

47.

ŠTUDENTSKÁ VEDECKÁ KONFERENCIA JLF UK V MARTINE

22. apríla 2026
PROGRAM



JESSEIOVA LEKÁRSKA
FAKULTA V MARTINE
Univerzita Komenského
v Bratislave



ŠVOČ
JESSEIOVA LEKÁRSKA FAKULTA UK V MARTINE
WWW.SVOC.JLFUK.SK



VÚB BANKA
Intesa Sanpaolo Group

RANDOX



NOVARTIS

MTEC

CONGRESS COMMITTEE

Prof. Andrea Čalkovská, MD., DrSc.

Dean

Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

Prof. Štefan Sivák, MD., PhD.

First Vice-Dean and Vice-Dean for Research, Science Development,
and Postgraduate Study

Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

Assoc. Prof. Michal Šimera, RNDr., PhD.

Chairman of the Organization Committee of the Student Scientific Conference

ORGANIZATION COMMITTEE

Ľubica Bánovčinová, MS., PhD.

Tomáš Buday, MD., PhD.

Ivan Farský, MS., PhD.

Prof. Štefan Sivák, MD., PhD.

Prof. Juraj Mokrá, MD., MS., PhD.

Assoc. Prof. Michal Šimera, RNDr., PhD.

Pavol Mikolka, RNDr., PhD.

Marcel Veterník, M.Eng., PhD.

Denisa Beriková, MS.

Language: Slovak, Czech, or English

Section of Clinical Disciplines 1 (Aula A, 08.15 – 10.15)

1. DONOR-DERIVED CELL-FREE DNA IN ALLOGRAFT REJECTION DIAGNOSTICS

Martin Beňadik, Andrej Kollár, Andrej Čereš, Ivana Dedinská

Clinic of Internal Medicine I, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

Transplant and Nephrology Department, University Hospital Martin

2. METABOLIC COMORBIDITIES ASSOCIATED WITH PSORIASIS

Laura Bernoláková, Karolína Vorčáková

Department of Dermatovenereology, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

3. T-CELL PHENOTYPING AS A MARKER OF IMMUNE RECONSTITUTION AFTER HEMATOPOIETIC STEM CELL TRANSPLANTATION

Mária Dučáková¹, Martina Schniederová¹, Anna Ružinák Bobčáková^{1,2,3}, Miloš Jeseňák^{1,2,3}

¹Institute of Clinical Immunology and Medical Genetics, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

²Department of Pediatrics and Adolescent Medicine, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

³Department of Pulmonology and Phthisiology, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

4. EPIDEMIOLOGICAL AND RISK FACTORS OF MALIGNANT MELANOMA

Anna Hrašková, Eva Minariková

Department of Dermatovenereology, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

5. AN ASSOCIATION BETWEEN SELECTED BIOCHEMICAL PARAMETERS AND COMPENSATION OF TYPE 1 DIABETES IN CHILDHOOD

Terézia Hucíková, Jarmila Vojtková

Department of Children and Adolescents, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

6. CLINICAL AND LABORATORY CHARACTERISTICS OF PEDIATRIC PATIENTS WITH PFAPA DURING COLCHICINE TREATMENT

Lívia Janíková, Anna Ružinák Bobčáková

Department of Clinical Immunology and Medical Genetics, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

