

6th INTERNATIONAL PARIS APPLIED SCIENCES CONGRESS

July 12–17, 2026
Paris, FRANCE



PROCEEDINGS BOOK

EDITOR
Prof. Dr. Işıl AYDIN

ISBN: 978-625-90699-0-6

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CONGRESS ID

CONGRESS TITLE

6th INTERNATIONAL PARIS APPLIED SCIENCES CONGRESS

DATE and PLACE

July 12-17, 2026 Paris/France

ORGANIZATION

UBS-Institute of International Scientific Research and Strategy Development Association,
Akademik Paylaşım Platformu Eğitim Ltd.Şti.,Ankara,Türkiye

CONGRESS CHAIRS

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Uluslararası Bilimsel Araştırma ve Strateji Geliştirme Derneği,Türkiye
International Journal of Health and Applied Science (IJHAS), Türkiye

PARTICIPANT COUNTRIES (6):

Azerbaijan, Nigeria, Pakistan, Thailand, Türkiye, Uzbekistan

NUMBER OF ACCEPTED PAPERS (104):

(Türkiye-37, Other Countries-67)

PRESENTATION

Oral presentation

EVALUATION PROCESS

All applications have undergone a double-blind peer review process

ISBN: 978-625-90699-0-6

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UBSDER

Çankaya - Ankara

06-139-180

Konu: Kongre Düzenleme Kurulu

25.05.2026

Sayı:2026/190

İLGİLİ KURUMA

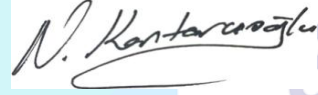
İçişleri Bakanlığı tarafından tahsis edilen 06-139-180 tescil kodu ile Tüzel kişiliğe sahip olan Uluslararası Bilimsel Araştırma ve Strateji Geliştirme Derneği, 5253 sayılı kanuna uygun olarak “Bilimsel Araştırmalar ve Akademik Çalışmalar” alanında ulusal ve uluslararası düzeyde faaliyetlerini yürütmektedir.

Kurumumuzun Yönetim Kurulu tarafından, 25.05.2026 tarihinde saat 14:00’da “Bilimsel Çalışmalarda Strateji Geliştirme” görüşmeleri ile “Bilimsel Kongreler Düzenlenmesi” gündemleri ile toplanmış ve alınan 9 nolu karara istinaden aşağıda detayları yazılı olan bilimsel etkinliğin düzenlenmesine ve etkinliğe ilişkin akademisyenlerin resmi olarak görevlendirilmesine oy birliği ile karar verilmiştir.

Bilgi ve gereğini arz ederim.

Dr. Nadire KANTARCIOĞLU

UBSDER Başkanı



Etkinlik Adı : ULUSLARARASI 6. PARİS UYGULAMALI BİLİMLER KONGRESİ

Etkinlik Tarihi: 12-17 Temmuz 2026 Paris/FRANSA

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Dicle, University, Türkiye

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6th INTERNATIONAL PARIS APPLIED SCIENCES CONGRESS
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Sayı:2026/190

İlgili Makama:

Uluslararası Bilimsel Araştırma ve Strateji Geliştirme Derneği (UBSDER) tarafından organize edilen “6th INTERNATIONAL PARIS APPLIED SCIENCES CONGRESS” Temmuz 12-17, 2026 tarihinde 6 farklı ülkeden (Türkiye’den 37, yurt dışından 67 bildiri sunuldu) olmak üzere toplam 104 adet sunum yapılarak, çevrimiçi olarak düzenlenmiştir. Kongremiz, 16 Ocak 2020’de Akademik Teşvik Ödeneği Yönetmeliğine getirilen “Tebliğlerin sunulduğu yurt içinde veya yurt dışındaki etkinliğin uluslararası olarak nitelendirilebilmesi için Türkiye dışından en az beş farklı ülkeden sözlü tebliğ sunan konuşmacının katılım sağlaması ve tebliğlerin yaridan fazlasının Türkiye dışından katılımcılar tarafından sunulması esastır.” Değişikliğine uygun olarak düzenlenmiştir.

Bilgilerinize Arz Ederim

24.08.2026

Dr. Nadire KANTARCIOĞLU

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Kongremize katılan ülkeler:

Azerbaycan, Nigeria, Pakistan, Thailand, Türkiye, Uzbekistan

6th INTERNATIONAL PARIS APPLIED SCIENCES CONGRESS

July 12-17, 2026 Paris/France



CONGRESS PROGRAM

PARTICIPANT COUNTRIES (6):

Azerbaijan, Nigeria, Pakistan, Thailand, Türkiye, Uzbekistan

Türkiye: 37

Other Countries: 67

Congress Registration & Badge Distribution

Tuesday, July 14, 2026

⌚ Paris Time: 8:¹⁵ AM – 8:²⁵ AM

Opening Ceremony

⌚ Paris Time: 8:³⁰ AM – 8:⁴⁵ AM

▪ **Moment of Silence & National Anthem**

Opening Speeches

Prof. Dr. Işıl AYDIN
Congress President

Dr. Nadire KANTARCIOĞLU
President of UBSDER

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CONGRESS LOCATION:

Hotel Forest Hill Paris Meudon-Vélizy.

Adres: 40 Av. du Maréchal de Lattre de Tassigny, 92360 Meudon, Fransa

IMPORTANT, PLEASE READ CAREFULLY

1. Time Management

- Presentation time: 10 minutes
- Presentations exceeding the allotted time may be interrupted by the session chair with a warning and brought to an end.

2. Presentation Format

- Presentations must be delivered using PowerPoint or similar visual-supported formats.
- Slides should be clear, readable, and prepared in an academic style.

3. Time Discipline

- To ensure the smooth running of the session, all participants are strictly required to adhere to the allocated time limits.

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6th INTERNATIONAL PARIS APPLIED SCIENCES CONGRESS

