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CONFERENCE SUMMARY

International Medical Congress of Silesia SIMC 2023 took place at 17-19th May 2023 in Katowice (conference organized on-site and online via Zoom / YouTube). The conference was organized by Students' Scientific Association of Medical University of Silesia, Polish Association of Dental Students and Doctoral Students' Government of Medical University of Silesia. At the conference there were presented 269 papers from countries (detailed statistical information about participants – Attachment No. 1) and 70 papers has been awarded by Scientific Committee (list of laureates – Attachment No. 2). All papers have been oral presented. All recordings are available on YouTube.

During congress 11 workshops were organized and 2 lectures:

- "Epigenetic Basis of Neuropsychiatric Disorders: Many Lives, One Master" by Dr Ali Jawaid, MD;
- "Kidney and Eye – two brothers" by prof. Michał Holecki, MD.

On the behalf of Organizing Committee

Śląski Uniwersytet Medyczny w Katowicach
Studenckie Towarzystwo Naukowe
40-055 Katowice, ul. Poniatowskiego 15
(3)

President of Students' Scientific
Association

Attachment No. 1: Distribution of first authors on International Medical Congress of Silesia SIMC 2023

Total number of presentations: 269

Distribution among countries:

Country	Number of papers
Poland	238
Ukraine	9
Latvia	7
Lithuania	7
Indonesia	2
Portugal	2
India	1
Bulgaria	1
Finland	1
Georgia	1

Distribution among polish universities:

University	Number of papers
Śląski Uniwersytet Medyczny w Katowicach	172
Uniwersytet Jagielloński	19
Uniwersytet Medyczny w Lublinie	7
Warszawski Uniwersytet Medyczny	6
Uniwersytet Rzeszowski	5
Uniwersytet Medyczny im. Karola Marcinkowskiego w Poznaniu	3
Uniwersytet Medyczny we Wrocławiu	3
Szkoła Główna Gospodarstwa Wiejskiego w Warszawie	2
Uniwersytet Opolski	2
Śląska Wyższa Szkoła Medyczna w Katowicach	2
Uniwersytet Medyczny w Łodzi	2
Gdański Uniwersytet Medyczny	1
Uniwersytet Łódzki	1
Uniwersytet Kardynała Stefana Wyszyńskiego w Warszawie	1
Akademia Wychowania Fizycznego w Krakowie	1

Narodowy Instytut Onkologii im. Marii Skłodowskiej–Curie, oddział w Gliwicach	1
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Distribution among polish high schools:

University	Number of papers
II Liceum Ogólnokształcące z Oddziałami Dwujęzycznymi im. Stefana Batorego w Warszawie	1
III Liceum Ogólnokształcące z Oddziałami Dwujęzycznymi w Zabrzu	1
I Liceum Ogólnokształcące im. Bartłomieja Nowodworskiego w Krakowie	1
II Liceum Ogólnokształcące z Oddziałami Dwujęzycznymi im. Andrzeja Frycza Modrzewskiego w Rybniku	2
IV Liceum Ogólnokształcące im. Gen. Maczka w Katowicach	1
Liceum Ogólnokształcące nr XVIII im. Jana Zamoyskiego	1
Liceum Ogólnokształcące im. św. Jadwigi Królowej w Kielcach	1
III Liceum Ogólnokształcące im. Adama Mickiewicza w Katowicach	1
Non-specified	1

Attachment No. 2: List of Laureates of International Medical Congress of Silesia SIMC 2023

Session of Anesthesiology, Emergency Medicine and Intensive Care

1st Place

Fabian Wesołek, Robert Latacz, Wiktoria Staniszevska

What blood pressure and vasoactive agents tell us about capillary refill time. A prospective analysis.

2nd Place

Jan Herzyk, Dawid Wilczek

Hematologic system dysregulation in sepsis patients with anemia - a retrospective cohort study

Session of Basic Science, Biotechnology and Biomedical Engineering

1st Place

Alicja Kamińska

Analysis of drug release from spheres whose degradation depends on MPM in a 3D model of neoplastic invasion

2nd Place

Wiktoria Suchy, Katarzyna Chwaleba, Mateusz Gielczyński

The enteric nervous system and pain perception in an activity-based anorexia animal model

Session of Surgery

1st Place

Jakub Ciesielka, Karolina Majewska

The results of surgical treatment and long-term survival of patients with ampullary adenocarcinoma.

