

БИОМЕДИЦИНА ВА АМАЛИЁТ ЖУРНАЛИ

ЖУРНАЛ БИОМЕДИЦИНЫ И ПРАКТИКИ
JOURNAL OF BIOMEDICINE AND PRACTICE

ДАВРИЙЛИГИ: 2016-2026

ЖИЛД 11
СОҢ 1

2026



ЧОП
ЭТИЛГАН САНА:
06.02.2026

БИМЕДИЦИНА ВА АМАЛИЁТ ЖУРНАЛИ

11 ЖИЛД, 1 СОН

ЖУРНАЛ БИМЕДИЦИНЫ И ПРАКТИКИ

ТОМ 11, НОМЕР 1

JOURNAL OF BIOMEDICINE AND PRACTICE

VOLUME 11, ISSUE 1



Бош мухаррир:

Ризаев Жасур Алимжанович
тиббиёт фанлари доктори, профессор,
Самарқанд давлат тиббиёт университети ректори
ORCID ID: 0000-0001-5468-9403

Бош мухаррир ўринбосари:

Зиядуллаев Шухрат Худайбердиевич
тиббиёт фанлари доктори, Ўзбекистон Республикаси
Фанлар академиясининг Иммунология ва инсон
геномикаси институти директор ўринбосари,
ORCID ID: 0000-0002-9309-3933

Масъул котиб:

Самиева Гулноза Утқуровна
тиббиёт фанлари доктори, профессор,
Самарқанд давлат тиббиёт университети
ORCID ID: 0000-0002-6142-7054

Нашр учун масъул:

Шаханова Шахноза Шавкатовна
PhD, Самарқанд давлат тиббиёт университети,
онкология кафедраси доценти
ORCID ID: 0000-0003-0888-9150

ТАХРИРИЯТ КЕНГАШИ:

Арипова Тамара Уктамовна

Иммунология ва инсон геномикаси институти директори –
тиббиёт фанлари доктори, профессор, Ўзбекистон
Республикаси Фанлар академияси академиги

Jin Young Choi

Сеул миллий университети Стоматология мактаби оғиз ва
юз-жағ жарроҳлиги департаменти профессори, Жанубий
Кореянинг юз-жағ ва эстетик жарроҳлик ассоциацияси
президенти

Абдуллаева Наргиза Нурмаматовна

тиббиёт фанлари доктори, профессор, Самарқанд
давлат тиббиёт университети проректори, 1-клиника бош
врачи. **ORCID ID:** 0000-0002-7529-4248

Орипов Фирдавс Суръатович

тиббиёт фанлари доктори, профессор, Самарқанд
давлат тиббиёт университети Гистология, цитология ва
эмбриология кафедраси мудири
ORCID ID: 0000-0002-0615-0144

Мавлянов Фарход Шавкатович

тиббиёт фандар доктори, Самарқанд давлат тиббиёт
университети болалар жарроҳлиги кафедраси доценти
ORCID ID: 0000-0003-2650-4445

Магзумова Наргиза Махкамовна

тиббиёт фанлари доктори, Тошкент давлат тиббиёт
университети Оилавий тиббиётда акушерлик ва гинекология
кафедраси профессори **ORCID ID:** 0000-0002-9313-4918

Очилов Улугбек Усмонович

DSc, доцент, СамДТУ Дипломдан кейинги таълим
факултети Психиатрия курси мудири. СамДТУ Илмий
кенгаши котиби. <https://orcid.org/0000-0003-3553-8727>

Шавази Наргиз Нуралiena

DSc. Доцент, СамДМУ 3-сон акушерлик ва гинекология
кафедраси мудири <https://orcid.org/0000-0001-7859-9955>

Юлдашев Равшан Захидович

Тожикистон Давлат тиббиёт университети Онкология
ва нур таъхиси кафедраси мудири, Тиббиёт фанлари
доктори, Профессор. Душанбе, Тожикистон.
<https://orcid.org/0009-0002-7165-5373>

Саидов Сандамир Абборович

тиббиёт фанлар доктори,
Тошкент фармацевтика институти
ORCID ID: 0000-0002-6616-5428

Бабалджанов Ойбек Абдуҷаббарович

тиббиёт фанлари доктори, Тошкент давлат тиббиёт
университети, Тери-таносил болалар тери-таносил
касаликлари ва ОИТС кафедраси доценти
ORCID ID: 0000-0002-3022-916X

Теребаев Билим Алдамуратович

тиббиёт фанлари доктори, доцент, Тошкент
педиатрия тиббиёт институти Факультет болалар
хирургия кафедраси. **ORCID ID:** 0000-0002-5409-4327

Юлдашев Ботир Ахматович

тиббиёт фанлари доктори,
Самарқанд давлат тиббиёт университети
№2-сон Педиатрия, неонатология ва болалар
касаликлари пропедевтикаси кафедраси доценти.
ORCID ID: 0000-0003-2442-1523

Ибрагимова Малика Худайбергеновна

тиббиёт фанлари доктори, профессор
Тошкент давлат тиббиёт университети
ORCID ID: 0000-0002-9235-1742

Рахимов Нодир Махамматкулович

тиббиёт фанлари доктори, Самарқанд давлат
тиббиёт университети, онкология кафедраси профессори
ORCID ID: 0000-0001-5272-5503

Даминов Феруз Асадуллаевич

Самарқанд давлат тиббиёт университети,
2-сон Даволаш факультети декани,
тиббиёт фанлари доктори, доцент.
Самарқанд, Ўзбекистон.

Миржурев Элбек Миршавкатович

тиббиёт фанлари доктори, профессор
ЎзССВ Тиббий ходимларни касбий малакасини
ривожлантириши марказининг Нейрореабилитация
кафедраси мудири, Тошкент, Ўзбекистон

Тагаев Шерқабул Бойқабдулович

тиббиёт фанлари доктори, хирургия кафедраси
доценти Тошкент давлат тиббиёт университети.
ORCID: 0009-0004-7661-9253.

Саҳифаловчи: Хуршид Мирзахмедов

Контакт редакций журналлов. www.tadqiqot.uz

ООО Tadqiqot город Ташкент,
улица Амира Темура пр.1, дом-2.

Web: <http://www.tadqiqot.uz/>; E-mail: info@tadqiqot.uz

Тел: (+998-94) 404-0000

Editorial staff of the journals of www.tadqiqot.uz

Tadqiqot LLC The city of Tashkent,
Amir Temur Street pr.1, House 2.