July 12-17, 2026 Paris/France

FACE TO FACE

14.07.2026

HALL 1



PARIS



Paris Time: 10:¹⁰ AM – 12:³⁰ PM

CHAIR: Prof. Dr. Işıl AYDIN

CHAIR VICE: Assoc. Prof. Dr. Hatice Karaer YAĞMUR

Author(s)	Affiliation	Title
Prof. Dr. Cennet OĞUZ Kübra Nur HACISEFEROĞULLARI	Selçuk University	THE ROLE AND SIGNIFICANCE OF RURAL WOMEN IN VALUE-ADDED (HOME-BASED) PRODUCT PRODUCTION
Prof. Dr. Fırat AYDIN Prof. Dr. Işıl AYDIN	Dicle University	ARSENİK'İN SPEKTROSKOPİK TESPİTİNDE SON GELİŞMELER
Prof. Dr. Fırat AYDIN Prof. Dr. Işıl AYDIN	Dicle University	ASFALTİT KÜLÜNDEN CR TÜRENDİRİLMESİ
Lecturer Dr. Sevda BURAK ERGÜL Prof. Dr. Ümit Başar SEMİZ	Ondokuz Mayıs University Ankara Medipol University	PREVALENCE AND CLINICAL CHARACTERISTICS OF PATHOLOGICAL DISSOCIATION IN PATIENTS WITH SCHIZOPHRENIA
Dr. Ferdi YAĞAN Assoc. Prof. Dr. Zöhre KAYA Dr. Şermin KAYA	Hakkâri Provincial Directorate of National Education Van Yüzüncü Yıl University İzmir Training and Research Hospital	A RESOURCE-BASED EXPLANATION OF POSTTRAUMATIC GROWTH: CONSERVATION OF RESOURCES THEORY IN THE CONTEXT OF THE 2023 KAHRAMANMARAŞ EARTHQUAKES
Prof. Dr. Işıl AYDIN Prof. Dr. Fırat ÜNAL Prof. Dr. Fırat AYDIN	Dicle University	GREEN SYNTHESIS OF A TRIMETALLIC FECUMN-BIOCHAR-CHITOSAN COMPOSITE FOR EFFECTIVE LEAD ADSORPTION AND PRECONCENTRATION
Prof. Dr. Işıl AYDIN Prof. Dr. Fırat AYDIN	Dicle University	TÜRKİYE DE İLAÇ ÜRETİMİNİN TARİHÇESİ
Dr. Hasret ÖZTÜRK Assoc. Prof. Dr. Fatma ERTAŞ OĞUZ	Iğdır University	MOLECULAR REPRESENTATION OF TÜRKİYE-ORIGIN TAENIA SPECIES IN GENBANK: A DATABASE-BASED ASSESSMENT OF SPECIES, MARKERS, HOSTS, AND METADATA CHARACTERISTICS
Prof. Dr. Nermin Meriç Prof. Dr. Murat Aydemir Prof. Dr. Cezmi Kayan Prof. Dr. Ahmet Kılıç Prof. Dr. Akın Baysal Prof. Dr. Feyyaz Durap	Dicle University Harran University	INVESTIGATION OF THE CATALYTIC ACTIVITIES OF CHIRAL MANDELAMIDE-BASED RU(II), IR(III) AND RH(I)-PHOSPHINITE COMPLEXES IN ASYMMETRIC TRANSFER HYDROGENATION IN AZEOTROPIC HCOOH/ET 3 N MEDIUM (POSTER)
Assoc. Prof. Dr. Hatice Karaer YAĞMUR	Dicle University	PHYSICOCHEMICAL PROPERTIES OF BIOFILMS CONTAINING ESSENTIAL OILS (POSTER)
Assoc. Prof. Dr. Nevin ARSLAN Osman AKMEŞE Uğur IŞIK Deniz CANBOLAT GÜLTEKİN	Dicle University Gümüşhane University Artvin Coruh University	SYNTHESIS AND IN VITRO A-AMYLASE INHIBITORY ACTIVITY OF B - HYDROXYAMIDE DERIVATIVES BASED ON 2-HYDROXYNICOTINIC ACID (POSTER)
Assoc. Prof. Dr. Nevin ARSLAN	Dicle University	SYNTHESIS OF BIOFILMS CONTAINING ROSEMARY ESSENTIAL OIL (POSTER)

6th INTERNATIONAL PARIS APPLIED SCIENCES CONGRESS
July 12-17, 2026 Paris/France
FACE TO FACE

14.07.2026

HALL 1



PARIS



Paris Time: 12:⁴⁰ PM – 13:²⁰ PM

CHAIR: Assoc. Prof. Dr. Mehmet KONAR

CHAIR VICE: Asst. Prof. Dr. Dilek BOZOT KAYASAN

Author(s)	Affiliation	Title
Assoc. Prof. Dr. Mehmet KONAR Assoc. Prof. Dr. Erkan Caner Özkat Ahmet Pişmişoğlu	Erciyes University	VIBRATION-BASED FAULT DETECTION IN A WIRE DRAWING MACHINE USING AN LSTM DEEP LEARNING MODEL
Assoc. Prof. Dr. Ebubekir YÜKSEL Mohammad Ikram AZİZİ	Erciyes University	POTENTIAL BIOLOGICAL CONTROL AGENTS IN THE CONTROL OF THE CONFUSED FLOUR BEETLE, <i>Tribolium confusum</i> (Jacquelin du Val, 1868) (Coleoptera: Tenebrionidae): ENTOMOPATHOGENIC NEMATODES
Asst. Prof. Dr. Dilek BOZOT KAYASAN Assoc. Prof. Dr. Pınar TEKİNSOY KARTIN Doç. Dr. Hasan AKKAYA	Niğde Ömer Halisdemir University Erciyes University	PRE-DISCHARGE EDUCATIONAL NEEDS OF PATIENTS WHO HAVE SUFFERED MYOCARDIAL INFARCTION
Prof. Dr. Şafak ÖZHAN KOCAKAYA	Dicle University	COMPUTATIONAL INVESTIGATION OF THE EFFECTS OF DIFFERENT SUBSTITUENTS ON SINGLET AND TRIPLET CARBENE STABILITY IN CARBENES

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Opening Ceremony

Online

Date: **July 15, 2026**

Opening: **Türkiye Time: 13⁰⁰**

Meeting Link:

<https://us06web.zoom.us/j/4603636838?pwd=Gx9rIRf5cUTPsZZ4pilDYkYWaaEAc6.1&omn=82890525751>

Meeting ID: 460 363 6838

Password: 121314

Opening Concert:

A Recital of Turkish Classical Music

Performed by **Assoc. Prof. Dr. Hakan Emre ZİYAGİL**, this concert will offer a refined selection of works from the rich tradition of Turkish classical music, presenting the aesthetic depth and cultural sophistication of the genre

Speech:

Dr. Nadire KANTARCIOĞLU

President of UBSDER

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ÖNEMLİ, DİKKATLE OKUYUNUZ LÜTFEN / IMPORTANT, PLEASE READ CAREFULLY

Önemli, Dikkatle Okuyunuz Lütfen

- ✓ Kongremizde Yazım Kurallarına uygun gönderilmiş ve bilim kurulundan geçen bildiriler için online (video konferans sistemi üzerinden) sunum imkanı sağlanmıştır.
- ✓ Online sunum yapabilmek için <https://zoom.us/join> sitesi üzerinden giriş yaparak "Meeting ID or Personal Link Name" yerine ID numarasını girerek oturuma katılabilirsiniz.
- ✓ Zoom uygulaması ücretsizdir ve hesap oluşturmaya gerek yoktur.
- ✓ Zoom uygulaması kaydolmadan kullanılabilir.
- ✓ Uygulama tablet, telefon ve PC'lerde çalışıyor.
- ✓ Her oturumdaki sunucular, sunum saatinden 15 dk öncesinde oturuma bağlanmış olmaları gerekmektedir.
- ✓ Moderatör – oturumdaki sunum ve bilimsel tartışma (soru-cevap) kısmından sorumludur.

Dikkat Edilmesi Gerekenler- TEKNİK BİLGİLER

- ✓ Bilgisayarınızda mikrofon olduğuna ve çalıştığına emin olun.
- ✓ Zoom'da ekran paylaşma özelliğine kullanabilmelisiniz.
- ✓ Kabul edilen bildiri sahiplerinin mail adreslerine Zoom uygulamasında oluşturduğumuz oturuma ait ID numarası gönderilecektir.
- ✓ **Katılım belgeleri kongre sonunda tarafınıza pdf olarak gönderilecektir**
- ✓ Kongre programında yer ve saat değişikliği gibi talepler dikkate alınmayacaktır

IMPORTANT, PLEASE READ CAREFULLY

- ✓ To be able to attend a meeting online, login via <https://zoom.us/join> site, enter ID "Meeting ID or Personal Link Name" and solidify the session.
- ✓ The Zoom application is free and no need to create an account.
- ✓ The Zoom application can be used without registration.
- ✓ The application works on tablets, phones and PCs.
- ✓ The participant must be connected to the session 15 minutes before the presentation time.
- ✓ All congress participants can connect live and listen to all sessions.
- ✓ Moderator is responsible for the presentation and scientific discussion (question-answer) section of the session.

Points to Take into Consideration - TECHNICAL INFORMATION

- ✓ Make sure your computer has a microphone and is working.
- ✓ You should be able to use screen sharing feature in Zoom.
- ✓ **Attendance certificates will be sent to you as pdf at the end of the congress.**
- ✓ Requests such as change of place and time will not be taken into consideration in the congress program.