2nd Place

Agnieszka Partyka, Paulina Wietrzycka, Wiktoria Bajek

Pancreatic solid pseudopapillary neoplasms - clinicopathological characteristics

Michał Serafin, Paulina Kluszczuk, Aleksandra Tobiasz, Tomasz Kowalczyk, Sebastian Maślanka

Pancreatic postinflammatory cysts - surgical treatment

3rd Place

Magdalena Górski, Paweł Paziak

Pancreatic serous cystic neoplasm – clinicopathological characteristics

Session of Internal Medicine

1st Place

Dawid Wilczek, Jan Herzyk

The appropriateness of red blood cell transfusions - a retrospective study in a large teaching hospital

2nd Place

Julia Szlązek, Wiktoria Skowron, Zuzanna Szatkowska, Błażej Szymczuk

Analysis of the clinical efficacy of omalizumab, benralizumab and mepolizumab in asthma treatment

Session of Dietetics and Nutrition

1st Place

Julia Lewandowska

Plant adaptogens as natural antioxidants and potential anti-aging agents

2nd Place

Kamil Mąkosza

Students' knowledge of selected diet-related diseases and their prevention

3rd Place

Karolina Leopold

From green to brown - antioxidant potential of coffee depending on the roasting degree

Session of Pharmacy and Clinical Pharmacology

1st Place

Inês M. Lourenço, Ana M. Neves

Effects of Tamoxifen Therapy of Female Rats on the Expression of Neurotransmitters in Hippocampal Formation

2nd Place

Arkadiusz Sokal

ANALYSIS OF THE MOLECULAR STRUCTURE OF O-PROPARGYL DERIVATIVES OF GALANGIN AND KAEMPFEROL

Session of Physiotherapy

1st Place

Urszula Skalska, Jan Stopka

The Hidden Costs Of Being A Musician - The Assessment Of The Frequency And Determinants Of Pain

Natalia Śleziak, Anna Stalka, Paweł Ganczewski, Tomasz Stawiarski
Music - friend or enemy of fast reactions?

2nd Place

Barbara Lewicka, Piotr Gomuła

Performance in activities of daily living before and after rehabilitation in a group of elderly patients

3rd Place

Jolanta Płonka, Mateusz Krzempek

The problem of kinesiophobia in overweight and obese people

Session of Oncology, Nuclear Medicine and Radiotherapy

1st Place

Natalia Hajduga, Katarzyna Jaśkiewicz

Hiperbaric oxygen therapy (HBOT) as a complementary strategy in glioma treatment - in vitro study.

2nd Place

Anna Kozub, Agata Suleja

Postoperative chemoradiotherapy in sigmoid colon and sigmoid-rectal fold cancers patients

Session of Orthopedics and Traumatology

1st Place

Łukasz Dylewicz, Jakub Rudzki, Kacper Solarz, Karol Demel, Jakub Bętkowski
Analysis of ACL surgical treatment and postoperative outcome: retrospective study

2nd Place

Antoni Staszczak, Paweł Reterski, Aleksandra Skorupa-Strojna
Effect of restricted blood flow on the bioelectrical activity of the quadriceps femoris during squat exercise

Session of Gynecology and Obstetrics

1st Place

Joanna Kaźmierczak, Klaudia Hachuła, Iga Szymańska, Karolina Piskorowska, Marta Kowalska
The knowledge about nutrition and supplementation during pregnancy among Polish women

2nd Place

Wiktoria Laskowska, Angelika Burzy
Knowledge of fertility recovery after pregnancy among women in Poland.

