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### Association between atrial fibrillation and cognitive function in elderly patients with arterial hypertension and atrial fibrillation

#### Abstract:

**Aim:** To assess cognitive functions in elderly patients with arterial hypertension (AH) depending on the presence/absence of atrial fibrillation (AF).

**Methods:** Two groups were formed according to medical records data: 1) patients with AH and AF (n=165, median age 82 [76; 85] years), 2) patients with AH without AF (n=165, median age 75 [69; 82] years). Cognitive assessment included MMSE, MoCA, Boston naming test, ADAS-Cog.

**Findings:** MMSE и MoCA did not show any significant differences between the groups. Group 1 had significantly lower BNT score (28 [26;31,5]), compared to group 2 (30 [27;33]; p=0.002). Similarly, group 1 had significantly higher ADAS-Cog score, compared to group 2 - 14 [11;18] and 13 [9;17] points, respectively(p=0.024).

**Results:** Multimorbidity in patients with AH and AF may contribute to the development of more prominent cognitive impairment, deterioration of executive function, semantic memory, as well as attention, visual-spatial ability, and working memory

#### Biography

**Kantemir Dзамikhov** – researcher, physician at the Russian Medical Academy of Continuous Professional Education (Department of therapy and multimorbid pathology named after academician M.S. Vovsi). Has publications in Russian and International journals in the scientific direction: cognitive impairment in elderly patients. Member of the Russian Scientific Society of Internal Medicine (RSMSIM), European Federation of Internal Medicine Academy (EFIM Academy).