- 7. MANAGEMENT OF PERSISTENT PATENT DUCTUS ARTERIOSUS IN THE IMMATURE NEONATE**
Sofia Javornícka, Tomáš Jurko
Clinic of Neonatology, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
- 8. EVALUATION OF FATIGUE IN PATIENTS WITH MULTIPLE SCLEROSIS**
Veronika Langová, Ema Kantorová
Clinic of Neurology, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
- 9. PROPORTION AND SPECTRUM OF GENETIC DIAGNOSES IN HOSPITALIZED PEDIATRIC PATIENTS: A RETROSPECTIVE EPIDEMIOLOGICAL ANALYSIS AT THE DEPARTMENT OF PAEDIATRICS AND ADOLESCENT MEDICINE JFMED CU AND UH MARTIN**
Lucia Macková, Adam Markocsy
Institute of Clinical Immunology and Medical Genetics, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
- 10. SLEEP DISORDERS CONTRIBUTING TO IMPAIRED EPILEPSY MANAGEMENT**
Amira Musová, Egon Kurča, Daniela Fedáková
Clinic of Neurology, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
- 11. PREVALENCE OF BURNOUT SYNDROME AMONG STUDENTS OF THE JESSENIUS FACULTY OF MEDICINE IN MARTIN, COMENIUS UNIVERSITY BRATISLAVA – BEFORE ENTERING EMPLOYMENT**
Petra Pažická, Jana Bajaj, Oto Osina
Clinic of Occupational Medicine and Toxicology, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
- 12. ANTITHROMBIN DEFICIENCY REGISTRY IN SLOVAKIA**
Kristián Sitár, Lucia Stančiaková
Department of Haematology and Transfusion Medicine, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

coffee break

Section of Clinical Disciplines 2 (Aula A, 10.30 – 12.00)

1. SURVIVAL OF PATIENTS WITH NON-MUSCLE INVASIVE BLADDER CANCER

Tibor Blaha, Róbert Dušenka

Department of Urology, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

2. ANALYSIS OF PARAMETERS OF GASTROESOPHAGEAL REFLUX AFTER PERORAL ENDOSCOPIC MYOTOMY (SYSTEMATIC REVIEW AND META-ANALYSIS)

Barbora Bôžeková¹, Martin Ďuriček¹, Jakub Hoferica^{1,2}, Štefan Plutko¹, Branislav Malý¹, Peter Bánovčin¹

¹Clinic of Internal Medicine – Gastroenterology, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

²Centre for Translational Medicine, Semmelweis University, Budapest, Hungary

3. MULTIFACTORIAL ANALYSIS OF SUDDEN AND UNEXPECTED DEATHS FROM CARDIOVASCULAR CAUSES IN THE CATCHMENT AREA OF ÚSLaME AND SLaPa IN MARTIN (2015-2025)

Tatiana Florková, Paulína Martináková

Department of Forensic Medicine and Medicolegal Expertise, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

4. ANATOMICAL VARIABILITY OF THE MIDDLE EAR: CADAVERIC AND CT CORRELATION

Kristína Gaňová, Darina Bajsová, Vladimír Čalkovský

Clinic of Otorhinolaryngology and Head and Neck Surgery, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

5. UTILIZATION OF MULTIPARAMETRIC MRI IN THE DIAGNOSIS AND STAGING OF PROSTATE CANCER

Valerián Kuffa, Róbert Dušenka

Department of Urology, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

6. COMPLICATIONS ASSOCIATED WITH STRABISMUS SURGERY

Michaela Meliorisová, Marta Karhanová

Department of Ophthalmology, Faculty of Medicine and Dentistry, Palacký University and University Hospital Olomouc

7. OPTIMIZATION OF MOLECULAR BIOLOGY METHODS FOR DETERMINING THE POST-MORTEM INTERVAL IN FORENSIC MEDICINE

Iryna Samec¹, Marek Samec², Ivana Baranová³, Richard Sivulič¹

¹Department of Forensic Medicine and Medicolegal Expertise, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

²Department of Medical Biology, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

³Department of Pathological Physiology, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

8. SENTINEL LYMPH NODE ASSESSMENT IN BREAST CANCER

Vanesa Terenová, Diana Musová, Marek Smolár

Clinic of General, Visceral, and Transplant Surgery, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

9. PRESENCE OF TYPICAL SIGNS OF BURNING IN CASES EXAMINED BY THE DEPARTMENT OF FORENSIC MEDICINE IN MARTIN (2020-2024)

Michal Vyparina, Veronika Rybárová

Department of Forensic Medicine and Medicolegal Expertise, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

coffee break

UpToDate Advanced AI Enhanced Search (Aula A, 12.15 – 12.45)

