



Proceedings of the Latvian Academy of Sciences, Section B
<https://sciendo.com/journal/PROLAS>

25 April 2025

International Scientific Conference on Medicine and Health Sciences

House of Science, Jelgavas street 3, Riga

PROGRAM OVERVIEW

8.30-9.00	Registration	Entrance
9.00-9.45	Opening speech - University of Latvia Asoc. prof. Guntars Kitenbergs - Vice-Rector for Research Prof. Mārcis Leja - Chair of the organising committee	Hall Alfa
	Johan Rung, Uppsala University, Sweden Digital infrastructure services for FAIR life science	

ORAL PRESENTATIONS

10.00-12.00	Public Health and Epidemiology	105
	Pharmacy	207
	Basic Medical Science	401
	Neurology and Nursing	725
	Paediatrics, Gynaecology and Obstetrics	106
	Mental Health	205
12.00-13.30	Coffee break	103/104
12.15-13.45	Meet the expert: pediatric cardiology cases	317
13.30-15.30	Cardiovascular and Internal Medicine	205
	Internal Medicine	401
	Ophthalmology	725
	Surgery, Traumatology and Orthopaedics	207
	Anaesthesiology and Reanimatology	105
	Oncology	106

POSTER PRESENTATIONS

12.00-13.30	Public Health and Epidemiology	Atrium 2nd floor
	Basic Medical Science	
	Neurology and Nursing	
	Paediatrics, Gynaecology and Obstetrics	
	Mental Health	
	Cardiovascular and Internal Medicine	
	Internal Medicine	
	Ophthalmology	
	Surgery, Traumatology and Orthopaedics	
	Anaesthesiology and Reanimatology	
	Oncology	

Public Health and Epidemiology

Room 105

Session moderators: Liliāna Civjāne, Signe Mežinska

10:00 Oral presentations

(each presentation = 7 minutes + 3 minutes for discussion)

1. Association Between Travel Time to Hospital and 30-Day Mortality After Acute Stroke and Myocardial Infarction in Latvia
Laura Čerāne-Šillere, Juris Bārzdīņš
2. CPR Readiness Among Medical College Students
Reinis Upenieks, Leonīds Afremovičs
3. Dietary patterns and biomarkers correlations in overweight and obese individuals
Marina Arisova, **Guna Bīlande**, Sofija Ivanova, Aleksejs Fedulovs, Sabīnes Skrebinska, Jeļizaveta Sokolovska, Zane Šmite
4. Factors Related to Medication Adherence in Multimorbid Patients in Gulbene and Riga
Diana Paberza, Līva Mača
5. Importance and effectiveness of the prostate cancer screening method in family physician practice
Jekaterina Bogdanova
6. Patients' Perspectives on Patient Rights in Latvia: From Awareness to Implementation and Strengthening
Signe Mežinska, Pēteris Ersts, Ilze Mileiko, Liliāna Civjāne, Eva Šteina
7. Self-monitoring of health indicators and lifestyle of LUHS students using smart technologies
Kregždītē Rima, Kivilšienē Vilma
8. The attitude to vaccination in schoolchildren aged 10 to 19 years
Birute Strukcinskiene, Jurgaitis Jonas Grigoliene Rasa, Martisauskiene Dalia, Steponkus Darius, Genowska Agnieszka
9. The Psychological Effects of Social Media Exposure on the Psychological Effects of Social Media Exposure on Latvian University Students During the War in Ukraine
Marshall Osundu, **Romualds Ražuks**

Pharmacy

Room 207

Session moderators: Vadims Parfejevs, Jānis Stāvusis

10:00 Oral presentations

(each presentation = 7 minutes + 3 minutes for discussion)

1. Comparative Analysis of Characteristics Between Traditional and 3D-Printed Gummy Tablets
Emilija Nemickaitė, Jurga Bernatoniene
2. Evaluation of the efficacy of somatotropin-containing preservative solution in protecting isolated porcine kidneys for transplantation
Aneta Ostróžka-Ciešlik, Barbara Dolińska, Florian Ryszka
3. Nettle extract impact on mitochondrial oxidation in NAFLD HepG2 model
Beatriše Luīze Revina, Evita Bugaja, Baiba Jansone, Kaspars Jēkabsons, Ruta Muceniece, Jana Namniece, Sandra Treide
4. The Effect of Hyperoside on Superoxide Dismutase (SOD) Activity in Mice Brain and Liver
Digna Narkevičiūtė, Arūnas Liekis, Ilona Sadauskienė, Asta Kubilienė
5. The Effect of Licorice (*Glycyrrhiza glabra* L.) Extract on Glutathione in Mice Liver and Brain
Agnė Varnaitė, Asta Kubilienė, Arūnas Liekis, Ilona Sadauskienė
6. Aptamer selection towards *Plasmodium vivax* lactate dehydrogenase and validation of sequences
Laura Osīte, Līga Kunrade, Karīna Goluba, Eva Baldrich Rubio, Una Riekstina
7. Disposal Practices for Unused and Expired Medications among Pharmacy Customers
Jānis Gailāns, Līgita Kukule
8. Ethnopharmacy and the Therapeutic Potential of Clays
Ugis Eismonts, Andrejs Grinbergs, Ingars Reinholds, Valdis Seglins
9. Evaluation of chemotherapy drug efficacy in a PDAC organ-on-a-chip model
Karīna Goluba, Vadims Parfejevs, Evita Rostoka, Līga Kunrade, Kaspars Jēkabsons, Ilze Blake, Roberts Rimša, Una Riekstina
10. Expanded analysis of the antiviral effects of *Sambucus nigra* L. extracts against SARS-CoV-2 in Calu3 and Vero E6 cells
Eva E. Morozova, Dace Pjanova, Ramona Petrovska, Anete Boroduske
11. The effects of oregonin and nonsteroidal anti-inflammatory drug nimesulide on the β -amyloid fragment aggregation in vitro
Anastasija Nevolska, Ruta Muceniece, Zane Dzirkale

