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

invite you to

THE 19TH PRAGUE-LUBLIN-SYDNEY-ST. PETERSBURG SYMPOSIUM

main topic

INTERDISCIPLINARY APPROACH TO GROWING SKELETON

under the auspices of

honorary president of the Czech Medical Association J.E. Purkynje

Professor Jaroslav Blahoš, MD, DSc.

&
director of Charles University Hospital Hradec Králové

Professor Vladimir Palička, MD, PhD, Dr.h.c.

&
dean of The Faculty of Health Care Studies, West Bohemia University

Assoc. Professor Dr. Ilona Mauritzová, PhD

The Symposium will be held in the Czech Police Museum & the Medical House
Sokolská 31, 120 26 Prague 2, Czech Republic
September 13–16, 2017
Speech of welcome to

The 19th Prague-Lublin-Sydney-St. Petersburg Symposium – Interdisciplinary approach to growing skeleton

Prague, September 13, 2017

Dear Ladies and Gentlemen, my dear colleagues!

I cordially welcome you all at this traditional international symposium which establishment will be mentioned by my friend Professor Tomasz Karski who is an honorary member of the Society for Connective Tissues, Czech Medical Association J.E.Purkynje. It is my great honour to welcome among us Associate Professor Dr. Ilona Mauritzova, PhD, the dean of The Faculty of Health Care Studies, West Bohemia University and invited speaker Professor Vladimir Palicka, MD, PhD., Dr.h.c., the director of Charles University Hospital Hradec Králové and president of the Czech Society for Metabolic Bone Diseases. Professor Jaroslav Blahos, MD, DSc., honorary president of the Czech Medical Association (CMA) J.E. Purkynje (JEP) was unable to join us because of his health problems. He sends his regards to all participants and he wishes success to the Symposium. It is my pleasure to welcome Professor Milan Bayer, PhD who is one of the founders of the Czech Society for Metabolic Bone Diseases and chief editor of the medici journal Osteological Bulletin. I cordially welcome all colleagues and especially those who participate in the Symposium for the first time. I am very pleased that this year the programme of the Symposium attracted colleagues from Belarus, Greece, Germany, the Netherlands, Poland, Russia and Ukraine and I hope for a future close not only scientific cooperation.

My great thanks belong to all International organizers – these are Professor Tomasz Karski, his son Assistant Professor Jacek Karski, MD, PhD from Lublin, further Prof. Mikhail Dudin, MD, DSc. and Assistant Professor Aleksey Shashko, MD from St. Petersburg. My warm thanks belong mainly to my close college Petr Krawczyk, MD(Ostrava, Czech Republic), president of the Orthotic and Prosthetic Society CMA JEP and last but not least to members of the Committee of the Society for Connective Tissues CMA JEP who prepared for you interesting social program.
The organizers are grateful for the support of The Symposium especially to the General Partner “ottobock.” and the Partner “Orling s.r.o.”

I believe that scientific lectures will amplified our knowledge which will become a profit for our disabled patients. I wish you to enjoy new scientific information, your stay in Prague and I wish you to make new friendships which will help us to arrange international and interdisciplinary scientific research.

At the end of my speech I would like to remember you well known Professors: Jacques Cheneau, Georg Neff, Kazimierz Kozlowski and Michael Bellemore. They sincerely wish a great success to The 19th Prague-Lublin-Sydney-St Petersburg Symposium.

Now, let me a short reminiscence of a few moments that we spent with most of you in Zwierzyniec (District Zamość, Poland) in September 2016. Look at photos.

Professor Ivo Marik, MD, PhD, FABI

Faculty of Health Care Studies, West Bohemia University, Pilsen, CZ
Chief of the Centre for Patients with Locomotor Defects, Prague, CZ
President of the Society for Connective Tissue, CMA J. E. Purkynje
Scientific secretary of the Society for Prosthetics and Orthotics, CMA J. E. Purkynje
Chief-Editor of the journal Locomotor System – advances in research, diagnostics and therapy
Prague, Czech Republic
E-mail: ambul_centrum@volny.cz
Dear Friends, Dear Colleagues,

it is my very big privilege to be together with our Friends – Professors, Doctors of various specializations, Physiotherapists, Orthopaedic-Prosthetics &Technicians in the 19th Symposium in Prague.

