

# **Psychology and Psychiatry: Open access**

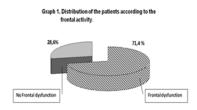


# Factors related with frontal dysfunction in early stages of Parkinson Disease Julio López Argüelles

Gustavo Aldereguía Hospital, Cuba

#### **Abstract**

Introduction: Parkinson Disease (PD) although described initially by James Parkinson as a disease with motor disorder it has been demonstrated that the cognitive disorders in the form of disejecutive syndrome are frequent worsening with the evolution. Objective: To characterize the frontal dysfunction (FD) in the patients with PD and to determine the factors related with frontal dysfunction in early stages. Method: We studied 125 patients with diagnosis of idiopathic PD and Hohen and Yahr Stages <2, to those which it was carried to them out survey with demographic, clinical and neuropsychological data studies included the Frontal Assesment Batery (FAB). Results: The mean age was of  $68.1 \pm 8.6$ , the onset age was of  $62.6 \pm 10.5$ , the diestrums predominated and those which initiated with tremor. Of the 125 patients 71.4% presented FD, with an average of the FAB of  $11.82 \pm 3.7$ . The age (R=-0,45; p<0,001) and onset age (R=-0,33; p=0,02) showed inversely proportional correlation with the FD. Other related variables were the schooling up to second level (p=0,003) and the rural origin with significance <0,001. Conclusions: The age and onset age higher than 60 years, the lower schooling than second level of teaching, rural origin and the presence of cognitive dysfunction are related to FD in early stages of PD.



## **Biography**

Julio López Argüelles specialist in neurology at Gustavo Aldereguía Hospital in Cienfuegos City. Master in medical emergencies. Assistant professor. Assistant Investigator. Specialist research in Parkinson's disease and dementia, with multiple publications on the subject. Editor and reviewer of multiple journals.

### **Publications**

- López-Argüelles J, Carbajal AB, García S, Sosa LM, et al. Cognitive deterioration in initial stage of Parkinson Disease. Rev Neuropsic neuropsiq neurociencias 2014 jul-Dic;14(2):77-79.
- Bocanegra Y, Trujillo-Orrego N, Pineda D. Demencia y deterioro cognitivo leve en la Enfermedad de Parkinson: una revisión. Rev Neurol 2014 Dec 16;59(12):555-69.
- Kummer A, Harsanyi E, Dias FM, Cardoso F, Caramelli P, Teixeira AL. Depression impairs executive functioning in Parkinson disease patients with low educational level. Cogn Behav Neurol 2009 Sep;22(3):167-72.
- Lima CF, Meireles LP, Fonseca R, Castro SL, Garrett C. The Frontal Assessment Battery (FAB) in Parkinson's disease and correlations with formal measures of executive functioning. J Neurol 2008 Nov;255(11):1756-61.
- Vera-Cuesta H, Vera-Acosta H, varez-Gonzalez L, Fernandez-Maderos I, Casabona-Fernandez E. Disfunción frontal en la Enfermedad de Parkinson Idiopática. Rev Neurol 2006 Jan 16;42(2):76-84

11th International Conference on Neuroscience and Neuroimmunology | June 08-09, 2020

Citation: Julio López Argüelles, Factors related with frontal dysfunction in early stages of Parkinson Disease, June 08-09, 2020, PP. 03