Basic Medical Science

Room 401

Session moderators: Nikoljas Sjakste, Elīna Leonova

10:00 Oral presentations

(each presentation = 7 minutes + 3 minutes for discussion)

1. Extraction and purification of Omega-3 fatty acids from microalgae biomass
Kristaps Erglis, **Laura Balode**, Andrejs Erglis, Alberts Gailis, Eriks Jakobsons, Inese Maurina, Indriķis Muiznieks, Liene Patetko, Janis Romanovskis
2. Experimental acute mesenteric ischemia in rats induces oxidative stress in kidneys
Baiba Jansone, Olga Lapeko, Ruta Muceniece, Rita Sizova, **Melisa Vandāne**, Olafs Volrāts
3. Exploring the role of HLA locus polymorphisms in multiple sclerosis treatment efficacy
Samanta Pļaviņa, Jolanta Kalnina, Daniela Malakovska, Natalia Paramonova, Jegors Paramonovs, Nikolajs Sjakste, Ilva Trapiņa
4. Immunohistochemical Signatures of Zone-Specificity in Alcohol-Induced Liver Damage
Anda Upane, Šimons Svirskis, Sandra Skuja
5. Impact of GC gene polymorphisms (rs7041 and rs4588) on multiple sclerosis treatment outcomes in the Latvian cohort
Jegors Paramonovs, Ilva Trapiņa, Samanta Pļaviņa, Daniela Malakovska, Jolanta Kalnina, Nikolajs Sjakste, Natalia Paramonova
6. Impact of VDR Gene polymorphisms on multiple sclerosis therapy outcomes in the Latvian cohort
Elina Leonova, Ilva Trapiņa, Samanta Pļaviņa, Jegors Paramonovs, Daniela Malakovska, Jolanta Kalnina, Nikolajs Sjakste, Natalia Paramonova
7. Microbiological findings for smartwatch wearers
Rūta Melbārde-Vāvere, Elvīra Lavrinoviča, Līga Preize
8. Overview of genetic causes of patients with congenital ichthyosis: single centre experience
Gabrielē Neverauskaitē, Vesta Kučinskienē, Rasa Traberg
9. Pathogens of periprosthetic joint infections, their virulence factors, and susceptibility to antibacterial agents
Ernests Žvīgurs, Edvarts Mežulis, Dana Sproge, Dace Vīgante, Iveta Līduma
10. The most frequent HLA alleles in population of Latvia: A pilot study
Raitis Pečulis, Robins Tiltniš, Vita Rovīte, **Una Riekstina**

Neurology and Nursing

Room 725

Session moderators: Igors Ivanovs, Jolanta Kalniņa

10:00 Oral presentations

(each presentation = 7 minutes + 3 minutes for discussion)

1. Analyzing Adverse Outcomes in Adult CNS Tumor Patients Treated with Procarbazine, Lomustine, and Vincristine (PCV) Chemotherapy
Ritvars Nikolājevs, Sigita Hasnere, Nityanand Jain
2. Genetic Predictors of Pituitary Adenoma Invasiveness in Females: Insights from CXCL12 Polymorphisms
Monika Duseikaite, Greta Gedvilaite-Vaicechauskiene, Arimantas Tamasauskas, Rasa Liutkeviciene
3. Identifying risk factors for haemorrhagic transformation after EVT in acute ischemic stroke
Roberts Šamanskis, Maija Radziņa, Arturs Balodis, Kristaps Jurjāns, Kārlis Kupčs, Dagnija Grabovska, Arvīds Bušs, Madara Ratniece, Arta Grosmane, Anastasija Solodjankina
4. Impact of pE3Aβ Immunization on Cognition, Amyloid-beta and Pyroglutamatized Amyloid Load in a Transgenic Mouse Model of Alzheimer's Disease
Jelizaveta Kotova, Vladimirs Pilipenko, Ilva Lieknina, Beatrise Luīze Revina, Jolanta Upīte, Kaspars Tārs, Baiba Jansone
5. The reliability of magnetic resonance imaging in evaluating treatment outcomes and complications of primary brain tumors
Katrīna Daniela Gritāne, Madara Mikijanska
6. Effects of stress on learning motivation and vitality of nursing students
Kamile Ingelevič, Oksana Misiūnienė, Stanislav Sabaliauskas
7. Factors affecting self-care in the early postoperative period after distal metaphysis of the radius fracture
Agnese Vinčele, Evija Bakša-Zveja
8. Management and prevention of violence experienced by nurses from patients and their relatives
Kamilė Gailienė, Natalja Istomina, Rita Urbanavičė

Paediatrics, Gynaecology and Obstetrics

Room 106

Session moderators: Ingrida Rumba-Rozenfelde, Stanislav Ovrutskiy

State of art lecture

Long term follow up after Fontan-Operation. Guidelines and perspectives.
Stanislav Ovrutskiy, Deutsches Herzzentrum der Charité, Department of
Congenital Heart Disease, University of Latvia

10:10 Oral presentations

(each presentation = 7 minutes + 3 minutes for discussion)

1. Initial experience with the Fontan procedure in Latvia
Luize Auzina, Baiba Matsate-Matsone, Elina Ligere, Emils Smitins, Inga Lace, Inguna Lubaua, Inta Bergmane, Lauris Smits, Pauls Silis, Stanislav Ovrutskiy, Valts Ozolins
2. Major Shifts in Gut Microbiota Following Concomitant Antimicrobial Therapy in Pediatric Patients
Ērika Bļinkova, Elīna Bērziņa, Dāvids Fridmanis, Dita Gudrā, Daugule Ilva, Larisa Zaharova, Margarita Zaharova
3. Pediatric Patients with Acute Laryngitis Transferred to the Regional Hospital in 2018 and in 2023 by the Emergency Medical Service
Ralfs Vasjutjonoks, **Ilze Kucina**
4. Premature babies with BPD (bronchopulmonary dysplasia) characteristics at BKUS (Children's Clinical University Hospital) in the period from 2019 to 2021.
Valērija Ivanovska
5. Prevalence of rare structured anomalies, 2009 – 2023
Irisa Zīle-Velika, Inguna Ebela, Zane Baltane, Inese Ledina, Gita Taurina, Madara Auzenbaha, Ingrida Rumba-Rozenfelde
6. Analysis of Birth Outcomes in Robson Group 2: The Role of Demographic and Clinical Factors
Natalja Vasika, Zane Krastiņa, Beāte Vītola, Beatrise Dinsberga
7. Colposcopic Findings in Patients with ASCUS Cytology: A Retrospective Analysis
Arta Ārsmeniece, Edvarts Mežulis, Margarita Puķīte
8. The association of reproductive factors and oral contraceptive use with the risk of developing endometriosis
Alīna Abramova, Margarita Puķīte