I would like to remember you, that majority of Symposia went on here, in Prague in Czech Republic, one time in Kroměříž, Czech Republic (The 17th Symposium, 2015). The first meeting of the interested specialists in genetic skeletal disorders took place in 1999 year in Sydney a next year in Prague due to close cooperation with Associate Professor Kazimierz Kozlowski M.R.A.C.R. and Associate Professor Michael Bellemore F.R.A.C.S. from Sydney (both from Children’s Hospital Medical Centre in Westmead Australia). These meetings were retrospectively called “The 1st and the 2nd Prague-Sydney Symposium”. In 2006 the symposium was re-called to The Prague-Lublin-Sydney Symposium because of close cooperation with Lublin orthopaedic paediatric surgeons.

In 2011, The 13th Symposium Prague-Sydney-Lublin & Biomechanical workshop was taken place in Rhodos (Greece), next year in Sarbinowo (Poland).

In 2013, The 15th Symposium was held in St. Petersburg (Russia) in “Ogonyok” Rehabilitation Centre and the designation of the symposium was again extended.

In 2014, The 16th Prague-Lublin-Sydney-St. Petersburg Symposium took place in Military Hospital in Lublin (Poland).

The 18th Symposium took place in Guest House „Zacisze” in Zwierzyniec (Poland) in 2016.
The 19th Symposium Prague-Lublin-Sydney-St. Petersburg gathers us in beautiful Prague. I would like to repeat, that these all scientific meetings were and are possible only owing to Professor Ivo Marik, thanks to his hard work, good organization, good cooperation with the other friends from Czech Republic and with colleagues from abroad.

Dear Ivo, many thanks to you and yours co-organizers!

I am sure, that The 19th Symposium will be, like foregoing, in friendly atmosphere, with successful organization and it will bring us recent interdisciplinary knowledge and new good ideas for treatment of sick and disabled patients

Prof. Tomasz Karski MD PhD
Former head of the Paediatric Orthopaedic and Rehabilitation Department of Medical University in Lublin (1995–2009)
Actually: Professor Lecturer in Vincent Pol University in Lublin

tmkarski@gmail.com
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www.ortopedia.karski.lublin.pl
Hello, Golden Prague! Dobrý Den! 
Ladies and gentlemen!

One more year flies by and we meet again at The 19th Symposium! It is quite special to us, because exactly four years ago, you, dear friends and colleagues, welcomed specialists from Saint-Petersburg Children's Rehabilitation Centre of Orthopedics and Traumatology “Ogonyok” into the kind and friendly family of yours!

Since that memorable year, 2013, the ideology of the Symposium has taken the leading role in planning and realization of all the scientific-practical work of our Centre.

Jan Evangelista Purkynje, a great Czech encyclopaedist, who was born 230 years ago, and was the founder of present day science about tissues of a living organism, the man, after who was named not only a number of anatomic structures, but also a crater on the Moon, always stood for cooperation of people, organizations, and nations in the fields of science and culture.

With good reason, I think, that Prague-Lublin-Sydney-Saint-Petersburg Symposium, which cultivates the interdisciplinary cooperation in solving problems connected to locomotor system, is a well-deserved follower of the ideas of the great Czech. And thus, we are proud that we are able to make our humble contribution.

From all my heart, I wish the Symposium, which will undoubtedly give us all new knowledge and ideas, to work successfully

Sincerely yours

Professor Mikhail Dudin
Director of Children’s Rehabilitation Centre of Orthopedics and Traumatology “Ogonyok” St. Petersburg, Russia
E-mail: ogonek@zdrav.spb.ru
SYMPOSIUM FINAL PROGRAMME

WEDNESDAY, SEPTEMBER 13, 2017

Arrival of participants to Prague

19.30  GALA DINNER WITH FOREIGN GUESTS
       Restaurant “Historie” (Londýnská 52, Praha 2 – near Metro station I.P. Pavlova

THURSDAY, SEPTEMBER 14, 2017

8.00–9.00 REGISTRATION OF PARTICIPANTS
       in the Czech Police Museum (Ke Karlovu 1, Praha 2, www.muzeumpolicie.cz)

