



## **Program OVERVIEW**

### **Friday, 24 March**

Please note that all sessions will occur according to Eastern European Time (EET, Riga time).

**9.30-10.30**    **Opening of the conference**

**11.00-12.30**    **Basic Medical Science & Pharmacy I** oral presentations

**11.00-12.30**    **Cardiovascular and Regenerative Medicine** oral presentations

**11.00-12.00**    **Gastroenterology & Gastrointestinal Oncology** oral, e-poster presentations

**11.00-13.05**    **Mental Health** oral, e-poster presentations

**11.00-12.30**    **Paediatrics** oral presentations

**11.00-12.00**    **Surgery** oral, e-poster presentations

**13.00-13.30**    **Paediatrics** e-poster presentations

**13.00-13.40**    **Cardiovascular Medicine** e-poster presentations

**13.00-14.15**    **Infectious Diseases & Pulmonology** oral, e-poster presentations

**13.30-15.00**    **Internal Medicine** oral presentations

**13.30-15.30**    **Oncology** oral presentations

**16.00-17.00**    **Anaesthesiology, Reanimatology & Intensive Care** oral presentations

**16.00-17.30**    **Basic Medical Science & Pharmacy II** oral presentations

**16.00-17.40**    **Ophthalmology** oral, e-poster presentations

**16.00-18.00**    **Public Health & Epidemiology** oral, e-poster presentations

### **Saturday, 25 March**

Please note that all sessions will occur according to Eastern European Time (EET, Riga time).

**10.00-11.15**    **Basic Medical Science & Pharmacy I** e-poster presentations

**10.00-11.10**    **Neurology & Oncology** e-poster presentations

**10.00-11.00**    **Nursing** oral presentations

**12.00-13.10**    **Basic Medical Science & Pharmacy II** e-poster presentations



**81<sup>st</sup> International Scientific  
Conference of the  
University of Latvia 2023**

**International Scientific Conference  
on Medicine**

**Basic Medical Science and  
Pharmacy I**

Friday 24 March 2023

11:00-12:30 EET, Riga time

**Session chairs: Baiba Jansone, Nikolajs Sjakste**

**11:00 Oral presentations**

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

Precision-guided interventions: The promise of aptamer targeting  $\beta$ 1-integrin

**Pleiko Karlis**, Haugas Maarja, Parfejevs Vadims, Teesalu Tambet, Riekstina Una

Total phenolic compounds of *Potentilla erecta* (L.) Raeusch. in above-ground parts during vegetation period

**Tarnauskaitė Austėja**, Raudonė Lina, Vainorienė Rimanta, Motiekaitytė Vida

Determination of the total phenolic content and the reducing activity in vitro of bee pollen in impact of different storage conditions and duration

**Stebuliuskaite Rosita**, Liaudanskas Mindaugas, Sutkeviciene Neringa, Trumbeckaite Sonata

Environmentally friendly approach based on mechanochemical synthesis for the development of ferric ferrocyanide with improved adsorption capacity of radionuclides in nuclear incidents

**Ugis Eismonts**

Selected drug effects on lipid accumulation and release of IL-6 and IL-8 from HepG2 cells

**Kopiks Kirills**, Sizova Rita, Silantjeva Viktorija, Jēkabsons Kaspars, Namniece Jana, Muceniece Ruta

Collagen fibre changes in the ascending aorta for patients with an altered aortic valve

**Grīnbergs Pēteris Einārs**, Skuja Sandra, Brečs Ivars, Birze Arnis

Vitamin D receptor gene polymorphisms are associated with multiple sclerosis in a case/control study in a Latvian population

**Leonova Elina**, Trapiņa Ilva, Pļaviņa Samanta, Paramonovs Jegors, Sjakste Nikolajs, Paramonova Natalia

Genetic variations in the vitamin D Binding Protein GC Gene are associated with multiple sclerosis in the Latvian population

**Trapiņa Ilva**, Pļaviņa Samanta, Leonova Elina, Paramonovs Jegors, Sjakste Nikolajs, Paramonova Natalia

Heterogeneity of Pierre Robin sequence

**Rezaeitazangi Rayyan**



**81<sup>st</sup> International Scientific  
Conference of the  
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**International Scientific Conference  
on Medicine**

**Cardiovascular & Regenerative  
Medicine**

Friday 24 March 2023

11:00-12:30 EET, Riga time

**Session chairs: Andrejs Ērglis, Gustavs Latkovskis**

**11:00 Oral presentations**

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

Effect of lipid extract of sea buckthorn seeds on patients with residual cardiovascular disease risk

**Mintale Iveta**, Erglis Kristaps, Jegere Sanda, Zuzans Ralfs, Romanovska Aija, Jakobsons Eriks, Erglis Martins, Bajare Iveta, Dzerve Vilnis, Bartkevics Vadims, Erglis Andrejs

True and complex bifurcation stenting – treatment techniques and long-term outcomes

**Laduss Arnis**, Bolsteina Eva, Camane Evija, Erglis Andrejs, Trusinskis Karlis, Latkovskis Gustavs, Sondore Dace, Narbute Inga, Dombrovska Kristine, Dombrovskis Andis, Briede Ieva, Lismanis Aigars, Rudzitis Ainars, Jegere Sanda, Kumsars Indulis

