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THE IMPACT OF A NEUROPSYCHOLOGICAL REHABILITATION GROUP PROGRAM (NRGP) ON COGNITIVE AND EMOTIONAL FUNCTIONING IN INSTITUTIONALIZED ELDERLY

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INTRODUCTION

Cognitive rehabilitation techniques, reminiscence therapy, and reality orientation therapy, have shown an impact on cognition, life satisfaction, mood, and on the progression of cognitive decline in elderly.

OBJECTIVES

To test the effectiveness of a NRGP on the cognitive and emotional functioning of institutionalized elderly.

METHODS

Design: single blind randomized controlled study with paired groups.

Participants: Coimbra institutionalized elderly, aged between 64-92 (N = 88) with cognitive impairment no dementia, mostly women (75.0%).

Intervention: randomization of participants to the rehabilitation group/RG (n = 41) and to the comparison/waiting-list group/CG (n = 23). NRGP involved groups of five elders, and took 90 min. per day, once a week, for 10 weeks.

Measurements: Mini-Mental State Examination/MMSE, Frontal Evaluation Battery/FAB, Geriatric Depression Scale/GDS.

Analysis: We used general linear model with repeated measures analysis of variance.

RESULTS

RG improved significantly on cognitive, and executive function (p < 0.001), and CG worsened on cognitive, executive function, and mood (p < 0.01). There was a significant effect on the MMSE, FAB, and GDS scores, after excluding pre-rehabilitation scores as covariates [F (1, 81) = 43.98, p < 0.001; $\eta^2 = 0.35$; F(1, 80) = 28.37, p < 0.001; $\eta^2 = 0.26$; F(1, 79) = 19.66, p < 0.001; $\eta^2 = 0.20$].

CONCLUSIONS

A NRGP including cognitive rehabilitation, reminiscence therapy, and reality orientation proved to be effective on cognitive and executive functioning, and on depressive symptoms of institutionalized elders with cognitive impairment no dementia.