

Cognitive Reserve, depression and executive functions: a 10-year follow-up study in 416 older adults Loredana Frau¹, Erin Jonaitis^{2,} Rebecca Koscik^{2,}, Megan Zuelsdorff^{2,}, Ozioma Okonkwo², & Davide Bruno¹ ¹School of Psychology-Liverpool John Moores University & ²University of Wisconsin – Madison

Introduction



fild Cognitive Impairment (MCI) represents the transitional state between normal aging and dementia, involving cognitive problems (memory and thinking abilties).



Cognitive reserve (CR) is a set of lifetime experiences that build a reserve of mental abilities. Among all mental abilities, **Executive Functions** (EFs) allow individuals to compensate for aging, cognitive decline and brain pathology.



Depression represents a risk factor and/or prodromal symptom for MCI and may be associated with the early stages of dementia.

Participants



Cognitively

Stable

(CUS)

N= 290



Cognitively

(CUD)

N=97





Table 1. Sample Characteristics CUS CUD MCI Measures at р (n = 290)(n = 29)(n = 97)baseline 59.03 ± 4.45 .002 56.57 ± 4.20 57.74 ± 4.34 Age 22 (76%) 209 (72%) 63 (61%) .34 Gender (females) Years of 16.38 ± 2.68 16.14 ± 2.75 14.97 ± 2.26 .03^{*} education **APOE-e4** 57 (20%) 20 (21%) 11 (38%) .14 10.59 ± 7.38 $11.21 \pm 7.38 < .001^{***}$ 6 ± 2.30 Depression (CES-D)













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