

# **МУНДАРИЖА \* CONTENTS \* СОДЕРЖАНИЕ**

#### SCIENTIFIC-THEORETICAL MEDICINE

SCIENTIFIC-THEORETICAL MEI	DICINE		
A.E. Ruziev The USE of Endomesenteric Lymphotropic Therapy in Abdominal Surgical Pathology in The Postoperative Period		Kurbonova Z. Ch., Babadjanova Sh. A. TREATMENTS OF HEMOSTASY CHANGES IN CHORONAVIRUS INFECTION	
Xamdamova M.T., Urinova Sh.A. INNOVATIVE METHOD OF TEACHING STUDENTS OF THE DEPARTMENT OF GYNECOLOGY10		LYMPHOCYTES W IMMUNOMODUL	CHANGES IN BLOOD /HEN USING GEPON ATORS IN PATIENTS WITH OSIS74
Nazarov Jalolitdin Sulton Erkinovich ACONICISM, DEDUCTION AND CASES IN TEACHING PRACTICE		Eshonov O.Sh. LYMPHOTROPIC	ANTIBIOTIC THERAPY IN NJURY80
		Boltaeva F. G., Rakhmanova U.U., Babadzhanova Sh.A.	
Sadiev Erali Samievich, Sanoyev Bakhtiyor Abdurasulovich HEART DISEASES IN FORENSIC MEDICAL PRACTICE: SUDDEN CARDIAC DEATH		THE STUDY OF THE CLINICAL COURSE AND HEMOSTATIC DISORDERS IN PATIENTS WITH CORONAVIRUS DURING THE FIRST WAVE OF COVID-19 IN THE KHOREZM REGION	
Sanoev Bakhtiyor Abdurasulovich, Sadiev Erali Samievich HEART PATHOLOGY IN THE PRACTICE OF FORENSIC MEDICAL AUTOPSY:CARDIOSCLEROSIS31		Mambet kyzy G., K.M. Raimkulov, C.K. Makeeva, N. Babadjanov,S. Dozalieva	
Kamalova M. K., Samatov R. R., Jumaev L. R. RESULTS OF EVALUATION BY THE CLINIC OF THE EFFECTIVENESS OF PREVENTION AND TREATMENT OF ACUTE INFLAMMATORY DISEASES OF THE SALIVARY GLANDS		THE INFLUENCE OF PARASITES ON THE HEALTH OF THE POPULATION AS A BIOLOGICAL FACTOR OF THE ENVIRONMENT	
Abdurakhmonov B.M., Mamasoliev N.S., Kurbanov R.R. KIDNEY - STONE DISEASE OF EPIDEMIOLOGY AND PREVENTION OF EVELOPMENT FACTORS: INFORMATION 240		Isroilov.R.I., Eshboev.E.X., Khudoynazarov S.K. CLINICAL-MORPHOLOGICAL CHARACTERISTICS OF MOHOV TUBERCULOID FORM AFTER TREATMENT WITH SULFON	
Askar'yans V.P. GENETIC BASES OF PERSONALITY AND TEMPERAMENT		PREPARATIONS94 Akhmatova Nodira Rakhmatovna	
Bobojanova F.A., Shagiyazova L.M. THE CAUSE OF DEPRESSION IS IN THE ABDOMINAL, NOT IN THE HEAD		CEREBROVASCULAR DISEASE IN HYPOTHYROISIS98	
Eshbaev Erkin Abdukhalimovich PATHOMORPHOLOGY AND PATHOGENESIS OF DEATH IN WOMEN OF CHILD BEARING AGE - HELLP SYNDROME		B.S.Yuldashev MORPHOLOGICAL CHARACTERISTICS OF BREAST TUMORS IN WOMEN LIVING IN THE ARAL SEA REGION102	
Yarashev A.R., Eshonov O.Sh. INFORMATIONAL SIGNIFICANCE OF THE INDEX OF THE RATIO OF NEUTROPHILS TO LYMPHOCYTES IN CRITICALLY ILL PATIENTS WITH ACUTE CEREBROVASCULAR ACCIDENTS		Urmanova Yu.M., Mavlonov U.Kh., Alieva D.A., Dalimova G.A., Safarova Sh.M., Savchuk D.V. EFFECTIVENESS OF THERAPY WITH THYROID DRUGS IN ADOLESCENTS WITH DELAYED PUBERT	
Мақолалардаги маълумотлар учун муаллиф ва бош муҳаррир масъул.	Масъул муҳаррир Бадиий муҳаррир Таржимон: <i>Гайбу</i>	Пўлатов С.М.	«Тиббиётда янги кун» тиббиёт журнали таҳририяти, Тошкент ш., 100011,
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3

