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Microbiological and immunological aspects of Alzheimer's disease

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Bacteriological and immunological feces study of 28 AD-patients and 60 men 69±1,2 years old as a control group was conducted. At 28.6±0.6% of AD patients had been showed a significant ($p < 0.05$) reducing the number of anaerobic representatives microbiota (*Bacteroides spp.*, *Fusobacterium spp.*, *Clostridium spp.*), quantitative and qualitative changes of opportunistic microbiota (*Klebsiella spp.*, *Proteus spp.*, *Citrobacter spp.*, *Enterococcus spp.*) compared with the control group. The degree of contamination by individual representatives was ≥ 104 CFU/g, which was significantly higher than in control group. At 42.8±0.7% of AD-patients was found dysbiosis of III degree, significant reduction in the number of obligate anaerobic microorganisms, decrease in the number of lactobacilli in the range $5.7 \times 10^3 - 1.4 \times 10^4$ CFU/g and significant increase in the degree of intestinal colonization typical opportunistic E.coli. in comparison with the control group, All AD-patients have diagnostically significant total intestinal colonization by opportunistic microorganisms (>104 CFU/g). At 25,0±1,1% of them were identified the association of hemolytic *Staphylococcus aureus* and *Candida spp.*, at 75.0±1.2% – *Klebsiella*, *Hafnia*, *Serratia*, *Proteus*, *Morganella*, *Citrobacter*.

Biography

Makarenko O M has taken PhD degree at the age of 30 at the Moscow Medical Stomatological Institute, M.D. degree at the age of 40 at the Institute of Higher Nervous Activity in Moscow. He carries out his post-dock researches at the Institute of higher nervous activity and Taras Shevchenko National University of Kyiv. He is a professor of the psychology department, the author of more than 200 articles in reputed journals and 5 monographs (Lambert Academic Publishing).

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