3rd Place

Urszula Guzik, Wiktoria Śliwka, Julia Szostakow, Maria Dziendziel, Kamila Deptała
Knowledge and attitudes of Polish society towards in vitro fertilisation as method of infertility treatment

Session of Noninvasive Cardiology

1st Place

Marcin Schulz, Julia Cieśla, Michał Krawiec, Piotr Kuczera
Vascular stiffness and endothelial function in patients with coronary artery disease and diabetes

2nd Place

Aleksandra Machnik, Julia Dołęga, Mateusz Drabczyk, Michał Górecki
LUS in asymptomatic severe aortic stenosis – a preliminary study.

3rd Place

Aleksander Urbaś, Paulina Wietrzycka, Agnieszka Partyka, Jędrzej Jankowski, Oliver Piechotta
Fascicular Arrhythmia - clinicopathological characteristics
Agnieszka Adamiec, Bartosz Basiaga, Dominika Bieczek, Aleksandra Cader, Adrianna Ściślicka,
Monika Wandasiewicz
Preclinical history of patients with HCM reflecting the course of the diagnostic process

Session of Inasive Cardiology and Cardiac Surgery

1st Place

Kamila Florek, Michał Błaszkiwicz
Comparison of two techniques for the treatment of calcified coronary artery lesions

2nd Place

Giorgi R. Bokeria
Aortic Valve Neocuspidization with Glutaraldehyde-Treated Autologous Pericardium (Ozaki Procedure) in Georgia

3rd Place

Michał Kapalka, Michał Krawiec

Results of transcatheter closure of Patent Ductus Arteriosus in neonates and infants less than 6 kilograms.

Session of Neonatology and Pediatrics

1st Place

Julia Osińska, Magdalena Macura, Magdalena Nowak, Julianna Szwanycyber
Biological therapy in children with IBD- single centre study

2nd Place

Michael Schröter, Izabela Rosół, Jakub Rudzki, Marcin Ciekalski, Antonina Radolińska
Cerebellar mutism after resection of midline cerebellar or intraventricular posterior fossa tumors in children

3rd Place

Weronika Roesler, Klaudia Sobik, Klaudia Hachuła, Natalia Lewoniuk
Characteristics of rotavirus infections in the region of Silesia between June 2019 and August 2022

Session of Neurology and Neurosurgery

1st Place

Marek Misiak

Morphologic Analysis of Normal Human Lumbar Dorsal Root Ganglion- biganglia, and where to find them?

2nd Place

Dominik Wróbel, Kaja Zdrojewska

1-year follow-up of Drip-and-Ship vs Mothership transport models of Mechanical Thrombectomy

3rd Place

Artur Stasiniewicz

The assessment of the concentration of Pentraxin-3, Osteocalcin and Osteopontin in the CSF in patients with MS

Session of Psychiatry and Sexology

1st Place

Karolina Kamińska, Michał Ciołek, Izabela Rosół, Magdalena Matlakiewicz, Maria Potaczek
Symptoms of bipolar disorder among adolescents residing at Youth Educational Centers in Silesia in Poland

2nd Place

Zuzanna Mielczarek, Karolina Kamińska, Michał Ciołek
An analysis of Polish psychiatrists consultations of displaced people from Ukraine

3rd Place

Magdalena Stencel, Błażej Pilarski
Does the weather affect suicide rates?

Session of Radiology

1st Place

Marcin Ciekalski, Izabela Rosół, Michael Schröter, Antonina Radolińska
Challenges and Effectiveness of Mechanical Thrombectomy in Acute Stroke – a Single-Centre Study

2nd Place

Iga Szymańska, Marcin Ciekalski, Jakub Mordarski
Retrospective and statistical analysis of hand and forearm injuries in the Silesian Paediatric Population - a cross-sectional study of post-traumatic X-rays in 2022

Session of Dentistry

1st Place

Katarzyna Janik, Antoni Świątkowski, Małgorzata Rymarczyk, Zuzanna Galicka
A multidisciplinary approach to enhancing the welfare of patients in maxillofacial surgery

2nd Place

Paulina Musiał, Magdalena Błasiak, Małgorzata Imiołczyk, Aleksandra Grzyb, Dawid Hochul
Dental age estimation in Silesian children with Demirjian's method

Session of Public Health and Healthcare

1st Place

Paulina Rutecka, Dawid Wolak, Zuzanna Zięba, Filip Klimas, Dorota Zatloka
Vaccinological prophylaxis of seasonal diseases among medical students. Influenza and COVID-19 vaccination

2nd Place

Justyna Danel, Paulina Kukła, Paulina Kumięga
Glass ceiling in academia - women's career paths at the medical faculties in Poland.

