

BOOK OF ABSTRACTS



ISCOM 2025



**GOCE DELCEV UNIVERSITY STIP
FACULTY OF MEDICAL SCIENCES**



ISCOM 2025

4 International Student's
Congress of Medicine
15 - 17 May - Stip, North Macedonia

Via Medica



Multimedial center
Goce Delcev University



BOOK OF ABSTRACTS

4 INTERNATIONAL
STUDENT CONGRESS
OF MEDICINE
15 -17 MAY 2025

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GOCE DELCEV UNIVERSITY



Goce Delcev University, Stip was established in 2007 with a focus on inclusivity, diversity, and cooperation. Its goal is to support regional and national development through quality education and intellectual growth.

The university's mission includes teaching, research, and public service, with students being at the center, emphasizing a personalized approach. Its motto, "Choose wisely, act boldly," reflects the importance of personal choice and the courage to create positive change.

UGD strives to be a place of motivated students, valued professors, and dedicated staff, fostering humane values and continuous growth. Its vision is to build a better, stronger, and more compassionate university.

To support the development of southeast North Macedonia and expand higher education in the region, the state university Goce Delcev was established in Stip on March 27, 2007.

The first session of the University Senate was held on June 28, 2007, at the Faculty of Pedagogy and the Faculty of Mining, Geology, and Polytechnic. In the presence of the university committee members, students, professors, and citizens of Stip, the Senate unanimously appointed Prof. Sasha Mitrev (Faculty of Agriculture) as the first rector and Prof. Dushan Todorovski (Faculty of Pedagogy) as the first Senate president.

Prof. Mitrev served as a rector from 2007 to 2015, followed by Prof. Blazho Boev (2015–2022). Since September 2020, Prof. Dejan Mirakovski (Faculty of Natural and Technical Sciences) has held the position.

Goce Delcev University has 12 faculties and 3 academies, organized across multiple campuses:

- Faculties: Medical Sciences, Economy, Mechanical Engineering, Law, Electrical Engineering, Technology, Philology, Education, Computer Sciences, Tourism and Business Logistics, Natural and Technical Sciences, and Agriculture.
- Academies: Art, Music, and Film.

The university offers bachelor's, master's, and doctoral programs, combining academic knowledge with practical training to equip students with valuable skills for their careers.

Research and development are fundamental pillars of the university, with faculty actively involved in various local and international projects. Research plays a significant role in faculty promotion decisions, and the university supports innovation and scientific work by offering small grants to its academic staff.



GOCE DELCHEV
UNIVERSITY

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ISCOM 2025



ADDRESS BY THE DEAN OF THE FACULTY OF MEDICAL SCIENCES - STIP

Dear students, respected professors, colleagues, distinguished guests,

It is my great honor and pleasure, on behalf of the entire faculty of the Faculty of Medical Sciences at the Goce Delcev University Stip, to extend a warm welcome to you at the Third Student Congress of General Medicine, organized by the students of the Faculty of Medical Sciences.

We are particularly proud of this event, which unites all generations in one place in which the main focus is on the students, their ideas and their enthusiasm. I am pleased that the current students have realized the tradition that has been started, and that the next ones will continue it and build on it year after year with the acquired experiences.

I would like to emphasize that it is a great pleasure to be part of this large medical and scientific family, at the same time, a great challenge to follow the constant development and achievements in modern healthcare. For these reasons, such events are of great importance for your future professional development and scientific and research career.

Congratulations to all members of the Organizing Committee for the seriousness and creativity, both in planning the Program and in the successful organization of the Congress in all its segments.

Finally, I would like to wish you successful work, to express my great gratitude to all my colleagues who actively participated in the event and mentored our students, as well as to the entire Faculty and University, without whom all this would not have been a reality.

PROF. MILKA ZDRAVKOSKA, MD, PHD

ADDRESS BY THE SCIENTIFIC COMMITTEE OF ISCOM 2025



Dear readers, participants and future colleagues,

With great pleasure we present this year's edition of the book of abstracts from the Fourth International Congress of Medical Students, which with each edition grows into a significant platform for academic exchange, scientific curiosity and interdisciplinary cooperation.

As a President of the Scientific Committee, it is my honor to witness the creativity, analytical and scientific enthusiasm that students invested in their research. The abstracts that follow are not just short scientific texts — they are an indicator of the maturity and dedication of the new generation of physicians, researchers and health professionals.