Before you login to Zoom please indicate your name_surname and HALL number,
exp. Hall-1, Hakan ÖZTÜRK



Meeting ID: 460 363 6838
Passcode: 121314

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1. Time Management

- Total duration: 15 minutes
- Presentation time: 10 minutes
- Q&A session: 5 minutes
- Presentations exceeding the allotted time may be interrupted by the session chair with a warning and brought to an end.

2. Presentation Format

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- Slides should be clear, readable, and prepared in an academic style.

3. Time Discipline

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6th INTERNATIONAL PARIS APPLIED SCIENCES CONGRESS**July 12-17, 2026 Paris/France****ONLINE****15.07.2026****SESSION-1 / HALL-1****PARIS****Türkiye Time: 13:²⁰ PM – 15:³⁰ PM****CHAIR: Assoc. Prof. Dr. Dinçer AKAL**

Author(s)	Affiliation	Title
Assistant Professor Muhammad FAISAL	Joint Director (AICU) at NAAI, Ministry of Information & Technology, Pakistan	ZERO-TRUST PROJECT MANAGEMENT: AI-DRIVEN CONTINUOUS AUTHENTICATION IN DECENTRALIZED DEVELOPMENT
Assistant Professor Muhammad FAISAL	Joint Director (AICU) at NAAI, Ministry of Information & Technology, Pakistan	EDGE-DEPLOYED COMPUTER VISION FRAMEWORKS FOR AUTOMATED INFRASTRUCTURE HEALTH AUDITING IN PUBLIC TRANSIT CORRIDORS
Ayodele Elizabeth AGOI Moses Adeolu AGOI Emmanuel Taiwo AGOI Hendri Hermawan ADINUGRAHA	Osun State College of Technology, Esa-oke Lagos State University of Education, Lagos Nigeria Loughborough University, United Kingdom Universitas Islam Negeri K.H Abdurrahman Wahid Pekalongan	IOT-ENABLED SMART INFRASTRUCTURE: ENGINEERING INNOVATIONS FOR SUSTAINABLE ECONOMIC GROWTH
M.Sc. Mech. Eng.Fatih ÖZKAN Prof. Dr. Uğur AKYOL Assoc. Prof. Dr. Dinçer AKAL	Nova Engineering Machinery and Control Systems Ltd. Co., Çorlu, Tekirdağ, Türkiye Namık Kemal University Çorlu/Tekirdağ Trakya University, Edirne	EXPERIMENTAL INVESTIGATION OF PHOTOVOLTAIC ENERGY YIELD ON TILE AND SANDWICH PANEL ROOFS
Halim DAYANAN Prof. Dr. Ali AKDAĞLI Asst. Prof. Dr. Timur LALE	Mersin University, Mersin, Turkey Batman UniversityBatman, Turkey	DIABETES PREDICTION USING MACHINE LEARNING METHODS

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6th INTERNATIONAL PARIS APPLIED SCIENCES CONGRESS**July 12-17, 2026 Paris/France****ONLINE****15.07.2026****SESSION-1 / HALL-2****PARIS****Türkiye Time: 13:²⁰ PM – 15:³⁰ PM****CHAIR: Prof. Dr. Elmas ERDOĞAN**

Author(s)	Affiliation	Title
Asst. Prof. Dr. Elif ÇELİK GÜRBULAK Eda BAŞKURT Prof. Dr. Aytaç AKÇAY Prof. Dr. Kutlay GÜRBULAK	Erciyes University Independent Researcher Ankara University	INVESTIGATION OF ADVERSE EVENTS ASSOCIATED WITH HORMONAL PREPARATIONS IN VETERINARY PHARMACOVIGILANCE USING THE APRIORI ALGORITHM
Dr. Elif CİLAVDAROĞLU Muhammed Sadi KADER Prof. Dr. Umut Sami YAMAK	Ondokuz Mayıs University	COMPARATIVE EVALUATION OF SELECTED GROWTH AND LAYING TRAITS IN BLACK AND BLUE AUSTRALORP VARIETIES
Muhammed Sadi KADER Dr. Elif CİLAVDAROĞLU Prof. Dr. Umut Sami YAMAK	Ondokuz Mayıs University	COMPARISON OF INCUBATION RESULTS OF GERZE, AUSTRALORP AND GERZE x AUSTRALORP CROSSINGS
Fadime İBİŞ Prof. Dr. Elmas ERDOĞAN	Ankara University	CULTURAL HERITAGE AREAS, CONSERVATION AND REVITALISATION: KAYAKÖY CASE
Prof. Dr. Elmas ERDOĞAN Fadime İBİŞ	Ankara University	CULTURE, ARCHITECTURE, FORM AND THE ANATOLIAN TURKISH HOUSE
Ümit KAMBUR Prof. Dr. Ramazan KURT	Bursa Technical University	THE EFFECTS OF ORIENTATION ON SOME PHYSICAL, MECHANICAL, AND COMBUSTION PROPERTIES OF PARALLEL STRAND LUMBER

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6th INTERNATIONAL PARIS APPLIED SCIENCES CONGRESS**July 12-17, 2026 Paris/France****ONLINE****15.07.2026****SESSION-1 / HALL-3****PARIS****Türkiye Time: 13:²⁰ PM – 15:³⁰ PM****CHAIR: Asst. Prof. Dr. Bedriye URAL**

Author(s)	Affiliation	Title
Lecturer Lale KARASU Prof. Dr. Mahmut KILIÇ	Niğde Ömer Halisdemir University, Niğde Zübeyde Hanım Health Services Vocational School Yozgat Bozok University	DEVELOPMENT AND PSYCHOMETRIC TESTING OF THE PHYSICAL, CHEMICAL AND BIOLOGICAL RISK AWARENESS SCALE (PCBRAS): A METHODOLOGICAL AND CROSS- SECTIONAL STUDY
Asst. Prof. Dr. Bedriye URAL Esra DURBAKAN Fatma Nur ÇAKIN	University of Health Sciences	WORK STRESS AMONG EMPLOYEES: ASSOCIATIONS WITH SLEEP QUALITY AND DIETARY HABITS
Asst. Prof. Dr. Bedriye URAL Zeynep DOĞAN Özlem GÜNEY ÖZCAN	University of Health Sciences	DIETARY HABITS, GUT HEALTH, AND BODY MASS INDEX AMONG UNIVERSITY STUDENTS: A CROSS- SECTIONAL STUDY
Lecturer Merve ARI Prof. Dr. Kemal ÖDEV Sudenaz TATLI Kübra GÜZEL Kübra Bahar DOĞAN	KTO Karatay University Independent Researcher	THE RELATIONSHIP BETWEEN RADIATION PROTECTION KNOWLEDGE, BURNOUT, AND QUALITY OF LIFE IN HEALTHCARE WORKERS EXPOSED TO IONIZING RADIATION
Lecturer Merve ARI Prof. Dr. Nursen İLÇİN Assoc. Prof. Dr. Çağlar SOYLU Asst. Prof. Dr. Özlem AKKOYUN SERT	KTO Karatay University Dokuz Eylül University Gülhane University KTO Karatay University	EFFECTS OF NEUROATHLETIC EXERCISE ON GAIT SPEED, FALL RISK, AND COGNITIVE FUNCTION IN OLDER ADULTS: RANDOMIZED CONTROLLED TRIAL
Expert Dr. Cemile Cansu ALPEREN Prof. Dr. Meryem ÇETİN Assoc. Prof. Dr. Şirin ÇETİN	Amasya University Sabuncuoğlu Şerefeddin Training and Research Hospital Amasya University	FREQUENCY, SEASONAL DISTRIBUTION, AND ENDOSCOPIC FINDINGS OF HELICOBACTER PYLORI STOOL ANTIGEN POSITIVITY IN DYSPEPTIC PATIENTS