Web: <http://www.tadqiqot.uz/>; E-mail: info@tadqiqot.uz

Phone: (+998-94) 404-0000

Главный редактор:

Ризаев Жасур Алимджанович
доктор медицинских наук, профессор, Ректор Самаркандского государственного медицинского университета, **ORCID ID:** 0000-0001-5468-9403

Заместитель главного редактора:

Зиядуллаев Шухрат Худайбердиевич
доктор медицинских наук, Заместитель директора Института иммунологии и геномики человека Академии наук Республики Узбекистан, **ORCID ID:** 0000-0002-9309-3933

Ответственный секретарь:

Самиева Гульноза Уткуровна
доктор медицинских наук, профессор Самаркандского государственного медицинского университета. **ORCID ID:** 0000-0002-6142-7054

Ответственный за публикацию:

Шаханова Шахноза Шавкатовна
PhD, доцент кафедры онкологии Самаркандского государственного медицинского университета **ORCID ID:** 0000-0003-0888-9150

РЕДАКЦИОННЫЙ КОЛЛЕГИЯ:

Арипова Тамара Уктамовна

директор Института иммунологии и геномики человека доктор медицинских наук, профессор, академик АН РУз

Jin Young Choi

профессор департамента оральной и челюстно-лицевой хирургии школы стоматологии Стоматологического госпиталя Сеульского национального университета, Президент Корейского общества челюстно-лицевой и эстетической хирургии

Абдуллаева Наргиза Нурмаматовна

доктор медицинских наук, профессор, проректор Самаркандского государственного медицинского университета, **ORCID ID:** 0000-0002-7529-4248

Орипов Фирдавс Суръатович

доктор медицинских наук, профессор, заведующий кафедрой Гистологии, цитологии и эмбриологии Самаркандского государственного медицинского университета **ORCID ID:** 0000-0002-0615-0144

Мавлянов Фарход Шавкатович

доктор медицинских наук, доцент кафедры Детской хирургии Самаркандского государственного медицинского университета, **ORCID ID:** 0000-0003-2650-4445

Магзумова Наргиза Махкамовна

Доктор медицинских наук, профессор кафедры акушерства и гинекологии Семейной медицины Ташкентский государственный медицинский университет **ORCID ID:** 0000-0002-9313-4918

Очилов Улугбек Усманович

DSc, доцент, заведующий курсом психиатрии факультета постдипломного образования СамГМУ. Секретарь Ученого совета СамГМУ. <https://orcid.org/0000-0003-3553-8727>

Шавази Наргиз Нуралиевна

DSc, доцент, заведующая кафедрой акушерства и гинекологии N 3 СамГМУ. <https://orcid.org/0000-0001-7859-9955>

Юлдашев Рашидан Захидович

Заведующий кафедрой Онкологии и лучевой диагностики Таджикского медицинского университета, д.м.н., профессор, Душанбе, Таджикистан <https://orcid.org/0009-0002-7165-5373>

Сандов Сандамир Аброрович

доктор медицинских наук, Ташкентский фармацевтический институт **ORCID ID:** 0000-0002-6616-5428

Бабаджанов Ойбек Абдужаббарович

доктор медицинских наук, Ташкентский государственный медицинский университет, доцент кафедры Дерматовенерология, детская дерматовенерология и СПИД, **ORCID ID:** 0000-0002-3022-916X

Теребаев Билим Алдамуратович

доктор медицинских наук, доцент кафедры Факультетской детской хирургии Ташкентского педиатрического медицинского института. **ORCID ID:** 0000-0002-5409-4327

Юлдашев Ботир Ахматович

доктор медицинских наук, доцент кафедры Педиатрии, неонатологии и переподготовки детских болезней №2 Самаркандского государственного медицинского университета **ORCID ID:** 0000-0003-2442-1523

Ибрагимова Малика Худайбергатовна

доктор медицинских наук, профессор Ташкентский государственный медицинский университет **ORCID ID:** 0000-0002-9235-1742

Рахимов Нодир Махамматкулович

доктор медицинских наук, профессор кафедры онкологии Самаркандского государственного медицинского университета **ORCID ID:** 0000-0001-5272-5503

Даминов Феруз Асадуллаевич

Декан лечебного факультета №2 Самаркандского государственного медицинского университета, доктор медицинских наук, доцент. Самарканд, Узбекистан.

Мирджураев Эльбек Миршавкатович

Заведующий кафедрой Нейрореабилитации Центра развития профессиональной квалификации медицинских работников МЗ РУз, д.м.н., профессор Ташкент, Узбекистан

Тагаев Шеркабул Бойкабулович

доктор медицинских наук, доцент кафедры хирургии, Ташкентский государственный медицинский университет. **ORCID:** 0009-0004-7661-9253.

Верстка: Хуршид Мирзахмедов

Контакт редакций журналов. www.tadqiqot.uz
ООО Tadqiqot город Ташкент,
улица Амира Темура пр.1, дом-2.
Web: <http://www.tadqiqot.uz/>; E-mail: info@tadqiqot.uz
Тел: (+998-94) 404-0000

Editorial staff of the journals of www.tadqiqot.uz
Tadqiqot LLC The city of Tashkent,
Amir Temur Street pr.1, House 2.
Web: <http://www.tadqiqot.uz/>; E-mail: info@tadqiqot.uz
Phone: (+998-94) 404-0000

Chief Editor:

Rizaev Jasur Alimjanovich
MD, DSc, Professor of Dental Medicine,
Rector of the Samarkand State Medical University
ORCID ID: 0000-0001-5468-9403

Deputy Chief Editor:

Ziyadullaev Shukhrat Khudayberdievich
Doctor of Medical Sciences, Deputy Director of the Institute
of Immunology and Human Genomics of the Academy of
Sciences of the Republic of Uzbekistan
ORCID ID: 0000-0002-9309-3933

Responsible secretary:

Samieva Gulnoza Utkurovna
doctor of Medical Sciences, Professor,
Samarkand State Medical University
ORCID ID: 0000-0002-6142-7054

Responsible for publication:

Shakhanova Shakhnoza Shavkatovna
PhD, Docent Department of Oncology
Samarkand State medical university
ORCID ID: 0000-0003-0888-9150

EDITORIAL BOARD:

Aripova Tamara Uktamovna

*Director of the Institute of Immunology and Human Genomics -
Doctor of Medical Sciences, Professor, Academician of the
Academy of Sciences of the Republic of Uzbekistan*

Jin Young Choi

*Professor Department of Oral and Maxillofacial
Surgery School of Dentistry Dental Hospital
Seoul National University, President of the
Korean Society of Maxillofacial Aesthetic Surgery*

Abdullaeva Nargiza Nurmatovna

*Doctor of Medical Sciences, Professor, Vice-Rector
Samarkand State Medical University, Chief Physician of
the 1st Clinic ORCID ID: 0000-0002-7529-4248*

Oripov Firdavs Suratovich

*Doctor of Medical Sciences, Professor,
Head of the Department of Histology, Cytology and
Embryology of Samarkand State Medical University.
ORCID ID: 0000-0002-0615-0144*

