



INVITATION

Society For Connective Tissues CMA J.E. Purkyně & Society for Prosthetics and Orthotics CMA J.E. Purkyně
& Czech Society of Biomechanics & Czech Medical Association J.E. Purkyně

invite you for

CONFERENCE

(instead of cancelled The 22nd Prague-Lublin-Sydney-St Petersburg Symposium)

ADAPTATION – INTERDISCIPLINARY ASPECTS

The Symposium will be held under the auspices
the honorary president of the Society for Connective Tissues CMA J.E. Purkyně
Professor Josef Hyánek, MD, DSc.

The Symposium will be held in the
Medical House, Sokolská 31, 120 26 Prague 2, Czech Republic in September 12, 2020

**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.**

Organizers of the Conference:

Prof. Ivo Marik, MD, PhD & Petr Krawczyk, MD

E-mails: ambul_centrum@volny.cz & krawczyk@proteorcz.cz

Faculty of Health Care Studies, West Bohemia University, Pilsen & Ambulant Centre for Defects of Locomotor Apparatus I.I.c., Prague, Czech Republic,
E-mail: ambul_centrum@volny.cz & PROTEOR CZ I.I.c., Ostrava, Czech Republic, E-mail: krawczyk@proteorcz.cz

Participants will receive the Programme and Certificate of Attendance.

Abstracts of lectures will be published in Supplement 2 of the journal Locomotor System, vol. 27, 2020 (electronic version, ISSN 2336-4777,
<http://www.pojivo.cz/cz/pohybove-ustroji/>)

More recent information about the Conference will be available on the websites:
www.pojivo.cz & www.ortoprotetika.cz



PROGRAMME – SATURDAY, SEPTEMBER 12, 2020

8.30–9.00 REGISTRATION OF PARTICIPANTS

9.00

OPENING OF THE CONFERENCE

Professor Ivo Marik, MD, PhD (President of the Society for Connective Tissues CMA J.E. Purkyně)
& Professor Miroslav Petrtýl, Eng, PhD, DSc. (Vice-President of the Society for Connective Tissues CMA J.E. Purkyně)
& Petr Krawczyk, MD (President of the Society for Prosthetics and Orthotics CMA J.E. Purkyně)

9.00–13.00

MORNING SESSIONS

SESSION I: ADAPTATION IN MANKIND EVOLUTION

Chairmen: Pařízková Jana, Kutílek Štěpán, Piet van Loon

What have we inherited, what do we share with our ancestors: the development of calciotropic hormones (PTH, calcitonin, vitamin D, phosphatonin) in the course of phylogenesis.
Co jsme podělili, co máme společného s předky: vývoj calciotropních hormonů (parathormon, kalcitonin, vitamin D, fosfatonin) v průběhu fylogeneze (15 + 5 min.)

KUTÍLEK ŠTĚPÁN (KLATOVY, CZECH REPUBLIC)
Dept. of Paediatrics; Hospital Klatovy; Klatovy

Hudáková Olga: Introduction of Dr. Piet van Loon

Negative adaptive strategies of the human locomotor apparatus in children on their intensive sedentary lifestyle
Negativní strategie adaptace pohybového aparátu u dětí na jejich sedavý způsob života (35 + 5 min.)

VAN LOON PIET JM¹, GROTENHUIS ANDRE H²
Deventer, The Netherlands

¹ Orthopedic surgeon, Care to Move, Centre for Orthopedics, Deventer, The Netherlands

² Professor of neurosurgery, RadboudMC, University of Nijmegen, The Netherlands

The impact of early adaptation for reduced physical activity on body composition and motor development in children and motoric ability in growth period

Vliv rané adaptace k omezenému pohybu na rozvoj tělesného složení a motoriku v období růstu (25 + 5 min.)