Cardiovascular events in patients with familial hypercholesterolemia before and after inclusion in the Latvian Registry of Familial Hypercholesterolemia

**Jankovskis Rihards**, Nesterovics Georgijs, Saripo Vita, Meiere Ruta, Terauda Elizabete, Skudrina Gunda, Gilis Dainus, Erglis Andrejs, Latkovskis Gustavs

Relationship between segments with prominent myocardial noncompaction of the left ventricle and conduction disturbances

**Serģe Nikola**, Kalējs Oskars, Zvaigzne Ligita

The difference of oxidative stress readings in patients diagnosed with chronic heart failure

**Mongirdienē Aušra**, Agnē Liuzē, Karčauskaitē Dovilē, Mazgelytē Eglē, Liekis Arūnas, Sadauskienē Ilona

A new D-shape endograft for patients with abdominal aortic aneurysms

**Vērzemnieks Kalvis**, Krieviņš Dainis, Ķīsis Kaspars, Gediņš Mārcis, Šavlovskis Jānis

Efficacy of pulmonary vein isolation to treat atrial fibrillation in Pauls Stradiņš Clinical University Hospital

**Kupics Kaspars**, Jubele Kristine, Gilis Dainus, Nesterovics Georgijs, Kalejs Oskars, Erglis Andrejs

The evaluation of ex vivo cell expansion process automation

**Jakobsons Eriks**, Erglis Kristaps, Eihentale Alma, Martins Erglis, Romanovska Aija, Muiznieks Indrikis, Erglis Andrejs

Lipid extract of sea buckthorn seeds and blood fatty acid profile

**Erglis Kristaps**, Mintale Iveta, Jegere Sanda, Zuzans Ralfs, Romanovska Aija, Jakobsons Eriks, Erglis Martins, Bajare Iveta, Dzerve Vilnis, Bartkevics Vadims, Muiznieks Indrikis, Erglis Andrejs



**81<sup>st</sup> International Scientific  
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**International Scientific Conference  
on Medicine**

**Gastroenterology &  
Gastrointestinal Oncology**

Friday 24 March 2023

11:00-12:00 EET, Riga time

**Session chair: Aldis Puķītis**

**11:00 Oral presentations**

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

Effectiveness of antibiotic prophylaxis and adherence of doctors to it before percutaneous transhepatic cholangiography: one centre retrospective research

**Dērvenieks Juris**, Puķītis Aldis, Stāka Aiga, Romašovs Andris

Leading factors in the development of colorectal cancer in Latvia and their distribution by region

**Lobanovs Sergejs**, Sauļus Kristīne, Pčolkins Andrejs

Machine learning based breath sensor signal analysis for colorectal cancer detection

**Polaka Inese**, Mezmale Linda, Lescinska Anna Marija, Kononova Elina, Pcolkins Andrejs, Glockler Johannes, Mizaikoff Boris, Mitrovics Jan, Shani Gidi, Haick Hossam, Leja Marcis

Multivariate analysis of dietary and lifestyle factors associated with serologic gastric mucosa atrophy

**Jakovenko Maksims**, Šantare Daiga, Birka Ilze, Daugule Ilva, Poļaka Inese, Kojalo Ilona, Neilande Katrīna, Leja Mārcis

**E-poster presentations**

(each presentation = 4 minutes + 2 minutes for discussion)

Prognostic Criteria for the Course of GERD

**Nurgaliyeva Bayan**, Assylkhan Aida, Tashkenbayeva Gaziza

Macroscopic and histological findings in patients with type I diabetes mellitus and indications for endoscopic gastrointestinal examination, preliminary data

**Būmane Renāte**, Ivanova Santa, Fedulovs Aleksejs, Zaļizko Poļina, Sokolovska Jeļizaveta

Breath fingerprint preliminary results of colorectal based on the gas chromatography-mass spectrometry analysis

**Mezmale Linda**, Kononova Elina, Lescinska Anna Marija, Pcolkins Andrejs, Sivins Armands, Ager Clemens, Leja Marcis, Mochalski Pawel



**81<sup>st</sup> International Scientific  
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**International Scientific Conference  
on Medicine**

**Mental Health**

Friday 24 March 2023

11:00-13:05 EET, Riga time

**Session chairs: Inta Zīle, Andis Užāns**

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**11:00 The contribution of Transference Focused  
Psychotherapy in the assessment and treatment of  
personality disorders - a scientific and clinical perspective**

**Lee Tennyson**

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**11:20 Oral presentations**

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

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The prevalence of burnout syndrome among emergency  
medical service professionals after the covid-19 pandemic

**Žuravļovs Mihails, Ķevere Laura, Valtere Ilze**

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The role of subjective therapeutic mastery and perceived  
professional confidence in burnout prevalence among Latvian  
mental health professionals

**Tomme Agija, Užāns, Andis**

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A performance analysis of prediction of depression, anxiety and  
stress using supervised machine learning methods

**Erts Renārs, Seimane Sandra, Levensteina Evija**

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Antidepressant therapy in first-time patients hospitalized in a  
child and adolescent psychiatry ward with a depressive  
episode.