2



Aslonova Marjona Ramazonovna DETECTION OF CALCIUM DEFICIENCY IN CHILDREN AGAINST THE BACKGROUND OF PARASITIC DISEASES......145

Abdullaeva M.A. Kudratova M.O. COVID-19 IN UZBEKISTAN......164

Farmanova Maxtob Alimovna BRUSELLA INFEKTSIONNING KLINIK-LABORATORIY XARAKTERISTIKASI......170

Xudoydodova S.G. RESPIRATORY MANIFESTATIONS OF COVID-19 IN CHILDREN......174

 Nishanova D.F. MANAGEMENT OF PATIENTS WITH DIABETES MELLITUS AND COVID-19......187 Turgunov Sh.Sh., Botirov A.K., Nosirov M.M. DIAGNOSIS AND PREVENTION OF ANASTOMOTIC LEAKAGE IN COLORECTAL SURGERY......195 Egamov S.Sh., Botirov A.K., Rasulov M.T. SURGICAL TACTICS FOR "DIFFICULT" DUODENAL Akhmedova M.D., Sultonova G.Yu., Mirzajonova D.B. INTESTINAL DYSBACTERIOSIS IN PATIENTS WITH VIRAL ETIOLOGICAL LIVER CIRRHOSIS......207 Keldiyorova Z.D. MMUNOLOGICAL FEATURES OF INFECTIOUS Kh.O. Kosimov HYGIENIC SUBSTANTIATION OF WORKING CONDITIONS OF WORKERS DEVELOPING VEGETABLES UNDER THE OPEN SOIL Mansurova M.Kh. MODERN ASPECTS OF LISTERIOUS Niyozov G.E., Raximov F.F. CLINICAL AND LABORATORY PARAMETERS OF PATIENTS INFECTED WITH SARS-COV-2.....225 Oblokulova Z I EXTRAHEPATIC MANIFESTATIONS OF CHRONIC VIRAL HEPATITIS C......229 Raxmatullaeva Sh.B., Muminova M.T. INTESTINAL MICROBIOCENOSIS IN CHILDREN WITH ACUTE INFECTIOUS DIARRHEA DEPENDING ON THE DEGREE OF IMMUNODEFICIENCY IN HIV INFECTION......233 Kamalov T.T., Tojiboev S.S. ISSUES OF BONE METABOLISM DISTURBANCES IN PATIENTS WITH DIABETIC OSTEOARTHROPATHY......238 Sadikova M.A. MANAGEMENT OF OBSTRUCTED RESPIRATORY TRACTS AFTER TNE BURN CONTRACTURE OF THE Musashaykhova Sh.M., Musashaykhov U.Kh., Boboev K.T ANALYSIS OF THE ROLE OF PRO72ARG POLYMORPHISMS OF THE TP53 AND ALR2 GENE (CALR52DEL) WITH THE DEVELOPMENT OF ESSENTIAL THROMBOCYTEMIA......256 Musashaykhov U.Kh., Musashaykhova Sh.M., Boboev K.T. TO OPTIMIZE THE CRITERIA FOR DIAGNOSIS IN PATIENTS WITH ESSENTIAL THROMBOCYTEMIA BASED ON THE CARRIER POLYMORPHISM OF THE EPIGENETIC REGULATOR GENE, TUMOR SUPPRESSOR TP53......260

3

Shokirov Kh.Sh., Kamalov T.T. BIOCHEMICAL CHARACTERISTICS OF PATIENTS WITH SEVERE COMPLICATIONS OF THE DIABETIC FOOT SYNDROME (ULCER, GANGRENE, AMPUTION) ASSOCIATED WITH CHRONIC KIDNEY DISEASE......270

Niyozova T.A., Karimova M.T., Zubaydullayeva M.T., Kholmurodov D. M. COMPARATIVE STUDY OF CLINICAL CHARACTERISTICS OF INTESTINAL PARASITOSIS....283

Khamidova N. K.

Yarmukhamedova N. A., Tirkashev O. S., Matyakubova F. E., Rabbimova N. T.