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Author(s)	Affiliation	Title
Assoc. Prof. Dr. Serpil YORGANCI	Atatürk University	THE EFFECT OF A GEOGEBRA-SUPPORTED BLENDED LEARNING ENVIRONMENT ON THE MATHEMATICS ACHIEVEMENT OF LOW-ACHIEVING STUDENTS: A COGNITIVE LOAD THEORY PERSPECTIVE
Assoc. Prof. Dr. Serpil YORGANCI	Atatürk University	STUDENT ENGAGEMENT IN GEOGEBRA-SUPPORTED BLENDED AND ONLINE LEARNING ENVIRONMENTS: A COGNITIVE LOAD THEORY PERSPECTIVE
Assoc. Prof. Dr. Yaşar AY	Dicle University	INVESTIGATING SPHERICAL PLASMA FOCUS DEVICE PARAMETERS USING H, D, AND T GASES
Assoc. Prof. Dr. Yaşar AY	Dicle University	INVESTIGATING ARGON PLASMA DYNAMICS AND X-RAY YIELD WITH RESPECT TO DEVICE GEOMETRY AND GAS PRESSURE IN SPHERICAL PLASMA FOCUS DEVICE
Assoc. Prof. Dr. Erhan ONAT Assoc. Prof. Dr. Selma EKİNCİ Gamze USLU	Bitlis Eren University, Bitlis, Türkiye Batman University, Batman, Türkiye	ACTIVATED CARBON PRODUCTION FROM ADİLCEVAZ GREEN WALNUT HUSK: OPTIMIZATION OF ACTIVATION AND CARBONIZATION CONDITIONS
Assoc. Prof. Dr. Erhan ONAT Assoc. Prof. Dr. Selma EKİNCİ Gamze USLU	Bitlis Eren University, Bitlis, Türkiye Batman University, Batman, Türkiye	REMOVAL OF CHROMIUM IONS FROM AQUEOUS SOLUTIONS USING ACTIVATED CARBON PRODUCED FROM ADİLCEVAZ GREEN WALNUT HUSK
Ezgi ARI ASLAN Prof. Dr. Mustafa COŞKUN Dilara KISA	Adıyaman University	DETERMINATION OF LC ₅₀ VALUES OF FLUPYRADIFURONE ADMINISTERED BY INJECTION AND DIETARY EXPOSURE IN GALLERIA MELLONELLA (LEPIDOPTERA: PYRALIDAE) LARVAE

Opening Ceremony

Online

Date: July 16, 2026

Opening: Türkiye Time: 13⁰⁰

Meeting Link:

<https://us06web.zoom.us/j/4603636838?pwd=Gx9rIRf5cUTPsZZ4pilDYkYWaaEAc6.1&omn=81121801475>

Meeting ID: 460 363 6838

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Speech:

Dr. Nadire KANTARCIOĞLU

President of UBSDER

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1. Time Management

- Total duration: 15 minutes
- Presentation time: 10 minutes
- Q&A session: 5 minutes
- Presentations exceeding the allotted time may be interrupted by the session chair with a warning and brought to an end.

2. Presentation Format

- Presentations must be delivered using PowerPoint or similar visual-supported formats.
- Slides should be clear, readable, and prepared in an academic style.

3. Time Discipline

- To ensure the smooth running of the session, all participants are strictly required to adhere to the allocated time limits.

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PARIS



Türkiye Time: 13:²⁰ PM – 15:³⁰ PM

CHAIR: Rakhmanov Shokhzodbek

Author(s)	Affiliation	Title
Rakhmanov Shokhzodbek	Department of “Hygiene and medical process modeling”, Central Asian Medical University, Fergana, Uzbekistan	TUMOR MARKER DIAGNOSTICS IN CANCER DISEASES
Rakhmanov Shokhzodbek Tursunboyev Muzaffar	Central Asian Medical University; Central Asian Medical University	DEVELOPMENT OF ENCEPHALITIS IN COVID DISEASE
Madaminov Sodik Madaminovich Bazarbaeva Gulmira Azimzhonovna	Associate professor Department of “Anatomy and microanatomy”, International Medical University Central Asian Medical University Uzbekistan, Fergana City.; Master’s Student, Central Asian Medical University. Uzbekistan, Fergana City.	EFFECTIVENESS OF FIT AND COLONOSCOPY IN THE DIAGNOSIS OF COLON ADENOCARCINOMA IN UZBEKISTAN
M.I. Kamalova M.S. Israilov	Doctor of Medical Sciences, Associate Professor, Samarkand State Medical University, Samarkand. Uzbekistan.; Candidate of Medical Sciences, Associate Professor, International Central Asian Medical University Fergana. Uzbekistan.	AGE- RELATED FEATURES OF THE MORPHOLOGICAL STRUCTURE OF THE MUCOUS AND SUBMUCOUS LAYERS OF THE SIGMOID COLON IN CHILDREN
Ortikov Bobomurod Baymamatovich	PhD. Associate Professor, Department of Hygiene of Children, Adolescents and Nutrition, Tashkent State Medical University, Tashkent, Uzbekistan	HYGIENIC ANALYSIS OF MORBIDITY AMONG WORKERS
Ortikov Bobomurod Baymamatovich	PhD. Associate Professor, Department of Hygiene of Children, Adolescents and Nutrition, Tashkent State Medical University, Tashkent, Uzbekistan	HYGIENIC ASSESSMENT OF THE NUTRITIONAL STATUS OF WORKERS ENGAGED IN POTASSIUM PRODUCTION

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Author(s)	Affiliation	Title
Muxamediyeva Irodaxon Baxtiyorxo`ja qizi Muxamediyev Muxammad Muzaffarovich	Central Asian Medical University, Head of the Department of Physiology and Pharmacology, PhD.; Tutor of the Faculty of Pedagogy, Fergana State University	ROLE OF MITOCHONDRIA IN THE BIOENERGETICS OF CARDIAC AND SMOOTH MUSCLE CELLS
Muxamediyeva Irodaxon Baxtiyorxo`ja qizi Muxamediyev Muxammad Muzaffarovich Sultanov Samadjon Xasanboy o`g`li	Central Asian Medical University, Head of the Department of Physiology and Pharmacology, PhD.; Tutor of the Faculty of Pedagogy, Fergana State University; Central Asian Medical University, Head of the Department of Physiology and Pharmacology	OPTIMIZING EXERCISE LOAD AND TYPES OF PHYSICAL ACTIVITY IN STUDENTS WITH ISCHEMIC HEART DISEASE
Kamoliddin Haydarovich Rahmonov Diyorbek Jahongir o`g`li Abdulazizov	Doctor of Medical Sciences, Professor, Scientific Advisor; Central Asian Medical University, International Medical University, Department of Cardiology Master's Student	MODERN APPROACHES TO EARLY PRIMARY DIAGNOSIS OF ISCHEMIC HEART DISEASE IN PATIENTS WITH TYPE 2 DIABETES
Nishonova Dilafruz Tajimatovna	Central Asian Medical University medical university Assistant of the Department of "Anatomy and microanatomy"	CAUSES, CLINICAL FEATURES, DIAGNOSTIC APPROACHES, AND MODERN TREATMENT STRATEGIES OF UTERINE FIBROIDS
Tashaliyeva Jamila Ismatovna Qobilova Yoqitxon Chingizovna	Ardinatori of Central Asian Medical University; Ardinatori of Central Asian Medical University	CYTOGENETIC ANALYSIS OF CHROMOSOMAL DISORDERS USING FISH METHOD
Dilovar Imomnazarovna Khudoyberdieva Shukhrat Toshtemirovich Niyozov	Central Asian Medical University	CLINICAL AND MOLECULAR CHARACTERISTICS OF PROGRESSIVE MULTIFOCAL LEUKOENCEPHALOPATHY IN CHILDREN
Rakhmonberdiyev Siddiqjon Sodiqjon ugli	Assistant, Central Asian Medical University	MORPHOLOGY OF THE PANCREAS UNDER HYPOKINESIA AND EXPERIMENTAL HYPOTHYROIDISM