**Bošakova Ludmila, Bezborodovs Ņikita**

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Legal framework for the protection of EU cross-border patients  
with limited decision-making capacity in Latvian hospitals

**Olsena Solvita**

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Towards implementation of article 12 (2) of the CRPD in  
Estonian, Lithuanian and Latvian patients' rights laws

**Amos Mari, Fausch Inesa, Olsena Solvita**

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Can the workplace negatively impact mental health: Exploring  
differences in mental health and organization settings among  
hospitals in Latvia

**Dūdiņa Kristīne, Martinsone Baiba, Zolovs Maksims**

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Relationships between the severity of anxiety and stress-coping  
strategies among preclinical students at the Rīga Stradiņš  
University Faculty of Medicine

**Rudus Karīna, Miksons Artūrs**

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**E-poster presentations**

(each presentation = 4 minutes + 2 minutes for discussion)

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Subjective therapeutic mastery and professional identity self-  
assessment questionnaire for Latvian mental health  
professionals: a pilot study

**Tomme Agija, Užāns Andis**

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The use of coercive measures in child and adolescent psychiatry practice in the Children's Clinical University Hospital, Riga, Latvia – a 10-year audit study

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**Paeglite Marta**, Priedeslaipa Jaroslavs, Bezborodovs  
Nikita

The standard of disclosure in emergency psychiatry when applying the MacArthur competence assessment tool-treatment (MacCAT- T) methodology

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**Loseviča Marina**, Konstantinova Karina, Olsena  
Solvita

Depression levels in relation to glycaemic control in patients with type 1 and type 2 diabetes mellitus

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**Borskoviča Linda**, Beskrovnijs Romāns



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**International Scientific Conference  
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**Paediatrics**

Friday 24 March 2023

11:00-12:30 EET, Riga time

**Session chair: Ingrīda Rumba-Rozenfelde**

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**11:00 Teamwork in pediatric cardiology and congenital cardiac surgery: centralization vs. regionalization**

**Ovroutski Stanislav**

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**11:30 Oral presentations**

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

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Occurrence of birth defects by region, 2011 – 2020

**Zile-Velika Iriša**, Ebela Inguna, Taurina Gita, Auzenbaha Madara, Baltane Zane, Rumba-Rozenfelde Ingrīda

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The composition of infant faecal microbiota and association with allergy and introduction of complementary food

**Zelča Egija**, Lūse Ērika, Peterleviča Jana, Gudrā Dita, Fridmanis Dāvids, Kārklīņa Daiga, Rumba-Rozenfelde Ingrīda, Daugule Ilva

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Albumin and diuretic therapy indications and effectiveness treating paediatric patients with nephrotic syndrome

**Steponavičiūtē Alvita**, Gedvilaitē Gintarē, Masalskienē Jūratē

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Follow-up outcomes in patients with hypoxic-ischemic encephalopathy (HIE) who were treated with therapeutic hypothermia

**Rozentāle Laura**, Sniedze Dace, Rumba-Rozenfelde Ingrīda

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Validation of the VDR gene methylation profile and its genetic background on the association with childhood bronchial asthma in the Latvian population

**Plaviņa Samanta**, Paramonova Natalia, Trapiņa Ilva, Tapiņa Sandra, Bebre-Putka Valda, Rumba – Rozenfelde Ingrīda, Sjakste Nikolajs

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**International Scientific Conference  
on Medicine**

**Surgery**

Friday 24 March 2023

11:00-12:00 EET, Riga time

**Session chair: Igors Ivanovs**

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**11:00 Oral presentations**

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

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Laparotomy closure technique impact on wound healing

**Zvaigzne Liene**, Ivanovs Igors

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Intraoperative balloon dilatation of the papilla Vateri as a treatment method in patients with choledocholithiasis

**Aleksandrovs Dmitrijs**, Ivanovs Igors, Fokins Vladimirs, Kaminskis Aleksejs

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Single-stage ERCP and laparoscopic cholecystectomy versus preoperative ERCP followed by laparoscopic cholecystectomy in the management of cholecysto-choledocholithiasis

**Melnalksne Māra**, Atstupens Kristaps, Stepanovs Jurijs

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Change in spinopelvic parameters after single-level anterior lateral interbody fusion for degenerative spinal deformity

**Čaplinskis Andris**, Briuks Kalvis

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**E-poster presentations**

(each presentation = 4 minutes + 2 minutes for discussion)

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Vascularisation patterns of solid renal tumours: differentiation of benign and malignant renal masses

**Popova Nina Malika**, Liepa Mara, Putrins Davis Simanis, Saule Laura, Ratiece Madara, Vjaters Egils, Jukonis Janis, Briede Inese, Radzina Maija

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**International Scientific Conference  
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**Cardiovascular Medicine  
E-POSTER presentations**

Friday 24 March 2023

13:00-13:30 EET, Riga time

**Session chairs: Iveta Mintāle, Ainārs Rudzītis**

**13:00 E-poster presentations**

(each presentation = 4 minutes + 2 minutes for discussion)

Dabigatran concentrations in blood samples with various storage conditions as assessed with chromogenic assay

**Gavrilova Anna**, Meisters Jānis, Saveljeva Olga, Nemme Niklāvs, Ņikitina Anastasija, Latkovskis Gustavs, Urtāne Inga

Application of implantable loop recorder in identifying the most prevalent causes of recurrent syncope in different age groups