Mental Health

Room 205

Session moderators: Inta Zīle; Jeļena Vrubļevska

10:00 Oral presentations

(each presentation = 7 minutes + 3 minutes for discussion)

1. Demographic changes in self-harm-related hospitalizations at Hospital "Gintermuiža" over a 10-year period. 2014 versus 2024
Marta Gebele, Jelena Vrublevska
2. Incidence of depression among chronically ill patients
Dana Augustova, Ainis Dzalbs, **Diāna Vaidere**
3. Pilot Study on the Effectiveness of Dialectical Behavior Therapy for Adolescents in High-Risk Youth at the Children's Clinical University Hospital
Patrīcija Paula Priga, Laura Ķevere
4. Prevalence of alexithymia among patients diagnosed with anxiety disorders and depression at the National mental health center of Latvia: A pilot study
Anna Paula Spriedēja, Māris Taube
5. Primary emotional affective systems in out-patient psychotherapy patients with different levels and structures of personality organization
Jana Vībure, Inta Zīle
6. Sociodemographic Factors and Treatment Patterns of Inpatients Receiving Involuntary Treatment at National Center of Mental Health
Karīna Čerņika, Jeļizaveta Ivanova, Jelena Vrublevska
7. Stress, Burnout, and Moral Distress Among Pediatric Healthcare Professionals: A Cross - Sectional Study
Ērika Bļinkova, Anastasija Siča, Agija Tomme
8. Subjective feeling of loneliness and its relation to narcissistic personality traits and the habits of addiction inducing process and substance use: A pilot study
Laura Konrāde-Jilmaza, Velga Sudraba
9. The relationship between the use of psychoactive substances and recurrent depressive disorder in adolescents at the Children's Clinical University Hospital in the inpatient department of child psychiatry
Laura Justīne Bajāre, Laura Ķevere

Cardiovascular and Internal Medicine

Room 205

Session moderators: Sandra Jēgere, Jelizaveta Sokolovska

13.30 Oral presentations

(each presentation = 7 minutes + 3 minutes for discussion)

1. Association between vimentin, a new biomarker of atherosclerosis, and the degree of coronary atherosclerosis
Agnė Liuizė, Grytė Ramantauskaitė, Jolanta Laukaitienė, Viltė Gintauskienė, Aušra Mongirdienė
2. Clustering of continuous glucose monitoring data of individuals with overweight and obesity grade 1 reveals distinct phenotypes in relation to the grade of insulin resistance
Ēriks Vilunas, **Sofija Ivanova**, Aleksejs Fedulovs, Zane Šmite, Sabīne Skrebinska, Guna Bīlande, Marina Arisova, Jelizaveta Sokolovska, Leonora Pahirko
3. Continuous Glucose Monitoring in Individuals with Prediabetes Risk Factors: Data from the PRAESIIDIUM Study
Žanna Naumoveca, Sofija Ivanova, Aleksejs Fedulovs, Zane Šmite, Sabīne Skrebinska, Guna Bīlande, Marina Arisova, Jelizaveta Sokolovska
4. Extrahepatic autoimmune diseases prevalence in patients with autoimmune hepatic disease
Inese Muntjane, Aiga Stāka
5. Linkage Among NT-proBNP, NYHA Class and Mortality in Chronic Heart Failure: a Retrospective Study
Austėja Kaunaitė, Diana Žaliaduonytė
6. Machine learning-based analysis of BMI and HbA1c as determinants of diabetes risk
Jekaterina Andrejeva, Renārs Erts, Natalja Guiska, Jekaterina Kuzņecova, Aleksejs Meļkovs, Sandra Seimane
7. Panton-Valentin leukocidin gene prevalence in hospital-acquired Staphylococcus aureus strains in Vilnius, LT
Lilian Jenny Babette Schneider, Adam Misevič, Jolanta Miciulevičienė, Greta Vizujė, Maksim Bratchikov, Kotryna Ragalevičiūtė, Živilė Kučinskienė, Agnė Kirkliauskienė
8. Predicting atrial fibrillation using medication data: comparing logistic regression, neural networks, and decision tree models
Aleksejs Meļkovs, Renārs Erts, Natalja Guiska, Jekaterina Andrejeva, Sandra Seimane

9. Predicting factors of two stent strategy for true coronary bifurcation treatment
Anastasija Vasečko, Eva Bolsteina, Ieva Briede, Kristīne Dombrovska, Andis Dombrovskis, Andrejs Erglis, Sanda Jegere, Indulis Kumsars, Arnis Laduss, Gustavs Latkovskis, Aigars Lismanis, Inga Narbute, Ainars Rudzītis, Dace Sondore, Karlis Trusinskis
10. The role of case managers in Lithuanian primary healthcare: associations between healthcare visits and emotional well-being of multimorbid patients
Ausrine Kontrimiene, **Renata Paukštaitienė**, Ovidijus Vilčinskis, Lina Jaruševičienė, Vitalija Neverauske, Gediminas Urbonas, Leonas Valius, Olga Vasiliauskienė
11. Use of serum lipid values as a screening tool for early cognitive changes in cardiac patients
Natalja Guiska, Renārs Erts, Aleksejs Melņkovs, Jekaterina Andrejeva, Mitrijaikina Diāna, Sandra Seimane

Internal Medicine

Room 401

Session moderators: Valdis Pīrāgs, Aldis Puķītis

13.30 Oral presentations

(each presentation = 7 minutes + 3 minutes for discussion)

