

The effect of age on cerebellar function and cognitive-behavioral function in the elderlySoudabeh Zalaqi,¹ Mohamad Azhdarloo*,² Ahmad Azhdarloo³**Abstract**

Introduction: The role of the cerebellum in reducing the activities and cognitive and behavioral function of the elderly is very important and little research has been done in this field. The different functions of the cerebellum are very important in the brain structure of older people. Therefore, the aim of this study was to investigate the effect of age on cerebellar function and cognitive-behavioral function in the elderly.

Research Method: To date, evidence has shown that there is a morphological difference between the cerebellum of individuals that over time and with increasing age, cognitive and motor behaviors affect individuals. Cerebellar morphology is better than the prefrontal cortex for predicting functions and performing tasks. To analyze his research, he analyzed brain cell connections and imaged nerve fibers.

Results: The results showed that the cerebellum plays a very important role in reducing the performance of the elderly. In the study, a perceptual framework was used to influence the role of the cerebellum in the performance of individuals and the internal model was considered.

Conclusion: Evidence showed that the cerebellum is affected by age and more research should be done in this field to be able to determine the role of the cerebellum in motor and cognitive control function at different ages.

Keywords: Age, Cerebellum, Cognitive-behavioral function

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