

JOINT EVENT

4<sup>th</sup> International Conference on **Epilepsy & Treatment**  
&  
4<sup>th</sup> World Congress on **Parkinsons & Huntington Disease**  
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## Selver Burcu Tellioglu

Tarsus State Hospital, Turkey

### Clinical and neuropsychological study of natural course of light cognitive failure, alzheimer disease and parkinson dementia

**Objective:** The Objective of this study is to examine the natural courses of Alzheimer Disease (AD), Light Cognitive Failure (LCF) and Parkinson 's Dementia (PD) cases free of any therapeutic procedure and with neuropsychological test series; to determine the transformation ratio of these cases to dementia and to examine the courses of clinical factors.

**Tools and Method:** 120 patients consisting of 72 AD, 16 PD and 32 LCF patients and 24 healthy controls who are the spouses of the patients or healthy volunteers, who have applied to Mersin University Faculty of Medicine Education and Research Hospital Neurology Department between years 2007 and 2016, have been included in the research. Patients have been invited to control visits once every 6 months and healthy individuals have been invited to control visits once a year.

**Findings:** In the patient groups, functionality and DLA scores have considerably failed in comparison with the scores of control group. In the LCF group, MMSE, forward and backward counting range, calculation, abstraction, praxis, memory of word list, understanding, construction, clock drawing scores have been higher than the other groups but lower than the control group. In the LCF group, total NPI and NPI trouble scores have been lower than the other groups. In the PDgroup, total NPI scores have been determined to be higher than the AD and LCF groups. Total NPI trouble score has been higher for the AD group when compared with PD and LCF groups. In the LCF group, for 11 % of the patients, diagnosis have transformed to AD in the control period. In the control visits, MMSE values of the control group have risensignificantly after the second visit. In the LCF group, falls in word list memory scores which are statistically meaningful have been determined in the first and third trials.

**Result:** In our study, we determined that 11,1% of the patients with LCF cogenesis had transformation to AD, in this group no transformation to PD has been observed in the control time, no transformation in the healthy control group has been observed.

[burcuyuksekyalcin@gmail.com](mailto:burcuyuksekyalcin@gmail.com)