

CONFERENCE SUMMARY

**Kurator STN SUM w
Katowicach:**

*Prof. dr hab. n. med.
Michał Holecki*

Przewodnicząca:

*Aleksandra Nasiek
s83331@365.sum.edu.pl
tel. 721 333 138*

Zastępcy:

*Julia Herbuś
s84625@365.sum.edu.pl
tel. 664 906 570*

*Kornelia Korzan
s80380@365.sum.edu.pl
tel. 727 586 471*

Członkowie:

Michał Azierski

Jakub Fiegler-Rudol

Piotr Ziobro

Marta Gędoś

Małgorzata Toroń

Martyna Szymańska

Justyna Kolasa

Wiktoria Śliwka

Mateusz Róg

Paweł Kurzelowski

The International Medical Congress of Silesia SIMC 2025 was held from May 7th to May 9th, 2025, in Katowice, in a hybrid format combining on-site participation with online access via Zoom and YouTube. The event was organized by the Students' Scientific Association of the Medical University of Silesia, in collaboration with the Polish Association of Dental Students and the Doctoral Students' Government of the Medical University of Silesia.

This year's congress featured a record number of 293 oral presentations, delivered by participants from multiple countries and academic institutions (Details available in Attachment No. 1.). A total of 68 projects were recognized with awards by the Scientific Committee, based on their scientific merit, clarity of presentation, and innovation (Details available in Attachment No. 2.).

In addition to the scientific sessions, 13 practical workshops were organized, covering a wide range of topics in clinical skills, research methodology, and personal development.

All conference sessions, including oral presentations, were streamed and recorded, and are available for public viewing via the ŚUMKatowice YouTube channel.

KONTAKT:

ul. Poniańskiego 15
40-055 Katowice
<http://stn.sum.edu.pl>

Attachment No. 1: Distribution of first authors on International Medical Congress of Silesia SIMC 2022

Total number of presentations: 293

Distribution among countries:

Country	Number of papers
Poland	267
Ukraine	6
Romania	5
Turkey	3
Indonesia	2
Latvia	2
Serbia	2
Bulgaria	1
Czechia	1
Nigeria	1
United Kingdom	1

Distribution among polish universities:

University	Number of papers
Medical University of Silesia, Katowice	182
Medical University of Warsaw	12
Jagiellonian University Medical College	12
Medical University of Lublin	10
Medical University of Białystok	9
Medical University of Lodz	8
Wrocław Medical University	8
Collegium Medicum, University of Warmia and Mazury	6
Wrocław University of Science and Technology	4
University of Opole	3
Silesian University of Technology	3
University of Warmia and Mazury in Olsztyn	2
Collegium Medicum, Jan Długosz University in Częstochowa	2
The University of Silesia in Katowice	2
Cardinal Stefan Wyszyński University in Warsaw	1
The Faculty of Chemistry, University of Warsaw	1
Cracow University of Technology	1
Jagiellonian University	1

Attachment No. 2: List of Laureates of International Medical Congress of Silesia SIMC 2025

Session of experimental medicine

Ist

title: **The Steroid Signature of Newborns: Clinical Applications of Metabolomic Profiling in Neonatal Care**

authors: Miłosz Lorek

IInd

title: **Unveiling the molecular mechanisms of PACS2 syndrome through proteomic profiling.**

authors: Arkadiusz Żbikowski, Gabriela Żynel, Hanna Krafzik, Julia Majewska, Tomasz Kowalczyk, Małgorzata Mackiewicz

IInd

title: **Assessment of cf-DNA concentration in patients with schizophrenia**

authors: Kamila Meca, Łukasz Czogalik, Marcin Rojek

Distinction

title: **Use of HPLC to determine the content of short-chain fatty acids (SCFAs) in selected food products.**

authors: Maciej Borówka, Michał Nicze

Session of clinical medicine

Ist

title: **Prehospital hybrid mobile stroke unit for acute neuroemergency patients in rural and mountainous regions**

authors: David Pakizer, Silke Walter, Radim Ličeník

IInd

title: **Non-invasive imaging of individual histological carotid plaque features: A diagnostic accuracy meta-analysis**

authors: David Pakizer, Jiří Kozel, Patrick Taffé, Patrick Michel, David Školoudík, Gaia Sirimarco