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Author(s)	Affiliation	Title
Parpiyeva Odinakhon Rakhmanovna Nazarova Diyora Mutabarova Mohinora Muminjonova Shohzoda	Associate Professor Department “Modeling of Hygienic and Medical Processes” Central Asian Medical University.; Students Central Asian Medical University. Fergana, Uzbekistan; Students Central Asian Medical University. Fergana, Uzbekistan; Students Central Asian Medical University. Fergana, Uzbekistan	COMPREHENSIVE APPROACH TO INFECTION PREVENTION THROUGH ASEPSIS AND ANTISEPSIS IN SURGERY
Parpiyeva Odinakhon Rakhmanovna Khakimova Nafisa Oybekovna	Associate Professor Department “Modeling of Hygienic and Medical Processes” Central Asian Medical University; Student of Central Asian Medical University Fergana, Uzbekistan	SALIVARY METABOLOMICS AS A NON-INVASIVE DIAGNOSTIC TOOL FOR EARLY DETECTION OF PERIODONTAL DISEASES
Muxamediyeva Irodaxon Baxtiyorxo`ja qizi Pozilov Mamurjon Komiljonovich	Central Asian Medical University National University of Uzbekistan named after Mirzo Ulugbek	EFFECT OF F-24 AND F-4 ISOQUINOLINE ALKALOIDS ON SWELLING OF RAT HEART MITOCHONDRIA UNDER PbCL ₂ -INDUCED OXIDATIVE STRESS CONDITIONS
Parpiyeva Odinakhon Rakhmanovna	Associate Professor Department “Modeling of Hygienic and Medical Processes”, Central Asian Medical University. Fergana, Uzbekistan	EARLY DETECTION OF BREAST CANCER AMONG THE POPULATION OF FERGANA REGION IN THE LAST 5 YEARS: SCREENING PROGRAMS AND THEIR ANALYSIS
Sobirov Alijon Axmadovich	Tashkent State Medical University, Tashkent, 100109, Uzbekistan	PERIODONTAL TISSUE ALTERATIONS ASSOCIATED WITH DENTOALVEOLAR ANOMALIES AND ORTHODONTIC TREATMENT: A COMPREHENSIVE REVIEW OF BIOMECHANICAL, MICROBIOLOGICAL, AND IMMUNOLOGICAL FACTORS
Berdiev Ergash Abdullaevich	Tashkent State Medical University, Associate Professor of the Department of General and Pediatric Surgery, Candidate of Medical Sciences Republican Scientific and Practical Center for Pediatric Invasive and Endoscopic Surgery Tashkent, Uzbekistan	EFFICIENCY OF ENDOCHURGY IN THE TREATMENT OF ACUTE SURGICAL DISEASES OF ABDOMINAL ORGANS IN CHILDREN
Saidullaeva Kamila Mirshodovna Мадаминжоновна Угилрой	Fergana Medical Institute of Public Health; Fergana Medical Institute of Public Health	HYGIENIC ASPECTS OF PROPER NUTRITION FOR SCHOOL-AGE CHILDREN
Saloxidin Alavdinov Ziyovutdinovich	Head of the Department of Therapeutic and Preventive Dentistry, PhD, Central Asian Medical University, Burhoniddin Marg‘inoniy Street 64, Fergana, Uzbekistan	CLINICAL AND LABORATORY METHODS FOR THE DIAGNOSIS OF DENTAL DISEASES AND EVALUATION OF TREATMENT EFFECTIVENESS IN PATIENTS WITH BRONCHIAL ASTHMA IN THE FERGANA REGION

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Türkiye Time: 13:²⁰ PM – 15:³⁰ PM

CHAIR: Assistant. Qurbonov Nuriddin Panji o'g'li

Author(s)	Affiliation	Title
Azimova Mayram Kurbanovna	Ferghana Medical Institute of Public Health, Department of Communal Hygiene and Occupational Hygiene, Fergana, Uzbekistan	HYGIENIC ASSESSMENT OF THE ECOLOGICAL STATE OF THE CITY OF FERGANA
PhD. Ashurova Manzura Jaloldinovna	Fergana Medical Institute of Public Health, Department of Communal Hygiene and occupational Hygiene, Fergana, Uzbekistan	PROMOTING A HEALTHY LIFESTYLE AS A KEY ELEMENT OF PREVENTIVE TRAINING FOR MEDICAL UNIVERSITY STUDENTS
Assistant, FERUZA Kutliyeva Alloberganovna Doctor of Medical Sciences, Professor Alisher Khudayberdievich Rakhmanov Doctor of Medical Sciences, Professor Ziyaviddin Zainutdinovich Hakimov	¹ Urganch State Medical Institute, Urganch, Khorezm, Uzbekistan Institute of Medical, Scientific and Innovative Research at the Tashkent State Medical University, Tashkent, Uzbekistan Department of Pharmacology, Tashkent State Medical University, Tashkent, Uzbekistan	PREVENTIVE EFFICACY OF CELAGRIP IN EXPERIMENTAL CHRONIC ARTHRITIS INDUCED BY FREUND'S AJUVANT IN PREPUBERTAL RATS
PhD. Madmarov Mahmud Ma'rufovich	Central Asian Medical University, Faculty of Medicine, department of & Therapeutic and preventive dentistry Uzbekistan, Fergana	GENETIC BASES OF IMMUNOPATHOGENETIC MECHANISMS OF CARDIOVASCULAR PATHOLOGY FORMATION IN MILITARY PERSONNEL AGAINST THE BACKGROUND OF CHRONIC DENTAL DISEASES
Senior Lecturer Rakibov Fakhriddin	Central Asian Medical University, Department of Physiology and Pharmacology, Uzbekistan, Fergana	HYGIENIC AND METHODOLOGICAL FOUNDATIONS FOR THE APPLICATION OF ARTIFICIAL INTELLIGENCE MODELS IN PREDICTING HEAVY METAL MIGRATION FROM CERAMIC WARE
PhD. dotsent Egamberdiyev Dilmurod Kamolitdinovich Assistant. Qurbonov Nuriddin Panji o'g'li	Central Asian Medical University	COMPARATIVE EVALUATION OF MINIMALLY INVASIVE TREATMENT TECHNIQUES FOR PATIENTS WITH LARGE CALCULI IN THE UPPER URINARY TRACT
Head Teacher Abdukarimov Nadir Mamurovich	Fergana Medical Institute of Public Health, Department of Dentistry and Otorhinolaryngology, Fergana, Uzbekistan	EAGLE SYNDROME AN INTERDISCIPLINARY ANALYSIS OF PATHOGENESIS, PRECISION DIAGNOSIS, AND TREATMENT STRATEGIES

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Türkiye Time: 13:²⁰ PM – 15:³⁰ PM

CHAIR: Dr. Leyla Huseynova

Author(s)	Affiliation	Title
Dr. Nattapong Wattanakul Kanya Srisuk	Chiang Mai University, Thailand	ONE HEALTH APPROACH IN THE SURVEILLANCE OF EMERGING ZONOTIC DISEASES IN SOUTHEAST ASIA
Somchai Phanich Dr. Anongchai Lertwattanapong	Chiang Mai University, Thailand	ANTIMICROBIAL RESISTANCE TRENDS IN VETERINARY CLINICAL PRACTICE
Adebayo Olumide Johnson	University of Ibadan, Nigeria	COMMUNITY-BASED NURSING INTERVENTIONS IN MALARIA PREVENTION PROGRAMS
Chinedu Okafo Fatima Suleiman	University of Ibadan, Nigeria	PUBLIC HEALTH STRATEGIES FOR INFECTIOUS DISEASE CONTROL IN SUB-SAHARAN AFRICA
Dr. Leyla Huseynova	Baku State University, Azerbaijan	HEALTHCARE SYSTEM RESILIENCE AFTER PANDEMIC OUTBREAKS: A REGIONAL ASSESSMENT
Chinedu Okafo Fatima Suleiman	University of Ibadan, Nigeria	PUBLIC HEALTH STRATEGIES FOR INFECTIOUS DISEASE CONTROL IN SUBSAHARAN AFRICA

