



is characterized by the absence of changes in SBP or even by decreasing of it, and therefore was defined as "weakly reactive".

Conjugation index in "over-reactive" and "normally reactive" types during the rest and during exercise is similar and equal to 4.37 and 4.67, respectively. Apparently, the increased activity of the cardiovascular system in these students is accompanied by adequate activation of the respiratory system. The "weakly reactive" type has the

lowest conjugation index, which is equal to 3.48.

Conclusions. By the end of the first year of studying in university conjugation index of all three groups tends to decrease, both at rest and during exercise. These changes are mostly expressed in "weakly reactive" group. It is a sign of the decreasing of level of intersystem integration of the cardiovascular and respiratory systems, which leads to deterioration of the adaptive capacity of the organism in the test conditions.

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THE POSSIBILITY OF CORRECTING OF ELASTIN SYNTHESIS IN BLOOD VESSELS

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Actuality: There is lack of information about the impact of parental smoking on fetal vessels in literature. At the same time, the fact of placental permeability for most toxic components of tobacco smoke and their accumulation in the amniotic fluid is observed. In this regard, studying the effect of smoking of parents on fetal vessels is extremely important.

The aim of our study was to investigate the influence of "smoking" rats-parents on the content of collagen and elastin in

blood vessels of descendants, and to explore the possibility of correcting the elasticity of blood vessels under the influence of dosed physical activity.

Materials and methods.

Experiments were conducted on 3-month-old rats of Wistar lines. Rats were divided into 4 groups: 1) control (C), 2) "smoked" only females (F), 3) "smoked" females and males (FM) 4) "smoked" only males (M).

Modeling of passive smoking was carried out by placing rats in a



specially designed chamber, which was distributed with tobacco smoke from cigarettes "Pryluky". 1-month-old rats-hairs were placed in "squirrel wheel" and ran it for 30 minutes every day. At the age of 2 months all rats were removed from the experiment. The amount of elastin in vascular homogenates was measured using immunoassay with reagents of Bender - med System firm (Austria), collagen - with spectrophotometric method (for oxyproline).

The results of the research. Reduction of elastin was discovered both in the aorta and femoral

arteries in neonates and 2-month-old offspring of parents-"smokers", what can cause increased rigidity of blood vessels, especially if both parents smoke. Under the influence of physical activity the content of elastin significantly increased both in the aorta and in the femoral artery, what leads to a decreasing (approaching the level of control) of ratio of collagen/elastin in vessels.

Conclusions. Physical activity can be recommended as a factor of the correction of functional state of blood vessels in children, offspring of parents who smoke.

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FEATURES OF MANIFESTATION OF COMMUNICATIVE ABILITIES AMONG YOUNG PERSONS WITH DIFFERENT TYPES OF FUNCTIONAL ASSYMETRY

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Actuality: Under the influence of scientific revolution and changes, which are connected to the country's movement to the market economy, professional activity of people was significantly complicated in all the fields, direct losses from the lack of organization or through unused abilities increased. So, organizational activity of the leader acquires big sense, especially in profession of the doctor. We should organize the medical work so that specialized and hightechnological doctoral help

would be available to each patient. Organizational abilities include: ability of planning own's activities, capacity for work and flexibleness, fast reaction on changing of plans. We should note that there isn't any conception in understanding doctor's abilities and research work is taken only in separate questions of this problem.

The Aim: reveal possible dependence between type of functional asymmetry and