1. Evaluation of the effectiveness and possible influencing factors of acromegaly treatment within one year after the initiation of therapy at the Pauls Stradiņš Clinical University Hospital: a case series
Viktorija Preobražensk, Kristīne Geldnere
2. Assessing adherence to quality criteria and its impact on clinical outcomes in Staphylococcus aureus bacteremia: A Retrospective Study at a University Hospital
Liāna Linda Skrauča, Juta Nikiforova, Lauma Sprinģe, Uga Dumpis, Aija Vilde
3. Association of ANA patterns and scleroderma-associated antibodies with capillaroscopy patterns
Daina Andersone, Inita Buliņa, Kristīne Ivanova, **Sintija Kalvāne-Brokāne**
4. Characteristics of radiographic patterns and signs, autoantibodies profile and therapy for interstitial lung disease patients managed by multidisciplinary team in Latvia
Elīna Skaida, Daina Andersone, Inita Buliņa, Kristīne Ivanova, Zaiga Kravale,

Santa Miķēna, Ilze Priedīte, Pauls Rubins, Rūdolfs Vilde, Jūlija Zepa, Dace Žentīņa

5. Evaluation of Post-Transplantation Diabetes Mellitus in Kidney Transplant Recipient population: a Tertiary Care Center data
Emīlija Kostjukeviča, Inese Folkmane, Kristīne Geldhere
6. Implementation of weekly antibiotic ward rounds at the Clinical University Hospital of Latvia
Ieva Voita, Aija Vilde
7. In vitro activity of cefiderocol against *Acinetobacter baumannii* clinical isolates in a Vilnius (Lithuania) Hospital
Ho Yiu Sung, Liucija Pažarskytė, Jolanta Miciulevičienė, Živilė Kučinskienė, Agnė Kirkliauskienė
8. Prevalence of colorectal polyps, endoscopic approaches and outcomes
Natālija Murāne, Alise Vinogradova, Poļina Zaiļzko
9. Sensitization to Furry Animals: Diagnostic Challenges
Sandra Sakalauskaite, Edita Gasiuniene, Brigita Gradauskiene
10. The role of malnutrition, its prevalence and influencing factors in hemodialysis and peritoneal dialysis patients
Guna Una Jāzepa, Anna Jana Saulīte, Ilze Puide, Maija Motivāne

Ophthalmology

Room 725

Session moderators: Kristīne Baumanė, Gunta Blezūra-Ūdre

13.30 Oral presentations

(each presentation = 7 minutes + 3 minutes for discussion)

1. Analysis of diagnostic and management approach in acute corneal ulcers in eye emergency department in Riga East University Hospital
Eliza Briede, Kristine Baumanė, Onni-Tapani Kemilä
2. Changes in the Anterior Chamber Angle in Glaucoma Patients after Gonioscopy-Assisted Transluminal Trabeculotomy with a Polypropylene Suture in Phakic and Pseudophakic Eyes
Jūlija Meščerjakova, Kristine Baumanė, Gunta Blezura Udre
3. Correlation Between Visual Acuity and Retinal Anatomical Changes in Patients with Epiretinal Membrane after Pars Plana Vitrectomy
Daria Medvedeva, Kristīne Baumanė
4. Efficacy of Combined Therapy in Retinal Vein Thrombosis
Anastasija Koleda, Gunta Blezūra-Ūdre

5. Intraorbital Lymphomas: A Retrospective Analysis of Biopsy-Proven Cases at Riga East University Hospital (2020-2024)
Elina Runce, Iveta Mezatuca, Dineja Veinberga, Kristine Baumanė
6. Ophthalmic consequences of facial skeleton trauma
Kristine Baumanė, Arina Tupīte, **Jurijs Kosnarevičs**, Artjoms Tupits
7. Optical coherence tomography macular and peripapillary vascular differences in migraine patients
Elina Miglane, Kristine Baumanė
8. Patient satisfaction with Nd:YAG laser posterior capsulotomy treating secondary cataracts
Krista Fišere, Kristine Baumanė, Rita Požarska, Marks Smirnovs
9. Red reflex test for children under 5 years
Annemarija Čaikovska
10. The incidence of cataract surgery one year after different types of glaucoma surgery
Elias Filali, **Gunta Blezura-Udre**

Surgery, Traumatology and Orthopaedics

Room 207

Session moderators: Igors Ivanovs, Sergejs Zadorožņijs

13.30 Oral presentations

(each presentation = 7 minutes + 3 minutes for discussion)

1. Evaluation of the efficacy of transversus abdominis plane block for analgesia after abdominal surgery
Renārs Erts, Irina Evansa, **Jekaterina Kužņecova**, Sergejs Kļimčuks
2. Intraoperative diuresis activation after kidney graft revascularisation as a predictive marker for graft function in early post-operative period after kidney transplantation
Igors Losevs, Raimonds Funtis, Elizabete Anna Loseva, Simona Strumpe
3. Jejunal wall and kidney cortical zone histopathological damage caused by acute mesenteric ischemia (AMI) in rat model
Baiba Jansone, Ivars Melderis, Ruta Muceniece, Olafs Volrāts, **Divyaa Khosla**, Maris Kudrjasovs
4. Quality of Life after Minimally Invasive and Radical Pilonidal Sinus Surgery: Introducing a New Assessment Tool
Edvinas Dainius, Julija Garnyte, Monika Vaiciute
5. Cementless versus cemented femoral fixation in primary total hip arthroplasty of elderly patients with osteoarthritis: A retrospective review of intrahospital

complications rates

Kirills Kopiks, Sergejs Zadorožnijs

6. Restoration of Hand Function Through Flexor Carpi Ulnaris Transplantation: A Case Series

Karlis Krustins, Iveta Beinarovica, Martins Kapickis

7. The Impact of Body Mass and Fat Distribution on Lumbar Spine Degeneration: A Correlation Study Using MRI

Juliāns Girtciuss, Gundega Knipše

Anaesthesiology and Reanimatology

Room 105

Session moderators: Sigita Kazūne, Iveta Daukšte, Krista Apšeniece

13.30 Oral presentations

(each presentation = 7 minutes + 3 minutes for discussion)