Mavlyanov Farkhod Shavkatovich

*Doctor of Medicine, Associate Professor of Pediatric
Surgery, Samarkand State Medical University
ORCID ID: 0000-0003-2650-4445*

Magzumova Nargiza Makhamovna

*Doctor of Medical Sciences, Professor, Department
of Obstetrics and Gynecology, Family Medicine, Tashkent State
Medical University. ORCID ID: 0000-0002-9313-4918*

Ochilov Ulugbek Usmanovich

*DSc, Docent, Head of the Psychiatry Course at the Faculty of
Postgraduate Education of SamSMU. Secretary of the Academic
Council of SamSMU. <https://orcid.org/0000-0003-3553-8727>*

Shavazi Nargiz Nuraliyena

*DSc, Associate Professor, Head of the Department of Obstetrics
and Gynecology N 3 of Samarkand State Medical University.
<https://orcid.org/0000-0001-7859-9955>*

Yuldashev Ravshan Zakhidovich

*Head of the Department of Oncology and Radiation Diagnostics
at Tajik State Medical University, Doctor of Medical Sciences,
Professor. Dushanbe, Tajikistan <https://orcid.org/0009-0002-7165-5373>*

Saidov Saidamir

*Doctor of Medical Sciences,
Tashkent Pharmaceutical Institute,
ORCID ID: 0000-0002-6616-5428*

Babadjanov Oybek Abdujabbarovich

*Doctor of sciences in medicine, Tashkent State
Medical University, Docent the Department of
Dermatovenerology, pediatric dermatovenerology
and AIDS, ORCID ID: 0000-0002-3022-916X*

Terebaev Bilim Aldamuratovich

*Doctor of Medical Sciences, Associate Professor,
Tashkent Pediatric Medical Institute,
Faculty of Children Department of Surgery.
ORCID ID: 0000-0002-5409-4327.*

Yuldashev Botir Akhmatovich

*Doctor of Medical Sciences, Associate Professor of
Pediatrics, Neonatology and Propaedeutics of Pediatrics,
Samarkand State Medical University No. 2.
ORCID ID: 0000-0003-2442-1523*

Ibragimova Malika Xudayberganovna

*Doctor of Medical Sciences, Professor,
Tashkent State Medical University
ORCID ID: 0000-0002-9235-1742*

Rahimov Nodir Maxammatkulovich

*DSc, Professor of Oncology,
Samarkand State Medical University
ORCID ID: 0000-0001-5272-5503*

Daminov Feruz Asadullaevich

*Dean of the Faculty of Medicine No. 2, Samarkand State
Medical University, Doctor of Medical Sciences, Associate
Professor. Samarkand, Uzbekistan.*

Mirjuraev Elbek Mirshavkatovich

*Head of the Department of Neurorehabilitation Center
for the development of professional qualification of
medical workers, Doctor of Medical Sciences,
Professor. Tashkent, Uzbekistan
<https://orcid.org/0009-0008-2111-4388>*

Tagaev Sher Kabul Baykabulovich

*Doctor of Medical Sciences, Associate Professor
of Surgery Department, Tashkent State Medical University
ORCID: 0009-0004-7661-9253.*

Page Maker: Khurshid Mirzakhmedov

Контакт редакций журналов. www.tadqiqot.uz
ООО Tadqiqot город Ташкент,
улица Амира Темура пр.1, дом-2.
Web: <http://www.tadqiqot.uz/>; E-mail: info@tadqiqot.uz
Тел: (+998-94) 404-0000

Editorial staff of the journals of www.tadqiqot.uz
Tadqiqot LLC The city of Tashkent,
Amir Temur Street pr.1, House 2.
Web: <http://www.tadqiqot.uz/>; E-mail: info@tadqiqot.uz
Phone: (+998-94) 404-0000

OBSTETRICS AND GYNECOLOGY

1. **Matlubov Mansur Muratovich, Muminov Abduhalim Abduvakil, Khudoyberdieva Gulrukh Sobirovna, Umarova Bibikhonum Azimjon kizi**
EFFECTIVENESS OF POSTOPERATIVE INTENSIVE THERAPY IN PREGNANT WOMEN WITH VARICOSE VEINS.....12

NEUROLOGY, PSYCHIATRY

2. **Mansurova Nargiza Asrorovna**
DIAGNOSTIC VALUE OF INFLAMMATORY PROCESSES IN DIFFERENTIATING PARKINSONISM SUBTYPES.....18
3. **Tulyaganova Nodirakhon Malikovna.**
EPIDEMIOLOGICAL ASPECTS OF DEVELOPMENTAL DISORDERS IN CHILDREN BORN FROM CONSANGUINEOUS MARRIAGES.....26
4. **Ochilov Ulug'bek Usmanovich, Turaev Bobir Temirpulotovich, Sultanov Shoxrux Khabibullaevich**
CORRECTION OF DEPRESSIVE DISORDERS AND EVALUATION OF THE EFFECTIVENESS OF COMPREHENSIVE REHABILITATION IN PATIENTS WITH CHEMICAL ADDICTIVE DISORDERS.....34
5. **Turaev Bobir Temirpulotovich, Sultanov Shoxrux Khabibullaevich**
FACTORS INFLUENCING THE EFFECTIVENESS OF MEDICAL AND SOCIAL REHABILITATION IN PATIENTS WITH CHEMICAL ADDICTIVE DISORDERS (LITERATURE REVIEW).....41
6. **Khakimova Sakhiba Ziyadulloyevna, Gaffarova Parvina Abdurafikovna**
ETIOPATHOGENETIC SIGNIFICANCE OF MAO-B INHIBITORS IN PARKINSON'S DISEASE AND THEIR ROLE IN REDUCING MOTOR SYMPTOMS.....48
7. **Mirzhuraev Elbek Mirshavkatovich, Adambaev Zufar Ibragimovich, Mamatkhanova Charos Bahodirovna**
STRATIFICATION OF MANAGEMENT FOR PATIENTS WITH COMBINED VERTEBROGENIC PATHOLOGY AND PELVIC ORGAN DYSFUNCTION: A MULTIDISCIPLINARY APPROACH.....55
8. **Rogov Alexey Vladimirovich, Lipartiya Mary Givievna**
CHARACTERISTICS OF THE SEVERITY OF PARANOID SCHIZOPHRENIA IN PATIENTS WITH AUTOAGGRESSIVE MANIFESTATIONS IN THE EARLY PERIOD OF THE DISEASE.....63

MORPHOLOGY

9. **Kiyomov Ikhtiyor Ergashevich, Islamov Shavkat Erjigitovich**
MORPHOLOGICAL CHANGES IN THE THYMUS DURING ACUTE EXPOSURE TO A DEFOLIANT.....69