 H.S. Abdurazzakhov, S.R. Baymakov, D.B. Adilbekova MORPHOFUNCTIONAL STATE OF THE SMALL INTESTINE IN EXPERIMENTAL INTESTINAL Daminova K.M., Islamova M.S. FEATURES OF BLOOD PRESSURE VARIABILITY Elmuradova A.A. CLINICAL-IMMUNOLOGICAL TRANSITION FEATURES Rakhmatullaeva Sh.B., Ganieva S.K. FEATURES OF ACUTE INTESTINAL INFECTIONS IN CHILDREN WITH A PREMORBID BACKGROUND ..... 348 Atabekov N.S., Yunusov M.M., mAtahajiyev M.S. SOME CLINICAL CHANGES IN THE EARLY NEONATAL PERIOD IN NEWBORNS BORN TO HIV-INFECTED Ibrakhimova H.R., Oblokulov A.R., Yitmasova T.D. ANALYSIS OF DIAGNOSTIC INDICATORS OF PARASITIC DISEASES... 357 Oblokulov A.R., Kholov U.A., Djalilova A.S. MICROBIOLOGICAL INDICATORS OF PATIENTS WITH Khushvakova N.Zh., Bakiev Sh.Sh., Makhmudova L.I. METHODS OF IMPROVING THE DIAGNOSIS OF Abidov U. O., Khaydarov A. A. COMPLEX TWO-STAGE TREATMENT OF PATIENTS WITH OBSTRUCTIVE JAUNDICE SYNDROME OF Ashurova N.G., Ismatova M.N. MENSTRUAL DISORDERS IN ADOLESCENT GIRLS Kamalova M. K., Samatov R. R., Jumaev L.R. RESULTS OF EVALUATION BY THE CLINIC OF THE EFFECTIVENESS OF REVENTION AND TREATMENT OF ACUTE INFLAMMATORY DISEASES OF THE SALIVARY Yorivev Shokhruh Anvar ugli, Kamalova Mekhriniso Kilichevna OPTIMIZATION OF COMPLEX TREATMENT OF GUM EPULIS BY MEANS OF MAGNETIC-INFRARED-LASER RADIATION..... Shakhlo Salomovna Kodirova FEATURES OF THE TREATMENT OF PSYCHOLOGICAL DISORDERS IN PATIENTS WITH HEART DISEASES.....392 Makhmudova L.I., Sharipov Zh.N. ASSESSMENT OF RISK FACTORS FOR IRRITABLE BOWEL SYNDROME..... .....396 Nazarov Jalolitdin Sulton Erkinovich LACONICISM, DEDUCTION AND CASES IN TEACHING

Rakhimov Sh.Sh., Sharopov S.G., Ashurova N.G. IMPROVING THE EFFICIENCY OF LOCAL SOFT TISSUE PLASTIC SURGERY IN EXPRESS IMPLANTATION.......407

PRACTICE......401





# ASSESSMENT OF OLFACTORY FUNCTION IN THE STUDY GROUPS AND THEIR ROLE IN THE PROGRESSION OF THE DISEASE

Daminova Kh.M., Saidvaliev F.S.

Tashkent Medical Academy, Uzbekistan

### ✓ Resume

The article presents the results of observation of 213 patients with PD, including 90 (42.25%) women, 123 (57.75%) men, whose mean age was  $46.17\pm0.63$  years. Patients with PD were selected in accordance with the international criteria of the British brain bank "Parkinson's Disease Society Brain Bank". Patients underwent CT or MRI of the brain. Olfactory disturbances were studied using the Sniffin Stix Test (SST) by Burchard (Hamburg, Germany). All patients underwent examination of the ENT organs. The results obtained indicate that the presence of hyposmia in patients with early onset of PD is an important biomarker of the latent neurodegenerative process of the "Parkinsonian" type and, therefore, the risk of future development of PD.

Key words: Parkinson's disease, olfactory function, brain, hyposmia, anosmia.

# ОЦЕНКА ОБОНЯТЕЛЬНОЙ ФУНКЦИИ В ОБСЛЕДОВАННЫХ ГРУППАХ И ИХ РОЛЬ В ПРОГРЕССИРОВАНИИ ЗАБОЛЕВАНИЯ

#### Даминова Х.М., Саидвалиев Ф.С.

#### Ташкентская Медицинская Академия, Узбекистан

#### √ Резюме

В статье представлены результаты наблюдения 213 больных с БП из них 90(42,25%) женщин, 123(57,75%) мужчин, средний возраст которых составил 46,17±0,63 лет. Пациенты с БП были отобраны в соответствии с международными критериями Британского банка мозга "Parkinson's Disease Society Brain Bank". Больным производились КТ или МРТ головного мозга. Обонятельные нарушения исследовались с помощью Сниффин Стикс теста (ССТ) фирмы «Бюрхард» (Гамбург, Германия). Всем больным производился осмотр ЛОР-органов. Полученные результаты свидетельствуют, что наличие гипосмии у пациентов с ранним дебютом БП, важным биомаркером, скрытого нейродегенеративного процесса «паркинсонического» типа и, следовательно, риска будущего развития БП.