IIIrd

title: **The Role of miRNAs and Their Interactions in the Pathogenesis of Myocarditis**

authors: Maciej Baron, Marcin Rojek, Sebastian Krych, Michał Krawiec

Distinction

title: **Nutritional status and dietary strategies in tertiary prevention in patients with gastrointestinal cancers**

authors: Kamil Mąkosza

Session of anesthesiology, emergency medicine and intensive care

Ist

title: **Sinking Under the Surface: Impact of Fluid Intake and Balance on Cardiovascular and Respiratory Status in ICU**

authors: Julia Lipina, Julia Goleń, Magdalena Kwiatkowska

IInd

title: **The Lactate-to-Albumin Ratio and CRP-to-Albumin Ratio as Predictive Elements in Critically Ill Patients**

authors: Krzysztof Żerdziński, Michał Gatuszewski, Julita Janiec

IIIrd

title: **Echoes of the brain: predictive value of optic nerve and CRA ultrasound in patients with Intracranial Hemorrhage**

authors: Dawid Wilczek, Julia Lipina, Karolina Buchalik, Joanna Brzoza, Jakub Rudzki

Session of basic science, biotechnology and biomedical engineering I

Ist

title: **Experimental 3D cell culture model for analysis of ECM produced by fibroblasts from Osteogenesis imperfecta**

authors: Klara Ferenc

IInd

title: **Bioinformatic screening of deleterious non-synonymous SNVs in human GATA1 gene**

authors: Daria Molodetska

IInd

title: **Differences in *C. difficile* and *C. perfringens* antibiotic sensitivity depending on the medium used**

authors: Aleksandra Polańska, Mikołaj Polewka, Jakub Pjerożak, Mateusz Motyka, Maja Cierlak, Marcin Niedziela

Session of basic science, biotechnology and biomedical engineering II

Ist

title: **Role of splicing regulators *esrp1* and *esrp2* in epithelial-mesenchymal transition in bladder cancer cells**

authors: Karolina Jankowska, Weronika Wójtowicz, Mateusz Wierzbinka

IInd

title: **Assessment of the Impact of Hyperbaria and Hyperoxia on the Epithelial-Mesenchymal Transition (EMT) Process**

authors: Weronika Wójtowicz, Karolina Jankowska, Zuzanna Mielczarek, Adam Lewandowski

IInd

title: **Protein-mediated modulation of cationic DMAEMA star polymer cytotoxicity and membrane interactions**

authors: Klara Ferenc

Session of dentistry

Ist

title: **Red or Orange Autofluorescence of Selected Candida Strains Exposed to 405 nm Laser Light.**

authors: Julia Maślanka, Maciej Jabłoński, Jakub Fiegler-Rudoł, Julia Bartecka

IInd

title: **Assessment of oxidative stress markers in non-stimulated saliva from various nicotine delivery methods.**

authors: Katarzyna Łęczycka

Session of dietetics and nutrition

Ist

title: **From forest to pharmacy: antioxidant compounds in aqueous extracts from selected mushrooms.**

authors: Julia Lurka, Natalia Maciaszek

Ist

title: **Problematic eating styles at different stages of a woman's life**

authors: Karolina Kozik

IInd

title: **Assessment of consumer exposure to histamine in fermented non-alcoholic and low-alcohol beverages**

authors: Weronika Niedbała

Session of gynecology and obstetrics

Ist

title: **Double responsibility - eating disorders during pregnancy.**

authors: Aleksandra Leziak, Monika Białowas

IInd

title: **Where Life Falters: A Study of Spontaneous Abortion and the Shadows It Casts**

authors: Ariana-Elena Bulboacă, Alexandra Lăzăreanu, Andreea-Cosmina Varaşciuc, Alexia-Ioana Bulboacă

IIIrd

title: **Analysis of Risk Factors, Quality of Life and POP-Q Stage (Pelvic Organ Prolapse) in Women after TLH**

authors: Zuzanna Socha, Natalia Leszczyńska, Wiktoria Laskowska, Michał Stojko, Szymon Stojko