ONCOLOGY

10. **Abdikarimov Azizbek Khurshidjon ugli, Yusupbekov Abrorbek Akhmedjanovich, Usmonov Begzod Boymatovich, Xasanov Akbar Ibroximovich**
HUMAN PAPILLOMAVIRUS AND OROPHARYNGEAL CANCER: CURRENT CLINICAL-EPIDEMIOLOGICAL AND PROGNOSTIC ASPECTS (REVIEW).....77

11. **Iskandarova Shakhnoza Tulkinovna, Khakimova Laylo Nuraliyevna, Yusupov Anvar Sobirovich**
STUDY OF THE DYNAMICS OF PROLACTIN AND GLUCOSE LEVELS IN PATIENTS WITH GASTRIC CANCER DURING THE PERIOPERATIVE PERIOD UNDER COMBINED EPIDURAL ANESTHESIA.....89
12. **Rakhmatov Dilshod Bakhridinovich**
EVALUATION OF RADIATION DOSE LOAD TO ORGANS AT RISK WHEN SWITCHING TO A HYPOFRACTIONATED REGIMEN OF POSTOPERATIVE RADIOTHERAPY FOR LEFT BREAST CANCER.....95
13. **Shernazarov Otamurod Narmuratovich**
ACOUSTIC ANALYSIS OF VOICE FUNCTION IN PATIENTS WITH BENIGN LARYNGEAL LESIONS.....101
14. **Ten Vladimir Denisovich, Alimov Ijod Rustamovich, Umarov Rustam Dilshodovich.**
OUR EXPERIENCE OF PERCUTANEOUS BIOPSY IN METASTATIC LESIONS OF THE LUMBAR SPINE.....105
15. **Umarov Rustam Dilshodovich, Alimov Ijod Rustamovich, Ten Vladimir Denisovich.**
ISOLATED LATERAL SURGICAL APPROACH FOR VERTEBRAL BODY TUMORS WITH EXTRADURAL INTRACANAL INVASION AT TH11–L2.....109
16. **Ismailov Avaz Alisherovich, Umarov Rustam Dilshodovich, Alimov Ijod Rustamovich,**
POSTERIOR DECOMPRESSIVE AND STABILIZING APPROACH FOR THORACIC AND LUMBAR VERTEBRAL BODY TUMORS WITH INTRACANAL EXTENSION.116
17. **Umarov Rustam Dilshodovich, Alimov Ijod Rustamovich, Ten Vladimir Denisovich**
ISOLATED LATERAL SURGICAL APPROACH FOR VERTEBRAL BODY TUMORS WITH EXTRADURAL INTRACANAL INVASION AT TH11–L2 LEVELS.....121
18. **Sharopov Sadullo Shukurillovich**
CORRELATION BETWEEN ELECTROENCEPHALOGRAPHIC CHANGES AND MRI CHARACTERISTICS IN PATIENTS WITH BRAIN TUMORS.....129

MEDICAL REHABILITATION

19. **Raimkulova Dilnoza Farkhaddinovna**
PROGNOSTIC CRITERIA AND ANALYSIS OF PHYSICAL PERFORMANCE IN ADOLESCENTS ENGAGED IN DIFFERENT TYPES OF SPORTS.....135
20. **Mamatkhanova Charos Bahodirovna**
STRATIFICATION OF SURGICAL AND REHABILITATION TREATMENT FOR POST-TRAUMATIC MYELOPATHIES AT THE CERVICAL AND THORACIC SPINE LEVELS.....142
21. **Mamatkhanova Charos Bahodirovna**
ANALYSIS OF PATIENTS WITH SPINAL PATHOLOGY AND SPINAL CORD DISEASES AT THE REPUBLICAN CENTER FOR REHABILITATION OF DISABLED PERSONS.....149
22. **Tukhtaev Firdavs Mukhitdinovich, Kadirov Jonibek Fayzullayevich**
THE IMPACT OF MINERAL AND ACID–BASE METABOLIC CORRECTION ON POSTOPERATIVE REHABILITATION IN CHILDREN WITH UROLITHIASIS.....155

DENTISTRY AND MAXILLOFACIAL SURGERY

23. **Boymurodov Shukhrat Abdujalilovich, Kurbanov Yoqubjon Khamdamovich, Yusupov Shokhrukh Shuhratovich, Djurayev Jamolbek Abdukakharovich, Soatov Ilyosjon Olimovich**
SIGNIFICANCE OF IL10 RS1800872, SERPINE1 RS1799768, NOS3 RS2070744, AND IL1B RS1143627 GENE POLYMORPHISMS IN PURULENT-NECROTIC PROCESSES OF THE MAXILLOFACIAL REGION.....160

24. **Alyavi Mufassal Nasirkhanovna, Khaydarov Artur Mikhaylovich, Alieva Muattar Abdulkhayevna**
COMPLEX TREATMENT OF CHRONIC GENERALIZED PERIODONTITIS IN PATIENTS WITH STABLE ANGINA PECTORIS.....171
25. **Ismoilov Mirkamol Xusan o'g'li Nigmatova Iroda Maratovna**
THE ROLE OF VITAMIN D IN THE CONDITION OF PERIODONTAL TISSUES DURING ORTHODONTIC TREATMENT IN PREGNANT WOMEN.....180
26. **Irgashev Shokhrukh Khasanovich**
ANALYSIS OF THE HYGIENIC INDICATORS OF THE ORAL MUCOSA OF PERSONS WHO HAVE UNDERGONE ORTHOPEDIC STOMATOLOGICAL TREATMENT.....190
27. **Ibragimova Malika Khudaiberganovna, Abduvahobova Dilnoza Anvarovna**
CLINICAL AND DIAGNOSTIC ASPECTS OF RED FLAT AND DEPRESSED ORAL MUCOSA.....196
28. **Rizaev Jasur Alimjanovich, Akhmedova Sayyora Mukhamadovna, Absalamova Nigora Fakhriddinovna**
IMPROVEMENT OF TREATMENT STRATEGIES FOR ORAL MUCOSAL LEUKOPLAKIA BASED ON IMMUNOHISTOCHEMICAL RESULTS.....204
29. **Otkhonova Mohinog Ganiyon qizi, Khramova Natalya Vladimirovna, Gafurov Zafar Atkhamovich**
JUSTIFICATION OF MAXILLARY RECONSTRUCTION USING A TIBIAL BONE AUTOGRAFT.....212
30. **Madazimov Madamin Muminovich, Turaev Feruz Fakhtullaevich, Yusufovna Mohamed Khava, Pustovetova Maria Gennadievna, Akramova Nozima Akramovna**
CELL-ASSISTED LIPOTRANSFER IN THE CORRECTION OF AESTHETIC AND POST-TRAUMATIC DEFORMITIES OF FACIAL SOFT TISSUES.....219