Ключевые слова: Болезнь Паркинсона, обонятельная функция, головной мозг, гипосмия, аносмия.

# O'QIDAGI GURUHLARDA HID BILISH FUNKSIYASINI BAHOLANISH VA KASALLIKNING PROGRESSIYASIDAGI ROLI

Daminova X.M., Saidvaliev F.S.

Toshkent tibbiyot akademiyasi, O'zbekiston

#### ✓ Rezyume

Maqolada PD bilan og'rigan 213 bemorni, shu jumladan 90 (42,25%) ayollar, 123 (57,75%) erkaklar, o'rtacha yoshi 46,17  $\pm$  0,63 yoshni kuzatish natijalari keltirilgan. PD bilan og'rigan bemorlar Britaniya miya bankining ''Parkinson's Disease Society Brain Bank'' xalqaro mezonlariga muvofiq tanlangan. Bemorlarga miyaning KT yoki MRI tekshiruvi o'tkazildi. Xushbo'y buzilishlar Burchard (Gamburg, Germaniya) tomonidan Sniffin Stix testi (SST) yordamida o'rganildi. Barcha bemorlar LOR a'zolarining tekshiruvidan o'tkazildi. Olingan natijalar shuni ko'rsatadiki, erta boshlangan PD bilan og'rigan bemorlarda giposmiya mavjudligi ''Parkinson'' tipidagi yashirin neyrodegenerativ jarayonning muhim biomarkeridir va shuning uchun kelajakda PD rivojlanishi xavfi.

Kalit so'zlar: Parkinson kasalligi, hid bilish funktsiyasi, miya, giposmiya, anosmiya.



# Relevance

arly diagnosis of Parkinson's disease is difficult due to the similarity of clinical manifestations in E the early stages with essential tremor, multisystem atrophy, progressive supranuclear palsy, etc. That is why the search for biomarkers of the neurodegenerative process in PD is currently relevant - biochemical, neurophysiological, neuroimaging, recognized as extremely etc. From a pathophysiological point of view, PD is characterized by a decrease in the [3.5]. inhibitory effect of pallidum on the striatum, which leads to "inhibition of inhibition" of peripheral motor neurons [4]. Olfactory impairment may be an early clinical sign of PD [1,2]. With the progression of the disease, the presence of these pathological bodies is noted in the neurons of the substantia nigra, midbrain, basal ganglia and, at the final stages, in the cells of the cerebral cortex. Primary parkinsonism includes Parkinson's disease (PD), the second most common neurodegenerative disease that represents a significant medical and socioeconomic problem, as well as juvenile parkinsonism. The diagnosis of the disease is made on the basis of developed clinical criteria [6,7], the correct application of which is largely determined by the qualifications of the doctor, and therefore, at an early stage of the disease, its differentiation from other forms of pathology can cause serious difficulties. Non-motor complications increase with the progression of the disease. Almost all biomarkers of PD are considered for their use in the diagnosis of early and premotor stages of diseases. PD, as already mentioned, at the earliest stages is characterized by the development of an olfactory deficit. Olfactory disturbances occur several years before movement disorders. In general, among patients with PD, olfactory disorders are detected in 70-90% of cases [8], and according to Lotsch et al. [9], even in 99% of cases. At the same time, olfactory disorders may not be felt by the patient himself, therefore, to identify them, it is important to conduct special testing.

**Objective.** To assess olfactory functions in the examined groups and their role in the progression of PD disease.

# Materials and research methods.

213 patients with PD were under observation, including 90 (42.25%) women, 123 (57.75%) men, whose average age was 46.17±0.63 years, predominantly of Uzbek nationality. Patients with PD were selected in accordance with the international criteria of the British brain bank "Parkinson's Disease Society Brain Bank". To exclude other causes of parkinsonism syndrome, patients underwent CT or MRI of the brain. In patients with PD, the form of the disease (akinetic-rigid, mixed, or trembling) and the functional stage of the disease (according to the Hoehn-Yahr scale) were assessed. Olfactory disturbances were studied using the Sniffin Stix Test (SST) by Burchard (Hamburg, Germany). All patients underwent examination of the ENT organs.