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Türkiye Time: 13:²⁰ PM – 15:³⁰ PM

CHAIR: Kazimova Sevara Bakhtiyorovna

Author(s)	Affiliation	Title
Kazimova Sevara Bakhtiyorovna	Assistant, Department of Infectious Diseases and Dermatovenereology, Central Asian Medical University	EPIDEMIOLOGICAL CHARACTERISTICS OF CHRONIC BRONCHITIS: GLOBAL TRENDS AND REGIONAL FEATURES
Aliyeva Gavharoy Abdumutalipovna	Central Asian Medical University international medical university, assistant lecturer of Normal Physiology, Burhoniddin Marg'inoniy Street-64, Fergana, Uzbekistan,	CHANGES IN CHILDREN'S PHYSICAL DEVELOPMENT IN THE MODERN WORLD
Aliyeva Gavharoy Khabibullayev Ne'matillo	Central Asian Medical University Associate Professor of the Department Scientific Supervisor;; Student of Central Asian Medical University	MEASUREMENT OF VITAL LUNG CAPACITY FOR ORIENTATION INTO SPORTS DISCIPLINES
Qodirov Fayzullo Khabibullayev Ne'matillo	Central Asian Medical University Teacher; Student of Central Asian Medical University	HEALTHY LIFESTYLE – THE MAIN FACTOR IN DISEASE PREVENTION
Qodirov Fayzullo Khabibullayev Ne'matillo	Central Asian Medical University Teacher; Student of Central Asian Medical University	PRIMARY, SECONDARY, AND TERTIARY PREVENTION OF DISEASES: MODERN APPROACHES
Aliyeva Gavharoy Khabibullayev Ne'matillo	Central Asian Medical University Associate Professor of the Department; Student of Central Asian Medical University	CHANGES IN NORMAL LUNG DEVELOPMENT AMONG PEOPLE LIVING IN POLLUTED AIR
Aliyeva Gavharoy Khabibullayev Ne'matillo	Central Asian Medical University Associate Professor of the Department; Student of Central Asian Medical University	THE EFFECT OF GADGETS ON CARDIAC PHYSIOLOGICAL ACTIVITY

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Türkiye Time: 13:²⁰ PM – 15:³⁰ PM

CHAIR: Parpiyeva Odinakhon Rakhmanovna

Author(s)	Affiliation	Title
Qodirova Dilduzaxon Abduraxim qizi	Fergana Medical Institute of Public Health; Assistant of the Department of Dermatovenereology and Allergology	NAIL DEFORMATIONS ETIOLOGICAL FACTORS AND DIAGNOSTIC APPROACHES
Gayratova Sarvinov Shuhrat qizi	Fergana Public Health Medical Institute; Department of Pediatrics, 5th year, Group 2921	CLINICAL AND IMMUNOLOGICAL ASSESSMENT OF RISK FACTORS FOR ALLERGIC DERMATITIS IN CHILDREN WITH ACQUIRED IMMUNODEFICIENCY AND OPTIMIZATION OF AN EARLY PREVENTION SYSTEM
Abduvaliyev Begali Sherali o'g'li	Fergana Medical Institute of Public Health; Assistant of the Department of Dermatovenereology and Allergology	PATHOPHYSIOLOGICAL MECHANISMS OF NEURALGIC PAIN SYNDROMES IN CHILDREN AND THEIR CLINICAL SIGNIFICANCE
Sobirjonova Shakhzodakhon G'offorjon qizi	Fergana Medical Institute of Public Health; Assistant of the Department of Dermatovenereology and Allergology	ALLERGIC DERMATITIS CAUSES, PATHOGENESIS, AND PREVENTION STRATEGIES
Sattarov J.B. Khaydarov N.S Asqarov D.A., Boboyev M.Sh	¹ Professor, Tashkent State Medical University. Department of Pediatric Surgery, Urology, Pediatric Urology, Anesthesiology and Reanimatology, and Pediatric Anesthesiology and Reanimatology. Tashkent, Republic of Uzbekistan ² Candidate of Medical Sciences (PhD), Department of General Surgery, Fergana Institute of Public Health, Fergana Republic of Uzbekistan ³ Andijan State Medical Institute Independent Researcher of the Department of Pediatric Surgery, Andijan State Medical Institute., Andijan, Republic of Uzbekistan ⁴ Assistant, Tashkent State Medical University. Department of Pediatric Surgery, Urology, Pediatric Urology, Anesthesiology and Reanimatology, and Pediatric Anesthesiology and Reanimatology. Tashkent, Republic of Uzbekistan	OPTIMIZATION OF THE CHOICE OF TREATMENT TACTICS AND METHODS FOR THE PREVENTION OF ADHESIVE DISEASE OF THE ABDOMINAL CAVITY IN CHILDREN
Assistant Soliyeva Gulchehra Abdurakhmonovna	Central Asian Medical University	HEPATOCELLULAR BALLOONING AND FIBROSIS AS PREDICTORS OF MASLD SEVERITY: EVIDENCE FROM AN EXPERIMENTAL STUDY
Mamatova Shaxnoza Ilxomovna	Fergana Medical Institute of Public Health, Assistant	PETROLEUM COKE AND ITS PROPERTIES: PHYSICAL- CHEMICAL ANALYSIS AND SANITARY-HYGIENIC IMPACT ON WORKERS' HEALTH

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Türkiye Time: 13:²⁰ PM – 15:³⁰ PM

CHAIR: Sodikjon Toirovich Musoev

Author(s)	Affiliation	Title
Sodikjon Toirovich Musoev	Assistant Professor, Department of Surgical Diseases, Faculty of Pediatrics, Samarkand State Medical University	EPIDEMIOLOGICAL ASSESSMENT OF RISK FACTORS FOR THE DEVELOPMENT OF CHRONIC CHOLECYSTITIS AND POSSIBILITIES FOR ITS PREVENTION
Khabibjonova Yoqutxon Khamidullo kizi	Central Asian Medical University international medical university Assistant, Fergana, Uzbekistan	DEVELOPMENT OF INDIVIDUAL ORAL HYGIENE PROTOCOLS AND ASSESSMENT OF ORAL ANATOMICAL AND FUNCTIONAL STATUS IN ORTHODONTIC PATIENTS
Aliyeva Mavluda Tursunaliyevna	Central Asian Medical University, Assistant Fergana, Uzbekista	LONG-TERM USE OF FIXED PROSTHODONTIC RESTORATIONS: A COMPREHENSIVE ASSESSMENT OF THE ANATOMICAL AND FUNCTIONAL STATUS OF THE ORAL CAVITY
Musa-Axmatova Saidabonu Alisher qizi	Tashkent International University of Chemistry	EFFECTIVENESS OF MINIMALLY INVASIVE SURGICAL METHODS IN COLOPROCTOLOGY
J.T. Mamasaidov N.R. Madrakhimova	Head of the Department of "Pediatric Surgery and Prophylaxis of Internal Diseases" at Central Asian International Medical University "CAMU." Doctor of Medical Sciences, Associate Professor. FJSTI, Fergana Medical Institute of Public Health. Assistant of the Department of Anatomy.	"DYNAMICS OF MORPHOLOGICAL CHANGES IN LIVER TISSUE UNDER CONDITIONS OF EXPERIMENTAL Gallstone Disease"
Senior Lecturer Temur Alisher o'g'li Olimjonov	Department of Maxillofacial Surgery, Tashkent State Medical University, Tashkent, Uzbekistan	CLINICAL AND EPIDEMIOLOGICAL PROFILE OF ZYGOMATICOORBITAL COMPLEX FRACTURES: A RETROSPECTIVE ANALYSIS OF 120 CASES
Senior Lecturer Temur Alisher o'g'li Olimjonov	Department of Maxillofacial Surgery, Tashkent State Medical University, Tashkent, Uzbekistan	EFFICACY OF TITANIUM IMPLANTS AND ENDOPR OSTHETIC MESH IN SURGICAL RECONSTRUCTION OF ZYGOMATICO-ORBITAL COMPLEX FRACTURES