TRAUMATOLOGY

31. **Axtamov A'zam, Axtamov Azim**
STUDYING THE RESULTS OF RECONSTRUCTIVE SURGICAL TREATMENT OF COMBINED MENISCLE WOUNDS.....228
32. **Axtamov Azim, Axtamov A'zam**
DIAGNOSIS AND MODERN METHODS OF TREATMENT OF ACETABULUM INJURIES (LITERATURE REVIEW).....233
33. **Axtamov A'zam, Axtamov Azim**
EXPERIENCE IN TREATING INTRA-ARTICULAR FRACTURES OF THE DISTAL PART OF THE HUMERUS IN CHILDREN.....241
34. **Davirov Sharof Majidovich, Urinbaev Payzilla Urinbaevich, Mansurov Djalolidin Shamsidinovich**
OSTEOPLASTIC RECONSTRUCTION OF EXTENSIVE DIAPHYSEAL LONG BONE DEFECTS USING EXTERNAL FIXATION DEVICES.....246

PEDIATRICS

35. **Choliyev Matyoqub Sulaymanovich, Khotamov Khusniddin Narzullayevich, Tilavov O'ktam Khamrayevich**
SOFT TISSUE NECROSIS IN CHILDREN: CLINICAL FEATURES, DIAGNOSIS AND PRINCIPLES OF TREATMENT.....256
36. **Umarova Saodat Sulaymonovna**
VITAMIN D DEFICIENCY AS A PREDICTOR OF INFLAMMATORY ACTIVITY IN CHILDREN WITH ACUTE RHEUMATIC FEVER.....264

37. **Rakhmatullaev Akmal Abadbekovich, Ergashev Mukhammadjon Tursunovich**
EFFECTIVENESS OF ENDOSCOPIC CORRECTION METHODS IN CHILDREN WITH
PRIMARY HIGH-GRADE VESICoureTERAL REFLUX.....275
38. **Akhmedzhanova Nargiza Ismailovna, Ganieva Marifat Shokirovna, Majidova Nilufar
Mansuralievna.** INNOVATIV METHODS OF EARLY DIAGNOSIS OF
TUBULOINTERSTISIAL LESIONS IN ACUTE PYELONEPHRITIS IN CHILD.....281
39. **Terebayev Bilim Aldamuratovich, Barnakulov Umrzok Khasanovich**
PROBLEMS OF DIAGNOSIS AND TREATMENT OF DOLICHOSIGMA ASSOCIATED
WITH CHRONIC CONSTIPATION IN CHILDREN.....288
40. **Tilavov Uktam Khamraevich, Chuliev Matyokub Sulaimonovich, Khotamov Khusniddin
Narzullaevich, Abduqodirov Oybek Ahmadjonovich**
DIAGNOSIS AND TREATMENT OF CYSTIC ADENOMATOID MALFORMATION OF
THE LUNGS IN CHILDREN.....299
41. **Tukhtaev Firdavs Mukhitdinovich, Kadirov Jonibek Fayzullayevich**
PERSONALIZED METABOLIC APPROACHES IN CHILDREN'S MEDICAL
REHABILITATION.....307
42. **Ibragimova Sapura Zakhidovna, Almedova Nargiza Nigmatjonovna, Botirov Mirzokhid
Mansurzhon Ugli, Shadibekova Oksana Borisovna, Aripova Nazokat Bahodirovna,
Erimbetova Indira Oralbaevna**
RESULTS OF THE USE OF EMICIZUMAB IN PATIENTS WITH HEMOPHILIA A – A
PILOT SINGLE-CENTER STUDY.....312
43. **Khaidarov Khusan Anvarovich**
THE ROLE OF VITAMIN D STATE IN DETERMINING THE SEVERITY AND
EFFECTIVENESS OF INPATIENT TREATMENT OF RECURRENT RESPIRATORY
TRACT INFECTIONS IN YOUNG CHILDREN.....319

SURGERY

44. **Abdurahmonov Ma'mur Mustafaevich, Umedov Xushvaqt Alisherovich,**
ASSESSMENT OF THE IMMUNE SYSTEM STATUS IN ACUTE DESTRUCTIVE
PANCREATITIS.....325
45. **Kurbanov Aslbek Sadullaevich, Arziev Ismoil Alievich, Arzieva Gulnora Borievna**
DIAGNOSTIC AND THERAPEUTIC POTENTIAL OF LAPAROSCOPY IN PATIENTS
WITH BLUNT ABDOMINAL TRAUMA.....331
46. **Yuldashov Parda Arzikulovich, Rakhmanov Kosim Erdanovich, Sayinaev Farrukh
Karamatovich**
OPTIMIZATION OF SURGICAL TREATMENT OF POSTOPERATIVE VENTRAL
HERNIAS BASED ON LAPAROSCOPIC PROSTHETIC METHODS.....336
47. **Kurbanova Sanobar Yuldashevna, Kamalov Zainitdin Saifutdinovich, Azizova Zukhra
Shukhratovna**
CLINICAL, IMMUNOLOGICAL, AND IMMUNOGENETIC FEATURES OF DISEASE
DEVELOPMENT IN ADULT PATIENTS WITH PYELONEPHRITIS (A LITERATURE
REVIEW).....346
48. **Umedov Xushvaqt Alisherovich, Abdurahmonov Ma'mur Mustafaevich**
CONTEMPORARY CLINICO-MORPHOLOGICAL CLASSIFICATION OF ACUTE
PANCREATITIS AND ITS COMPLICATIONS.....355
49. **Ollabergenov Odilbek Tozhiddinovich, Terebaev Bilim Aldamuratovich, Parpiev
Mirziyod Mirsaitovich**
CURRENT TRENDS IN THE DIAGNOSIS AND SURGICAL TREATMENT OF LIVER
ECHINOCOCCOSIS IN CHILDREN.....362

50. **Askarov Pulat Azadovich, Bazarov Bahrom Boymamatovich, Kurbaniyazov Zafar Babadjanovich**
THE IMPACT OF CONCOMITANT SURGICAL PATHOLOGY ON THE OUTCOMES OF SIMULTANEOUS OPERATIONS IN PATIENTS WITH VENTRAL HERNIAS AND MORBID OBESITY.....369
51. **Egamberdiev Abdukahhor Abduqodirovich, Arzieva Gulnora Borievna**
ASSESSMENT OF CLINICAL OUTCOMES AND TECHNICAL FEATURES OF ENDOVIDEOSURGICAL TREATMENT OF HIATAL HERNIA.....377
52. **Madazimov Madamin Muminovich, Turaev Feruz Fakhtullayevich, Kiziun Yana Viktorovna, Pustovetova Maria Gennadievna, Akramova Nozima Akramovna, Kiyamov Azizbek Utkirovich**
STUDY OF BREAST BLOOD SUPPLY USING DUPLEX ULTRASOUND IN REDUCTION MAMMOPLASTY.....385