**Dzindzelētaiē Gabrielē**, Ignatavičiūtē Eglē, Rinkūnienē Diana, Puodžiukynas Aras

The study of chronic coronary artery total occlusion – a single center registry

**Gorohovs Arturs**, Griķis Kārlis

Low-density lipoprotein cholesterol profile and response to treatment in familial hypercholesterolemia patients in relation to presence of monogenic mutations

**Terauda Elizabete**, Nesterovics Georgijs, Saripo Vita, Gilis Dainus, Meiere Ruta, Skudrina Gunda, Rescenko Raimonds, Briviba Monta, Klovins Janis, Erglis Andrejs, Latkovskis Gustavs

Predictors of the complicated course of arterial hypertension

Nurgaliyeva Bayan, **Sekenova Karina**, Yessembayev Timur



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**International Scientific Conference  
on Medicine**

**Paediatrics  
E-POSTER presentations**

Friday 24 March 2023

13:00-13:30 EET, Riga time

**Session chair: Ilva Daugule**

**13:00 E-poster presentations**

(each presentation = 4 minutes + 2 minutes for discussion)

Species-level analysis of core breast milk microbiota of Latvian mothers' milk samples

**Litmanen Elise**, Lagzdiņa Laura, Frīdmanis Dāvids, Gudrā Dita, Daugule Ilva

Vitamin D and total IgE in childhood bronchial asthma in Latvian population

**Plaviņa Samanta**, Paramonova Natalia, Trapiņa Ilva, Tapiņa Sandra, Ļeonova Elīna, Rumba – Rozenfelde Ingrīda, Sjakste Nikolajs

Is it possible to anticipate the type of acute appendicitis in children without extensive testing?

**Vansevičienē Idilē**, Malciūtē Miglē, Natkevičius Vincentas, Beržanski Mindaugas, Malcius Dalius, Barauskas Vidmantas

When can we anticipate multisystem inflammatory disorder in children with symptoms of acute appendicitis?

**Vansevičienē Idilē**, Krunkaitytė Ugnė, Dekerytė Inga, Lukošūtė-Urbonienė Aušra, Beržanskis Mindaugas, Malcius Dalius, Barauskas Vidmantas

Characteristics of preschool children with functional constipation

**Konstantinova Elīna**, Daugule Ilva



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**International Scientific Conference  
on Medicine**

**Infectious Diseases and  
Pulmonology**

Friday 24 March 2023

13:00-14:15 EET, Riga time

**Session chairs: Alvils Krams, Ieva Voita**

**13:00 Oral presentations**

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

Stethoscopes as potential vectors in transmission of bacterial infections in three regional hospitals

**Lūkina Sabīne**, Bērziņa Katrīna Elīna, Laizāne Anna Paula, Skadiņš Ingus, Grope Ilze

Variability of selected biochemical markers in hepatitis A – an 8-week observation study

**Hanke Julia**, Krzysztof Bratek, Miłkoł Tomasz, Sienkiewicz Elżbieta

Morphological features of the lungs in post-COVID-19 period

**Myroshnychenko Mykhailo**, Sukhorukov Ihor, Dyadyk Olena, Pasiyeshvili Nana, Kapustnyk Nataliia, Ziablitsev Denys

Modelling of 3D printer emissions clearance and retention in the human respiratory tract

**Rudus Karīna**, Borisova Anna, Martinsone Žanna, Pavlovska Ilona

The efficacy of combination of beclomethasone dipropionate and formoterol in HFA or DPI 100/6µg inhalers as maintenance and reliever therapy in patients with moderate persistent uncontrolled asthma

Jukone Unda, Grave Zanda, Silinš Viesturs, Babjoniseva Aurika, Mitrofanova Lilita, Kroica Iveta, Kristons Marcis, Konosenoka Zanna, Voroslava Dace, Jurka Normunds, **Bukovskis Maris**

Molecular sensitization profile to dogs in residents of Latvia and its connection with asthma

**Pape Karl-Christian**, Jukone Unda, Polaka Inese, Strazda Gunta, Bukovskis Maris

**E-poster presentations**

(each presentation = 4 minutes + 2 minutes for discussion)

Tuberculosis incidence trends in Lithuania during 1991-2021

**Ivinkina Ieva**, Stankaitytė Aušra, Atie Emil

Long-term outcomes of high dose vitamin D treatment in COVID-19 patients

**Jurģe Betija**, Sauša Sintija, Kistkins Svjatoslavs, Trapiņa Ilva, Pīrāgs Valdis



**81<sup>st</sup> International Scientific  
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**International Scientific Conference  
on Medicine**

**Internal Medicine**

Friday 24 March 2023

13:30-15:00 EET, Riga time

**Session chairs: Inese Folkmane, Jeļizaveta Sokolovska**

**13:30 Oral presentations**

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

Evaluation of the effectiveness of metabolic factors in the use of glucagon-like peptide-1 agonists

**Jukone Unda**, Ducena Kristīne

Habits of vitamin D supplementation in Latvia – first results from a larger observational study

**Denina Arta**, Mukans Maksims, Feldmane Sabine, Brokans Artis, Kozlovskā Līga, Aizsilniece Ilze

The impact of dual intervention with dexamethasone and high-dose vitamin D on 25-OH-D3 and inflammatory markers

