



Society For Connective Tissues CMA J.E. Purkyně & Society for Prosthetics and Orthotics CMA J.E. Purkyně
& Czech Medical Association J.E. Purkyně & Medical University of Lublin & Vincent Pol University in Lublin

Preliminary Programme of

THE 26TH PRAGUE-LUBLIN SYMPOSIUM

Main topic: Locomotor Apparatus Adaptation V – Interdisciplinary Aspects

The Symposium will be held under the auspices
of the president of the Czech Medical Association (CMA) J.E. Purkyně

Professor Štěpán Svačina, MD, DSc.

&

the honorary president of the Society for Connective Tissues CMA J.E. Purkyně

Professor Josef Hyánek, MD, DSc.

The Symposium will be held at the
Medical House, Sokolská 31, 120 26 Prague 2, Czech Republic,
on November 15–16, 2024, (Friday and Saturday)

This event belongs to education actions integrated into the life training system of physicians
according to professional statute No. 16 of the General Medical Council.



PROGRAMME

FRIDAY, NOVEMBER 15, 2024

8.00–9.00 | REGISTRATION OF PARTICIPANTS

9.00 | OPENING OF THE CONFERENCE

WELCOME SPEECHES

Professor Tomasz Karski, MD, PhD

Honorary member of the Society for Connective Tissues CMA J.E. Purkynje and the CMA J.E. Purkynje

Professor Ivo Mařík, MD, PhD

President of the Society for Connective Tissues, Czech Medical Association J.E. Purkynje

9.30–12.30 | MORNING SESSIONS

9.30 | SESSION I: RARE BONE DISEASES – treatment options

Chairmen: Kraus Josef, Zemková Daniela, Mařík Ivo

Pharmacotherapy in neurology (20 min.)

Kraus Josef

Child Neurology Department, Motol University Hospital; Prague, Czech Republic

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Comprehensive treatment of hypophosphatemic rickets. Brief overview and case report (20 min.)

Mařík Ivo^{1,2}, Myslivec Radek^{2,3}, Krulišová Veronika⁴, Maříková Alena², Hudáková Olga², Vážná Anna⁵, Zemková Daniela⁶

¹ *Faculty of Health Care Studies, West Bohemia University; Pilsen, Czech Republic*

² *Centre for Defects of Locomotor Apparatus I.L.c.; Prague, Czech Republic*

³ *Orthopaedic and Traumatology Department of Hospital Píbram,; Píbram, Czech Republic*

⁴ *GHC Genetics; Prague, Czech Republic*

⁵ *Department of Anthropology and Human Genetics, Faculty of Science, Charles University; Prague, Czech Republic*

⁶ *Dept. of Paediatrics, Charles University, Motol University Hospital; Prague, Czech Republic*

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First year of vosoritide treatment in Czech patients with achondroplasia (20 min.)

Zemková Daniela^{1,2}, Maratová Klára¹, Kodytková A.¹, Mařík Ivo², Souček Ondřej¹, Šumník Zdeněk¹

¹ Dept. of Paediatrics; Motol University Hospital; Prague, Czech Republic

² Centre for Defects of Locomotor Apparatus I.L.c.; Prague, Czech Republic

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FGFR3-related bone dysplasia. A difficult path to diagnosis (15 min.)

Zemková Daniela^{1,4}, Krulišová Veronika², Vážná Anna^{3,4}, Mařík Ivo^{4,5}

¹ Dept. of Paediatrics; Motol University Hospital; Prague, Czech Republic

² GHC Genetics; Prague, Czech Republic

³ Faculty of Science, Department of anthropology and human genetics, Charles University; Prague, Czech Republic

⁴ Centre for Defects of Locomotor Apparatus I.L.c.; Prague, Czech Republic

⁵ Faculty of Health Care Studies, West Bohemia University; Pilsen, Czech Republic

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A novel splicing variant of FGFR3 gene detected in patients with hypochondroplasia and achondroplasia (15 min.)

Krulišová Veronika¹, Zemková Daniela², Mařík Ivo^{3,4}, Paszeková Helena¹, Michalovská Renáta¹, Vlčková Zdenka¹

¹ GHC Genetics; Prague, Czech Republic

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DISCUSSION AFTER EACH LECTURE (time in brackets includes discussion)

11.20–11.30 | COFFEE BREAK

11.30 | SESSION II: RARE BONE DISEASES

Chairmen: Krulišová Veronika, Zemková Daniela, Mařík Ivo

Genochondromatosis, type II: a case report of a Czech young woman (15 min.)

