

ABSTRACT&REFERENCES

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THE INFLUENCE OF PROFESSIONAL DISTRESS ON THE ADAPTATION OF DOCTORS-INTERNS UNDER MODERN CONDITIONS

p. 4-6

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Aim of research – the study of the specificity of the professional distress influence on adaptation of a doctor-intern at the professional training.

For attaining the set aim we realized the complex examination of 213 doctors-interns of the Kharkiv national medical university of both sexes, 22–25 years old, observing principles of bioethics and medical deontology.

Methods of research: clinical-anamnestic, pycodiagnostic, statistical.

Results: it was established, that women manifest the higher level of disorders of adaptation to the professional activity comparing with men. Thus, the high level of maladjustment was revealed in 9,2 % of men and 12,5 % of women; the expressed level of maladjustment – 10,3 % of men and, 14,0 % of women; the moderate level – 36,2 % and 42,1 % respectively.

The specificity of clinical and psychological manifestations of adaptation disorders of doctors-interns was described. Based on complaints, anamnesis data, taking into account the additional analysis of depressive and anxiety symptoms by Hamilton scales, there were separated the asthenic (25,5 %), hyperesthetic (21,6 %), anxious-depressive (16,2 %), psychosomatic (14,2 %), astheno-apathetic (11,4 %), addictive (11,1 %) types of maladjustment reactions.

Conclusions: The professional distress of doctors-interns results in the formation of maladjustment states (55,7 % of men and 68,6 % of women). The high maladjustment level was revealed in 9,2 % of men and 12,5 % of women; the expressed level of maladjustment – 10,3 % of men and, 14,0 % of women; the moderate level – 36,2 % and 42,1 % respectively.

There were separated asthenic, hyperesthetic, anxious-depressive, astheno-apathetic, psychosomatic and addictive variants of maladjustment reactions in doctors-interns

Keywords: *psychological adaptation, professional activity, doctors-interns maladjustment, medical-psychological support, psychoeducation*

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THE FORENSIC PSYCHIATRIC ASSESSMENT OF VICTIM BEHAVIOR OF PERSONS SUFFERED FROM SEXUAL VIOLENCE

p. 7-14

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Aim – to analyze the scientific-practical approaches to the forensic psychiatric assessment of victims of sexual violence; to establish the interconnection between victim's personal features and motivation of an illegal action and possible prophylactic arrangements.

Materials and methods. The study is grounded on the analysis of the total sample of examined persons, who realized criminal violations on the sexual background and were at the forensic-psychiatric expertise in the Kyiv municipal center of forensic psychiatric expertise in 2001–2015 (during 15 years). For 2017 there were examined 279 persons. Victims were also examined within the forensic psychiatric expertise for this period of time to study the problem of a possible victim behavior of suffered persons, their characterological features that help at studying the motivation of an illegal action and possible preventive arrangements. 69 victims were examined for 2017.

There were used information-analytical, socio-demographic, clinical-psychopathological, experimental-psychological, expert methods, method of situation analysis, statistical methods.

Results of research.

1. For victims of criminal-violent actions is typical the presence of the certain complex of socio-demographic and moral-psychological signs, which appearance determines their typical behavior and more probability to become a victim of violent actions.
2. The personality and behavior of victims of sexual crimes essentially influence the motivation of a criminal behavior and situation that it is realized in.
3. The knowledge of personal features of victims, their role in the crime development and characteristic of relations between a criminal and victim from the position of victim's features and its behavior essentially widens possibilities

of preventive programs, directed on the victimological prevention of sexual violations.

Conclusions.

1. Victimological factors play an essential role in the criminal behavior genesis, especially in sexual violence situations.
2. Only the complex and comprehensive study of a personality of a criminal and his victim, their interrelations, objective role, played by each of them in an illegal act, allows to make a conclusion about the responsibility of a guilty person and also to establish circumstances that favored its execution.
3. Victimological prophylaxis is an important element of the rational system of the victimological direction of preventive actions of criminality by elimination of victimogenous factors of a criminal behavior together with its other element – activity, directed on elimination of negative consequences of a criminal behavior

Keywords: forensic psychiatric assessment, victim behavior, victims, sexual crimes, sexual attraction disorders

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SPINAL MUSCULAR ATROPHY – PROBLEMS OF PATHOGENESIS AND CHOICE OF TREATMENT

p. 15-20

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Aim. The use of inhibitors of histones deacetylase, especially valproates together with the vitamin therapy and the complex of physical exercises was the main method of the treatment of patients with SMA till today. The elaboration of the first, officially acknowledged FDA preparation for SMA treatment forces to review the expedience of the complex therapy using valporoic acid, vitamin additives and physical exercises.