Session of internal medicine

Ist

title: **Underdiagnosed and Overlooked: Cardiovascular Autonomic Neuropathy in Patients with Diabetes in Silesia**

authors: Aleksandra Gil, Martyna Gut-Misiaga, Julia Piaśnik, Izabela Gryń

IInd

title: **Tailoring Treatment: Impact of Comorbidities on Dupilumab Efficacy in Severe Asthma**

authors: Julia Szlążek, Michał Porada, Marta Turek

IIIrd

title: **Is AI as Accurate as Ophthalmologists in Detecting Diabetic Retinopathy? Insights of the study in Silesia**

authors: Martyna Gut-Misiaga, Aleksandra Gil, Julia Piaśnik, Izabela Gryń

Session of invasive cardiology and cardiac surgery

Ist

title: **Profile of comorbidity and surgical risk in patients undergoing TEER procedure**

authors: Marta Marks

IInd

title: **Clinical characteristics and mortality in patients with cardiogenic shock**

authors: Adriana Błaszczuk, Michał Porada, Paulina Urbańczyk, Julia Danielewska, Miłosz Szymczyk, Magdalena Żogała

Session of neonatology and pediatrics

Ist

title: **Clostridioides difficile infection in children treated at gastroenterology department - retrospective study**

authors: Anna Siodłak, Marta Chrapek, Natalia Leszczyńska, Marlena Tarsa, Gabriela Ziółkowska, Karolina Krzywiecka

IInd

title: **Pediatric familial hypercholesterolemia in Silesia – early findings in 50 patients**

authors: Weronika Curyto

IInd

title: **They way from heart to the liver - hepatic complications of fontan circulation?**

authors: Monika Roszkowska, Martyna Biadasiewicz, Gabriela Bronkowska, Miłosz Kasprzyk, Monika Kalicka

Session of neurology and neurosurgery

Ist

title: **Evaluation of brain injury markers in the cerebrospinal Fluid of patients with smoldering multiple sclerosis**

authors: Aleksandra Hakato, Jadwiga Hartman, Malwina Brzozowska

IInd

title: **Influence of clinical and radiological parameters on cerebral infarction in patients with aneurysmal SAH**

authors: Dragana Tešić

IIIrd

title: **The role of vitamin D supplementation in alleviating depressive symptoms in RRMS**

authors: Aleksandra Guzowska

Session of noninvasive cardiology

Ist

title: **Elevated Baseline microRNA-92a as a Predictor of Cardiovascular Events in Chronic Coronary Syndrome Patients**

authors: Maria Przeździecka

IInd

title: **Does the duration of atrial fibrillation and its clinical characteristic influence the ECV efficacy ?**

authors: Monika Bonczek, Joanna Rak, Julia Gryl, Anna Barańska, Emilia Grabarczyk, Franciszek Rej

IIIrd

title: **The influence of CT vendor on aortic valve calcification measurement**

authors: Weronika Nowicka, Julia Dudek

Session of pharmacy and clinical pharmacology

Ist

title: **Synthesis and characterization of novel calcium silico-phosphates as potential drug delivery systems**

authors: Wiktor Gregorowicz, Łukasz Pajchel

IInd

title: **Evaluation of the effect of combined use metformin and pterostilbene on breast and colon cancer cells**

authors: Karolina Nizińska, Wiktor Nagrodzki

Session of physiotherapy and orthopedics

Ist

title: **Ultrasound Evaluation of Core Muscle Thickness After Local and Global Motor Control Training**

authors: Oskar Stana

IInd

title: **The Impact of Erupted Third Molars on the Occurrence of Temporomandibular Disorders (TMD)**

authors: Maria Benduch, Emilia Bieńko

IIIrd

title: **Excessive smartphone use as a risk factor for the development of De Quervain's tenosynovitis.**

authors: Bartosz Pomianowski, Leon Smółka, Karolina Blady, Miłosz Strugała, Karolina Kursa

Session of psychiatry and sexology

Ist

title: **From Silence to Statistics - Uncovering the Hidden Face of Sexual Abuse in Poland**

authors: Aleksandra Kępczyńska, Kamil Górecki

IInd

title: **Alexithymia and its association with alcohol use disorders among resident physicians in Latvia**

authors: Anna Aizpuriete, Kārlis Žigurs

Session of public health and health care

Ist

title: **Assessment of potential human exposure to ticks and elected tick-borne infection in areas of Mazovian province**

authors: Kamila Tokarczyk, Damian Zieliński, Karolina Sas

IInd

title: **Self-reported treatment adherence in primary health care patients with type 2 diabetes**

authors: Gabriela Rembiecha, Alicja Sośnicka

IInd

title: **Artificial Intelligence vs. Polish State Exams: Is AI Competent Enough to Become a Medical Specialist?**