Our goal was to provide scientific and ethical rigor, a variety of topics and space for innovative ideas. We believe that this book represents a real value not only for the participants, but also for every reader who cherishes the scientific spirit and recognizes the importance of youth initiative in medicine. On behalf of the entire Scientific Committee, I would like to thank all authors, reviewers, and mentors for making this possible. We wish you enjoyable reading and inspiration for future research challenges.

ASS. PROF. MARIJA DIMITROVSKA IVANOVA, MD, PHD



ADDRESS BY THE ORGANIZING COMMITTEE OF ISCOM 2025

"Science does not advance through certain answers,
but through bold questions."

Dear colleagues and readers,

It is with great honor and academic responsibility that we present this book of abstracts – a collection that testifies to the scientific activity, dedication, and pursuit of excellence of the young researchers participating in this year's Student Medical Congress.

This book is not merely a technical compilation of abstracts, but a platform reflecting the intellectual capacities and future directions of medical science. Through the topics they address, the authors highlight their sensitivity to current health challenges, as well as the maturity with which they approach scientific methodology.

Medicine, as a dynamic and complex field, requires constant re-evaluation, critical thinking, and readiness to face the unknown. The abstracts included in this collection each, in their own way, precisely demonstrate this spirit of research curiosity and intellectual integrity.

We express our gratitude to all student-authors for their hard work and perseverance in preparing their research, to the mentors who supported and guided them throughout the process, and to all supporters of this academic initiative. Their dedication gives lasting value to this collection.

May this book serve as a permanent record of a generation that believes in science, in humanity, and in the vision for medical progress.

IVAN ANDONOVSKI



ISCOM 2025

16:00 - 17:00	Registration of participants (active and passive)
17:00 - 17:20	Opening Ceremony of the Congress Rector – Prof. Dejan Mirakovski, PhD Dean – Prof. Milka Zdravkovska, MD, PhD Mayor – Ivan Jordanov Minister of health – Arben Taravari, MD Minister of education – Prof. Vesna Janevska, MD, PhD
17:20 - 17:30	Welcome notes Organizing Committee of ISCOM 2025 Scientific Committee of ISCOM 2025
17:30 - 17:45	“Medical malpractice, conditions in medicine that lead to the occurrence of medical error” – Assoc. Prof. Natasa Davceva, MD, PhD
17:45 - 18:00	“The future of Precision Oncology” – Ass. Prof. Marija Karakolevska Illova, MD, PhD
18:00 - 18:15	“Hotel Tsar Samuil: An oasis of health, relaxation, and innovation beneath the slopes of Belasica” – Verica Alagozovski, Manager of medicine
18:15 - 18:30	Fifteen years of a successful story between Zan Mitrev Clinic & Goce Delcev University – Prof. Milka Klineva, MD, PhD
18:30 - 18:45	Re-medika 20 years of trust is both an honor and a motivation – Prof. Aleksandar Mitevski, MD, PhD
18:45 - 18:55	Cardiovascular medicine through examples – Sasko Nikolov, MD
18:55 - 19:05	Congenital heart defects - current issues and future perspectives – Ivan Milev, MD
19:05 - 21:00	Welcome cocktail party Live music band

08:00 - 09:00	Registration of participants (active and passive)
09:00 - 10:30	Session 1 (Oral presentations)
09:00 - 09:15	"Vaginal microbiome and HPV interplay or coincidence?" - Ass. Prof. Kornelija Trajkova MD, PhD
09:15 - 09:25	„Dysgerminoma in pregnancy- Case report“ - Irena Zezova
09:25 - 09:35	"Pelvic Organs Through the Lens of Anatomical Variations and Malformations -A Statistical Overview and an Innovative Approach in Medicine" - Filip Kalajdziski
09:35 - 09:45	"Human papillomavirus (HPV) associated undifferentiated sinonasal carcinoma: A case report" - Lara Vukosavljevik
09:45 - 10:00	"Forensic neuropathology from the autopsy practice point of view" - Prof. Jozef Sidlo, MD, PhD
10:00 - 10:10	"Anaplastic lymphoma kinase (ALK) expression in lung adenocarcinomas - clinicopathologic and morphologic features" - Nebojsa Risteski
10:10 - 10:20	"The role of anti-Aquaporin 4 and anti-MOG antibodies in diagnosis, prognosis, treatment of Neuromyelitis Optica Spectrum Disorders" - Stojce Citkuseva Dimitrova
10:20 - 10:30	„Intravenous leiomyomatosis of the uterine corpus“ - Vanesa Spirovska
10:30 - 10:45	Coffee break
10:45 - 12:15	Session 2 (Oral presentations)
10:45 - 11:00	"Transcatheter aortic valve implantation (TAVI) - present and future" - Ass. Prof. Oliver Busletik, MD, PhD
11:00 - 11:10	"Unusual Anatomical Origin of Coronary Artery from the Aorta - A Report of Two Cases" - Teodora Aceva
11:10 - 11:20	"Truncus arteriosus type A3" - Lina Gerasimova