Mařík Ivo^{1,2}, Píchová Renata³, Tesner Pavel⁴, Maříková Alena², Zemková Daniela^{2,5}

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Characteristics of constitutional bone diseases as didactic contents for students of midwifery (15 min.)

Warchol Katarzyna¹, Skoczylas Michał²

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² *Department of Diagnostic Imaging and Interventional Radiology, Pomeranian Medical University in Szczecin; Szczecin, Poland*
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Presentation of Prof. Dr. Ali Abdul Salam Awni Al-Kaissi, DSc

Braun Martin

The terms Rare or Orphan are only applied to the severe forms. But why are the medical disciplines ignoring the frequent occurrence of the mild and the moderate types within the same families? (30 min.)

Al-Kaissi Ali Abdul Salam

Former consultant and expert for bone diseases at the Paediatric Department of the Orthopaedic Hospital Speising; Vienna, Austria

Currently Honorary Professor at Ilizarov Institute for Traumatology and Orthopedics; Kurgan, Russia

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DISCUSSION AFTER EACH LECTURE (time in brackets includes discussion)

13.00–13.30 | LUNCH

13.30–18.00 | AFTERNOON SESSIONS

13.30 | SESSION III: ARTIFICIAL INTELLIGENCE IN MEDICINE – BIOMECHANICS/ BIOMATERIALS

Chairmen: Macek Milan, Tesář Karel, Braun Martin

Presentation: AI in medical genetics (30 min.)

Braun Martin of Prof. Milan Macek Jr. MD, DSc, M.H.A.

Macek Milan Jr. Department of Biology and Medical Genetics of Charles University Prague-2nd School of Medicine and Motol University Hospital; Prague, Czech Republic

President of the Czech Society of Medical Genetics and Genomics (www.slg.cz)

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Artificial intelligence in orthopaedics and orthopaedic prosthetics – how can it help us? (20 min.)

Bém Robert

Diabetes Centre, Institute for Clinical and Experimental Medicine; Prague, Czech Republic

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Current status of Mg-Zn wires and strands development (30 min.)

Tesař Karel¹, Luňáčková Jitka², Vrbová Radka², Dušková Jaroslava³, Juhás Štefan⁴, Klein Pavel⁵, Žaloudková Margit⁶, Bartoš Martin², Tichá Pavla⁷, Balík Karel⁶

¹ *Department of Materials, Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University in Prague; Prague, Czech Republic*

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³ *Institute of Pathology, First Faculty of Medicine, Charles University and General University Hospital in Prague; Prague, Czech Republic*

⁴ *Institute of Animal Physiology and Genetics, Czech Academy of Sciences; Liběchov, Czech Republic*

⁵ *Biomedical Center, Faculty of Medicine in Pilsen, Charles University; Pilsen, Czech Republic*

⁶ *Department of Composites and Carbon Materials, Institute of Rock Structure and Mechanics, Czech Academy of Sciences; Prague, Czech Republic*

⁷ *Department of Plastic Surgery, 3rd Faculty of Medicine, Charles University, Hospital Královské Vinohrady; Prague, Czech Republic*

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Perspective composite biomaterials suitable for the treatment of connective tissue defects and current trends in tissue engineering and regenerative medicine (30 min.)

Braun Martin

Department of Composites and Carbon Materials, Institute of Rock Structure and Mechanics, Czech Academy of Sciences, V Holešovičkách 41; Prague, Czech Republic

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DISCUSSION AFTER EACH LECTURE (time in brackets includes discussion)

15.30–15.45 | COFFEE BREAK

15.45 | SESSION IV: ORTHOPAEDICS, ORTHOPAEDIC PROSTHETICS

Chairmen: Karski Jacek, Pallová Iveta, Mařík Ivo

Discoid Meniscus in paediatric patients, symptoms, recognition, treatment (15 min.)

Karski Jacek, Ciszewski Andrzej, Matuszewski Łukasz

Paediatric Orthopaedic and Rehabilitation Department of Medical University of Lublin, Poland

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Proper therapy of children with orthopedic disorders – the chance of healthy and active function status of adults (30 min.)