9.00 OPENING OF THE SYMPOSIUM

Ivo Marik & Tomasz Karski & Mikhail Dudin (or Aleksey Arsenev)

WELCOME SPEECHES

Professor Ivo Marik, MD, PhD
President of the Society for Connective Tissues, Czech Medical Association J.E. Purkynje

Professor Mikhail Dudin, MD, DSc.
Honorary member of the Society for Connective Tissues, Czech Medical Association J.E. Purkynje

Professor Tomasz Karski, MD, PhD
Honorary member of the Society for Connective Tissues, Czech Medical Association J.E. Purkynje
GREETINGS

Assoc. Professor Dr. Ilona Mauritzová, PhD
Dean of The Faculty of Health Care Studies, West Bohemia University

Professor Josef Hyanek, MD, DSc.
Honorary president of the Society for Connective Tissues, Czech Medical Association J.E. Purkynje

9.30–12.00 SESSION I

BIOMECHANICS – VARIA

Chairmen: PETRTYL MIROSLAV, CULIK JAN, MARSIK FRANTISEK

PETRTYL MIROSLAV¹, VOLF JAROMÍR², POVSIL CtIBOR³ (PRAGUE, CZECH REPUBLIC)
The subtle electrical energy in bone tissue (30 min.)
¹ Department of Mechanics, Laboratory of Biomechanics and Biomaterial Engineering, Czech Technical University, FCE, Prague, Czech Republic
² Department of Electrical Engineering and Automation, The Faculty of Engineering, Czech University of Life Sciences Prague
³ Institute of Pathology, 1st Faculty of Medicine, Charles University, Prague, Czech Republic

MARSIK FRANTISEK¹, ², ³ (PRAGUE, CZECH REPUBLIC)
The irreversibility of natural processes and their consequences for the evolution of biological systems. Entropy and its biological interpretation (30 min.)
¹ Institute of Thermomechanics of the Czech Academy of Sciences, Prague, Czech Republic
² University of West Bohemia, New Technologies - Research Centre, Pilsen, Czech Republic
³ Faculty of Mathematics and Physics, Charles University, Prague, Czech Republic

TESAR KAREL¹, ², SUCHARDA ZBYNEK³, ZALOUDKOVA MARGIT³, BALIK KAREL³ (PRAGUE, CZECH REPUBLIC)
Biodegradable magnesium wires for bone support application (20 min.)
¹ Department of Materials, Faculty of Nuclear Sciences and Physical Engineering, Czech Republic
² Department of Dielectrics, Institute of Physics of the Czech Academy of Sciences, Czech Republic
³ Department of Composites and Carbon Materials, Institute of Rock Structure and Mechanics of the Czech Academy of Sciences, Prague, Czech Republic
BRAUN MARTIN, RYGLOVA SARKA, SUPOVA MONIKA, ZALOUDKOA MARGIT, KRIZKOVÁ MARTINA, SUCHARDA ZBYNEK, SUCHY TOMAS (PRAGUE, CZECH REPUBLIC)
Chemical analysis of collagen and non-collagen components of composite biomaterials for implantology (20 min.)
Department of Composites and Carbon Materials, Institute of Rock Structure and Mechanics, Academy of Science, Prague, Czech Republic

CULIK JAN (PRAGUE, CZECH REPUBLIC)
Gait model (20 min.)
Czech Technical University, Division of Informatics of Faculty of Biomedical engineering, Kladno, Czech Republic

KRAWCZYK PETR¹, MARIK IVO²-⁴, JAKUB JOZEF¹, SYKORA ALES¹, ZEMKOVÁ DANIELA², PETRASOVA SARKA², MARÍK JAN²,UCHYTIL JAROSLAV³, JANÁČKA DANIEL³ (PRAGUE & OSTRAVA, CZECH REPUBLIC)
Influence of the weight of the transtibial prosthesis on postural stability and locomotion (20 min.)
¹ PROTEOR CZ l.l.c., Ostrava, Czech Republic
² Ambulant Centre for Defects of Locomotor Apparatus l.l.c., Prague, Czech Republic
³ Diagnostic Centre of Human Movement PdF, Ostrava University, Czech Republic
⁴ Faculty of Medical Studies, West Bohemia University, Pilsen, Czech Republic

12.00  LUNCH

13.00–16.30  SESSION II

Invited lecture of the President of the Society for Metabolic Bone Diseases (SMOS), Czech Medical Association J.E. Purkynje
PROFESSOR VLADIMIR PALICKA, MD, PHD, DR.H.C.