1. Cefazolin Concentration in Intervertebral Discs in Multilevel Spine Surgery
Sofja Grundane, Repnikovs Aleksejs, Kazune Sigita, Briuks Kalvis, Bandere Dace, Paulausks Arturs, Mazurs Austris
2. Comparison of pain intensity using the verbal pain intensity scale and analgesia nociception index in patient with hip fracture and lumbar erector spine block
Aleksandra Liberte, Iveta Golubovska, Aleksejs Miščuks
3. Determining the duration of time needed for significant skin temperature changes after N.Ischiadicus block with thermography camera
Andrejs Zirnis, Everita Binde, Iveta Golubovska, Valērija Kopanceva, Aleksejs Miščuks, Uldis Rubīns, Valentīna Šļepiha
4. Differences in onset times of skin temperature changes after N.ischiadicus block for different local anesthetics as observed with thermography method.
Andrejs Zirnis, Everita Binde, Iveta Golubovska, Valērija Kopanceva, Aleksejs Miščuks, Uldis Rubīns, Valentīna Šļepiha
5. Does bupivacaine concentration affect the efficacy of parasternal block after cardiac surgery?
Edgars Prozorovskis, Dāvis Poliš, **Eva Strīķe**, Aleksejs Miščuks
6. Evaluation of invasive treatment for chronic pain using a termograph
Ineta Krūmiņa, Iveta Golubovska, Aleksejs Miščuks, Uldis Rubīns
7. Observational quality improvement study on the duration of preoperative fasting
Elza Romane, Sergejs Zadorožnijs, Iveta Golubovska

8. Postoperative pain intensity after sciatic nerve block, using 3 different local anesthetics
Everita Binde, Valērija Kopanceva, Valentīna Šļepiha, Andrejs Zirnis, Iveta Golubovska, Aleksejs Miščuks
9. Prevalence of dyspnoea in mechanically ventilated patients in Intensive care units
Ričards Rasums, Sigita Kazūne, Krišjānis Putka
10. Preventing Postoperative Delirium in Older Adults with Hip Fracture: A Randomized Controlled Trial of a Reorientation Intervention
Anastasija Lazdāne, Artjoms Homenko, Sigita Kazūne, Paula Mežvinska, Kellija Elizabete Vaitkuse, Gvido Kārlis Šķuburs

Oncology

Room 106

Session moderators: Mārcis Leja, Sergejs Isajevs

13.30 Oral presentations

(each presentation = 7 minutes + 3 minutes for discussion)

1. Effectiveness of induction chemotherapy in patients with oral cancer
Polina Gorjunova, Renārs Deksnis, Sofija Kaminska, Beāta Rozenšteina, Jānis Zariņš
2. Lymph node downstaging impact on progression free and overall survival in patients with locally advanced rectal cancer
Dace Brice, Elīna Sīviņa
3. Pathological response to neoadjuvant treatment in locally advanced rectal cancer
Marta Raita, Santa Maksimova
4. Progression-free survival in first-line chemotherapy for patients with metastatic prostate cancer at Pauls Stradiņš Clinical University Hospital from 2021 to 2023
Ņikita Ņikitins, Sigita Hasnere
5. Radiological assessment of sarcopenia in patients with third and fourth stage lung cancer who had received palliative chemotherapy during 2022-2023 at Pauls Stradins Clinical University Hospital
Sanija Raina Brenča, Anna Bubļikova, Sigita Hasnere, Dāvids Orlovs
6. Association Between Tumor-infiltrating lymphocytes and Miller-Payne Score in Breast Cancer Patients Receiving Neoadjuvant Chemotherapy
Anastasija Sica, Ērika Bļinkova, Ilze Engele, Tatjana Zablocka

7. De Novo and Nevus-Associated Melanomas histopathologic characteristics in young adults: a monocentric retrospective study (2018-2023)
Santa Ivanova, Simona Doniņa, Silva Seņkāne, Egija Vasilišina, Ieva Vidmane-Ozola
8. Histological subtypes of hereditary breast cancer in Pauls Stradiņš clinical university hospital in the period 2019-2024
Elīsa Balabka, Sigita Hasnere, Pēteris Loža, Ilona Piruška
9. Human immunodeficiency virus in patients with anal canal squamous cell carcinoma at Pauls Stradiņš Clinical University Hospital from 2018 to 2023
Alise Vinogradova, Natālija Murāne, Sigita Hasnere
10. Survival of patients undergoing fractionated radiotherapy and radiosurgery for brain metastases
Edvarts Mežulis, Ernests Žvīgurs, Arta Ārsmeniece, Gints Rausis

POSTER PRESENTATIONS

Public Health and Epidemiology

2nd floor atrium

12:00 Poster presentation

1. Age and Sex Patterns of Kidney Cancer Incidence in Kazakhstan: A 15-Year Analysis
Sergey Dyakov, Nurbek Igissin, Ivan Shishkin
2. Cancer of the female reproductive organs in Uzbekistan
Zulfiya Sabirdjanova, Asalat Isanbaev, Sayde Djanklich
3. Epidemiological aspects of cervical cancer in Uzbekistan
Sayde Djanklich, Mirzagaleb Tillyashaykhov, Shavkat Ibragimov, Olim Imamov, Alisher Berkinov, Venera Seitshayeva, Zulfiya Sabirdjanova, Umida Ismailova, Guzal Asrarova
4. Epidemiological Trends of Crohn's Disease and Ulcerative Colitis in Kazakhstan
Adil Salki, Nurbek Igissin, Rustem Moldagali, Nurymzhan Murzagulov, Ivan Shishkin
5. Geographic variability of rickets incidence in Kazakhstan
Karina Kozhakhmet, Zarina Bilyalova, Nurbek Igissin, Ivan Shishkin
6. Parents' Knowledge of Iron Deficiency Anemia in Children
Rihards Smilgins, **Ilze Kucina**

