^e Department of Clinical Neurophysiology, Institute of Neurology and Neurosurgery; Calle 29 No. 139, Plaza de la Revolución, La Habana, 10400, Cuba

* Corresponding author. Telephone: +1(403) 220-7353; e-mail address: lazaro.sanchezrodrgu@ucalgary.ca

Establishment where the work was performed: Diabetic Care Center, National Institute of Endocrinology, Calle 17 No 409, Plaza de la Revolución, La Habana, 10400, Cuba; <u>inen@infomed.sld.cu</u>

Short title: Permutation entropy for the assessment of cardiovascular neuropathy

Download English Version:

https://daneshyari.com/en/article/4964974

Download Persian Version:

https://daneshyari.com/article/4964974

Daneshyari.com