

This is a study that explored differences in the semantics of narrative discourse samples produced by 18 individuals with AD compared to samples produced by 18 healthy elderly controls. Participants completed the

sample size of 30 individuals was small. While the normative sample of 240 individuals included groups across the adult lifespan with norms adjusted for sex and education level, some of the groups, especially in the older ages, included less than ten individuals, which are small samples and may not account for normal variability.

This study provides suggestive evidence that measures associated with semantic processing are able to reliably discriminate between performance of healthy aged individuals and that of individuals with AD, including those in the early stages of the disease, on discourse tasks.

**Tomoeda, Bayles, Trosset, Azuma & McGeagh
(1996)**

The aim of this study was to investigate the relationship between dementia severity and

- Ahmed, S., de Jager, C. A., Haigh, A. & Garrard, P. (2013). Semantic processing in connected speech at a uniformly early stage of autopsy-confirmed Alzheimer's disease. *Journal of Alzheimer's Disease*, 39(1), 79-85.
- Crum R.M., Anthony, J.C., Bassett, S.S. & Folstein, M.F. (1993). Population-based norms for the Mini-Mental State Examination by age and educational level. *Journal of the American Academy of Psychiatry and the Law*, 21(12), 2386-2391.
- De Lira, J., Ortiz, K., Campanha, A., Bertolucci, P. & Minetti, T. (2011). Microlinguistic aspects of the oral narrative in patients with Alzheimer's disease. *International Journal of Gerontology*, 45(4), 404-412.
- Drummond, C., Coutinho, G., Fonseca, R.P., Assunção, N., Teldeschi, A., Oliveira-Souza, R., Moll, J., Tovar-Moll, F. & Mattos, P. (2015). Deficits in narrative discourse elicited by visual stimuli are already present in patients with mild cognitive impairment. *Journal of Alzheimer's Disease*, 47(1), 1-11.
- Duong, A. Giroux, F. Tardif, A & Ska, B. (2005). The heterogeneity of picture-supported narratives in Alzheimer's disease. *Journal of Alzheimer's Disease*, 10(2), 173-184.
- Duong, A. & Ska, B. (2001). Production of narratives: picture sequence facilitates organization but not conceptual processing in less educated subjects. *Journal of Alzheimer's Disease*, 14(1), 121-124.

Elias M.F., Elias P.K., D'Agostino R.B., Silbershatz H., & Wolf P.A. (1997). Role of age, education, and gender on cognitive performance in the Framingham Heart Study: community-based norms