INFECTIOUS DISEASE

53. **Imamov Otabek Sunnatovich, Mahmudov Sherzod Xasanovich, Djumaev Normurod Davlatovich, Bakhodirova Shahlo Bahoriddinovna, Tokhtayev Gairatillo Shukhratillo ugli.**
THE IMPORTANCE OF TEMPERATURE IN THE ETIOLOGY AND MODERN LABORATORY DIAGNOSTICS OF DERMATOMYCOSIS.....394
54. **Imamov Otabek Sunnatovich, Mahmudov Sherzod Xasanovich, Djumaev Normurod Davlatovich, Ernazarova Feruzabonu Ravshanbekovna, Tokhtayev Gairatillo Shukhratillo ugli**
MODERN ETIOLOGICAL SPECTRUM OF DERMATOMYCOSIS PATHOGENS IN THE TASHKENT REGION.....403
55. **Yusupov Mashrab Ismatillovich**
GUT MICROBIOTA: CORRELATION OF PHYSICAL LOAD, DIET, AND HEAT EXCHANGE.....409
56. **Faizullaev Sherzod Kobiljon ugli, Shakharov Dilshod Zhura ugli, Tukhtaev Shohzod Eshmurod ugli, Khuzhamberdiev Sodikjon Uchkun ugli, Samibaeva Umida Khurshidovna**
FEATURES OF THE CLINICAL PICTURE OF THE NEW CORONAVIRUS INFECTION (COVID-19).....420
57. **Samibaeva Umida Khurshidovna, Faizullaev Sherzod Kobiljon ugli, Shakharov Dilshod Zhura ugli, Tukhtaev Shohzod Eshmurod ugli, Khuzhamberdiev Sodikjon Uchkun ugli**
EVALUATION OF THE CLINICAL EFFICACY OF GLYCYRRHIZIC ACID IN PATIENTS WITH COVID-19.....435
58. **Samibaeva Umida Khurshidovna, Faizullaev Sherzod Kobiljon ugli, Shakharov Dilshod Zhura ugli, Tukhtaev Shohzod Eshmurod ugli, Khuzhamberdiev Sodikjon Uchkun ugli**
EVALUATION OF THE CLINICAL EFFICACY OF GLYCYRRHIZIC ACID IN PATIENTS WITH COVID-19.....447
59. **Rashidov Zafar Rakhmatullaevich**
CLINICAL SIGNIFICANCE OF DOPLEROGRAPHY IN THE DETECTION AND MONITORING OF RENAL TUBERCULOSIS.....453

OPHTHALMOLOGY

60. **Nazirova Zulfiya Rustamovna, Turakulova Dilfuza Mukhitdinovna, Khamrayev Shakhruh Ilkhom ugli.**
SURGICAL TREATMENT OF CONGENITAL AND ACQUIRED CATARACTA IN CHILDREN: ANALYSIS OF MODERN METHODS AND STAGES.....460

61. **Turakulova Dilfuza Mukhitdinovna, Nazirova Zulfiya Rustamovna, Axrorova Malika Nosir qizi.**
ANALYSIS OF SURGICAL TREATMENT OF INTRAOCULAR LENS SUBLUCATION IN CHILDREN.....470
62. **Iskandarova Shakhnoza Tulkinovna, Miralimova Malika Mukhammadovna, Yangiyeva Nodira Rakhimovna**
ASSESSMENT OF THE INFORMATIVE VALUE OF PARENTAL QUESTIONNAIRES IN THE EARLY DETECTION OF REFRACTIVE DISORDERS IN PRESCHOOL CHILDREN.....477

NEUROSURGERY


63. **Asadov Khamidulla Fatkhullaevich, Okhunov Alisher Oripovich, Asadov Khumoyun Hamidullaevich.**
A NERVE-SPARING ENDOSCOPIC TUNNEL TECHNIQUE FOR THE SURGICAL TREATMENT OF CHRONIC OCCIPITAL MIGRAINE.....485
64. **Okhunov Alisher Oripovich, Asadov Khamidulla Fatkhullaevich, Asadov Khumoyun Hamidullaevich.**
STRATEGY FOR SELECTING THE EXTENT AND STAGING OF SURGICAL TREATMENT IN COMBINED FORMS OF CHRONIC MIGRAINE.....492

БИОМЕДИЦИНА ВА АМАЛИЁТ ЖУРНАЛИ
ЖУРНАЛ БИОМЕДИЦИНЫ И ПРАКТИКИ | JOURNAL OF BIOMEDICINE AND PRACTICE

УДК:616.62-003.7-053.2

TUKHTAEV Firdavs Mukhitdinovich
Samarkand State Medical University
KADIROV Jonibek Fayzullayevich
Samarkand State Medical University**THE IMPACT OF MINERAL AND ACID-BASE METABOLIC CORRECTION ON
POSTOPERATIVE REHABILITATION IN CHILDREN WITH UROLITHIASIS**

For citation: Tukhtaev Firdavs Mukhitdinovich, Kadirov Jonibek Fayzullayevich. THE IMPACT OF MINERAL AND ACID-BASE METABOLIC CORRECTION ON POSTOPERATIVE REHABILITATION IN CHILDREN WITH UROLITHIASIS// Journal of Biomedicine and Practice. 2026, vol. 11, issue 1.

 <http://dx.doi.org/10.5281/zenodo.18519842>**Abstract**

Urolithiasis in children is strongly associated with metabolic disturbances that persist even after successful surgical removal of urinary calculi. Disorders of mineral metabolism and acid-base balance play a crucial role in stone recurrence and long-term renal damage. Modern minimally invasive surgical techniques effectively eliminate calculi; however, they do not address the underlying metabolic causes of stone formation. This study analyzes the significance of correcting mineral and acid-base metabolism disorders as a key component of post-operative rehabilitation in pediatric patients with urolithiasis. The findings emphasize that targeted metabolic correction significantly reduces recurrence risk and improves long-term clinical outcomes.