**Sauša Sintija**, Lobanovs Sergejs, Kistkins Svjatoslavs, Kalniņa Daina, Jurģe Betija, Ivanova Kristīne, Svikle Zane, Frīdvalde Aija, Krūzmane Lelde, Geldnere Kristīne, Trapiņa Ilva, Pīrāgs Valdis

Covid-19 infection impact on low density lipoproteins in the bloodstream on practically healthy individuals

**Kondratova Daniela**, Kondratova Aija, Geldnere Kristine

Results of continuous glucose monitoring in patients with type 1 diabetes and diabetic kidney disease – a pilot study

**Fedulovs Aleksejs**, Kučaja Olga, Janeviča Jana, Krūzmane Lelde, Puzirevska Irēna, Folkmane Inese, Sokolovska Jeļizaveta

Accumulation of advanced glycation end products in patients with different severity of diabetic retinopathy

**Svikle Zane**, Peterfelde Beate, Petersone Dace, Janceva Julija, Nagobade Renate, Valeinis Janis, Baumanes Kristine, Sokolovska Jeļizaveta

Impact of menopause hormone therapy on the low-density lipoprotein levels in menopausal women

**Sauļus Kristīne**, Lobanovs Sergejs, Belusa Anastasija, Puķīte Margarita

The effect of vitamin D on inflammatory markers during remdesivir therapy

**Sauša Sintija**, Lobanovs Sergejs, Kistkins Svjatoslavs, Kalniņa Daina, Jurģe Betija, Ivanova Kristīne, Svikle Zane, Frīdvalde Aija, Krūzmane Lelde, Geldnere Kristīne, Trapiņa Ilva, Pīrāgs Valdis

Assessment of quality of life in patients with chronic spontaneous urticaria and acquired angioedema in Latvia

**Lauva Anna**, Papierte Sindija, Ciekure Līga, Mauliņš Egīls, Selicka Marija, Puriņa Signe, Tereško Īrisa, Kurjāne Natalja, Lapiņa Lāsma



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**International Scientific Conference  
on Medicine**

**Oncology**

Friday 24 March 2023

13:30-15:30 EET, Riga time

**Session chairs: Alinta Hegmane, Sergejs Isajevs**

**13:30 Oral presentations**

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

The most common sites of metastases in sarcoma patients at Pauls Stradiņš Clinical University Hospital in 2018 – 2022

**Ulmane Amanda Paula**, Hasnere Sigita

Compliance of patients with head and neck cancer to specific anticancer therapy

**Tolordava Tsira**, Rižankova Alina, Hasnere Sigita

Prevalence of mutations in homologous recombination repair genes and TP53 in patients with ovarian cancer in Latvian population

**Tolordava Tsira**, Hegmane Alinta

Percentage frequency of EGFR in non-small cell lung cancer patients treated in Pauls Stradiņš Clinical University Hospital in 2022

**Kopanceva Valērija**, Hasnere Sigita

The value of assessment of BRAF and NRAS gene mutation status and it's association with clinical and histopathological characteristics of in cutaneous invasive melanoma

**Garaščenko Valērija**, Feldmane Monta, Gārša Elza, Tolordava Tsira, Isajevs Sergejs, Zablocka Tatjana

Correlation between haematological toxicity and pelvic bone marrow dosimetric parameters in cervical cancer patients during concurrent chemoradiotherapy

**Ruduša Zane**, Maksimova Santa

Reduction rate of FOLFIRINOX chemotherapy regimen in pancreatic cancer patients

**Bunka Paula**, Krēsliņa Ieva, Hasnere Sigita

Frequency of IDH in patients with glial tumors

**Krēsliņa Ieva**, Bunka Paula, Hasnere Sigita

The persistence of cervical intraepithelial neoplasia is closely associated with HPV positivity, while CIN1 regression characteristics for HPV negative patients

**Kopko Dace**, Mitildzans Androniks, Isajevs Sergejs

Breast tenderness during mammography examination in women after breast-conserving surgery

**Neilande Katrīna**, Eņģele Ilze, Erts Renārs, Juliana Gabriella Pavļenko, Maiboroda Natalja, Kondratova Daniela, Sauļus Kristīne, Jakovenko Maksims

Relationships between breast cancer histological type and magnetic resonance Kaiser score

**Samma Marta**, Eņģele Ilze



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**International Scientific Conference  
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**Anaesthesiology, Reanimatology  
& Intensive Care**

Friday 24 March 2023

16:00-17:00 EET, Riga time

**Session chairs: Aleksejs Miščuks, Sigita Kazūne, Iveta Golubovska**

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**16:00 Oral presentations**

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

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Anaesthesia-related patients satisfaction: a survey

**Panova Viktorija**, Zadorožnijs Sergejs, Miščuks Aleksejs, Golubovska Iveta

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Comparison of Fascia iliaca compartment block and standard multimodal analgesia in patients with hip fracture in emergency department

**Tanaino Ruta**, Sauka Justs, Miscuks Aleksejs, Golubovska Iveta

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Plexus brachialis block in the axillary approach to forearm bone fractures using long and moderate – acting local anesthetics

**Scurevska Jana**, Zadorožnijs Sergejs, Miscuks Aleksejs, Golubovska Iveta

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Adaptive pain mechanisms – small fiber responses in winter swimmers: results of a pilot study

**Kostiks Andrejs**, Miscuks Aleksejs

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Nociceptive stimulation monitoring during intravenous lidocaine infusion and regional anesthesia