# **Results and discussion**

We examined 213 patients with PD, 90 (42.25%) women, 123 (57.75%) men, were divided into two groups, group I - with an early onset of PD, consisted of 79 (37.09%) patients, of of which 31 (14.55%) patients with an early onset and with a burdened family history (SA). Group II - with a late onset of PD, consisted of 134 (62.91%) patients with a late onset, of which 76 (35.68%) patients with a late onset, and with a burdened family history. Group I - with an early onset of PD, consisted of 79 (37.09%) patients with an early onset of PD, of which 45 (56.86%) were men and 34 (43.04%) were women. There were 31 (14.55%) patients with PD with an early onset of PD, but with aggravated SA, of which 18 (58.06%) were men and 13 (41.94%) were women. Group II - with a late onset of PD, consisted of 134 (62.91%) patients, of which 75 (55.97%) were men and 59 (44.03%) were women. There were 76 (35.68%) patients with PD with a late onset of PD, but with aggravated SA, of which 44 (57.89%) were men and 32 (42.11%) were women. Evaluation of olfactory disorders in 213 patients with PD, carried out using SST, which were divided into two groups, group I - with an early onset of PD, consisted of 79 (37.09%) patients, group II - with a late onset of PD, consisted of 134 (62.91%) patients, with a late onset, showed distinct disorders in the examined group in three indicators - threshold, discrimination, identification. The majority of the examined patients with PD 185 (86.85%) revealed dysosmia in the form of hyposmia (RIO 16-29 points) and anosmia (RIO <15 points), normosmia 28 (13.15%), 163 (76.53%) hyposmia and 22 (10.33%) anosmia. Of 213 patients, 28 (13.15%) had a normal level of smell in three parameters; 22 patients (10.33%) have a zero level for all three indicators, that is, anosmia. In 185 cases (86.85%), the sense of smell was reduced in all studied parameters.

333

In a comparative analysis for each test separately in the main group of patients, a decrease in the sense of smell by the threshold was detected in 163 patients (76.53%): the assessment of olfactory disorders according to the threshold test varied from 0 to 9.5 points, the average score was  $2.6 \pm 1.4$  points. Decreased sense of smell according to the discrimination test was found in 126 people (59.14%): the assessment of olfactory disorders ranged from 0 to 16 points, the average score was  $8.7\pm4.2$ . A decrease in identification was found in 169 people (79.35%): the assessment of olfactory disorders ranged sense of smell, 76 patients (41.08%) had anamnestic notes of these disorders even before the test (including 16 (8.65%) of them with anosmia). Most of the patients presented these complaints after a targeted survey, that is, a violation of the function of smell was not among the daily complaints.

We analyzed the relationship between the subjective and objective assessment of the level of smell and the duration of the disease. With a duration of the disease <3 years 104 (48.83%), with men 59 (56.73%) and women 45 (43.27%) a, the number of people who noted a decrease in smell was 8 (7.69%) people, with duration of PD up to 6 years - 51 (23.94%) patients, men 29 (56.86%), and women 22 (43.14%), with duration of PD up to 7 years - 31 (14.55%) patients, 18 (58.06%) men and 13 (41.94%) women, with PD duration up to 8 years - 27 (12.68%) patients, 16 (59.26%) men, and 11 (40, 74%). 18 (9.73%) patients noted a violation of smell before the appearance of motor disorders characteristic of PD.

The results of olfactory tests in women are better, i.e. there are gender differences. In women, the average OIS score was  $22.66\pm4.12$ ; in men, the average OIS score was  $16.58\pm2.78$ . According to the threshold, the average score for women was  $3.03\pm1.54$ , for men -  $1.86\pm2.18$ ; on discrimination, the average score for women is  $10.0\pm3.03$ , for men -  $7.58\pm2.60$ ; by identification, the average score for women was  $9.79\pm4.01$ , for men -  $7.14\pm5.16$ . Thus, according to all three tests, hyposmia is more pronounced in men.

#### Conclusions

Thus, it can be concluded that vestibular disorders detected in PD patients are a significant additional clinical manifestation of the disease, along with well-known motor and non-motor symptoms. To date, there is reason to consider the presence of hyposmia in patients with early onset PD as an important biomarker of the latent neurodegenerative process of the "Parkinsonian" type and, therefore, the risk of future development of PD.

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