Marta Dziendziel, Angelika Gonsiorczyk, Bartłomiej Bielas
The patient's knowledge of the prevention, treatment, and monitoring of blood pressure disorders.

3rd Place

Mateusz Szymała, Adriana Papierok
Noise assessment in kindergarten

Session of Systematic Reviews and Meta-Analyses

1st Place

Marcin Gołowski, Piotr Lewandowski, Iwona Jabłońska
The Reassessed Potential of SARS-CoV-2 Attenuation for COVID-19 Vaccine Development—A Systematic Review update

Anna Kozub, Aleksandra Nasiek, Marta Spruś, Łukasz Czogalik
Surgical management of multiple brain metastases of the tumours of (un)known origin – a systematic review

2nd Place

Kamil Kania, Radosław Karaś
Arteria lusoria - a marker of fetal abnormalities and a cause of multiple clinical manifestations.

3rd Place

Olaf Hajnus, Patrycja Kłaptocz, Katarzyna Łukoś
The Ilizarov technique – a review

Session of Experimental Medicine

1st Place

Jonasz Dragon

Behavioral alteration after chronic administration of escitalopram in rodents subjected to early life stress

2nd Place

Iryna Popova, Denys Stoliar

Variant anatomy of anterior neck region at prenatal period of human ontogenesis

Karina Maciak, Angela Dziedzic, Joanna Saluk

Pro-thrombotic and pro-inflammatory phenotype of blood platelets in secondary progressive multiple sclerosis

3rd Place

Katarzyna Szałabska-Rapała

Honokiol and magnolol - promising compounds in the treatment of diabetes and its complications

Session of Clinical Medicine

1st Place

Przemysław Witek, Patryk Zemła

Optimizing of biological treatment of ulcerative colitis - first step

2nd Place

Sabina Tim

Physical activity and pelvic floor muscle training in postpartum women.

3rd Place

Barbara Janota

Lifestyle of women with Hashimoto's disease: identifying the areas that require changes

High School Students' Session

1st Place

Aleksandra Kobyłecka

Potential use of apple cider vinegar and grapefruit extract in the prevention of *S. epidermidis* endocarditis

2nd Place

Michał Żelazik

The relationship between sleep, working memory and frequency of mind-wandering among high-school students

3rd Place

Marlena Smerczek

The influence of NaCl at different concentrations on the development of *Lemna minor* L.

Session of Public Health and Health Care II

1st Place

Julia Woźniak, Maria Partyka, Sabina Kadłubek

The symptoms of chronic venous disease are a serious problem in a population of young women.

2nd Place

Sabina Kadłubek, Jakub Kamiński

A comparison of awareness of cardiovascular risk factors between medical students and students of other majors

3rd Place

Gabriela Klimkowicz, Izabela Kapuścińska, Magdalena Żegleń, Aleksandra Rajda, Karolina Łodziana, Alicja Michalska

Evaluation of the antibacterial activity of selected phenolic acids against staphylococcal reference strains

Session of Systematic Reviews and Meta-Analyses II

1st Place

Grzegorz Procyk, Przemysław Kasiak

COACH: COVID-19 Influence on Athletic Cardiopulmonary Health: a Systematic Review and Meta-analysis

2nd Place

Joanna Zygadło, Grzegorz Procyk

Autoantibodies in Atrial Fibrillation—State of the Art

3rd Place

Victor Nkemsinachi Oti, Maryam Abubakar, Sopuruchi Angel Chidi-Ikeji, Maryhelp Chisom Ezechiefoh

Evaluation of the effectiveness and safety of colchicine in prevention of atrial fibrillation.