Section of Pre-Clinical Disciplines (Aula A, 12.45 – 14.15)

1. A VACCINIUM CORYMBOSUM (CV. CHANDLER)-DERIVED COMPLEX ATTENUATES COUGH AND CHOLINERGIC BRONCHOCONSTRICTION IN OVALBUMIN-INDUCED AIRWAY INFLAMMATION

Lucia Cipková¹, Martina Šutovská¹

¹Department of Pharmacology, Biomedical Center Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

²Institute of Chemistry, Slovak Academy of Sciences, Center for Glycomics

2. **TUMOR-EDUCATED PLATELETS AS A POTENTIAL BIOMARKER FOR DETECTION OF PANCREATIC CANCER**
Ema Mišovicová, Erika Halašová, Mária Škereňová
Biomedical Centre Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
3. **NEUTROPHIL TO LYMPHOCYTE RATIO - A PROMISING MARKER FOR MENTAL HEALTH ASSESSMENT?**
Adriana Novotná¹, Zuzana Višňovcová¹, Nikola Ferencová^{1,2}, Ingrid Tonhajzerová²
¹Biomedical Centre Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
²Department of Physiology, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
4. **ROLE OF KIR6.2 IN CALCIUM HOMEOSTASIS AND MITOCHONDRIAL DYNAMICS IN A NEURONAL MODEL OF PARKINSON'S DISEASE**
Okruhlica Ivan¹, Evinová Andrea², Pokusa Michal²
¹Department of Pathological Physiology, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
²Biomedical centre Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
5. **ISOLATION OF INDUCED PLURIPOTENT STEM CELLS TO STUDY PATHOLOGY OF MALIGNANT MELANOMA**
Martin Rehák¹, Ján Strnád¹, Olga Chodelková²
¹Biomedical Centre Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
²Department of Medical Biochemistry, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
6. **PROGNOSTIC AND PREDICTIVE BIOMARKERS OF PANCREATIC CANCER**
Martin Tomčík¹, Beatrice Mohelníková Duchoňová²
¹Faculty of Medicine and Dentistry, Palacky University Olomouc
²Department of Oncology, Faculty of Medicine and Dentistry, Palacky University Olomouc and University Hospital Olomouc

7. OPTIMIZATION OF A qPCR WORKFLOW AS A TOOL FOR INVESTIGATING THE MOLECULAR MECHANISM OF STAPHYLOCOCCUS AUREUS-INDUCED ACTIVATION OF PRURICEPTORS

Barbora Vajglová, Ivana Baranová, Danica Jurčáková

Department of Pathological Physiology, Jessenius Faculty of Medicine in Martin,
Comenius University Bratislava

8. NEURO-IMMUNE PROFILE OF ADOLESCENTS WITH AUTISM SPECTRUM DISORDER AND ATTENTION-DEFICIT/HYPERACTIVITY DISORDER: A PERIPHERAL BIOMARKER PERSPECTIVE

Dagmar Wágnerová¹, Nikola Ferencová^{1,2}, Zuzana Višňovcová², Igor Ondrejka³, Ingrid Tonhajzerová¹

¹Department of Physiology, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

²Biomedical Centre Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

³Psychiatric Clinic, University Hospital Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

coffee break

The Future of Evidence Discovery with Artificial Intelligence
(Aula A, 14.30 – 15.00)

Section of Public Health (Aula B, 08.15 – 10.15)

1. INCIDENCE OF SELECTED INFECTIOUS DISEASES BEFORE, DURING AND AFTER THE COVID-19 PANDEMIC

Richard Bachmann, Jana Zibolenová

Department of Public Health, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

2. RISK ASSESSMENT OF LEAD EXPOSURE FROM HOMEMADE SPIRITS INTENDED FOR OWN CONSUMPTION

Michaela Dutková, Mária Tatarková

Department of Public Health, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