**Apšeniece Krista**, Miščuks Aleksejs, Rubīns Uldis, Golubovska Iveta, Repša Lauris

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Evaluating the accuracy of patient state index for measuring anesthetic depth in patients undergoing propofol-sevoflurane anesthesia

**Zakalkins Antons**, Kazūne Sigita

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**Basic Medical Science & Pharmacy II**

Friday 24 March 2023

16:00-17:30 EET, Riga time

**Session chairs: Immanuels Taivans, Vadims Parfejevs**

**16:00 Oral presentations**

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

Analysis of commercial effervescent tablets containing magnesium and vitamin B6 using X-ray microtomography

**Meisner Michał**, Duda Piotr, Szulc-Musioł Beata, Sarecka-Hujar Beata

Assessment of national trends in the use of reimbursed oral lipid lowering medications for primary and secondary cardiovascular disease prevention in Latvia from 2012 to 2021

**Praskilevics Arturs**, Urtane Inga, Latkovskis Gustavs

Co-culture approaches with organoids of the human exocrine pancreas and pancreatic progenitors

**Parfejevs Vadims**, Goluba Karīna, Pleiko Kārlis, Jēkabsons Kaspars, Vilmanis Jānis, Pčolkins Andrejs, Terjajevs Igors, Reinis Vangravs, Meike Hohwieler, Alexander Kleger, Riekstiņa Una

Selection of malaria lactate dehydrogenase specific aptamers for point-of-care diagnostic device development

Pleiko Karlis, Goluba Karina, **Riekstina Una**

Antimicrobial resistance patterns among pathogens isolated from blood and synovial fluid samples

**Sproģe Dana**, Lozda Daniela, Līduma Iveta

Vitamin D, total IgE, and high-sensitivity C-reactive protein in patients with multiple sclerosis in the Latvian population

**Paramonovs Jegors**, Trapiņa Ilva, Pļaviņa Samanta, Leonova Elīna, Sjakste Nikolajs, Paramonova Natalia

Nanosecond pulsed electric field induces exocytosis from pancreatic cancer cells

**Szlasa Wojciech**



**81<sup>st</sup> International Scientific  
Conference of the  
University of Latvia 2023**

**International Scientific Conference  
on Medicine**

**Ophthalmology**

Friday 24 March 2023

16:00-17:40 EET, Riga time

**Session chairs: Kristīne Baumane, Igors Solomatins**

**16:00 Oral presentations**

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

Efficiency of vitrectomy in case of first regmatogenous retinal detachment

**Volkolakovs Rudolfs**, Briede Eliza, Baumane Kristine

Risk of visual field changes' progression in different stages of primary open-angle glaucoma

**Osinoveca Katerīna**, Baumane Kristīne, Briede Elīza

Retinal neurodegeneration in patients with type II diabetes without diabetic retinopathy

**Binfelde Darta**, Baumane Kristine

Changes in ganglion cell complex thickness and vascular density of macular capillary plexuses in early non-exudative age-related macular degeneration

**Lāčplēse Vita**, Baumane Kristīne

Femtosecond laser-assisted arcuate keratotomy at the time of cataract surgery for the management of preexisting astigmatism

**Vaģele Anita**, Solomatins Igors

Surgical outcomes of gonioscopy-assisted transluminal trabeculotomy with polypropylene suture in patients with advanced glaucoma

**Blezura Udre Gunta**, Baumane Kristine, Petersone Dace

Micropulse cyclophotocoagulation effect on ocular vascular flow – early post-operative results

**Briede Elīza**, Pētersone Dace, Knipše Gundega, Baumane Kristīne

Changes in corneal thickness and endothelial cells after cataract surgery with the phacoemulsification method in patients with II type of diabetes

**Daradonova Anna**, Baumane Kristīne

Changes in peripapillary microvascular density and visual field in patients with optic disc drusen

**Fomina Kristine**, Baumane Kristine

**E-poster presentations**

(each presentation = 4 minutes + 2 minutes for discussion)

Determination of association between cardiovascular disease and glaucoma using oct-angiography

**Grava Sintija**, Briede Elīza, Baumane Kristīne





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**International Scientific Conference  
on Medicine**

**Public Health & Epidemiology**

Friday 24 March 2023

16:00-18:00 EET, Riga time

**Session chairs: Signe Mežinska, Juris Bārzdīņš**

**16:00 Oral presentations**

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

Is the health self-assessment delusion of reality? Cross-sectional study of cardiovascular risk factors in population of Latvia

**Bajare Iveta**, Dzerve Vilnis, Jegere Sanda, Erglis Andrejs

Do we know unmet non-medical health-related social needs in mental healthcare?

