

scores MMSE, FAB, ADAS-cog and between IL-23 and the scores MoCA, FAB and ADAS-cog.

Conclusions: Proinflammatory cytokines (such as IL-17 and IL-23) have been associated with cognitive impairment. However, the complicated relationships of the two cytokines with the pathogenesis of AD need to be further investigated in the future.

Disclosure: No significant relationships.

Keywords: Alzheimer's disease; inflammation; interleukin; neurocognitive scales.

EPV0335

The impact of the environment and parental education on the emotional state of adolescents

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Introduction: Its basic object of study is the understanding of the individual and the group, Scientific direction in the study of behavior is an important feature of psychiatry.

Objectives: Adolescence is a stage of physical and mental development of human, usually listed between the stage of childhood and legal maturity. in the middle aged 13 and 18 years the sexual way begins.

Methods: Education is the primary category of pedagogical theory, which includes the concepts of education and teaching. Physical education is a subject taught in school to train students physically, to enable them to work and to defend themselves. The totality of spiritual, mental and physical qualities or qualities of family and society and learning and working.

Results: By taking preventive measures to close educational institutions against the spread of the covid virus 19, it has affected the education system of students, teachers and parents because it has been physically disconnected from learning and has gone virtually ONLINE, where it has been a form of home isolation.

Conclusions: Parenting is a constant concern for our entire society today, for child and adolescent psychiatry specialists and education experts, especially for all young parents.

Disclosure: No significant relationships.

Keyword: beli

EPV0336

Protective role of lipoic acid in the prevention of oxidative stress caused by cadmium in the vascular endothelium of rats

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Introduction: Acute and chronic exposure to cadmium (Cd), due to its increased use and application in the industry, can result in the

development of atherosclerosis, the occurrence of cardiomyopathy, cerebrovascular stroke, as well as carcinogenesis in some organs. The target for cadmium action is thought to be the vascular endothelium.

Objectives: The aim of this study is to investigate the occurrence of oxidative stress on blood vessel endothelium induced by subacute administration of cadmium, as well as the protective power of alpha-lipoic acid (α -LA) supplementation on the Wistar strain albino rat model system.

Methods: After anesthesia of rats in the vivarium of the Scientific Research Center for Biomedicine, Faculty of Medicine in Niš, blood was collected by cardiac puncture and sent to the Clinic of Nephrology, Clinical Center in Niš, Serbia for determination of hematological parameters.

Results: According to the results of this study, it can be seen that the number of granulocytes is reduced due to cadmium intoxication, which is probably induced by the migration of neutrophils into tissues. The number of lymphocytes was increased due to subacute cadmium intoxication compared to the control group of animals. The positive efficacy of α -LA supplements in combating the adverse effects of cadmium on blood vessels is also confirmed.

Conclusions: Cadmium administration is thought to cause a systemic inflammatory reaction due to the formation of free radicals in the blood vessel endothelium. Administration of α -LA supplement confirms that it can be used as an antioxidant in the clinical management of many diseases and also in cadmium intoxication.

Disclosure: No significant relationships.

Keywords: cadmium; blood vessel; antioxidant; oxidative stress; alpha-lipoic acid

EPV0337

Glutathione as a powerful antioxidant in oxidative stress in the brain tissue of rats caused by the pathophysiological action of copper

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Introduction: Due to increased human activity, the amount of copper in air, soil and water has increased. Copper, at minimum concentrations, is essential for the normal functioning of the organism (cellular respiration, hemoglobin formation, growth and reproduction). At higher concentrations, copper is deposited in the liver, brain tissue, and bone marrow.

Objectives: To investigate the protective role of the supplement, glutathione (GSH), the S-donor ligand, in conditions of chronic copper intoxication via the parameters of oxidative stress, ie. Alkaline and acidic DNase values in brain tissue in albino rats of Wistar strain.

Methods: The model system for testing the effects of copper exposure and the protective effect of GSH was a study on female albino rats of Wistar strain, stored in the vivarium of the Scientific Research Center for Biomedicine, Faculty of Medicine, Niš, Serbia.