7. Prostate Cancer in Kazakhstan: Component Analysis of Incidence Dynamics
Nariman Yermek, Nurbek Igissin, Ivan Shishkin
8. Right to life and patient redress in fatal delirium cases – a retrospective case series analysis
Marina Losevica, **Karīna Konstantinova**, Aleksandrs Losevics, Larisa Svirska, Raitis Turkins
9. Statistical analysis of the dynamics of obesity in Kazakhstan for 2009-2018
Diaz Zhigitai, Zarina Bilyalova, Nurbek Igissin, Rustem Moldagali, Ivan Shishkin
10. Trends in prostate cancer incidence in Kazakhstan
Ivan Shishkin, Nariman Ermek, Nurbek Igissin
11. Trends in the Incidence of Tonsillar Diseases in Kazakhstan: A 10-Year Retrospective Analysis
Aruzhan Birlesova, Ivan Shishkin, Zarina Bilyalova, Nurbek Igissin

Basic Medical Science

2nd floor atrium

12:00 Poster presentation

12. Antimicrobial resistance patterns of *Pseudomonas Aeruginosa* and *Acinetobacter Baumannii* clinical isolates
Pāvels Pazjuks, Jūlija Blaževiča, Iveta Līduma, Angelina Oļeņa
13. Apoptosis in Kidneys Exposed to T-2 Mycotoxin: Immunolocalization of p53 and p21
Piret Hussar, Katerina Blagoevska, Monika Dovenska, Lazo Pendovski, Florina Popovska-Percinic
14. Assessment of suitability of natural hard tissue educational preparations by advanced estimates of their optical properties
Ana Kostenkova, Reda Cerapaitė-Trusinskienė, Algimantas Krisciukaitis, Greta Lodiene, Yuliia Onashko, **Robertas Petrolis**
15. Association of proteasome 20S Subunit Beta genes' polymorphisms with MS treatment results
Daniela Malakovska, Jolanta Kalnina, Natalia Paramonova, Jegors Paramonovs, Samanta Pļaviņa, Nikolajs Sjakste, Ilva Trapiņa
16. Data-driven learning approach used for segmentation of histological images
Robertas Petrolis, Dainius Janciauskas, Greta Karpaviciene, Vytautas Kiudelis, Algimantas Krisciukaitis, Renata Paukstaitiene, Rima Ramonaite
17. Detection of Multidrug Resistance and Encoding Genes in Microorganisms Isolated from Surgical Materials
Angelina Oļeņa, Pāvels Pazjuks, Iveta Līduma

18. Determination of antioxidant activity of *Prunus padus* L. flowers
Gabrielė Kulbokaitė, Kristina Zymonė
19. Study of proteasome gene polymorphisms as predictors of treatment outcomes in Latvian patients with multiple sclerosis
Madara Pūliņa-Cīne, Ilva Trapiņa, Samanta Pļaviņa, Jolanta Kalnina, Jegors Paramonovs, Daniela Malakovska, Nikolajs Sjakste, Natalia Paramonova

Neurology and Nursing

2nd floor atrium

12:00 Poster presentation

20. A pilot study investigating the comparative expression of NaV1.2 in the cerebellum and hippocampus of epilepsy patients
Vladimirs Naumovs, Valērija Groma, Skuja Sandra
21. Assessment of Quality of Life in Patients with Back Pain
Nadīne Kolībina, Ineta Robiņa-Dzedule
22. Exploring the Association Between STAT4 rs7601754 Polymorphism and Vision Impairment in Multiple Sclerosis
Akville Bruzaite, Renata Balnyte, Greta Gedvilaite-Vaicechauskiene, Rasa Liutkeviciene
23. Genetic Link Between TNF- β rs2229094 and Multiple Sclerosis in Lithuanian Women
Kriste Kaikaryte, Renata Balnyte, Rasa Liutkeviciene
24. Relationship of stress experienced by nursing students to lifestyle and social factors
Aldona Mikaliūkštienė, **Meda Sakalauskaitė**
25. The impact of nurse's personality traits to prepare the patients with coronary heart diseases for the tests
Natalja Sitņikova, Jurgis Škilters
26. The Prevention and Management of Complications in Type 1 Diabetes
Karolina Šuminskaitė, Indrė Čergelytė-Podgrušienė
27. Work-Related Musculoskeletal Disorders for Surgeons and Surgeon Nurses: A Systematic Literature Review
Zenija Roja, **Henrijs Kalkis**, Biruta Sloka

Paediatrics, Gynaecology and Obstetrics

2nd floor atrium

12:00 Poster presentation

28. Availability of multisensory therapy in Latvia
Natalja Guiska, Aleksandrs Vasilonoks, Valdis Folkmanis, Ingrīda Rumba-Rozenfelde
29. Celiac Disease in Latvian Children: Insights from the Marsh Classification
Maija Lubgane-Griķīte
30. Certain risks to children and national sustainability due to shortcomings of educational system in the situation of global threat
Elizabete Mikāla, Ebela Inguna, Ražuks-Ebels Mārtiņš, Ražuka-Ebela Danute, Ražuks Romualds
31. Emergency Medical Service Calls for Pediatric Burn Injuries in the Latgale Region (2020–2022)
Olga Černova, **Ilze Kucina**
32. Integrating type 1 diabetes technology into children's self-management
Indrē Čergelytė-Podgrušienė, Rita Vaičekauskaitė
33. Overview of Simple Congenital Heart Defects in Latvia from 2004 to 2023
Jūlija Žmarjova, Stanislav Ovrutski, Valts Ozoliņš, Ingrīda Rumba-Rozenfelde
34. The challenges of disease management in children with type 1 diabetes
Indrē Čergelytė-Podgrušienė, Vida Gudžinskienė
35. The characteristics of gut microbiome in children with infancy-period functional gastrointestinal disturbances
Krista Ļūmane, Ilva Daugule, Dita Gudrā, Daiga Kārklīņa, Larisa Zaharova, Dāvids Fridmanis, Ingrīda Rumba-Rozenfelde, Egija Zelča
36. The epidemiology and morphological features of pediatric appendicitis in Latvia
Jurijs Markovs, Jeļena Fjodorova, **Agate Galuza**, Artis Lapsiņš, Līga Šulca
37. Trends in anterior fontanelle's closure and primary teeth eruption in Riga's infants based on longitudinal study's data
Gundega Knipše, **Zeltīte Cēderštrema**, Beata Krūmiņa, Amanda Freimane, Sarmīte Boka, Renārs Erts, Džanna Krūmiņa
38. Association Between Uterine Fibroid Location and Patient Age
Anete Zelča, Margarita Puķīte
39. Invasive Cervical Manipulations as a Risk Factor for Short Cervix in 2nd Trimester of Pregnancy
Diana Silniece, Elina Tare, Ramona Galsone, Zane Krastina