11:30 - 11:45	"Open fractures" - Ass. Prof. Aleksandar Trajanovski MD, PhD
11:45 - 11:55	"Urgent local surgical treatment of colostomy prolapse in a patient with oligophrenia and Hirschsprung's disease - Case report" - Aleksandar Velickov
11:55 - 12:05	"Mechanical Ileus of the Small Intestine Due to Migration of a Polypropylene Mesh Following Inguinal Hernioplasty" - Jovana Bogdanovik
12:05 - 12:15	"Treatment of Acute Aortic Dissection with Complete Atrioventricular Block and Subacute STEMI: A Multidisciplinary Approach" - Pece Kostadinovski
12:15 - 13:30	Lunch break
13:30 - 14:50	Session 3 (Oral presentations)
13:30 - 13:45	„Initial assessment and management of pediatric polytrauma patients“ - Assoc. Prof. Maja Mojsova Mijovska MD, PhD
13:45 - 13:55	"Neuropharmacological Approach to Personalized Anesthesia - Pharmacogenetics, Pharmacokinetics, and Pharmacodynamics of Anesthetics as Key Factors for Optimization" - Sara Denkova
13:55 - 14:05	"Anesthesia in patients with acute intermittent porphyria" - Angela Talevska
14:05 - 14:15	„Venous Thromboembolism in a Patient with Hemophilia“ - Anastasija Minevska
14:15 - 14:30	„Lasers in esthetic dermatology“ - Prof. Andrej Petrov, MD, PhD
14:30 - 14:40	"Choroidal Melanoma: A Growing Concern in Ocular Malignancies" - Ljubenka Ordeva
14:40 - 14:50	"Plasmacytoid melanoma" - Deana Petrevska
15:00 - 15:15	Coffee break

15:15 - 16:15

Poster Session 1

1. **The Psychological Impact of Living with Epilepsy: Anxiety and Depression as Comorbidities Across Different Levels of Seizure Control** - Darija Dragsic
2. **Subjective Assessment of Oral Health among Pregnant Women** - Andrea Vasiloska
3. **Smoking as an "Oral Catastrophe": How Can Dentists Improve the Situation?** - Angel Bozinov
4. **Insights into Redox Transformation of Quercetin and its Interactions with Dopamine-A Voltammetric Study** - Sanja Lazarova
5. **The use of Comet assay for detection of genotoxic effect of benzo[a]pyrene** - Vanesa Krsteva
6. **Atypical Presentation of Scarlet Fever** - Martina Gjorgievska
7. **Pulmonary Hematoma in a Young Patient: A Rare Manifestation of Pulmonary Arteriovenous Malformation** - Larisa-Ionela Tizu
8. **Nephrolithiasis: Mechanism of formation and role in obstructive uropathy** - Snezana Jovanova
9. **Fascia as mechanosensory system and fascial distortions** - Ivan Krstevski
10. **Management of Rosacea** - Marija Jovanova
11. **Incidence and prevalence of juvenile diabetes in the municipality of Strumica from 2019 to 2023** - Violeta Koteska
12. **Diagnostic and therapeutic challenges of Mediastinal Teratoma with Pleural Effusion** - Sandra Tashkova
13. **Post-COVID Cognitive Recovery in a Hemodialysis Patient Using Neuroprotective Supplements** - Elena Milanovska
14. **Closure of a Patent Foramen Ovale as a Treatment for Migraine in a Patient with a History of Myxoma Surgery** - Evgenija Ilioska

