

ABSTRACT&REFERENCES

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HYPONATREMIA IN PATIENTS WITH CHRONIC HEART FAILURE AND PRESERVED EJECTION FRACTION OF THE LEFT VENTRICLE

p. 4-9

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Aim of the study: to study the occurrence of hyponatremia in patients with chronic heart failure (CHF) with LVPEF.

Material and methods: The study multi-directionally included 361 patients with CHF and LVPEF, who were at stationary treatment in the clinic SI “National institute of therapy, named after L.T. Malaya, NAMS of Ukraine”. All patients were divided in 3 groups: Group 1 – 120 patients with the stable course of the disease. Group 2 – 163 patients with decompensation of CHF in LVPEF. Group 3 included 78 patients with HF and LVPEF, died as a result of HF acute decompensation. The obtained results were

processed using the package of applied statistic programs SPSS 17.0.

Results of the study: In group 1 6 patients (5.0 %) demonstrated hyponatremia. In group 2 it was detected in 42 patients (25.8 %), in 3 group – in 30 persons (38.0 %). Hyponatremia occurs more often in patients with CHF and LVPEF older than 60 years (75.6±4.9 %) comparing with younger patients (24.4±4.9 %, $p<0,04$). It was also established, that among patients with hyponatremia there were more men (65.0±4.8 %), than women (35.0±4.8 %, $p<0,01$). The obtained data testify that hyponatremia in patients with the stable course of HF and LVPEF is associated with lower mean values of the aldosterone concentration and higher potassium levels in blood serum. NTproBNP content as other biochemical parameters in the compared groups of patients with stable HF and LVPEF didn't differ.

Conclusions: Thus, the obtained data allow to make the following conclusions:

1. Hyponatremia in patients with the stable course of HF and LVPEF is associated with lower mean values of the aldosterone concentration and higher potassium levels in blood serum. NTproBNP concentration patients with CHF and LVPEF with different hyponatremia levels didn't differ.
2. Among patients with CHF and LVPEF hyponatremia occurs more often in older male patients.
3. Hyponatremia at CHF and LVPEF is associated with the more severe clinical course and unfavorable outcome of the disease

Keywords: chronic heart failure, preserved ejection fraction, hyponatremia, clinical and prognostic value

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BLOOD LEPTIN LEVELS IN PATIENTS WITH OSTEOARTHRITIS: RELATION TO CLINICAL CONDITIONS OF DISEASES

p. 10-14

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Aim of the work: study of the content of leptin in the serum of patients with OA and the study of relationships with clinical manifestations and functional status of patients.

Objects and methods: The determination of blood serum leptin levels and for the evaluation of the Lequesne index, HAQ, and KOOS was performed on 71 female with knee joints OA and 32 healthy women in control group.

Results. There was a significant relationship between serum leptin levels and the HAQ scale ($p=0.026$) and significant differences in the level of leptin in the X-ray stage of OA ($p=0.043$). An association of excess body weight with an increase in the level of serum leptin in the level of the tendency is established.

Conclusions: A detailed analysis of the level of leptin in relation to clinical and demographic indicators, clinical manifestations and functional status of patients with OA revealed a significant difference in the level of leptin in the context of the X-ray stage of OA. A reliable link between the level of leptin and the functional status of patients with HAQ was found. In addition, the association of excess body weight with the increase in the level of serum leptin in the bloodstream was observed at the level of the trend.

Keywords: osteoarthritis of the knee joints, leptin, Lequesne index, body mass index, HAQ

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POSSIBILITY OF USING THE COMPLEX OF PHYTOPREPARATES, VITAMINS AND MICROELEMENTS IN THE TREATMENT OF CHRONIC ABACTERIAL PROSTATITIS

p. 14-18

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Aim of the research was to study the effectiveness of the complex drug “Saluprost” with chronic prostatitis on the parameters of spermogram and sex hormones levels in young men.

Methods. The state of the prostate gland, the parameters of spermograms, as well as the levels of hormones when using the complex drug “Saluprost”, which contains phytonutrients, vitamins and trace elements, were studied. The efficacy of treatment was evaluated by studying the index of symptoms of chronic prostatitis (NHI-CPSI). Parameters of spermograms were studied according to WHO criteria. Testing levels of testosterone and estradiol in the blood was carried out using the immune enzyme method.

Results. Against the background of a decrease in the NHI-CPSI index, which characterizes the severity of the manifestations of chronic prostatitis, the parameters of the spermogram were improved: the mean values of the concentration of sperm, the percentage of their mobile and active forms, and the mean values of morphologically altered forms of sperm decreased. This happened on the background of increasing and normalizing the mean values of the concentration of fructose in the ejaculate. Therapy helped to make estradiol levels lower in serum, as well as a significant increase in mean testosterone levels.

Conclusions. The drug “Saluprost” is effective in the treatment of chronic abacterial prostatitis. It also has a positive effect on the studied parameters of spermograms and androgen-estrogen balance in young men.