40. The Impact of Birth Experience on Breastfeeding Self-Efficacy and Mother-Infant Bonding
Milda Naginevičiūtė, Egle Bartusevičienė, Aurelija Blaževičienė
41. The Impact of Postpartum Depression on Maternal Mental and Physical Health
Milda Naginevičiūtė, **Asta Kirkilytė**, Egle Bartusevičienė, Aurelija Blaževičienė
42. The most common breastfeeding difficulties, their causes, consequences and possible solutions in general practitioner's practice
Ginta Šarkovska, Rasa Dauškane
43. Traditional cytology versus liquid based cytology for evaluation of cervical smears – 5 months experience in Daugavpils Regional Hospital in 2021
Jūlija Petkeviča, **Alesia Nazarenko**, Jeļena Storoženko

Mental Health

2nd floor atrium

12:00 Poster presentation

44. Informed consent in psychiatry - analysis of the national practice guidance
Marina Losevica, Karīna Konstantinova, Aleksandrs Losevics
45. Nurses' actions to manage aggressive behavior in patients with dementia
Karolina Adomavičiūtė, Agnė Jakavonytė-Akstinienė, Stanislav Sabaliauskas
46. Nursing students' individual experiences of people with dementia
Agnė Jakavonytė-Akstinienė
47. Prognostic Role of Acceptance and Interoceptive Awareness Related to the Risk of Prolonged Grief Disorder Among Ukrainian Military Widows
Shyrai Polina, Dmytro Boiko
48. The elusive link between depression and dark triad traits
Dāniels Makoveckis, Māris Taube, Jeļena Vrubļevska
49. The relationship between alexithymia and the capacity to love in the student population
Marta Kalniņa, Rolands Ivanovs, Dāvis Edgars Liepa, Sandra Samoilova, Aija de Starceva-Apele

Cardiovascular and Internal Medicine

2nd floor atrium

12:00 Poster presentation

50. Effects of cardioplegic solution on cytokine expression
Arslan Mamedov, Eglė Rumbinaitė, **Serik Aitaliyev**, Rimantas Benetis, Povilas Jakuška, Dainius Karčiauskas, Edgaras Stankevičius, Dovydas Verikas,
Rassul Zhumagaliyev
51. Evaluation of Antibiotic Effectiveness in Clinical *Listeria monocytogenes* Isolates
Adam Misevič, Lilian Jenny Babette Schneider, Anželika Slavinska, Agnė Kirkliauskienė, Nomedra Kuisienė
52. Heart Failure Patient Profile in Cardiology Department: a Single Center Data
Austėja Kaunaitė, Diana Žaliaduonytė
53. Impact of commonly tested Factor V variants on Activated Protein C-Resistance in Latvian population
Eva Eglite, Sandra Selkova, Veronika Korenika, Eriks Tauckels, Dmitry Perminov
54. Impact of Hemodialysis on Patients' Work Ability
Artjoms Panfilovs, Anna Popova, Maija Motivāne, Aiga Vasiļvolfa, Renārs Ertis
55. Inflammation markers detected in complete blood count are associated with coronary atherosclerosis and may indicate its severity
Agnė Liuizė, Jolanta Laukaitienė, Grytė Ramantauskaitė, Aušra Mongirdienė
56. Mupirocin susceptibility in methicillin-resistant *Staphylococcus aureus* strains isolated in Vilnius, Lithuania, in 2024
Lea-Sophie Pfeifer, Maksim Bratchikov, Agnė Kirkliauskienė, Živilė Kučinskienė, Jolanta Miciulevičienė, Kotryna Ragalevičiūtė, Greta Vizujė
57. Relationship of vimentin and endocan with severity of coronary artery disease
Agnė Liuizė, Grytė Ramantauskaitė, Jolanta Laukaitienė, Viltė Gintauskienė, Aušra Mongirdienė
58. Sensitization to Tropomyosin in House Dust Mites and Shrimps and Emerging Risks from Insect-Based Proteins
Maris Bukovskis, **Jana Višņevska**

Internal Medicine

2nd floor atrium

12:00 Poster presentation

59. Age and onset of Gastroesophageal Reflux Disease
Bayan Nurgaliyeva, Gulzhan Ayapova, **Amina Nurlanbekbyzy, Aisha Sagatbayeva**, Gaziza Tashkenbayeva
60. Association of Continuous Glucose Monitoring data with diabetic retinopathy in patients with type 1 diabetes in Latvia
Olga Kucaja, Aleksejs Fedulovs, Irena Puzirevska, Jelizaveta Sokolovska, Zane Svikle
61. Autoantibody profile of systemic lupus erythematosus patients
Laura Golubeva, Pauls Rubins
62. Characteristics of long-term hospitalized patients in PSKUS Palliative Care Department during 01.11.2023.- 01.11.2024.
Līva Ģērmāne, Ilga Albina
63. Elderly Age of Patients with Type 2 Diabetes Mellitus as a Predictor of Cardiovascular Complications
Bayan Nurgaliyeva, **Olzhas Bayzhumanov, Aknur Zhakhansha**
64. Prevalence of diabetes mellitus in the Akmola region of Kazakhstan
Aruzhan Mussulman, Zhanbota Dyussenbina
65. Sensitisation to Respiratory and Food Allergens in the Latvian Population
Jana Višņevska, Maris Bukovskis
66. The association between hemorrhagic pancreatic pseudocyst size and perioperative laboratory parameters in patients undergoing endovascular embolization
Glib Sheiko, Ilja Dmitrijevs, Patrīcija Ivanova, Aina Kratovska, Andrejs Mundeciems, Sanita Ponomarjova, Jekaterina Safronova, Veronika Zaiceva, Nauris Zdanovskis
67. Type 2 diabetes and viral hepatitis C
Bayan Nurgaliyeva, Mansura Baimukhanova, **Iskander Isgandarov, Melissa Seksenbayeva**

