

Западной медицине в большей мере быть превентивной медициной, каковой по сей день является Восточная и, в частности, тибетская и персидская.

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INTERRELATIONS BETWEEN SOME PSYCHO-PHYSIOLOGICAL PROFILE INDEXES IN UMSA IRANIAN STUDENTS

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Psychiatrist E.Krechmer (1924) has been trying to establish connection between human constitution and tendency to any psychic disease at the XX-th century beginning. He has stated that the pycnic is tended to maniacal-depressive psychosis, athletic – to epilepsy, asthenic – to schizophrenia. He also has differentiated three main human biotypes: viscerotonics (pycnics), somatotonics (athletics) and cerebrotonics (asthenics). U.Sheldon (1940) has differentiated ectomorphic (similar to asthenic), mesomorphic (to athletic) and endomorphic (to picnic) somatotypes. Rostan (1824) and Sigo (1914) were talking about digestive constitution type, muscular and cerebral one. Later they were related to picnic, athletic and asthenic types correspondingly. Character accentuations types (K.Leongard, A.Lichko) are known all over the world and are widely used by psychologists, psychiatrists and physiologists in part. Hypertymic type is tended to manias; dystymic – depressions; cycloid – maniac-depressive states; stucking – to phobias neuroses (of persistent states in part); pedantic type – some schizophrenia types; demonstrative one – to hysteria. Sexual shade (so-called gender aspect) relates to diseases as well. Girls are more instilled, undergone to hypnosis, conformism. Such disorders as dyslexy and dysgraphy are present in boys more often. Life duration is bigger in women. Higher pain threshold, estrogens cardio-protective action represent only several reasons of it. Behavior inclinations that represent dysadaptation, pathology, madness features in one culture can cause admiration and respect in another one. Schizophrenia represents universal psychical disorder that is expressed with similar symptoms in all cultures. Although there have been found some intercultural differences: the disease has easier course and is with longer remission periods in developing countries (probably, it is so because of necessity to get involved into working activity after the disease acuting). The depression symptoms universal character has been proven as well. At the same time, intercultural varieties have been found: individualistic cultures representatives complained mainly on solitude and isolation while the collectivistic ones – to somatic disorders. One should mention about culturally specific syndromes. Some of them are described in scientific literature as ethnic psychoses. People are more internal (with internal locus of control or tendency to think that person is responsible more for his activities results) in the West than in the East where people are more external (id est they think that external factors influence more on the person's activity results than the human being himself).

Taking these data into account, the work aim was to assess interrelations between some psycho-physiological profile indexes in Iranian students and its tasks were assessing the interrelations between psycho-physiological profile indexes (dominant extremity, constitution type, temperament type, locus-control, defense and coping as respond styles in difficult life situations, cognitive simplicity and complicity, reflexivity and impressiveness, analytism and synthetism. The work object was 63 students of UMDA, men and women, 19-27 years old. We used questionnaire of Eysenck, tests for individual interhemispherical asymmetry profile determining (dominant extremity, finger, leg, eye, Napoleon's probe, probe with applauding) as well as survey. Some results received demonstrated that there was not any connection between handedness and constitution type. Dexters used analytism more, sinisters – synthetism. Sinisters had external locus-control, dexters – internal one. Cognitive simplicity was in real sinisters more, complicity – in hidden (forced) sinisters, real dexters and ambidexters. Sinisters were impul-

sive more, dexters – reflexive in bigger extent. Sinisters preferred coping while dexters – defense in hard life situations. **Conclusions.** The work performed can help in human individualization study. Differential psychology and psychophysiology places important position among Sciences about Human Being nowadays in part in Pedagogics, Logopedy, Peditary, Biology and Chronobiology, Physiology and Pathophysiology, Psychology, Chronomedicine, Pharmacology.

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ERYTHROPOIESIS ASYMMETRY IN CATS

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Asymmetry is considered to be the common-biological law. It is realized at all known life organizational levels beginning from the molecular (protheins, aminoacids, DNA, mediators, enzymes asymmetry), cellular, organ (first of all - brain hemispheres, then lungs, skeletal muscles, kidneys, salivary glands, neuro-endocrine organs, and others) to organismic (Protozoas, Nematodas, Reptiles, Amphibias, Mammals, Human Being, some flowers et al.) one. But there are little data dealing with blood asymmetry (immunity, leucocyte particularly neutrophils, intact and activated platelets). Erythrocytes acquire the ability to have their asymmetrical shape during erythropoiesis. This phenomenon is tightly regulated by different substances (ATP, calcium, magnesium, hydrogen protons etc.). It has been proved erythrocyte membranes biochemical asymmetry existence. One can find little facts about velocity sedimentation rate, hemoglobin concentration, blood group agglutinogenes asymmetry. There exist some data about coagulation and tissular hemostasis asymmetry.

The aim of work was to determine whether erythropoiesis asymmetry is present or absent in cats. We performed following tasks: 1) estimate erythroblastic insulas quantity in bone marrow from right tibia; 2) to do the same from left tibia; 3) to compare the erythroblastic insulas amount on the right and on the left. We realized the analysis of erythropoietic activity of bone marrow received from the epiphyses of 10 right and 10 left tibias in 10 cats.

We took brain marrow from right and left tibia with a syringe filled with a physiological solution after which we made bone marrow smears with following staining by Pappenheim. The method represents a combination of the methods of May-Grünvald and Romanovsky-Gimza. Erythroblastic insulas amount was estimated in 10 squares by the standard squares method (Г.Автандилов, 1990).

As the visual analysis says, more active erythropoiesis was observed in a bone marrow from right tibia comparatively to the one from the left one. It is visible on more intensive staining of the preparation and the cellular elements bigger amount. For the received data proving we have performed their quantitative analysis which was in a counting of the erythroblastic insulas number (they are the erythropoiesis units) and their number comparison in the preparations taken on the right and on the left from the right and left tibias epiphyses. Bone marrow received from right tibias in the cats contained 1,46 times more erythroblastic insulas, thus, bone marrow erythropoietic activity was reliably higher on the right than on the left.

The erythropoiesis asymmetry is possible at least because there exists skeletal muscles functional and morphological asymmetry in the conditions of physical trainings or under resting conditions, there is a motor asymmetry in the animals in part cats.

Conclusion: the data received demonstrated erythropoiesis asymmetry in cats by erythroblastic insulas amounts in bone marrow taken from right and left tibias.