



Arkhipkina O.

THE STATE OF THE CELLULAR IMMUNITY FOR PATIENTS WITH HAND-ARM VIBRATION SYNDROME AND CHRONIC OBSTRUCTIVE PULMONARY DISEASE

Kharkov national medical university, Kharkov, Ukraine

Introduction. Hand-arm vibration syndrome (HAVS) is a widespread disease among the workers of most industries, that creates a serious medical problem and inflicts an economic detriment. Complication of pathogeny of HAVS is conditioned by the general biological operating of vibration on all cells, tissues and organs of man. Because of a stress character of influence of vibration there are violations of basic homeostatic mechanisms. A chronic obstructive pulmonary disease (COPD) meets often among the workers of industrial enterprises. A considerable role in pathogeny of chronic obstructive pulmonary disease is played by immune reactions and development of chronic inflammation in the respiratory system.

A purpose of research was a study the state of cellular link of immunity for patients with HAVS and COPD.

Materials and methods. In the clinic of research institute of occupational disease of KhNMU 118 patients were examined with the diagnosis of HAVS from influence of local vibration. All inspected were men in age $52,3 \pm 0,81$ years with experience of work in contact with a vibration $19,13 \pm 0,61$ years. 66 of them have COPD. A contents in blood CD3+, CD4+, CD8+, CD16+ of cells determined by means of anti - human monoclonal antibodies (MAT) of firm BD Pharmingen (USA) on running cytofluorimeter FACS Calibur (Becton Dickinson, USA). The statistical account of data was carried out by the program WinMDI 2.8.

Results. For all inspected persons observed disbalance of the T- cells of immunity. For certain levels changed CD3+ ($46,59 \pm 2,19\%$ against $52,17 \pm 1,53\%$; $p < 0,05$), CD4+ ($35,3 \pm 1,62\%$ against $39,72 \pm 1,02\%$; $p < 0,05$), CD8+ ($0,43 \pm 0,03\%$ against $0,35 \pm 0,02\%$; $p < 0,05$), CD16+ ($15,58 \pm 0,54\%$ against $17,42 \pm 1,02\%$; $p < 0,05$).

Conclusions. The results of the conducted research show substantial violations of cellular immunity for patients from HAVS and COPD. Decline of CD3+ and CD4+ with the simultaneous increase of CD8+ for patients with the accompanying pathology in comparing to the patients with the isolated motion of HAVS the reason of it is the presence of inflammatory process in the respiratory system. More expressed deficit of natural killers is the additional factor of origin of frequent respiratory infections and accordingly intensifying.

Chernenko O., Fazeli Niaki Morteza, Tkachenko E., Korobkin S., Korobkina A.

FACE ASYMMETRIES IN THE UMSA STUDENTS WITH VARIOUS ASYMMETRY INDIVIDUAL INTERHEMISPHERICAL PROFILE

Higher State Educational Institution of Ukraine "Ukrainian Medical Stomatological Academy", Poltava, Ukraine

Introduction. Asymmetry represents important adaptation factor for changeable non-favorable environmental conditions. Sinistrality belongs to such a

phenomenon rate, and importance of which got increased during latest years (sinisters amount together with ambidexters is approximately 20%). It is clear now that sinisters have their own diseases and states (hypersexuality and homosexuality, dyschronoses, logoneuroses in part), other diseases have peculiarities in them (tendency to recidivating, harder and atypical course as well as lethal end bigger percentage). Only nowadays there is a real beginning for special devices usage for left-handers in dentistry. Upper extremities and face asymmetries belong to the ones that are easily to be assessed. It is known that face asymmetry is minimal or even disappear right before the death. Right profile is one, left profiles are multiplied if one takes into account combination of other indexes applied for human individual profile assessment (leading finger, eye, Napoleon's probe, applauding probe).

Our work **aim** was to coincide right and left face halves in real dexters and sinisters and to compare face harmony and beauty. **Main tasks:** to assess asymmetry individual profile taking into account the sinistrality real character, to make the pictures with the investigated person face two right and two left halves coinciding. Our investigation group consisted of 25 real sinisters (with the sinisters among their close relatives) and 25 real dexters, students of UMSSA, girls and guys.

Results showed that if the investigated person was dexter, his face right halves were less harmonically having been united together than the left ones; if sinister – on the contrary. May be, our results can be explained by the fact that right hemisphere and right face half is more dominant in sinisters (and face left half, correspondingly, less developed and the one that gives bigger tenderness and harmony). For dexters it was on the contrary.

Conclusions. May be, received results can be used in dentistry at dentures making and in restorative medicine as a whole, in cosmetology and transplantology as well.

Golovashich A., Bogoyavlenskiy A., Markov A., Kufferina N.

SPINE STABILIZATION IN THE ACUTE PERIOD OF COMPLICATED SPINAL TRAUMA

Kharkiv Emergency Unit Hospital, Kharkiv, Ukraine

Introduction. The complicated injury of spine does not lose its urgency in the form of the fact that it is the reason for deep invalidization and often also death of the patients.

Purpose: a study of effectiveness of the iron constructions using in the acute period of the complicated spinal injury and its influence on the manifestation of neurologic symptomatology.

Materials and methods. A study was conducted in the two groups of patients. Into the first group entered 41 patient at age 18- of 55 years old with traumatic injuries of the breast and lumbar divisions of spine and expressed neurologic symptomatology at the moment of arrival to the stationary treatment of the Emergency Unit Hospital. 1-A group consists of 18 patients, by which the surgical intervention was achieved by rear access in the acute period of the complicated injury according to the type of the open reposition of the break- dislocations of vertebrae,