TREMOR ASSISTANT

 People with tremor experience delays in correct diagnosis and diagnostic errors very often, leading to a missed opportunity for treatment and often inappropriate treatment.

Neurologists are concerned about this and are currently trying to avoid it through expensive and complex tests such as the Dat-scan or the ultrasound scan of the substantia nigra in the brain.

However, that approach fails because such tests are expensive, complex to perform, and not widely accessible to all clinicians.

Consequently, there is a need for more easy-to-perform and well-tested tools to establish an early diagnosis of tremor.

Which, if resolved, would lead to an early etiological diagnosis in tremor and allow the design of an adequate therapeutic strategy.

REFERENCES

-Thomas M, Lenka A, Kumar Pal P. Handwriting Analysis in Parkinson's Disease: Current Status and Future Directions. Mov Disord Clin Pract. 2017;4(6):806-818. doi: 10.1002/mdc3.12552.

-Zham P, Raghav S, Kempster P, Poosapadi Arjunan S, Wong K, Nagao KJ, Kumar DK. A Kinematic Study of Progressive Micrographia in Parkinson's Disease Front Neurol. 2019; doi: 10.3389/fneur.2019.00403.

-Danna J, Paz-Villagrán, JeanLuc. Signal-to-Noise velocity peaks difference: A new method for evaluating the handwriting movement fluency in children with dysgraphia/ Research in Developmental Disabilities 34 (2013) 4375–43844376.

-Rios-Urrego CD, Vásquez-Correa JC, Vargas-Bonilla JF, Nöth E, Lopera F, Orozco-Arroyave JR. Analysis and evaluation of handwriting in patients with Parkinson's disease using kinematic, geometrical, and nonlinear features. Comput Methods Programs Biomed. 2019 May;173:43-52. doi: 10.1016/j.

-Lopez-de-Ipina,1,\* Jordi Solé-Casals,2 Marcos Faúndez-Zanuy,3 Pilar M. Calvo,1 Enric Sesa,3 Josep Roure,3 Unai Martinez-de-Lizarduy,4 Blanca Beitia,5 Elsa Fernández,1 Jon Iradi,6 Joseba Garcia-Melero,7 and Alberto Bergareche8 Automatic Analysis of Archimedes’ Spiral for Characterization of Genetic Essential Tremor Based on Shannon’s Entropy and Fractal Dimension. Entropy (Basel). 2018 Jul; 20(7): 531