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CHAIR: Atayeva Farzona Nuriddinovna

Author(s)	Affiliation	Title
Atayeva Farzona Nuriddinovna Tursunboyeva Lobarxon Ikrambayevna	PhD, Acting Associate Professor, Department of Obstetrics and Gynecology No. 3, Samarkand State Medical University Master's Degree Resident at the Department of Obstetrics and Gynecology No. 3, Samarkand State Medical University	EARLY DIAGNOSIS OF EXTERNAL GENITAL ENDOMETRIOSIS AMONG NULLIPAROUS WOMEN OF REPRODUCTIVE AGE
Atayeva Farzona Nuriddinovna Karimova Sug'diyona Ravshanbek qizi	PhD, Acting Associate Professor, Department of Obstetrics and Gynecology No. 3, Samarkand State Medical University Master's Degree Resident at the Department of Obstetrics and Gynecology No. 3, Samarkand State Medical University	MODERN DIAGNOSTIC APPROACHES TO FETAL GROWTH RESTRICTION IN PREGNANT WOMEN WITH IRON DEFICIENCY ANEMIA
Shadmanova Hargiza Abidovna Sayidmirzayeva Nazokat Gayratjonovna Asatova Nafisa Baxodirovna	Center for Retraining and Advanced Training of Personnel in the Field of Sanitary and Epidemiological Well-Being and Public Health Fergana Public Health Medicine is an independent researcher , Fergana, Uzbekistan Candidate of Medical Sciences, Associate Professor;	BACTERIAL ETIOLOGY OF ACUTE INTESTINAL INFECTIONS IN THE REGIONS OF UZBEKISTAN: A COMPARATIVE RETROSPECTIVE ANALYSIS OF REPRESENTATIVES OF THE GENERA SALMONELLA SPP.
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DIAGNOSIS OF AESTHETIC DISORDERS IN PATIENTS WITH DENTAL ARCH DEFECTS AND THEIR COMPREHENSIVE REHABILITATION

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Abstract. *The aim of this study was to investigate the diagnostic features of aesthetic disorders in patients with dental defects and to develop a comprehensive rehabilitation program for the population of the Fergana region. A clinical and epidemiological survey of 135 patients aged 18-60 years was conducted. It was found that dental defects are accompanied by significant aesthetic and functional impairments affecting quality of life. A comprehensive approach to rehabilitation is proposed, including orthopedic, orthodontic, and preventive treatment. The results confirm the need for early diagnosis and an interdisciplinary approach.*

Keywords: *dental defects, aesthetic disorders, orthopedic dentistry, rehabilitation, Fergana region, occlusion, quality of life.*

Аннотация. *Целью настоящего исследования явилось изучение особенностей диагностики эстетических нарушений у пациентов с дефектами зубного ряда и разработка комплексной программы реабилитации для населения Ферганского региона. Проведено клинко-эпидемиологическое обследование 135 пациентов в возрасте 18-60 лет. Установлено, что дефекты зубных рядов сопровождаются выраженными эстетическими и функциональными нарушениями, влияющими на качество жизни. Предложен комплексный подход к реабилитации, включающий ортопедическое, ортодонтическое и профилактическое лечение. Полученные результаты подтверждают необходимость ранней диагностики и междисциплинарного подхода.*

Ключевые слова: *дефекты зубного ряда, эстетические нарушения, ортопедическая стоматология, реабилитация, Ферганский регион, окклюзия, качество жизни.*

INTRODUCTION

Dental arch defects remain among the most prevalent conditions encountered in prosthodontic practice and represent a significant public health concern worldwide. According to epidemiological studies, the prevalence of dental arch defects reaches up to 90% among the adult population, reflecting the high burden of tooth loss and its consequences on oral health and quality of life [1,2].

In the countries of Central Asia and the Commonwealth of Independent States (CIS), the prevalence of partial edentulism among young adults ranges from 30% to 45%, primarily resulting from dental caries, traumatic injuries, and insufficient oral health awareness. Russian epidemiological studies likewise indicate that dental arch defects remain highly prevalent, affecting approximately 70–90% of adults. Among individuals aged 20–35 years, partial edentulism occurs in 30–40% of cases, with bounded edentulous spaces accounting for approximately 40–45% and distal extension defects for 6–12% [3,4].

The prevalence of severe forms of edentulism increases considerably with age. After the age of 40 years, the frequency of distal extension defects rises to 12–18%, whereas complete edentulism reaches approximately 10–11% among individuals older than 50 years [5]. These findings demonstrate the progressive nature of tooth loss and the increasing need for prosthodontic rehabilitation with advancing age.

Regional investigations conducted in Uzbekistan reveal an unfavorable dental health situation. The prevalence of dental diseases, including dental caries and its complications, reaches 89.4% of the population [6]. Dental arch anomalies have been identified in 21.6% of young individuals, while partial edentulism affects approximately 30–45% of the young adult

population. More than 60–70% of patients require prosthodontic treatment [7]. The region is characterized by delayed patient presentation, inadequate preventive care, and a high prevalence of complicated dental caries, resulting in the early development of dental arch defects and a substantial treatment demand even among young adults [8].

European countries demonstrate comparatively more favorable epidemiological indicators. Partial edentulism affects approximately 20–35% of adults, whereas complete edentulism ranges from 5% to 15%. Among elderly individuals aged 65 years and older, tooth loss reaches 60–80% [9,10]. International studies indicate that the overall prevalence of dental arch defects may approach 80–90% in older age groups. These differences are largely attributable to more effective preventive strategies, widespread use of dental implants, and earlier diagnosis in developed healthcare systems [11].

Beyond functional impairment, dental arch defects significantly compromise facial aesthetics, smile appearance, psychological well-being, masticatory efficiency, temporomandibular joint function, and periodontal health [12]. In Uzbekistan, dentofacial anomalies affect approximately 33.7% of the population, emphasizing the necessity for region-specific diagnostic protocols and comprehensive rehabilitation strategies.

Aim of the Study

To develop and substantiate a comprehensive diagnostic system for aesthetic disorders and an integrated rehabilitation protocol for patients with dental arch defects in the Fergana region.

MATERIALS AND METHODS.

A clinical and epidemiological study was conducted involving 135 patients aged 18–60 years who sought prosthodontic treatment for dental arch defects in the Fergana region. The study population consisted of **64 men (47.4%)** and **71 women (52.6%)**. Clinical examination included oral assessment, occlusal evaluation, and the Dental Aesthetic Index (DAI). Laboratory investigations comprised salivary biochemical analysis (pH, calcium, and phosphorus levels) and microbiological assessment. Instrumental examinations included panoramic radiography and standardized smile photography. Statistical analysis was performed using the chi-square (χ^2) test and odds ratio (OR) calculations.

Inclusion Criteria

The inclusion criteria were as follows: presence of one or more dental arch defects; age between 18 and 60 years; absence of severe systemic diseases that could affect oral health or interfere with treatment outcomes; voluntary informed consent to participate in the study.