Karski Tomasz¹, Karski Jacek², Minami Daniel³

¹ *In years 1995 – 2009 – Head of the University Pediatric Orthopedic Department in Lublin, Poland. From 2009 - Professor Lecturer in Vincent Pol University in Lublin, Poland*

² *Medical University in Lublin, Poland /*

³ *Medical Office, Wayne, Pennsylvania, USA /*

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Relationship of the shoulder girdle and the spine in scoliosis (15 min.)

Pallová Iveta

F-Therapy, Prague, Czech Republic

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DISCUSSION AFTER EACH LECTURE (time in brackets includes discussion)

17.00 | SESSION V: ORTHOPAEDICS AND ORTHOPAEDIC PROSTHETICS

Chairmen: Krawczyk Petr, Fejfarová Vladimíra, Svoboda Michal

Bone substitutes in the Diabetic foot (15 min.)

Fejfarová Vladimíra, Sutoris Karol, Sixta Bedřich

Diabetes Centre, Department of transplant surgery, Institute for Clinical and Experimental Medicine; Prague, Czech Republic

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Two-phase treatment of head positional deformities with a revolutionary 3D printed cranial orthosis (15 min.) online

Dilý Matěj

Invent Medical Group, s.r.o., Ostrava

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Charcot's neuroosteoarthropathy from the point of view of orthopedic prosthetics (15 min.)

Svoboda Michal

Orthopaedic Department, University Hospital Olomouc PROTEOR CZ, Ostrava

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EXPLORE THE POWER OF THE MOTION motionsmatrix® concept (15 min.)

Frána Michal Joshua

Polyclinic Dr. Frány

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DISCUSSION AFTER EACH LECTURE (time in brackets includes discussion)

18.00 | DINNER

SATURDAY, NOVEMBER 16, 2024

8.00–9.00 | REGISTRATION OF PARTICIPANTS

9.00–9.30 | PRESENTATION OF JUBILARIANS

Mařík Ivo

Introduction of Prof. Dr. Med. Hans Zwipp – 75 years

Mařík Ivo

Introduction of Associate Professor Michael Bellemore, MD, PhD, A.M.F.R.A.C.S – 70 years

Braun Martin

Introduction of Piet van Loon, MD – 70 years

Presentation of the Diploma of Honorary Membership in the Czech Medical Association (CMA) J.E. Purkyně by the President of the CMA J.E. Purkyně Professor Štěpán Svačina, MD, DSc

9.30–13.00 | MORNING SESSIONS

9.30 | SESSION VI: DISCONGRUENT OSTEONEURAL GROWTH RELATIONS

Chairmen: Mařík Ivo, van Loon Piet

Unhealthy postures (sagittal profiles) and serious (neuro-)muscular tightness in Dutch youth. A result of incongruent Osteoneural Growth Relations (20 min)

P.J.M. van Loon¹, A.M. Soeterbroek², R. van Erve³ and T.H. Smit⁴

¹ Orthopedic surgeon, Proktovar, Hengelo, the Netherlands;

² Analyst, Chairman Posture Network Netherlands,

³ Orthopedic Surgeon; former Care to Move, Deventer

⁴ Professor Tissue Engineering; Mechanobiology of development and disease; Amsterdam UMC

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Death toll in the Netherlands by not understanding serious incongruent Osteoneural Growth Relations (Roth). Death following accidental falls, a fast rising element in mortality (15 min.)

van Loon P.J.M.¹, Soeterbroek A.M.², Grotenhuis J.A.³, Smit T.H.⁴

¹ Orthopedic surgeon, Proktovar, Hengelo, the Netherlands;

² Analyst, Chairman Posture Network Netherlands, the Netherlands

³ Em. prof. neurosurgery Radboud University Nijmegen; the Netherlands

⁴ Professor Tissue Engineering; Mechanobiology of development and disease; Amsterdam UMC, the Netherlands

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DISCUSSION AFTER EACH LECTURE (time in brackets includes discussion)

10.30–11.00 | COFFEE BREAK

11.00 | SESSION VII: PALEOPATOLOGY AND PALEOGENETICS

Chairmen: Rühli Frank, Schünemann Verena, Smrčka Václav

Paleopathological findings in ancient Egyptian Mummies – an overview (30 min)

Rühli Frank

Faculty of Medicine, University of Zurich, Switzerland, www.medicine.uzh.ch

Founding Chair and Director, Institute of Evolutionary Medicine, University of Zurich, www.iem.uzh.ch