Keywords: Pediatric urolithiasis; mineral metabolism; acid-base balance; metabolic disorders; postoperative rehabilitation; stone recurrence; urinary pH

TO'XTAYEV Firdavs Muxitdinovich
Samarqand davlat tibbiyot universiteti
KADIROV Jonibek Fayzullayevich
Samarqand davlat tibbiyot universiteti**UROLITIAZ BILAN KASALLANGAN BOLALARDA OPERATSIYADAN KEYINGI
REABILITATSIYAGA MINERAL VA KISLOTA-ASOSLI METABOLIK
KORREKSIYANING TA'SIRI****ABSTRAKT**

Bolalarda siydik-tosh kasalligi metabolik buzilishlar bilan kuchli bog'liq bo'lib, ular siydik toshlari jarrohlik yo'li bilan muvaffaqiyatli olib tashlangandan keyin ham saqlanib qoladi. Tosh qaytalanishida va buyrakning uzoq muddat zararlanishida mineral moddalar almashinuvi va kislota-ishqor muvozanatining buzilishi muhim rol o'ynaydi. Zamonaviy kam invaziv jarrohlik usullari toshlarni samarali yo'q qiladi, ammo ular tosh hosil bo'lishining asosiy metabolik sabablarini hal

qilmaydi. Ushbu tadqiqotda urolitiaz bilan ogʻrigan pediatrik bemorlarda operatsiyadan keyingi reabilitatsiyaning asosiy tarkibiy qismi sifatida mineral va kislota-ishqor almashinuvi buzilishlarini tuzatishning ahamiyati tahlil qilingan. Tadqiqot natijalari shuni koʻrsatadiki, maqsadli metabolik tuzatish kasallikning qaytalanish xavfini sezilarli darajada kamaytiradi va uzoq muddatli klinik natijalarni yaxshilaydi.

Tayanch iboralar: Bolalar siydik tosh kasalligi; minerallar almashinuvi; kislota-ishqor muvozanati; metabolik buzilishlar; operatsiyadan keyingi reabilitatsiya; toshlarning qaytalanishi; siydik pH

ТУХТАЕВ Фирдавс Мухитдинович

Самаркандский государственный медицинский университет

КАДИРОВ Жонибек Файзуллаевич

Самаркандский государственный медицинский университет

ВЛИЯНИЕ МИНЕРАЛЬНОЙ И КИСЛОТО-ОСНОВНОЙ МЕТАБОЛИЧЕСКОЙ КОРРЕКЦИИ НА ПОСЛЕОПЕРАЦИОННУЮ РЕАБИЛИТАЦИЮ У ДЕТЕЙ С УРОЛИТИАЗОМ

АБСТРАКТ

Уролитиаз у детей тесно связан с нарушениями обмена веществ, которые сохраняются даже после успешного хирургического удаления мочевых камней. Нарушения минерального обмена и кислотно-щелочного баланса играют решающую роль в рецидиве камней и длительном повреждении почек. Современные малоинвазивные хирургические методы эффективно устраняют калькулы; однако они не устраняют метаболические причины образования камней. В данном исследовании проанализировано значение коррекции нарушений минерального и кислотно-щелочного обмена как ключевого компонента послеоперационной реабилитации у детей с уролитиазом. Результаты подчеркивают, что целенаправленная метаболическая коррекция значительно снижает риск рецидива и улучшает отдаленные клинические результаты.

Ключевые слова: Детский уролитиаз; минеральный обмен; кислотно-щелочной баланс; нарушения обмена веществ; послеоперационная реабилитация; рецидив камней; pH мочи

Introduction

Pediatric urolithiasis is increasingly recognized as a chronic metabolic disease rather than an isolated surgical condition [1,2]. Unlike adult stone disease, pediatric urolithiasis is frequently associated with persistent metabolic abnormalities, including hypercalciuria, hypocitraturia, hyperoxaluria, and disturbances in urinary pH regulation [2–4]. These disorders create a favorable environment for crystal nucleation and growth, leading to high recurrence rates after stone removal [3,4].

Although minimally invasive surgical techniques—such as ureterorenoscopy, percutaneous nephrolithotomy, and extracorporeal shock wave lithotripsy—have significantly improved immediate treatment outcomes, recurrence prevention remains a major challenge [6,7]. Consequently, postoperative rehabilitation must focus on correcting metabolic and acid–base disorders to achieve sustainable disease control [2,5].

Materials and Methods

Post-operative rehabilitation strategies were analyzed with emphasis on metabolic evaluation and correction. Assessment included biochemical analysis of blood and urine, evaluation of urinary pH, and identification of mineral metabolism abnormalities following surgical intervention [2,4].

Table 1. Major Metabolic and Acid–Base Disorders in Pediatric Urolithiasis After Surgical Stone Removal

Metabolic disorder	Diagnostic criterion	Pathophysiological significance	Clinical implication
Hypercalciuria	Urinary Ca > 4 mg/kg/day	Increased calcium supersaturation	High risk of calcium stone recurrence
Hypocitraturia	Urinary citrate < 320 mg/day	Reduced inhibition of crystal aggregation	Enhanced crystallization tendency
Hyperoxaluria	Urinary oxalate > age-adjusted norm	Promotion of calcium oxalate nucleation	Aggressive stone growth
Acidic urine	Urinary pH < 5.5	Uric acid crystallization	Risk of uric acid stones
Alkaline urine	Urinary pH > 7.0	Phosphate and struvite precipitation	Infection-related stones
Mixed disorders	≥2 abnormalities	Synergistic lithogenic effect	High recurrence probability

Correction strategies were individualized and based on detected metabolic profiles, incorporating dietary modification, hydration optimization, and pharmacological therapy when indicated. The timing of metabolic assessment was standardized to ensure reliable results under stable dietary and physiological conditions.

Results

Clinical observations indicate that a significant proportion of pediatric patients demonstrate persistent metabolic abnormalities after stone removal. Disorders of calcium metabolism and impaired acid–base balance were among the most prevalent findings [2,4].

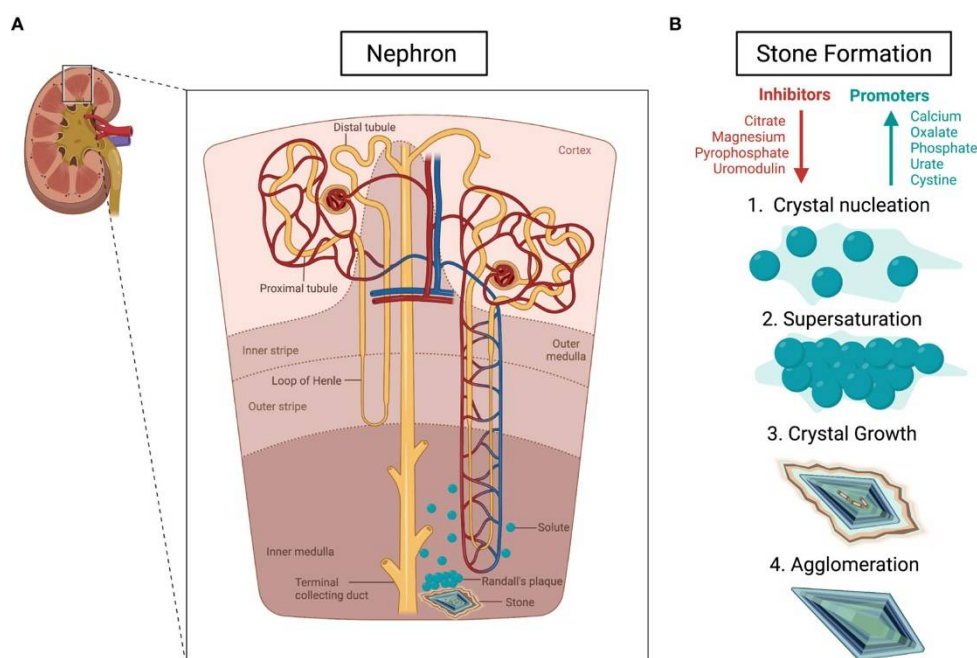


Figure 1. Pathophysiological mechanisms of nephrolithiasis [5,8].