3. MICROBIOLOGICAL DIAGNOSTICS OF CONTAMINANTS IN THE ENVIRONMENT

Andrea Goldbergerová, Martin Novák

Department of Public Health, Jessenius Faculty of Medicine in Martin, Comenius University
Bratislava

4. COMPLIANCE WITH THE FIVE MOMENTS FOR HAND HYGIENE PRIOR TO CLIENT ASEPTIC PROCEDURES – AN OBSERVATIONAL STUDY

Nikola Chalúpková, Simona Kelčíková

Department of Public Health, Jessenius Faculty of Medicine in Martin, Comenius University
Bratislava

5. DETERMINING THE PREVALENCE OF BURNOUT SYNDROME AMONG HEALTHCARE WORKERS

Adela Jankajová, Romana Ulbrichtová

Department of Public Health, Jessenius Faculty of Medicine in Martin, Comenius University
Bratislava

6. CONSUMPTION OF CAFFEINATED BEVERAGES AMONG ATHLETES

Kristína Molčanová, Eva Malobická

Department of Public Health, Jessenius Faculty of Medicine in Martin, Comenius University
Bratislava

7. ERGONOMICS IN THE DIGITAL ERA: RISK ANALYSIS OF WORKING WITH DISPLAY UNITS

Veronika Muhová, Romana Ulbrichtová

Department of Public Health, Jessenius Faculty of Medicine in Martin, Comenius University
Bratislava

8. PREVENTION OF MALARIA IN TRAVELLERS FROM SLOVAKIA

Terézia Salinková, Tibor Baška

Department of Public Health, Jessenius Faculty of Medicine in Martin, Comenius University
Bratislava

9. UTILIZATION OF ATOMIC ABSORPTION SPECTROMETRY IN A GRAPHITE FURNACE FOR THE DETERMINATION OF ARSENIC IN WELL WATER

Adam Šulák, Martin Novák

Department of Public Health, Jessenius Faculty of Medicine in Martin, Comenius University
Bratislava

10. EMPLOYMENT OF SPA TREATMENT IN A PREVENTION OF HEALTH-SOCIAL IMPACTS OF SELECTED DISEASES

Michaela Zakuťanská, Tibor Baška

Department of Public Health, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

11. OCCURRENCE OF TICK-BORNE ENCEPHALITIS AND LYME DISEASE IN SLOVAKIA

Kamila Žáčiková, Eva Malobická

Department of Public Health, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

coffee break

Section of Theoretical Disciplines (Aula B, 10.30 – 12.00)

1. EVALUATION OF TEACHING METHODS IN MUSCULOSKELETAL ANATOMY: VIRTUAL DISSECTION TABLE VERSUS 3D MODELS

Adam Gbúr, Katarína Lešková

Department of Anatomy, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

2. CARDIOVASCULAR AND RESPIRATORY SYSTEM RESPONSE TO ASMR VIDEOS

Nikolas Jankal¹, Barbora Czippelová², Zuzana Turianiková², Michal Javorka¹

¹Department of Physiology, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

²Biomedical Centre Martin, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

3. FIRST EVALUATION OF ANTITUSSIVE EFFECTS OF A NEW BUTAMIRATE ANALOGUE – ELECTROPHYSIOLOGICAL STUDY

Marek Lahey, Michal Šimera¹, Jozef Csöllei², Soňa Fraňová³, Ivan Poliaček¹

¹Department of Medical Biophysics, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

²Department of Chemical Drugs, Faculty of Pharmacy, Masaryk University, Brno, Czech Republic

³Department of Pharmacology, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