Clinical Examination

All participants underwent a comprehensive clinical examination, including: visual examination of the oral cavity; assessment of dental arch integrity; evaluation of occlusal relationships; assessment of facial symmetry; smile analysis using standardized photographic records; evaluation of aesthetic impairment according to the **Dental Aesthetic Index (DAI)**.

Laboratory Assessment

Salivary samples were collected under standardized conditions. The following biochemical parameters were determined:

salivary pH; calcium concentration; phosphorus concentration.

Microbiological analysis was also performed to evaluate the composition of the oral microflora and identify potential pathogenic microorganisms associated with oral diseases. Instrumental diagnostic procedures included: panoramic radiography (orthopantomography); standardized digital photographic documentation for smile analysis; assessment of occlusal relationships and prosthodontic treatment planning.

Statistical Analysis

The collected data were processed using standard statistical methods. Quantitative variables were expressed as **mean $\pm$ standard deviation (M $\pm$ SD)**. Group comparisons were

performed using the **chi-square (χ^2) test**, while the association between risk factors and aesthetic disorders was assessed by calculating the **odds ratio (OR)** with **95% confidence intervals (95% CI)**. Correlation analysis was performed using Pearson's correlation coefficient. Statistical significance was established at **$p < 0.05$** .

RESULTS

The clinical and epidemiological survey demonstrated that dental arch defects are highly prevalent among patients in the Fergana region and are associated with significant functional and aesthetic impairments.

Distribution of Dental Arch Defects

Analysis of the defect pattern revealed that **bounded edentulous spaces** represented the most common type, accounting for **48%** of all cases. These defects were characterized by the loss of individual teeth while preserving adjacent supporting teeth.

Distal extension defects were identified in **32%** of patients and were frequently accompanied by severe occlusal disturbances, reduced masticatory efficiency, and impaired functional adaptation.

Multiple dental arch defects were diagnosed in **20%** of the examined patients and were associated with the most pronounced functional limitations and aesthetic deterioration.

Aesthetic Evaluation

Assessment of facial and dental aesthetics revealed substantial abnormalities in the majority of patients.

Disturbances of the smile line were observed in **64%** of participants and were manifested by asymmetry of the dental arch, displacement of anterior teeth, and loss of smile harmony.

Facial asymmetry was detected in **38%** of patients, predominantly among individuals with unilateral dental arch defects, reflecting uneven distribution of masticatory forces.

Alterations in the facial profile were found in **27%** of cases, particularly among patients with long-standing untreated defects, suggesting progressive involvement of both hard and soft tissues of the maxillofacial complex.

Clinical and Laboratory Findings

Biochemical analysis demonstrated significant deviations from physiological values.

The mean salivary **pH** was **6.2 ± 0.3** , indicating increased acidity and a favorable environment for enamel demineralization.

The mean salivary calcium concentration was **0.9 ± 0.2 mmol/L**, which was lower than the accepted physiological reference range and reflected a reduced remineralization potential of saliva.

The oral hygiene index reached **2.4 ± 0.5** , corresponding to an unsatisfactory level of oral hygiene and inadequate preventive oral care.

Table 1. Clinical and Laboratory Parameters

Parameter	Reference Value	Patients
Salivary pH	6.8–7.4	6.2 ± 0.3
Calcium (mmol/L)	1.2–2.2	0.9 ± 0.2
Oral Hygiene Index	≤ 1.2	2.4 ± 0.5

The findings indicate that decreased salivary pH contributes to enamel demineralization, while reduced calcium concentration represents an additional risk factor for dental hard tissue destruction. The elevated oral hygiene index reflects insufficient oral hygiene practices and emphasizes the importance of preventive interventions.

Correlation analysis demonstrated a statistically significant positive relationship between poor oral hygiene and the severity of aesthetic disorders (**$r = 0.62$, $p < 0.05$**), indicating that deterioration in oral hygiene is directly associated with worsening aesthetic outcomes.

Risk Assessment

The presence of dental arch defects significantly increased the likelihood of developing aesthetic disorders.

Patients with dental arch defects exhibited a **2.8-fold higher risk** of aesthetic impairment compared with individuals without such defects (**OR = 2.8; 95% CI: 1.7–4.5**).

The highest risk was observed among patients presenting with **multiple** and **distal extension defects**, which produced the greatest disturbances in occlusal stability, facial appearance, and oral function.

Overall, the obtained findings demonstrate that dental arch defects in the population of the Fergana region are accompanied by a complex combination of clinical, functional, biochemical, and aesthetic alterations. These results emphasize the importance of early diagnosis and the implementation of comprehensive multidisciplinary rehabilitation programs aimed at restoring both oral function and facial aesthetics.

Results. Dental arch defects were associated with pronounced aesthetic and functional impairments that significantly affected patients' quality of life. The most common defects were bounded edentulous spaces (48%), followed by distal extension defects (32%) and multiple defects (20%). Aesthetic evaluation revealed smile line abnormalities in 64% of patients, facial asymmetry in 38%, and altered facial profile in 27%. Salivary pH and calcium levels were significantly lower than physiological values, while the oral hygiene index indicated inadequate oral hygiene. Poor oral hygiene showed a significant positive correlation with the severity of aesthetic disorders ($r = 0.62$; $p < 0.05$). The presence of dental arch defects increased the risk of aesthetic impairment by 2.8-fold (OR = 2.8; 95% CI: 1.7–4.5).

DISCUSSION

The findings of the present study confirm that dental arch defects represent not only a functional impairment but also a significant aesthetic problem affecting patients' psychological well-being and quality of life.

Comparison of the obtained results with previously published international studies demonstrates similar epidemiological trends, including an age-related increase in the prevalence of dental arch defects and their negative impact on oral function, facial aesthetics, and psychosocial status. Regardless of geographical region, dental arch defects remain one of the most common oral health disorders requiring comprehensive rehabilitation [13].

However, several regional differences were identified. In Uzbekistan and other Central Asian countries, dental arch defects develop at a considerably younger age than in most European countries. This situation is primarily associated with delayed dental attendance, insufficient preventive measures, limited access to specialized orthodontic and prosthodontic services, and the high prevalence of advanced dental caries.

Conversely, European countries demonstrate more favorable epidemiological indicators due to well-established preventive programs, routine dental examinations, earlier diagnosis, and widespread implementation of implant-supported rehabilitation. Consequently, although tooth loss remains common among elderly individuals, younger populations experience significantly lower rates of partial edentulism.

The present study also identified several characteristic features of patients from the Fergana region. These include delayed presentation for dental treatment, restricted access to orthodontic care, inadequate oral hygiene practices, and insufficient preventive dental services. These factors collectively contribute to progressive deterioration of dental aesthetics and functional disturbances.

Based on the obtained findings, comprehensive rehabilitation of patients with dental arch defects should not be limited to prosthodontic treatment alone. Instead, it should incorporate an interdisciplinary approach involving prosthodontic rehabilitation, orthodontic correction, aesthetic restorative dentistry, periodontal therapy, and

individualized preventive programs. Such an integrated strategy allows restoration of masticatory efficiency, occlusal balance, facial aesthetics, and overall oral health, ultimately improving patients' quality of life.

Conclusions

1. Dental arch defects are highly prevalent among the population of the Fergana region and are associated with pronounced aesthetic, functional, and psychosocial disturbances.
2. The principal risk factors contributing to aesthetic impairment include poor oral hygiene, enamel demineralization, delayed diagnosis, and inadequate preventive dental care.
3. Comprehensive multidisciplinary rehabilitation significantly improves facial aesthetics, occlusal relationships, masticatory function, and the overall condition of the dentofacial system.
4. The implementation of region-specific preventive programs and early diagnostic protocols is essential for reducing the prevalence of dental arch defects and improving oral health outcomes among the population of Uzbekistan.

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