17:00 - 19:00	Workshops - Day 1
Room 1	Life Between the Lines: When Digital Precision Meets Real Care - Mence Nedelkoska MD, Maja Kulibrk Nedelkovska MD, Tanja Kosevska, MD Svetlana Cvetkova, Biljana Josifova (Diaverum)
Room 2	Biomarkers in pulmonary carcinoma - Assoc. Prof. Katerina Kubelka Sabit, MD, PhD & Elena Stojkoska, MD (Molecular medicine student society MMSS)
Room 4	Management and triage of acute and chronic musculoskeletal disorders - Violeta Petkova, MD & Lazo Manev, MD (Tsar Samuil Hotel by Terme Parilo)
Room 5	Neonatal Challenges and Pediatric Solutions: A Practical Workshop - Prof. Elizabeta Zisovska, MD, PhD; Visna Gacova, MD & Emilija Spritova, MD
Conference room	Urgent medical conditions: Life saving actions - Zan Mitrev Clinic
21:00	Social program

08:00 - 09:00	Registration of participants (active and passive)
09:00 - 10:30	Session 1 (Oral presentations)
09:00 - 09:15	“Spectrum of Mycobacterium tuberculosis infection: a clinical and epidemiological challenge to binary classification” – Ass. Prof. Zorica Nanovik, MD, PhD
09:15 - 09:25	“Severe Influenza A Leading to Bronchopneumonia and ARDS: A Case of Timely Intervention and Successful Recovery” – Jovana Manojlovska
09:25 - 09:35	“Initially metastatic breast cancer” – Elena Ribarska
09:35 - 09:45	“Molecular mechanisms of action of adoptive cell immunotherapy” – Metodi Recanovski
09:45 - 10:00	“Recanalization of Chronic Total Occlusions of Coronary Arteries - A fundamental Indication” – Stefan Juricic, MD, PhD
10:00 - 10:10	“Diverse morphological findings in cardiac myxoma” – Denis Sabit
10:10 - 10:20	“The Medical Student Syndrome: Fact or Myth?” – Sara Jovanova
10:20 - 10:30	“Optic disc size as a risk factor for glaucoma” – Evelin Ivanova
10:30 - 10:45	Coffee break
10:45 - 12:15	Session 2 (Oral presentations)
10:45 - 11:00	“Headache Disorders: Classification and Approach to Management” – Ass. Prof. Elena Joveva MD, PhD
11:00 - 11:10	„Hemiplegic variant of amyotrophic lateral sclerosis - case report” – Matej Sandev
11:10 - 11:20	“Migraine as the initial manifestation of Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy (CADASIL) - Case report” – Angela Kocoska
11:20 - 11:30	“Beyond the Heart: Enlightening the link between the Patent Foramen Ovale and Migraines” – Makedonka Mitanova

11:30 - 11:45	"Shadows of Survival: Decoding Trauma's Lasting Legacy" - Kamelija Simeonova, MD
11:45 - 11:55	"Introduction of varicella vaccine in the Republic of N.Macedonia- Case report" - Nina Spasova
11:55 - 12:05	"Improved prostate cancer detection rate with MRI spectroscopy in patients with prior negative biopsy and rising PSA level" - Frosina Petreska
12:05 - 12:15	"Familial recurrent hydatidiform mole, an ultra-rare condition affecting the forgotten organ" - Frosina Trajkoska
12:15 - 13:30	Lunch break
13:30 - 14:50	Session 3 (Oral presentations)
13:30 - 13:45	"Multidisciplinary Approach to Sleep Apnea" - Prim. Spec. Maja Kirjas, MD
13:45 - 13:55	"Late onset Gilbert Syndrome in a 71-year-old male: a diagnostic challenge in unexplained hyperbilirubinemia" - Bisera Stojkovska
13:55 - 14:05	"Episodes of Atrial Fibrillation and Meteorological Conditions - A Case Report" - Maja Mihajlovska
14:05 - 14:20	Treatment of functional constipation in children: Re-Evaluating Approaches - Ass. Prof. Marija Dimitrovska Ivanova, MD, PhD
14:20 - 14:30	"The Three Strikes of Mycotic Aneurysm: A Surgical Saga" - Ana Marija Minova
14:30 - 14:40	"Challenge in diagnosis of Cow's milk protein allergy in children" - Anastasija Atanasoska
14:40 - 15:00	Coffee break