4. **DESIGN AND DEVELOPMENT OF A MOBILE APP FOR PLURILINGUAL FOREIGN LANGUAGE AND MEDICAL TERMINOLOGY LEARNING USING AI**
Daniel Marčok, Anna Barnau
Department of Foreign Languages, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
5. **CEREBRAL ISCHEMIA AND REPERFUSION INJURY OF EXPERIMENTAL ANIMALS OF BOTH SEXES IN ACUTE, SUBACUTE, AND CHRONIC STAGES**
Matúš Pántik, Mária Kovalská
Department of Histology and Embryology, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
6. **EXPERIMENTALLY INDUCED HISTOLOGICAL AND COGNITIVE CHANGES IN THE BRAIN AFTER EXPOSURE TO IONIZING RADIATION**
Jakub Rendvanský, Soňa Báľentová
Department of Histology and Embryology, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
7. **EXPERIMENTAL MODEL OF NEONATAL RESPIRATORY DISTRESS SYNDROME: PROTOCOL STANDARDIZATION**
Monika Ševčíková, Mária Zahurancová, Nikolett Nemcová, Pavol Mikolka
Department of Physiology, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava
8. **MODULATION OF HEART RATE VARIABILITY BY A 50 HZ MAGNETIC FIELD IN HEALTHY ADOLESCENTS**
Yehonatan Vasker, Ivan Kuchta, Jakub Míšek
Department of Medical Biophysics, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

coffee break

Section of Non-Medical Study Programmes (Aula B, 12.45 – 14.15)

1. **NURSES' EXPERIENCES WITH THEIR PROFESSIONAL DIGNITY: A QUALITATIVE STUDY**
Zuzana Bebjaková, Juraj Čáp
Department of Nursing, Jessenius Faculty of Medicine in Martin, Comenius University Bratislava

2. **PARENTAL BURNOUT AS A RISK FACTOR OF PLANNED PARENTHOOD**
Viktória Bógyiová, Ľubica Bánovčínová
Department of Midwifery, Jessenius Faculty of Medicine in Martin, Comenius University
Bratislava
3. **PERIOPERATIVE PRESSURE ULCER PREVENTION IN ORTHOPEDIC AND TRAUMATOLOGIC PATIENTS**
Simona Handrová, Edita Hlinková
Department of Nursing, Jessenius Faculty of Medicine in Martin, Comenius University
Bratislava
4. **THE PRESENCE OF A DOULA DURING CHILDBIRTH FROM THE PERSPECTIVE OF MIDWIVES AND MOTHERS**
Rebeka Iláčiková, Eva Urbanová
Department of Midwifery, Jessenius Faculty of Medicine in Martin, Comenius University
Bratislava
5. **ATTITUDES OF PREGNANT WOMEN TOWARDS PERFORMING A CAESAREAN SECTION AT THE PATIENT'S REQUEST**
Tamara Marcinová, Barbora Ďuričková
Department of Midwifery, Jessenius Faculty of Medicine in Martin, Comenius University
Bratislava
6. **STRATEGIES FOR OVERCOMING COMMUNICATION CHALLENGES IN A MULTILINGUAL HEALTHCARE ENVIRONMENT**
Radka Passiová¹, Anna Barnau²
¹Department of Nursing, Jessenius Faculty of Medicine in Martin, Comenius University
Bratislava
²Department of Foreign Languages, University Hospital Martin, Jessenius Faculty of
Medicine in Martin, Comenius University Bratislava
7. **WOMEN'S SEXUAL HEALTH IN THE CONTEXT OF MIDWIVES' WORK**
Katarína Saraková, Eva Urbanová
Department of Midwifery, Jessenius Faculty of Medicine in Martin, Comenius University
Bratislava
8. **PATIENT SATISFACTION IN LONG-TERM CARE FACILITIES**
Nina Šimičáková, Radka Kurucová
Department of Nursing, Jessenius Faculty of Medicine in Martin, Comenius University
Bratislava

Awards ceremony (Aula A, 15.00)

TITLE SPONZORS



Wolters Kluwer



NOVARTIS



VÚB BANKA
Intesa Sanpaolo Group



PRESENTING SPONZORS



martinus

RANDOX

Mixxer Medical



ŠVOČ
JESSEŇOVA LEKÁRSKA FAKULTA UK V MARTINE
WWW.SVOC.JLFUK.SK

IdeaPrint