Keywords: chronic abacterial prostatitis, “index of symptoms of chronic prostatitis”, Saluprost, spermogram, testosterone, estradiol

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IMMUNE RESPONSE OF ESCHERICHIOSIS INFECTED CHILDREN WITH EPSTEIN-BARR VIRUS

p. 19-24

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The aim of the study was to investigate the features of the immune response on Escherichiosis in children infected with EBV.

Methods. *The cellular and humoral links of the immune response, phagocytic activity of neutrophils in 84 early aged patients with Escherichiosis was performed, it included 28 children with persistent inactive (latent) EBV infection and 26 patients with active EBV infection. The control group consisted of 20 practically healthy children. Static processing of the obtained results was carried out by means of Excel and Statistica 6.0 applications.*

Results. *Different pathogenetic mechanisms of development of Escherichiosis have been revealed depending on the activity of EBV infection. The presence of latent or active EBV infection in patient with Escherichiosis leads to inhibition of cellular immunity and intension of the humoral immune response, signs of over-strain of the functional activity of neutrophils in acute period; in the case of latent form of EBV infection – a decrease in the functional reserve of the oxygen-dependent mechanism of bactericidal neutrophils. At the period of early convalescence of the disease, the complete recovery of the above indicators in patients with EBV infection does not occur.*

Conclusions. *The revealed changes in the immune response in patients with Escherichiosis infected with EBV should be taken into account for adequate treatment of these patients, as well as for medical observation at the stages of rehabilitation*

Keywords: *Escherichiosis, Epshtein-Barr virus, children, cellular and humoral immunity, neutrophils*

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ASSESSMENT OF QUALITY OF LIFE IN PATIENTS WITH MYASTHENIA

p. 24-27

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Aim: to study the quality of life in adult patients with myasthenia, depending on the immunological subtype and the clinical form of the disease.

Methods: 96 patients (56 women and 40 men) with myasthenia (71 with generalized, 25 with an ophthalmologic form, respectively) underwent in-depth clinical and neurological, immunological examination tests on MGQoL-15 scale.

Results: When evaluated on the MGQoL-15 scale, the average quality of life was 10.34 ± 9.4 points (in ranging from 0 to 31). In patients with ophthalmic myasthenia (class I by MGFA), the quality of life is significantly higher in comparison with patients with generalized form ($p < 0.05$). In the generalized form, quality of life indicators are significantly reduced with increasing severity of the disease (from class II to class IV by classification of MGFA, $p < 0.05$). The level of quality of life does not depend on the detection of antibodies to acetylcholine receptors, antibodies to muscle-specific tyrosine kinase or their absence ($p > 0.05$).

Conclusions: The quality of life of patients with myasthenia depends on the severity of the disease and does not depend on the immunological subtype of the disease. The highest indicators of quality of life are observed in patients with ocular form of myasthenia, which is explained by the lesser influence of neurological manifestations of the disease on everyday life, habits, work of patients. Reducing the severity of manifestations of myasthenia leads to an improvement in the quality of life of patients

Keywords: myasthenia, quality of life, antibodies to acetylcholine receptors, antibodies to muscle-specific tyrosine kinase

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MEDICAL AND PSYCHOLOGICAL SUPPORT OF MEDICAL STUDENTS IN THE CASE OF MALADAPTIVE REACTIONS AND STATES

p. 27-34

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Aim of the research - to develop a system of medical and psychological support of medical students in case of occurrence of their maladaptive reactions and states.

Object and methods. A total clinical-anamnestic, clinical-psychopathological and psychodiagnostic examination of 412 students of the Kharkiv National Medical University at the age of 17–22 years old (average age of 18.0±±2.0 years) was carried out for solving the stated task, observing the principles of bioethics and deontology. 52.2 % of students (215 people) composed the group I of surveyed students – residents of eastern Ukraine; 21.1 % (87 students) – the group II – residents of Luhansk and Donetsk regions, who entered the study at the KhNMU before the ATO; 26.7 % (110 people) were the group III – seized immigrants. Methods of research: clinical-anamnestic, psychodiagnostic, statistical.

Results. As the results of the study showed, 73.0 % of the I examined group of the students, 63.6 % of the II students and 7.8 % of the III group did not show signs of maladaptation, in some cases they presented only a few complaints, mainly on the general feeling of intense learning .

In 27.0 % of the examined students of group I, 36.4 % – II and 92.2 – III groups, the mental state could be classified within the clinically designed states of psychological maladaptation, manifestations of which were emotional disorders: decreased mood, the appearance of related thoughts about their low significance, the inability to cope with the training load.

The system of medical and psychological support of medical students was developed, which consisted of three consecutive stages: diagnostic psychotherapeutic intervention and psychoprophylaxis.