authors: Joanna Najbar, Oskar Makuch

Session of public health and health care II

Ist

title: **Changes in the Method of Teaching Anatomy and the Importance of Body Donation Programs – A Study of Physicians**

authors: Konrad Barszczewski, Radostaw Karaś, Kaja Kiedrowska

IInd

title: **Dental Health Status of Incarcerated Individuals in Silesia: A Five-Year Retrospective Analysis**

authors: Jakub Fiegler-Rudol, Piotr Ziobro

IInd

title: **Stigmatization of Patients with Obesity in the Healthcare System: Results of a Study on Discrimination by Medics**

authors: Martyna Szymańska, Maja Grzybowska, Beata Nowak

Session of oncology, nuclear medicine and radiotherapy

Ist

title: **The study on the drug repositioning and treatment efficacy in glioblastoma 3D culture models and in vitro co-cultures**

authors: Anna Kozub

IInd

title: **Clinical Characteristics of Patients with Systemic Mastocytosis: A Retrospective Single Center Analysis**

authors: Jakub Kamiński, Sabina Kadłubek

IInd

title: **Haemophagocytic lymphohistiocytosis in adults - a single centre experience**

authors: Paulina Repa, Aleksandra Spyra

Session of surgery

Ist

title: **Bariatric Surgery as a Method of Treatment for Childhood Obesity – A Clinical Evaluation**

authors: Sandra Gołąbek, Maria Kuczera-Jarosz, Weronika Radwan

IInd

title: **Predictive value of drain amylase for clinically relevant pancreatic fistula after distal pancreatectomy**

authors: Julianna Stachaczyk, Jonasz Osiecki, Maria Michalewska, Jakub Szczygieł

IIIrd

title: **Predictive Factors for Complications After Carotid Artery Stenting: A Retrospective Analysis of 1132 Cases**

authors: Magdalena Mąka, Julia Szostek, Michał Serafin, Iga Kania

Distinction

title: **Awareness of Risk Factors and Prevention of Economy Class Syndrome Among Medical Students**

authors: Dominik Sikora, Bartłomiej Zabawa, Łukasz Papież, Jakub Kamiński

Session of systematic reviews and meta-analyses I

Ist

title: **Pedicle Screw Placement for Adolescent Idiopathic Scoliosis - Bayesian Network Meta-Analysis**

authors: Paweł Łajczak, Ayesha Ayesha, Eshita Sharma, Kaike Eduardo Silva Lobo, Iago Nathan Simon Petry, Fabio Victor Vieira Rocha

IInd

title: **Robotic and Conventional Minimally Invasive Pedicle Screw Instrumentation in Thoracolumbar Fractures**

authors: Paweł Łajczak, Anna Łajczak, Ayesha Ayesha, Stanisław Buczkowski, Kamil Jóźwik, Przemysław Nowakowski

IInd

title: **Fungal infections of cerebrospinal fluid shunt in pediatric patients: a systematic literature review.**

authors: Natalia Wyroba, Natalia Kardas

Session of systematic reviews and meta-analyses II

Ist

title: **Riboflavin- and Hypericin-Mediated aPDT as Alternative Treatments for Candidiasis: Systematic Review**

authors: Jakub Fiegler-Rudol, Julia Maślanka

IInd

title: **Robotic PCI and Clinical Effectiveness: Is Newer Always Better? A Systematic Review and Network Meta-Analysis**

authors: Krzysztof Żerdziński, Paweł Łajczak, Julita Janiec, Anna Łajczak, Ogechukwu Obi, Ayesha Ayesha

IIIrd

title: **BDNF and GDNF in Parkinson's disease: associations with symptoms, disease course, and progression**

authors: Aleksandra Buczek, Patrycja Hudzińska

Session of systematic reviews and meta-analyses III

Ist

title: **The diagnostics of minimal residual disease in patients with hepatocellular carcinoma - a systematic review**

authors: Anna Kozub, Aleksandra Nasiek

IInd

title: **Efficacy and Safety of Factor XI Inhibitors for the Prevention of Venous Thromboembolism: A Meta-Analysis**

authors: I Gede Aswin Parisya Sasmana, Gede Arya Diva Dhananjaya, Putu Mirah Wahyu Subagia Putri, Desak Made Wihandani, I Gede Putu Supadmanaba

IIIrd

title: **Synergistic Effects of Combined Oral and Topical Antioxidants in Photoaging: A Systematic Review for Clinical**

authors: Judith Ugwuja