15:15 - 16:15

Poster Session 2

1. **Spontaneous Cervical Epidural Hematoma in a Patient on Anticoagulant Therapy – Therapeutic Approach** – Bojan Sutinoski
2. **Bilateral Synchronous Squamous Cell Lung Carcinoma: A Case Report** – Galena Arizankoska
3. **Low-grade endometrial stromal sarcoma, a diagnostic and therapeutic challenge** – Martina Popzlatanova
4. **Psoriasis as a dermatological prodrome of metabolic syndrome and cardiovascular risk** – Sara Veselinovska
5. **Congenital cholestasis – a diagnostic challenge** – Bojana Kacarova
6. **Immunogenetic aspects of type 1 interferonopathies** – Ana Spasova
7. **Post-pandemic health strategies: Education and assistance to patients after COVID-19** – Nadja Sopova
8. **ACL Ligamentoplasty with High Tibial Osteotomy (HTO)** – Izabela Kolevska
9. **Developmental monitoring of extreme prematurity and treatments-**
Stefanija Najdenovska
10. **Ethical Dilemmas and Multidisciplinary Perspectives in Reproduction: A Comparative Case Study with the Life Cycle of Thyme (Thymus spp.)** – Jovan Spasovski
11. **Prostate cancer with bone metastases** – Ivana Ilisheva
12. **Psycho-Cardiology: The Link Between Psychological Resilience, Allostatic Load, and Cardiovascular Health** – Melis Hazal Bektaş
13. **Analysis of the treatment of patients with diabetic foot and the nurse's role** – Martina Milkovic
14. **Negative pressure therapy for chronic wounds** – Ivana Stojanovska

16:30 - 18:30	Workshops - Day 2
Room 1	Decoding life's rhythm: Rapid ECG diagnostic, echocardiogram and doppler ultrasound of the extremities - Ivan Milev, MD, Radojka Trajkovska, MD, Slavica Jordanova, MD, Kristijan Zivkov, MD & Ljupce Ristov, MD (Cardio Art)
Room 2	Take a swab to save a life - Prof. Mirko Spiroski, MD, PhD
Room 4	Physical and psychological preparation of the mother and assessment of the newborn: Synergy in childbirth - Prim. Spec. Donco Dervisov MD & Sanja Nikolova (Dr. Organdziski Hospital)
Room 5	Nasal endoscopy in clinical practice - Nikolce Markoski, MD & Blagoj Kocev, MD (Re-medika Hospital)
Room 6	Critical Moments: Hands-On Workshop in Anesthesia and Resuscitation - Prof. Biljana Eftimova, MD, PhD; Martin Lazarevski, MD, Marjan Mihailov, MD, Natali Delipetrova, MD
21:00	Gala Night - Sabatini Lounge Bar

PLENARY SPEAKERS

- 1 **Ass. Prof. Korenelija Trajkova MD, PhD**
Vaginal microbiome and HPV interplay or coincidence?
- 2 **Ass. Prof. Aleksandar Trajanovski MD, PhD**
Open fractures
- 3 **Kamelija Simeonova, MD**
Shadows of Survival: Decoding Trauma's Lasting Legacy
- 4 **Ass. Prof. Maja Mojsova Mijovska, MD, PhD**
Initial assessment and management of pediatric polytrauma patients
- 5 **Prof. Andrej Petrov, MD, PhD**
Lasers in esthetic dermatology
- 6 **Ass. Prof. Oliver Busletik, MD, PhD**
Transcatheter Aortic Valve Implantation (TAVI): Present and Future
- 7 **Prim. Spec. Maja Kirjas, MD**
Multidisciplinary Approach to Sleep Apnea
- 8 **Ass. Prof. Zorica Nanovik, MD, PhD**
Spectrum of Mycobacterium tuberculosis infection:
a clinical and epidemiological challenge to binary classification
- 9 **Ass. Prof. Marija Karakolevska Ilova, MD, PhD**
The Future of Precision Oncology
- 10 **Ass. Prof. Elena Joveva, MD, PhD**
Headache Disorders: Classification and Approach to Management
- 11 **Prof. Natasa Davceva, MD, PhD**
Medical malpractice and conditions in medicine
that lead to the occurrence of medical error
- 12 **Stefan Juricic, MD, PhD**
Recanalization of chronic total occlusions of coronary arteries
- a fundamental indication
- 13 **Prof. Jozef Sidlo, MD, PhD**
Forensic neuropathology from the autopsy practice point of view
- 14 **Ass. Prof. Marija Dimitrovska Ivanova, MD, PhD**
Treatment of functional constipation in children:
Re-Evaluating Approaches