Ophthalmology

2nd floor atrium

12:00 Poster presentation

68. Impact of accelerated corneal cross-linking on endothelial cell density and morphology in central and paracentral regions after six months

Ugnė Rumelaitienė, **Gabija Rimkuvienė**, Dalia Žaliūnienė

Surgery, Traumatology and Orthopaedics

2nd floor atrium

12:00 Poster presentation

70. Choice of Surgical Treatment for Complications of Gallstone Disease

Alua Sadriten, **Aruzhan Birlesova**, Kulsara Rustemova, Assem Shakeyeva, Serik Ayaganov

71. Continuous Controlled Regional Intra-Arterial Administration of Drugs in the Comprehensive Treatment of Acute Destructive Pancreatitis

Arna Kabduaiysova, Alua Sadriten, Assem Shakeyeva, Kulsara Rustemova

72. Osteomyelitis, prosthetic joint infection caused by MDR and XDR gram-negative bacteria – clinical characteristics, treatment course, outcome in Hospital of Traumatology and Orthopaedics from year 2021 to 2024

Laura Osīte, Dace Vīgante

Anaesthesiology and Reanimatolog

2nd floor atrium

12:00 Poster presentation

73. Adherence to guidelines for antibiotic prophylaxis in spine surgery patients

Marta Aukone, Kalvis Briuks, Sigita Kazūne, Aleksejs Repņikovs

74. Assessing sensory changes in sciatic nerve block with different local anesthetics, using ice test and skin temperature changes

Valērija Kopanceva, Everita Binde, Valentīna Šļepiņa, Andrejs Zirnis, Iveta Golubovska, Aleksejs Miščuks

75. Attitudes of healthcare professionals towards implementation of advance directives in Latvia

Eva Šteina, Renārs Erts, Iveta Golubovska, Signe Mežinska

76. Do patients remember the explanation about anesthesia and analgesia after surgery?
Valentins Smulko, Iveta Golubovska, Antons Suskovs
77. Does an elevated body mass index really correlate with increased surgical and anesthesia risk in hip joint replacement
Kārlis Vītiņš, Paula Birzniece, Raivis Bērziņš, Iveta Golubovska, Matīss Zolmanis
78. Pain Outcomes After Spinal Surgery: A Comparison with an International PAIN OUT Database Cohort
Anita Megija Miķelsone, Sigita Kazūne
79. Patient satisfaction about their stay in the Intensive Care Unit at the Hospital of Traumatology and Orthopaedics
Elva Eglīte, Iveta Golubovska, Antons Suskovs
80. Sympathetic modulation and respiratory implications of interscalene brachial plexus block: a prospective analysis of intraocular pressure dynamics and phrenic nerve involvement
Adelīna Dedele, Iveta Golubovska, Evita Kassaliete, Aleksejs Miščuks

Oncology

2nd floor atrium

12:00 Poster presentation

81. Analyzing Adverse Outcomes in Adult CNS Tumor Patients Treated with Procarbazine, Lomustine, and Vincristine (PCV) Chemotherapy
Ritvars Nikolājevs, Sigita Hasnere, Nityanand Jain
82. Assessment of pain characteristics and evaluation of treatment effectiveness in cancer patients
Pola Ļaksa, Sigita Hasnere
83. Association of Liver-to-Spleen Ratio with Metachronous Liver Metastatic Risk in Colorectal Cancer Patients
Maksims Maštalers, Igors Ivanovs, Aleksandra Podhvatilina, Andrejs Pcolkins, Ainārs Boks
84. Cancer registration system in Uzbekistan: organization of national cancer registry
Sayde Djanklich, Mirzagaleb Tillyashaykhov, Shavkat Ibragimov, Yahyo Ziyaev, Venera Seitshayeva, Alisher Berkinov, Olim Imamov
85. Most Common Systemic Therapy Regimens for Non-Small Cell Lung Cancer from 2021 to 2023 in Pauls Stradiņš Clinical University hospital
Sanija Raina Brenča, **Anna Bubļikova**, Sigita Hasnere

86. Progression Free Survival in Patients with Brain Metastases: A Retrospective Analysis of Radiotherapy Modalities and Influencing Factors
Edvarts Mežulis, Gints Rausis
87. Salvage Coloplasty After Gastric Ischemia During Ivor-Lewis Esophagectomy for Esophageal Cancer
Anna Marija Lescinska, Aleksandrs Malasonoks, Antons Rudzats, Viktors Novikovs
88. Characterizing somatic genetic alterations in non-small cell lung cancer
Una Krūmiņa, Aigars Dzalbs, Agnese Rozenvalde, Valters Vīksne, Oksana Mahmajeve, Inese Briede, Aija Balode, Līga Kangare, Liesma Laizāne, Māris Sperga
89. Comparative Study of Cytology and Histopathology Findings of women population in Latvia
Anastasija Basoka, Fjodors Budajevs, Tatjana Zablocka
90. Epitranscriptomic Studies of Glioblastoma: Analysis of Gene Expression in Tumor Cells and Tumor Tissues
Kamilė Milkintaitė, Rūta Urbanavičiūtė-Orentė
91. Metastasis and human papillomavirus prevalence in tonsillar cancer patients by gender
Laura Kasparāne, Renārs Deksnis
92. TNF Variants Influence Metastasis in Laryngeal Squamous Cell Carcinoma
Enrika Pileckaite, Vykintas Liutkevicius, Rasa Liutkeviciene, Alvieta Vilkeviciute