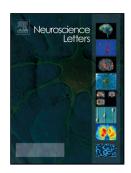
Accepted Manuscript

Title: DIAGONAL MOVEMENT OF THE UPPER LIMB PRODUCES GREATER ADAPTIVE PLASTICITY THAN SAGITTAL PLANE FLEXION IN THE SHOULDER

Authors: Rayele Moreira, Lysnara Lial, Maria Gabriela Teles Monteiro, Alice Aragão, Lorena Santos David, Marcelo Coertjens, Fernando L. Silva-Júnior, Gildário Dias, Bruna Velasques, Pedro Ribeiro, Silmar Silva Teixeira, Victor Hugo Bastos



PII: S0304-3940(17)30128-3

DOI: http://dx.doi.org/doi:10.1016/j.neulet.2017.02.022

Reference: NSL 32634

To appear in: Neuroscience Letters

Received date: 31-5-2016 Revised date: 8-2-2017 Accepted date: 8-2-2017

Please cite this article as: Rayele Moreira, Lysnara Lial, Maria Gabriela Teles Monteiro, Alice Aragão, Lorena Santos David, Marcelo Coertjens, Fernando L.Silva-Júnior, Gildário Dias, Bruna Velasques, Pedro Ribeiro, Silmar Silva Teixeira, Victor Hugo Bastos, DIAGONAL MOVEMENT OF THE UPPER LIMB PRODUCES GREATER ADAPTIVE PLASTICITY THAN SAGITTAL PLANE FLEXION IN THE SHOULDER, Neuroscience Letters http://dx.doi.org/10.1016/j.neulet.2017.02.022

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.

ACCEPTED MANUSCRIPT

DIAGONAL MOVEMENT OF THE UPPER LIMB PRODUCES GREATER ADAPTIVE PLASTICITY THAN SAGITTAL PLANE FLEXION IN THE SHOULDER

Rayele Moreira^{1,2}, Lysnara Lial^{1,2}, Maria Gabriela Teles Monteiro², Alice Aragão², Lorena Santos David², Marcelo Coertjens³, Fernando L. Silva-Júnior⁴, Gildário Dias⁵, Bruna Velasques^{6,7}, Pedro Ribeiro⁶, Silmar Silva Teixeira⁴, Victor Hugo Bastos^{1,2}

Corresponding author:

Rayele Moreira

E-mail: rayelemoreira@hotmail.com

Address: Universidade Federal do Piauí, Av. São Sebastião, 2819, 64202-020, Parnaíba, Piauí, Brazil

HIGHLIGHTS

- The effects of PNF on the brain's electrical activity
- PNF generates greater changes in cortical activity, as assessed by beta band absolute power levels
- PNF generates greater neural recruitment for the execution of maneuvers, when compared with shoulder flexion in the sagittal plane alone.

¹ Master Program Biomedical Science, Federal University of Piauí, Parnaíba, Brazil

² Brain Mapping and Functionality Laboratory, Federal University of Piauí (UFPI), Parnaíba, Brazil

³ Physiotherapy Course, Federal University of Piauí (UFPI), Brazil

⁴ Brain Mapping and Plasticity Laboratory, Federal University of Piauí (UFPI), Parnaíba, Brazil

⁵ Neurophysics Laboratory, Federal University of Piauí, Parnaíba, Brazil

⁶ Brain Mapping and Sensory Motor Integration Laboratory, Institute of Psychiatry of the Federal University of Rio de Janeiro (IPUB/UFRJ), Brazil

⁷ Institute of Applied Neuroscience (INA), Rio de Janeiro, Brazil

Download English Version:

https://daneshyari.com/en/article/5738471

Download Persian Version:

https://daneshyari.com/article/5738471

<u>Daneshyari.com</u>