Methods. The study included 12 patients with different forms of amyotrophy. Depending on the complex of received therapeutic arrangements, they were divided in 4 groups. The treatment effectiveness was estimated in points of Hammersmith scale of the motor function. The comparison of the treatment effectiveness in different groups of patients was realized with the calculation of Student coefficients.

Result. Motor possibilities of patients in all groups essentially differed from each other depending on SMA type. The number of points, received by patients with the same SMA type, almost didn't differ depending of a group of patients.

Conclusions. Motor possibilities of patients are mainly connected with their initial phenotype, only partially influenced by the used treatment methods. The effectiveness of medical means at SMA depends not on the quantity of selected groups of preparations and additional treatment methods but on the initial phenotype

Keywords: SMA, SMN1, splicing, axonal transport, valproic acid, antisense oligonucleotides, Nusinersen

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THE ROLE OF COMORBIDITY IN THE MANAGEMENT OF PATIENTS WITH COMBINED PATHOLOGY OF ASTHMA AND COPD

p. 20-25

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The aim of the study was the revelation of the comorbidity influence in patients with the combined pathology of bronchial asthma and chronic obstructive pulmonary disease on clinical manifestations and symptoms of the disease, system inflammation factors and breath functional parameters.

Materials and methods. *The study included 140 patients with the combined bronchial obstructive pathology of the mean age 58,56±0,81 years, 74 women, 66 men.*

All patients underwent the spirometry and bodypletizmography (“Master Screen PFT”, Germany). The test with 6-minutes walking was realized according to the standard protocol. The determination of the clinical course severity and disease prognosis was assessed by BODE index. All patients underwent the clinical analysis of blood, coagulogram, determination of highly-specific C-reactive protein. The level of dyspnea was assessed in all patients by the

modified scale of the medical research council (mMRC), and also the index of basic dyspnea (BDI). The general point by the Charlson comorbidity index was calculated for all patients.

Results. *With the increase of the number of concomitant diseases, the intensity of symptoms and functional disorders, inherent to bronchial asthma and chronic obstructive pulmonary disease increased. At the high level of comorbidity index, dyspnea was reliably more essential (by mMRC) comparing with one of patients with the low and middle level of comorbidity ($p<0,05$); functional disorders were more intense, realization of a usual activity was complicated (by BDI). Patients with the combined bronchial obstructive pathology with the high comorbidity level had the decreased physical tolerance (in the test with 6-minutes walking) and also reliably worse disease prognosis (higher BODE-index).*

The increase of comorbidity index was attended by negative changes of volumes, capacities, parameters of bronchial permeability at all levels of respiratory tracts in patients with the combined bronchial obstructive pathology. Patients with the combined pathology with the high comorbidity index had reliably higher indicators of the system inflammation (C-reactive protein, fibrinogen) comparing with patients with the middle and low comorbidity indices ($p<0,05$). Patients with the middle comorbidity level had the reliably higher content of neutrophils of peripheral blood comparing with one of patients with the low comorbidity ($p<0,05$).

Conclusions. *Patients with the combined bronchial obstructive pathology at additional comorbid diseases demonstrated the essential intensification of clinical manifestations and symptoms of the disease, worsening of external breath function indices, intensification of the system inflammation and prognosis worsening. The combination of diseases played also rather important role at the combined bronchial obstructive pathology*

Keywords: *combined bronchial obstructive pathology, comorbidity, prognosis, external breath function, inflammation*

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- EVALUATION OF THE EFFECTIVENESS OF PSYCHOEDUCATION IN THE STRUCTURE OF REHABILITATION OF PATIENTS WITH BIPOLAR AFFECTIVE DISORDER**
- p. 25-29**
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- Aim of research:** *The assessment of the effectiveness of psychoeducational programs in the complex psychosocial rehabilitation of patients with a bipolar affective disorder.*
- Materials and methods.** *The study includes the complex clinical-psychopathological, clinical-anamnestic and psychodisgnostic examination of 158 patients with BAD. The main group (which patients took part in the psychoeducational program) included 94 persons. The control group consisted of 64 patients, who received the standard regulated therapy at a hospital.*

