Annals of General Psychiatry



Poster presentation

Open Access

Cognitive impairment among outpatients whose first complaint was memory disorder

Ilias A Grammatikopoulos*¹, Claire Androulaki², Athanasios K Alegakis³, Stella Papadopoulou¹, Apostolos Psarris¹, Georgia Bourvari¹, Georgios Klados¹ and Heraclis Prassas¹

Address: ¹Department of Neurology, "Venizeleion" General Hospital of Heraclion, Heraclion, Crete, Greece, ²Department of Psychology, "Venizeleion" General Hospital of Heraclion, Heraclion, Crete, Greece and ³Biostatistics Laboratory, Department of Social Medicine, Faculty of Medicine, University of Crete, Heraclion, Crete, Greece

from International Society on Brain and Behaviour: 3rd International Congress on Brain and Behaviour Thessaloniki, Greece. 28 November – 2 December 2007

Published: 17 April 2008

Annals of General Psychiatry 2008, 7(Suppl 1):S268 doi:10.1186/1744-859X-7-S1-S268

This abstract is available from: http://www.annals-general-psychiatry.com/content/7/S1/S268

© 2008 Grammatikopoulos et al.; licensee BioMed Central Ltd.

Background

Failure to detect cognitive impairment can result in a domino effect of medical and psychosocial problems, while cognitive dysfunction can have a significant impact on decision-making capacity [1].

Materials and methods

A retrospective study was carried out among 126 outpatients aged 74.5 ± 7.6 years old, seen in the Neurology Department of Venizeleion General Hospital of Heraklion, between April 2005 and May 2007. A complete history, physical and neurological examination, CT scanning and neuropsychological tests including the Mini-Mental State Examination (MMSE) [2], the Clock Drawing Test (CDT - the Sunderland method) [3], the Geriatric Depression Scale (GDS) [4] and the Instrumental Activities of Daily Living Scale (IADL), were performed.

Results

61.1% of patients showed cognitive impairment (MMSE<24), while 74.6% revealed with CDT (score<6). According to the MMSE and the CDT, there wasn't a statistical significant correlation between cognitive impairment and gender or educational level; a statistically significant difference (p<0.05) was found in relation to the age according the CDT, but not with the MMSE. We found a moderate correlation (r=0.408) between functional disa-

bility (IADL score) and the CDT. 11.7% of men and 9.1% of women had mild or moderate depression (GDS?7), but there were not statistically correlated with cognitive impairment or functional disability (p>0.05).

Conclusions

Memory complaints must be carefully assessed, as these results reaffirm that there is a high prevalence of the studied mental disorders in outpatients and especially in elderly. The CDT seems to be even more sensitive in revealing cognitive impairment in patients who have an MMSE within the normal limits.

References

- Juby A, Tench S, Baker V: The value of clock drawing in identifying executive cognitive dysfunction in people with a normal Mini-Mental State Examination score. Cmaj 2002, 167(8):859-864.
- Fountoulakis KN, Tsolaki M, Chantzi H, Kazis A: Mini Mental State Examination (MMSE): A validation study in Greece. American Journal of Alzheimer's Disease and Other Dementias 2000, 15(6):342-345.
- Sunderland T, Hill JL, Mellow AM, Lawlor BA, Gundersheimer J, Newhouse PA, Grafman JH: Clock drawing in Alzheimer's disease A novel measure of dementia severity. J Am Geriatr Soc 1989, 37(8):725-729.
- Fountoulakis KN, Tsolaki M, lacovides A, Yesavage J, O'Hara R, Kazis A, lerodiakonou C: The validation of the short form of the Geriatric Depression Scale (GDS) in Greece. Aging (Milano) 1999, 11(6):367-372.

^{*} Corresponding author