- (A) Formation of renal calculi associated with Randall’s plaque development within the nephron.
- (B) Sequential stages of kidney stone formation initiated by disruption of the balance between crystallization inhibitors (indicated in red) and promoters (indicated in blue). Arrows denote processes of enhancement (blue) and suppression (red).

Correction of hypocitraturia through alkalinizing therapy resulted in improved urinary inhibitory capacity against crystallization. Regulation of calcium excretion via dietary sodium restriction and pharmacologic intervention contributed to decreased lithogenic risk. Adjustment of urinary pH proved essential in preventing recurrence of uric acid and cystine stones.

Children receiving structured metabolic rehabilitation showed a marked reduction in stone recurrence rates and improved stabilization of renal function during follow-up.

Discussion

Mineral and acid–base metabolism disorders represent fundamental pathogenic mechanisms in pediatric urolithiasis [2,5,8]. Failure to correct these disturbances significantly increases the likelihood of recurrent stone formation, even after technically successful surgery [1,6].

Targeted metabolic correction transforms postoperative care from a reactive to a preventive strategy. Individualized rehabilitation programs not only reduce recurrence but also limit the cumulative impact of repeated interventions on renal parenchyma and overall child development.

Table 2. Individualized Correction Strategies for Metabolic Disorders in Pediatric Urolithiasis

Identified disorder	Correction strategy	Mechanism of action	Expected outcome
Hypocitraturia	Alkalinizing therapy (citrate salts)	Increases urinary citrate and pH	Reduced crystal aggregation
Hypercalciuria	Sodium restriction, thiazides	Decreased urinary calcium excretion	Lower calcium supersaturation
Acidic urine	Alkalization	Shift of urinary pH	Prevention of uric acid stones
Alkaline urine	Diet modification	Reduction of phosphate precipitation	Lower infection stone risk
Combined disorders	Multimodal approach	Synergistic metabolic correction	Long-term stabilization

The integration of metabolic correction into standard postoperative protocols aligns with modern principles of personalized medicine and long-term disease management in pediatric urology.

Conclusion

Correction of mineral and acid–base metabolism disorders is a cornerstone of effective post-operative rehabilitation in children with urolithiasis. Personalized metabolic management significantly reduces stone recurrence, supports renal function preservation, and improves long-term outcomes [2,5,7]. Post-operative care in pediatric urolithiasis should therefore extend beyond stone removal to include comprehensive metabolic evaluation and targeted correction strategies.

REFERENCES | ЧОҚҚИ | IQTIBOSLAR:

1. Sas DJ, Hulsey TC, Shatat IF, Orak JK. Increasing incidence of kidney stones in children evaluated in the emergency department. *J Pediatr.* 2010;157(1):132–137. doi:10.1016/j.jpeds.2010.02.004
2. Kirejczyk JK, Porowski T, Filonowicz R, et al. Pediatric urolithiasis: a systematic metabolic approach. *Pediatr Nephrol.* 2014;29(1):53–60. doi:10.1007/s00467-013-2571-9
3. Tekin A, Tekgul S, Atsu N, Bakkaloglu M, Kendi S. Risk factors for pediatric urolithiasis: a prospective study. *Urology.* 2000;56(6):1075–1079. doi:10.1016/S0090-4295(00)00793-5
4. Hoppe B, Kemper MJ. Diagnostic examination of the child with urolithiasis or nephrocalcinosis. *Pediatr Nephrol.* 2010;25(3):403–413. doi:10.1007/s00467-008-1073-x
5. Pak CYC. Medical prevention of renal stone disease. *Nephron.* 1999;81(Suppl 1):60–64. doi:10.1159/000046329

6. Milliner DS, Murphy ME. Urolithiasis in pediatric patients. *Mayo Clin Proc.* 1993;68(3):241–248. doi:10.1016/S0025-6196(12)60342-5
7. Türk C, Neisius A, Petrik A, et al. EAU Guidelines on Urolithiasis. *Eur Urol.* 2023.
8. Coe FL, Evan A, Worcester E. Kidney stone disease. *J Clin Invest.* 2005;115(10):2598–2608. doi:10.1172/JCI26662
9. Rizaev , Zh., Shomurodov , K., & Agzamova , S. (2022). MEDICAL REHABILITATION OF PATIENTS WITH FRACTURES OF THE ZYKYMOGO-ORBITAL COMPLEX. *Journal of Dentistry and Craniofacial Research*, 1(2), 8–11. <https://doi.org/10.26739.2181-0966-2020-2-1>
10. Inogamov Sh. M., Sadikov A. A., Rizaev Zh. A. METHODS FOR PREVENTION OF DAMAGE TO THE DENTAL APPARATUS AMONG ATHLETES PLAYING CONTACT SPORTS // *Biology.* – 2021. – No. 1. – P. 125.
11. Raimkulova D.F., Rizaev Zh.A., Sadikov A.A. Assessment of endothelial dysfunction and oxidative stress in athletes of various sports // *Problems of biology and medicine.* – 2020. – T. 5. – No. 122. – pp. 109-112.

БИОМЕДИЦИНА ВА АМАЛИЁТ ЖУРНАЛИ

ЖУРНАЛ БИОМЕДИЦИНЫ И ПРАКТИКИ

JOURNAL OF BIOMEDICINE AND PRACTICE

Контакт редакций журналов. www.tadqiqot.uz
ООО Tadqiqot город Ташкент,
улица Амира Темура пр.1, дом-2.
Web: <http://www.tadqiqot.uz/>; E-mail: info@tadqiqot.uz
Тел: (+998-94) 404-0000

Editorial staff of the journals of www.tadqiqot.uz
Tadqiqot LLC The city of Tashkent,
Amir Temur Street pr.1, House 2.
Web: <http://www.tadqiqot.uz/>; E-mail: info@tadqiqot.uz
Phone: (+998-94) 404-0000