Title: Comparison of the results of a Parkinson's holter monitor with patient diaries, in real conditions of use: A sub-analysis of the MoMoPa-EC clinical trial

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Background: Monitoring of motor symptoms in Parkinson's patients is often a complex and time-consuming task for clinicians, as Hauser's diaries are often poorly completed by patients. Recently, new automatic devices (Parkinson's holter: STAT-ON®) have been developed capable of monitoring patients' motor fluctuations. The MoMoPa-EC clinical trial (NCT04176302) investigates which of the two methods produces better clinical results. In this sub-analysis, the concordance between both methods is analyzed.
Methods: In the MoMoPa-EC clinical trial, 164 patients with moderate-severe Parkinson's disease and at least two hours a day of Off will be included. At the time of patient recruitment, all of them completed a seven day motor fluctuation diary at home (Hauser's diary), while wearing the Parkinson's holter. In this sub-analysis, 71 patients with complete data for the purpose of this comparison were included. The intraclass correlation coefficient was calculated between the patient diary entries and the Parkinson's holter data, in terms of time On, Off, and time with dyskinesias.
Results: The intra-class correlation coefficient of both methods was 0.57 (95% CI: 0.3-0.74) for daily time in Off (%), 0.48 (95% CI: 0.14-0.68) daily time in On (%), and 0.37 (95% CI %: -0.04-0.62) for daily time with dyskinesias (%).
Conclusions: Both methods have a moderate agreement with each other. We will have to wait for the results of the MoMoPa-EC project, to estimate which of them has the greatest clinical benefits.
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Biography

Alejandro Rodríguez-Molinero was graduated in medicine at the Universidad Autónoma de Madrid, in 2001. In 2006, he completed the specialisation in Geriatrics at the Hospital Central de la Cruz Roja in Madrid. In 2009 he was awarded the PhD degree in Preventive Medicine and Public Health at the Universidad Autónoma de Madrid, Spain. In 2010 he was appointed Adjunct Professor in Gerontechnology at the School of Engineering and Informatics, NUI Galway. Presently is the head of research department at the Consorci Sanitari del Garraf i l'Alt Penedès hospitals, in Cataluña, Spain.

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