**Loseviča Marina**, Konstantinova Karina, Olsena Solvita

Cardiovascular disease risk factors in Latvia: trends in prevalence over 10 years

**Maurina Inese**, Tzivian Lilian, Dzerve-Taluts Vilnis, Bajare Iveta, Jegere Sanda, Erglis Andrejs

Self-reported parents' approach to the health competence in the family

**Strazdiene Neringa**, Strukcinskiene Birute, Seleviciene Vaiva, Genowska Agnieszka, Mickiene Raimonda, Steponkus Darius, Jurgaitis Jonas

Associations between subjective physical health and substance abuse

**Širvys Artiomus**, Masolas Martynas, Šepetys Gratas, Nedzinskienė Laura

The occurrence of gynecomastia and its link to men's lifestyle choices and self-worth

**Masolas Martynas**, Širvys Artiomus, Šepetys Gratas, Nedzinskienė Laura

**E-poster presentations**

(each presentation = 4 minutes + 2 minutes for discussion)

Frequency of physical activities of reproductive age women in Latvia

**Zaloga Sintija**, Plisko Olga

Women's opinion and awareness about physical activities during pregnancy

**Zaloga Sintija**, Plisko Olga

Vaccination: the booster of immunity

**Akhsabadze Durmishkhan**, Singh Akansha, Vaibhav Vaibhav

Uncovering the disparities: comparison of therapeutic approaches for late-stage non-small cell lung cancer patients at Riga East University Hospital, Latvia and Shaare Zedek Medical Center, Israel

**Baltāne Zane**, Roisman C. Laila, Losāns Kaspars, Vēliņš Rauls, Peled Nir, Gašenko Evita, Krams Alvils, Tzivian Lilian

Changes in the Prevalence of the Intestinal Diverticular Disease During 2001–2021	<b>Stankaitytė Aušra</b> , Ivinkina Ieva, Karpavičiūtė Vita
Changes in the mortality from cerebrovascular disease in Lithuania during 1993-2019	<b>Ivinkina Ieva</b> , Stankaitytė Aušra, Atie Emil
Prevalence of uterus cancer in Uzbekistan	<b>Djanklich Sayde</b> , Sabirdjanova Zulfiya, Mansurova Gulya, Saidova Kamola, Ibragimov Shavkat, Imamov Olim, Berkinov Alisher, Seitshaeva Venera
Incidence trend of colorectal cancer in Uzbekistan	<b>Djanklich Sayde</b> , Tillyashaykhov Mirzagaleb, Ibragimov Shavkat, Imamov Olim, Berkinov Alisher, Seitshaeva Venera, Sabirdjanova Zulfiya
Economic analysis of non-small-cell lung cancer patients' treatment in Riga East University Hospital, Latvia: retrospective data from the Value-Based Healthcare project	<b>Hermanis Jānis</b> , Baltāne Zane, Losāns Kaspars, Vēliņš Rauls, Gašenko Evita, Krams Alvis, Tzivian Lilian
The necessity to improve section No. 149 of the Latvian civil procedure law	<b>Osis Martins</b>
Is early diagnosis and therapy of children's development a part of basic level of medical assistance guaranteed by the constitution of the Republic of Latvia?	<b>Osis Martins</b>



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**International Scientific Conference  
on Medicine**

**Basic Medical Science & Pharmacy I  
E-POSTER presentations**

Saturday 25 March 2023

10:00-11:10 EET, Riga time

**Session chairs: Elīna Ļeonova, Karīna Goluba**

**10:00 E-poster presentations**

(each presentation = 4 minutes + 2 minutes for discussion)

Gliomagenesis associated lncRNAs LINC00461, GAS5 and NEAT1 are post-transcriptionally m6A modified in gliomas

**Dragunaite Rugile**, Stakaitis Rytis, Skiriute Daina

Effect of acute mesenteric ischemia on rat lung and kidney mitochondria functionality

**Bahire Ksenija Lūcija**, Margeviča Anastasija, Makrečka-Kūka Marina, Volrāts Olafs, Jansone Baiba

Changes of hepatic enzymes activities in the free fatty acids-induced fatty liver model in vitro

**Jēkabsons Kaspars**, Silantjeva Viktorija, Sizova Rita, Kopiks Kirills, Namniece Jana, Muceniece Ruta

Metabolite fingerprint of peripheral mononuclear cells as a marker of diabetic nephropathy

**Rostoka Evita**, Shvirksts Karlis, Salna Edgars, Fedulovs Aleksejs, Trapiņa Ilva, Sokolovska Jeļizaveta

Changes of the levels of cytokines APRIL and IL-10 in type 1 diabetes mellitus patients with and without diabetic nephropathy

**Rostoka Evita**, Blāķe Ilze, Fedulovs Aleksejs, Trapiņa Ilva, Sokolovska Jeļizaveta

Total phenolic content of *Potentilla anserina* (L.) Rydb. grown in urban and rural habitats

**Strikulytė Mantė**, Raudonė Lina

Effects of nanosecond pulsed electric field on LAG-3 expression in melanoma cells

**Sauer Natalia**, Karłowicz-Bodalska Katarzyna

Analysis of Phenolic composition and Antioxidant activity of Raspberry (*Rubus idaeus* L.) stem powders

**Butkevičiūtė Greta**, Raudonė Lina

The chemosensitizing impact of combination of DOX and apple extract on HT-29 and U-87 cells in 2D and 3D cultures

**Braciuliene Aurita**, Janulis Valdimaras, Petrikaite Vilma

Green biosynthesis of silver nanoparticles by using fermented aqua extract of *Matricaria chamomilla* and *Calendula officinalis*

**Balčiūnaitienė Aistė**, Viškelis Jonas, Puzerytė Viktorija, Sakalauskienė Vaidė, Mahdavi Behnam, Viškelis Pranas

Changes in anthocyanins composition in cranberry (*Vaccinium macrocarpon* Aiton) raw material during fruit ripening period

