

# Physical activity and cognitive reserve as protective factors for attentional functioning in older people [Capacidad física y reserva cognitiva como factores protectores de las funciones atencionales en adultos mayores]

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Background: Attention is considered a central control mechanism in cognitive processing systems. Attention deficits contribute to the symptomatic profile of Alzheimer's disease (AD). Physical exercise and cognitive reserve, could delay cognitive impairment and constitute a protective factor against clinical manifestations of AD. Aim: To relate the functionality of the attentional networks with physical activity and cognitive reserve. Material and Methods: Three groups of 20 older adults each (control, physical activity and with osteoarthritis) were studied. The Functional capacity assessment test, Cognitive Reserve Questionnaire and the Attention Networks Test - for Interactions and Vigilance or ANTI-V were applied to participants. Results: Significant differences were observed in the response times of the alert, orientation and executive network, and the percentage of success in the network orientation and executive network. No differences between groups were observed for the different indicators of vigilance. Conclusions: These results confirm the benefits of physical exercise as a protective factor for attentional functioning. © 2018, Sociedad Medica de Santiago. All rights reserved.

Attention

Cognitive aging

Cognitive reserve

Physical fitness

aged

attention

cognitive reserve

cohort analysis

comparative study

cross-sectional study

educational status

executive function

exercise

female

human

male

neuropsychological test

physiology

protection

reaction time

Aged

Attention

Cognitive Reserve

Cohort Studies

Cross-Sectional Studies

Educational Status

Executive Function

Exercise

Female

Humans

Male

Neuropsychological Tests

Protective Factors

Reaction Time