The stage of psychotherapeutic intervention was aimed at correction of emotional state, relevance reduction of psycho-traumatic situations, normalization of mood background, restoration of psychosocial activity and mental efficiency, in-

crease of stress resistance, formation of productive coping strategies, assimilation of adaptive forms of behavior and motivation for their realization.

Conclusions. In the system of psychotherapeutic correction of the disorder of adaptation to medical students it is expedient to use complex of rational psychotherapy, autogenous training, cognitive-behavioral therapy of Beck, art therapy and psycho-educational trainings.

The system of psychoprophylaxis for the development of maladaptation states should include measures of the primary (development and implementation of the program of medical and psychological support, assessment of personality characteristics of students and prediction of their behavioral reactions, reducing the level of emotional tension); secondary (early diagnosis of maladaptive reactions and conditions, timely and adequate correction) and tertiary (prophylaxis of relapse of maladaptive states, control of the risk group for the development of adaptation disorders) of psychoprophylaxis

Keywords: medical students, adaptation disorders, medical and psychological support, psycho education, psychotherapy, psychoprophylaxis

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DYNAMICS OF PSYCHOPATHOLOGICAL DISORDERS AND LEVEL OF SOCIAL FUNCTIONALITY IN PATIENTS WITH SCHIZOPHRENIA UNDER COMPLEX TREATMENT

p. 31-35

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Aim of the research: Assessment of the effectiveness of art therapy in the system of therapy and rehabilitation of patients with schizophrenia.

Objects and methods: During the study, a comprehensive clinical-psychopathological and psychodiagnostic study of 125 patients, both sexes, at the age of 20-45 years (average age 35.0±2.0 years) with diagnosed schizophrenia in the stabilization of the condition was performed. The main group (who took part in art therapy) was 95 people (54 women and 41 men). The control group included 30 patients (16 women and 14 men) who received standard regulated therapy in the hospital.

Results. In the course of the study, the system of art therapy in the complex therapy of patients with schizophrenia was proposed and their effectiveness was proved.

Under the influence of art therapy in the complex treatment of schizophrenia, rapid reduction of psychopathological symptoms, normalization of the emotional state, stabilization of patients' behavior, improvement of cognitive parameters, increase of psychophysical activity of patients is noted, which is confirmed by data of dynamic analysis of clinical and psychopathological violations on PANSS scale.

There is a pronounced positive dynamics of the level of social functioning in patients with schizophrenia, which included in the traditional complex of treatment and rehabilitation measures art therapy on the scale of general behavioral dysfunction, dysfunction when performing social roles in society; functioning of patients in the hospital and dysfunctional modifying factors.

Conclusions. Under the influence of art therapy in the complex treatment of schizophrenia, a rapid reduction in psychopathological symptoms, an increase in the duration and qual-

ity of remission is observed, which is confirmed by the data of the dynamic analysis of clinical and psychopathological disorders on the PANSS scale.

Against the background of art therapy in 82.2 % of patients with schizophrenia was achieved a stable therapeutic effect, 11.1 % – the state remained without dynamics, and 6.7 % – there was a relapse of the disease. In patients with schizophrenia, optimization of the coping strategy of problem-solving behavior with the predominance of coping-oriented problem solving is noted

Keywords: art therapy, patients with schizophrenia, social functioning. positive, negative, general psychopathological syndromes, coping strategies

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STUDY ON THE HEALTH OF UKRAINE'S POPULATION BY THE EXAMPLE OF THE KYIV REGION

p. 35-42

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Aim of the research – to evaluate the health status of the population as a whole, in particular to analyze the prevalence and morbidity rates among the population of Bucha, Kyiv region and Ukraine in the period of 2012–2016.

Object and methods. The analysis of prevalence and morbidity among population of Bucha, Kyiv region and Ukraine as a whole for the period of 2012–2016 was conducted.

Results and discussion. During the survey of indicators of the prevalence of diseases, a negative tendency (2015–2016) has been recorded regarding the increase in prevalence and morbidity rates of the population of the region in comparison with 2014, but at the same time, they remain below the indicators of 2012 (by 4.49 % and 6.12 %, respectively). In the structure of the morbidity of the population of the region in 2016, in contrast to the prevalence, diseases predominate: respiratory organs (51.0 %), blood circulatory system (5.9 %). The incidence rates for the last five years in classes tend to decrease, with the exception of diseases of the respiratory system, the ears and the nasal sprout. According to the analysis, changes regarding the distribution of rating places in the structure of morbidity in 2016 compared with the previous year did not occur.

Conclusions. The lack of necessary knowledge of primary care among physicians providing medical care for diagnosis, treatment of mental and behavioral mental disorders in

patients, improper or incomplete organization of detection and registration of such violations only contribute to unsatisfactory characterization of the state of mental health of the population of Ukraine. While the scope of mental health itself, including the primary level, requires reforms and the universal availability of mental health services

Keywords: health indicators, prevalence and morbidity of the population, primary health care

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