Validation of an internet based instrument for assessing cognitive function

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METHODS

POPULATION

A total of 54,263 individuals logged on and performed at least one of the tasks.

RESULTS

CDR System Measures of Attention

For each picture, the volunteer has to decide whether or not the picture was shown originally by pressing either the right or left arrow. The time taken to correctly reject the novel picture also declines notably with ageing, showing that central processing declines in middle age. Fluctuations in attention become greater from the mid-60s onwards.

The changes in this task possibly reflect declining activity in the dentate gyrus and thus compromised neurogenesis in the DG.

CDR System Internet Administration

Further, the time taken to correctly reject the novel pictures also declines notably with ageing, showing that central processing and speed are compromised on this skill, making the task a behavioral measure which could be used to reflect neurogenesis in the DG.

The demographic of the sample are presented in Table 1.

COMPARISONS TO NORMATIVE DATA FROM THE CDR SYSTEM DATABASE

Their data confirm previous findings of a dramatic increase in ability from 5 to 14 years.

There were no gender differences on the accuracy scores, but males show a small but consistent faster response speed on the Power of Attention measure over the age span.

REFERENCE


6) Parkin’s disease, P.D. (2010). Cognitive function testing may

7) Parkinson’s disease, P.D. (2010). Cognitive function testing may