Co-Head, UZH Center for Crisis Competence, Faculty of Business, Economics, and Informatics, University of Zurich,

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Past Pandemics and One Health: Tracing pathogen through time with ancient DNA (20 min)

Schünemann Verena

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Metabolic diseases in early Ottoman children from coastal Asia Minor (20 min)

Scheelen-Nováček Kristina^{1,2}, Nováček Jan^{3,4}

¹ *Federal Archaeological Office of Bremen, Germany*

² *Department of Biology and Chemistry, University of Hildesheim; Hildesheim, Germany*

³ *Thuringian State Service for Cultural Heritage and Archaeology; Weimar, Germany*

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DISCUSSION AFTER EACH LECTURE (time in brackets includes discussion)

13.00–13.45 | LUNCH

13.45–16.00 | AFTERNOON SESSIONS

13.45 | SESSION VII: PALEOPATOLOGY AND PALEOGENETICS

Chairmen: Martin Mihaljevič, Jan Nováček, Václav Smrčka

Pearls of Vysočina – (film documentary, 45 minutes)

Smrčka Václav 1, Zapletal Vít², Musilová Zdenka³

¹ *Institute for History of Medicine and Foreign Languages, First Faculty of Medicine, Charles University in Prague; Prague, Czech Republic*

² *Municipal Library of Prague*

³ *Municipality of the Town, Letovice*

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Age (14C) and composition ($\delta^{13}C$ and $\delta^{15}N$) of skeletal remains from Czech and Moravian ossuaries (20 min)

Mihaljevič Martin¹, Smrčka Václav²

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² *Institute for History of Medicine and Foreign Languages, First Faculty of Medicine, Charles University in Prague; Prague, Czech Republic*

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First reported archaeological case of leprosy in Slovakia (20 min)

Hukelová Zuzana, Nováček Jan, Daňová Klaudia, Ruttkay Matej

Institute of Archaeology of the Slovak Academy of Sciences, v. v. i.; Nitra, Slovakia

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An Early Neolithic “family” with severe joint dysplasia and stunted growth from Central Germany (20 min)

Nováček Jan^{1,2}, Gresky Julia³

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² *Institute of Anatomy and Cell Biology, University Medical Centre, Georg-August University of Göttingen; Göttingen, Germany*

³ *German Archaeological Institute, Division of Natural Sciences, Berlin, Germany*

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DISCUSSION AFTER EACH LECTURE (time in brackets includes discussion)

16.00 | CLOSING OF THE SYMPOSIUM
AND PLANNING OF THE 27TH INTERNATIONAL SYMPOSIUM

IVO MAŘÍK & PETR KRAWCZYK & TOMASZ KARSKI & JACEK KARSKI & PIET VAN LOON

18.00 | DINNER

ORGANIZERS OF THE SYMPOSIUM

Professor Ivo Mařík, MD, PhD

Faculty of Health Care Studies, West Bohemia University, Pilsen & Centre for Defects of Locomotor Apparatus I.I.c., Prague, Czech Republic, ambul_centrum@volny.cz

&

Petr Krawczyk, MD, PhD

PROTEOR CZ I.I.c., Department of Rehabilitation and Physical Medicine, University Hospital Ostrava, Ostrava, Czech Republic, krawczyk@proteorc.cz

&

Professor Václav Smrčka, MD, PhD

Institute for History of Medicine and Foreign Languages

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&

Martin Braun, RNDr., PhD

Department of Composites and Carbon Materials, Institute of Rock Structure and Mechanics,

Czech Academy of Sciences, Prague, Czech Republic, braun@irms.cas.cz

&

Prof. Tomasz Karski, MD, PhD & Jacek Karski, MD, PhD

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Participants will receive the Programme and Certificate of Attendance

Abstracts of lectures will be published in Supplement 2 of the journal Locomotor System, vol. 31, 2024 (electronic version, ISSN 2336-4777, <http://www.pojivo.cz/en/locomotor-system/>)

The latest information about the Symposium will be available on the websites:

www.pojivo.cz & www.ortoprotetika.cz

NOTE: The organizers are preparing a symposium in both in-person and online formats.

Sign up for active or passive participation will be listed on the website www.pojivo.cz or www.ortoprotetika.cz