PAŘÍZKOVÁ JANA, SEDLAK PETR (PRAGUE, CZECH REPUBLIC)
Dept. of Anthropology and Human Genetics, Prague, Czech Republic

ROUND TABLE DISCUSSION AFTER EACH LECTURE

COFFEE BREAK



SESSION II: BIOMECHANICS – ADAPTATION OF SKELETON

Chairmen: Krawczyk Petr, Petrtyl Miroslav, Marik Ivo

Functional adaptation of bones. Explanation of skeletal deformities in Genetic Skeletal Disorders (GSD) Funkční adaptace kostí. Objasnění vzniku deformit kostry u Genetických kostních chorob (GKCH) (25 + 5 min.)

MAŘIK IVO^{1,2,4}, ZEMKOVÁ DANIELA^{1,3}, MYSLIVEC RADEK^{4,1}, MAŘIKOVA ALENA¹, ČERNÝ PAVEL^{5,2}, KRAWCZYK PETR⁶ (PRAGUE, CZECH REPUBLIC)

¹ Centre for Defects of Locomotor Apparatus I.L.C.; Prague

² Faculty of Health Care Studies, West Bohemia University; Pilsen

³ Dept. of Paediatrics; University Hospital Motol; Prague

⁴ Orthopaedic and Traumatology Department, Hospital Pribram; Pribram

⁵ Ortotika I.L.C.; Prague

⁶ PROTEOR CZ I.L.C.; Ostrava

Biomechanic and bioelectric effects regulate processes of corticalis adpatation Biomechanické a bioelektrické účinky regulují procesy adaptace kortikalis (15 + 5 min.)

PETRÝL MIROSLAV (PRAGUE, CZECH REPUBLIC)

Laboratory of Biomechanics and Biomaterial Engineering, Department of Mechanics, Faculty of Civil Engineering, CTU; Prague

Biomechanic gait model with and without stick Biomechanický model chůze s holí a bez hole (15 + 5 min.)

ČULÍK JAN (PRAGUE, CZECH REPUBLIC)

ROUND TABLE DISCUSSION AFTER EACH LECTURE

COFFEE BREAK

SESSION III: BIOMECHANICS – ADAPTATION OF SKELETON

Chairmen: Marik Ivo, Krawczyk Petr

So-called idiopathic scoliosis. Historical dates of discoveries. Fate and fortune of new knowledge Tzv. idiopatická skolióza. Historie objevů. Osud a štěstí nových znalostí (20 + 5 min.)

KARSKI TOMASZ (LUBLIN, POLAND)

Vincent Pol University in Lublin, Poland

PRESENTER: MARIK ANTONÍN

Faculty of Physics, Education and Sport, Charles University, Prague, Czech Republic

How to Treat Acute Compartment Syndrome of Foot and Ankle in Childhood and Adolescence Jak léčit akutní kompartment syndrom nohy a hlezna u dětí a dospívajících (20 + 5 min.)

ZWIPP HANS (DRESDEN, GERMANY)

Orthopedic and Traumatology Department of the University in Dresden, Germany



Dega pelvic osteotomy in treatment of DDH, 50th Anniversary
Degova osteotomie pánve v léčení vývojové dysplazie kyčlí, 50. výročí (15 + 5 min.)

KARSKI JACEK¹, OKOŃSKI MAREK¹, OSTROWSKI JERZY¹, MATUSZEWSKI ŁUKASZ¹, KANDZIERSKI GRZEGORZ¹, KARSKI TOMASZ² (LUBLIN, POLAND)

¹ Paediatric Orthopaedic and Rehabilitation Department of Medical University in Lublin, Poland

² Vincent Pol University in Lublin, Poland

PRESENTER: MARIK IVO

¹ Centre for Defects of Locomotor Apparatus I.L.C.; Prague; Czech Republic

² Faculty of Health Care Studies, West Bohemia University; Pilsen

ROUND TABLE DISCUSSION AFTER EACH LECTURE

12.30

CLOSING OF THE CONFERENCE AND PLANNING
THE 23RD PRAGUE-LUBLIN-SYDNEY-ST. PETERSBURG SYMPOSIUM

Ivo Marik & Petr Krawczyk & Miroslav Petrtýl & Piet van Loon

LUNCH

SOCIAL PROGRAMME

14.00

NATIONAL MUSEUM