Results of research. *There were elaborated the algorithm of the psychoeducational work that includes the use of different information modules, holds of the cognitive-behavior psychotherapy, training interactions (positive self-attitude, compliance improvement, formation of communicative abilities and skills, solution of problems of interpersonal interaction), problem-oriented discussions and also family psychotherapy.*

The high effectiveness of psychoeducation comparing with the traditional complex treatment and rehabilitation of patients with BAD as to the reduction of psychopathological symptomatology, activation of adaptive coping-strategies, transformation of maladjustment types of an attitude to a disease into adaptive ones, patients' life quality improvement was established.

Conclusions: *The offered system of psychoeducation of patients with BAD demonstrated the high effectiveness comparing with the traditional rehabilitation complex*

Keywords: *bipolar affective disorder, psychoeducation, rehabilitation, social functioning, coping-strategies, life quality*

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MALARIA VIVAX AT BUKOVYNA: THE CLINICAL CASE OF UNCONTROLLED SELF-TREATMENT

p. 30-33

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Materials and methods. *There were used clinical, general laboratory, parasitological (microscopy of a smear and thick drop of blood), instrumental, epidemiological research methods. The descriptive analysis of the medical documentation (outpatient and stationary card of a patient) was realized, clinical-epidemiological data of a patient were analyzed.*

Results of research and their discussion. *At the admission of a patient of the infectious stationary of MCI “Regional clinical hospital of Chernivtsi city” it was elucidated that he has been suffering from malaria attacks (ague-fever-perpiration) since 2013 after staying in Venezuela. He has the distinctly expressed positive epidemiological anamnesis, connected with a contract work. In the presented clinical case the patient was aware as to the malaria symptoms, because worked as a ship doctor. The uncontrolled self-treatment at the absence of the “gold standard” of laboratory diagnostics of malaria led to the long parasite-spreading in the liver tissue as “dormant forms”.*

Conclusions.

1. *At the positive epidemic anamnesis all cases of fever of unexplained genesis must be diagnosed for the most socially important tropic disease of 21 century in the world scale – malaria.*
2. *It is obligatory to establish the type of a malaria plasmodium by the repeated parasitology of blood by the methods of thin smear, stained according to Gimza-Romanovsky and thick drop taking into account the predicted sensitivity to anti-malaria chemopreparations.*
3. *The attentive attitude of family doctors of the first link of family medicine to malaria allows to avoid complicated forms and remote relapses of this inoculable infection, caused by different types of plasmodia*

Keywords: *Plasmodium vivax, parasite-spreading, imported malaria, relapse, self-treatment, labor migrant, Bukovyna*

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THE MORPHOLOGICAL ESTIMATION OF THERAPEUTIC EFFECT OF COMBINED RECTAL CREAM UNDER ACUTE ANAL FISSURE

p. 33-38

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***Aim** – morphological estimation of the influence of the combined rectal cream on the clinical course of an acute complicated anal fissure.*

***Materials and methods.** The study of the treating effect of the combined rectal cream was realized on the model of an acute complicated anal fissure on 24 nonlinear white rats with the weight 200–240 g. For assessing the effectiveness of the studied preparation, the morphological experiment of the sphincter apparatus of the rectum was realized at 12 day of the experiment.*

***Results:** It was established, that the use of the combined rectal cream in animals with an acute complicated anal fissure had an essential therapeutic effect: at 12 day the ulcerous defect of a mucosa was revealed only in 33,3 % of animals. Defects were essentially less by size than in animals from the control pathology group, their surface was more cleaned from the purulent-necrotic content, the ripening of the newly created tissue that replaces nectorically changed ones in the defect zone is faster. Microcirculation disorders and inflammation of tissues of this zone were essentially less in all animals. Signs of the muscular tone of the internal anal sphincter were essentially less, comparing with the group of the control pathology. The control preparation “Proctozan” was inferior by the intensity of the therapeutic effect to the studied one.*

***Conclusions:** The therapeutic effect of the combined rectal cream under conditions of an acute combined anal fissure was manifested as a decrease of inflammation signs, microcirculation disorders, signs of the internal anal sphincter hypertone. Thus, the received experimental data testify to the expedience of further deep researches of its therapeutic action*

***Keywords:** chronic anal fissure, medicamental sphincterotomy, diltiazem, lidocaine, metiluracil, rectal cream*

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MODERN APPROACHES TO STERILITY TREATMENT IN WOMEN WITH OVARY ENDOMETRIOSIS USING EXTRACORPOREAL FERTILIZATION

p. 39-43

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Aim of research: to raise the effectiveness of sterility treatment in women with ovary endometriosis using extracorporeal fertilization and vitamin D.