**Šedbarė Rima**, Janulis Valdimaras

N-((4-sulfamoylphenyl)carbamoithioyl) amides: potential neuropathic pain attenuating agents

**Abdoli Morteza**, Žalubovskis Raivis, Supuran Claudiu



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Conference of the  
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**International Scientific Conference  
on Medicine**

**Neurology & Oncology  
E-POSTER presentations**

Saturday 25 March 2023

10:00-11:10 EET, Riga time

**Session chairs: Normunds Sūna, Viktors Kozirovskis**

**10:00 E-poster presentations**

(each presentation = 4 minutes + 2 minutes for discussion)

Difficulties in integrating virtual reality technologies into clinical practice for patients with multiple sclerosis in Latvia

**Berjoza Sintija**, Lobanovs Sergejs, Garoza Raivis, Vradijs Viktors, Kalniņa Jolanta

The experience of dementia caregivers at the beginning of the disorder

**Umaraitė Neringa**, Galnaitytė Simona, Pšemeneckienė Greta

Impact of primary arterial hypertension and CHD on the level of functioning of patients with primary CNS lymphoma

**Gritāne Kintija**, Mikijanskis Raimonds

Efficacy of cholinomimetic medications in patients with vascular dementia compared to Alzheimer's dementia

**Khachiashvili Gvantsa**, Koniashvili Otar, Rukhadze Ia

Liquid biopsy pattern in non-oncological patients

**Mikilps-Mikgelbs Rihards**, Luguzis Artis, Kiršners Arnis, Krams Alvils, Ērglis Andrejs, Pūpola Dārta

Frequency and severity of thrombocytopenia in patients with breast carcinoma during neoadjuvant chemotherapy in 2021

**Laksa Pola**, Hasnere Sigita

Compliance of breast and colorectal cancer survivors to participate in digital surveillance activities

**Aleksandravica Ilona**, Bema Dina, Polaka Inese, Arcimovica Krista, Lescinska Anna Marija, Stonans Ilmārs, Leja Mārcis



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Conference of the  
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**International Scientific Conference  
on Medicine**

**Nursing**

Saturday **25 March 2023**

**10:00-10:40 EET**, Riga time

**Session chairs: Ina Mežiņa-Mamajeva, Igors Ivanovs**

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**10:00 Oral presentations**

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

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Psychosocial stress in nurses and its impact on health satisfaction

**Didbalytė Miglė**, Mikaliūkštienė Aldona

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Seasonal variation of health-related quality of life in patients with coronary artery disease

**Martinaitienė Dalia**, Kažukauskienė Nijolė

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Changes in patients' well-being after spine surgery

**Gierasimovič Zita**, Butkevič Violeta

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Tuberculosis patients' knowledge and attitude toward the disease and its preventive measures

**Gierasimovič Zita**, Valiulienė Žaneta, Matulevičiūtė Eva, Lukšaitė Agilė

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**International Scientific Conference  
on Medicine**

**Basic Medical Science & Pharmacy II  
E-POSTER presentations**

Saturday 25 March 2023

12:00-13:10 EET, Riga time

**Session chairs: Agate Galuza, Vladimirs Piļipenko**

**12:00 E-poster presentations**

(each presentation = 4 minutes + 2 minutes for discussion)

Comparative analytical profiling of bioactive constituents in *Vaccinium vitis-idaea* L. cultivars

**Vilkickyte Gabriele**, Raudone Lina

Antibiotic consumption in the paediatric hospital in Latvia

**Sviestiņa Inese**, Urtāne Inga, Mozgis Dzintars

Variation of total phenolic compounds of different plant organs from *Artemisia campestris* L. herb

**Malinauskaitē Brigita**, Raudonē Lina

The effect of oregano (*Origanum Onites* L.) essential oil on glutathione and malondialdehyde concentrations in mice blood

**Munius Edvinas**, Sadauskienē Ilona, Liekis Arūnas, Kubilienē Asta

The influence of  $\beta$ -cyclodextrin on the parameters of emulsion and sodium alginate microcapsules

**Kazlauskaite Jurga Andreja**, Jurga Bernatoniene

Evaluation of zinc effect on  $\delta$ -aminolevulinic acid dehydratase activity and on metallothionein content in brain of nickel treated mice

**Šulinskienē Jurgita**, Baranauskienē Dalē, Naginiene Rima

Protective effect of vitamin C on the prevention of damage to isolated porcine kidneys stored in simple hypothermia

**Ostróżka-Ciešlik Aneta**, Dolińska Barbara, Ryszka Florian

Attractive face – do we love or hate our facial features?

**Budrytė Milda**, Tutkuvienė Janina

The morphofunctional state of cerebral hemisphere's neuropil in rats with nitrite-induced experimental Alzheimer's disease after mesenchymal stem cells intravenous injections

**Lukyanova Yevgeniya**, Pavlova Olena, Gubina-Vakulik Galina

Increased neuroblast proliferation and mature astrocyte count 6 months after experimental ischemic stroke in mice

**Pilipenko Vladimirs**, Rozkalne Rebeka, Kalnina Anete, Jansone Baiba

Mesenchymal-epithelial interactions during hair follicle morphogenesis

Markovs Jurijs, Knipše Gundega, **Galuzā Agatē**