Materials and methods of research. There were examined 90 women with ovary endometriosis, divided in three clinical groups. The first group included 30 women, who underwent the program of extracorporeal fertilization traditionally after the surgical treatment of ovary endometriosis. The second group consisted of 30 women with sterility, who underwent the program of extracorporeal fertilization before the surgical intervention as to ovary endometriosis, the third one included 30 patients with sterility, who underwent the program of extracorporeal fertilization before the surgical intervention as to endometriosis and took cholecalciferol 5000 IU/day during 12 weeks. The control group included 30 women without endometriosis, who underwent the program of extracorporeal fertilization because of tube-peritoneal sterility.

Results of research. The ovarian reserve in women, who underwent the operation as to ovary endometriosis, is essentially decreased that is proved by the ultrasound determination of antral follicles condition and is explained by the uncontrolled extraction of ovarian follicles at the operation.

Ovary endometriosis leads to the decrease of oocytes quality at the expanse of dysregulation of paracrine ovarian factors, characterized by the ratio IL-8/IL-12. The study of the content of 25(OH)-vitamin D demonstrated its low level in women with ovary endometriosis and sterility comparing with the control ($p < 0,05$). The use of cholecalciferol 5000 IU/day during the program of extracorporeal fertilization favored the increase of its effectiveness.

The received data demonstrate the optimization of sterility treatment in women with ovary endometriosis using the program of extracorporeal fertilization before the surgical treatment and additional use of vitamin D. The elaborated method allows to increase the pregnancy frequency, favors the decrease of the number of days of stimulation, decrease of the total dose of preparations, necessary for ovulation stimulation that is probably conditioned by the absence of the injury of antral follicles by the surgical intervention. The use of the tactics of sterility treatment with ovary endometriosis using extracorporeal fertilization before the surgical treatment at the background of the therapy by vitamin D increases its effectiveness almost twice due to the decrease of the risk of the ovarian reserve destruction at the surgical treatment at normalization of the content of vitamin D.

Conclusions. The sterility treatment in women with ovary endometriosis using extracorporeal fertilization before the surgical treatment at the background of vitamin D intake allows to increase the effectiveness of the thera-

py essentially at the expanse of the use of the untouched ovarian reserve and normalization of paracrine indices of folliculogenesis

Keywords: sterility, endometriosis, ovary, ovarian reserve, folliculogenesis, extracorporeal fertilization, vitamin D

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RESEARCH OF THE SPREAD OF DISEASES OF TEETH HARD TISSUE AMONG STUDENTS

p. 44-46

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In the work are presented the results of the complex dental examination of 209 students of a higher educational institution of Kyiv city. It was elucidated, that young people need primary, secondary and tertiary prophylaxis of dental diseases. At the study patients were divided by sex differences, bite type, clinical course form (generalized, localized), injury depth (first, second, third degree), depending on the rubbed area (horizontal, vertical, mixed) of teeth.

Methods: The dental examination of students, studied in a higher educational institutions of Kyiv city. Among them women were – 114 (54,5 %) persons, men – 95 (45,5 %) persons.

Results: The predominant part included students with the orthognathic bite – 159 persons, with direct – 29, and with deep – 21 persons. 1 – degree of teeth rub prevails – 110 persons, 2 degree – 68 persons. The generalized form was diagnosed in 120 persons, localized in 89 persons, compensated in 34 persons, subcompensated 52 persons, decompensated in 23 persons.

Conclusions: The causes of the pathological rub of teeth hard tissues are the functional inferiority of teeth hard tissues, intake of acid-containing products and medicaments, use of abrasive teeth pasts and hard teeth brushes or their irrational use, horizontal movements at teeth brushing, pathological bite, teeth vestibuloposition, teeth necks baring, supra-contacts

Keywords: raised rub of teeth hard tissues, non-carious teeth injuries, young people

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