Introduction: OLGA HUDAKOVA, MD, PHD

PALICKA VLADIMIR (HRADEC KRALOVE, CZECH REPUBLIC)
Clinical Osteology in the Czech Republic (organization and development) (30 min.)
Charles University and University Hospital Hradec Králové, Czech Republic

Moderator: PROFESSOR JOSEF HYANEK, MD, DSC.
(Honorary president of the Society for Connective Tissues, Czech Medical Association J.E. Purkynje)
OSTEOLOGY, BONE METABOLISM

**Chairmen:** PALICKA VLADIMIR, LYRITIS GEORGE, HYANEK JOSEF, MARIK IVO

PROFESSOR GEORGE LYRITIS, MD, PHD, DR.H.C.

**Introduction:** OLGA HUDAKOVA, MD, PHD

**LYRITIS GEORGE** (Emeritus Professor of Orthopedics, President of Hellenic Osteoporosis Foundation, Honorary Member of the Society for Connective Tissues, Czech Medical Association J.E. Purkynje) (Athens, Greece)

**ELECOST: A Greek educational tool for the diagnosis and management of osteoporosis in Greece** (30 min.)

Faculty of Medicine, National and Kapodistrian University of Athens, Greece

**RIZOU STAVROULA** (Athens, Greece)

**Are Women Overtreated for Osteoporosis?** (30 min.)

Hellenic Osteoporosis Foundation, Kifissia, Greece

**NIKOLAOU DIMITRIOS**¹, **RIZOU STAVROULA**² (Athens, Greece)

**A novel approach for fracture risk and risk of falling aggregation** (30 min.)

¹ Medical School, National and Kapodistrian University of Athens, Greece

² Hellenic Osteoporosis Foundation, Kifissia, Greece

**LAMBROU GEORGE**¹, ², ³, ⁴ (Athens, Greece)

**Microgravity and bone metabolism. Issues of orbis novum colonization** (30 min.)

¹ National and Kapodistrian University of Athens, Medical School

² Graduate Program “Metabolic Bones Diseases”, National and Kapodistrian University of Athens,

³ Medical School, Goudi, Athens, Greece

⁴ First Department of Pediatrics, University of Athens, Choremeio Research Laboratory, National and Kapodistrian University of Athens, Greece

15.30 **COFFEE BREAK**

**BAVER MILAN**¹, ², **JIROTKOVA JANA**³ (Prague, Czech Republic)

**Osteogenesis imperfecta – treatment with bisphosphonate from newborn period** (30 min.)

¹ Department of Children and Adolescents, Third Faculty of Medicine, Charles University, Prague, Czech Republic

² Department of Pediatrics, Thomayer Hospital of Prague, Czech Republic

³ Department of Pediatrics, Hospital of Ceske Budejovice, Czech Republic
Alendronate therapy for osteogenesis imperfecta in children: ten-year follow-up (30 min.)

1 Department of Orthopaedic Surgery, Charles University Hospital, Pilsen, Czech Republic
2 1st Medical Faculty Prague, Charles University, Central Military Hospital, Prague, Czech Republic

17.30 GUIDED VISIT OF THE EXHIBITION MAN-MADE MAN-TECHNOLOGY AND MEDICINE, NATIONAL TECHNICAL MUSEUM PRAGUE

20.00 DINNER
Note: transfer to the National Technical Museum and to dinner is secured by bus

FRIDAY, SEPTEMBER 15, 2017

8.00–9.00 REGISTRATION OF PARTICIPANTS
in the Medical House, Prague (Sokolská 490/31, 120 00 Praha 2, www.cls.cz/koncepce-vyuziti-lid)

9.00–13.00 SESSION III:

SPINE DISORDERS I: PATHOGENESIS, DIAGNOSIS AND TREATMENT

Chairmen: KARSKI TOMASZ, ARSENEV ALEKSEY VALENTINOVIICH, REPKO MARTIN

KARSKI TOMASZ1, KARSKI JACEK2 (LUBLIN, POLAND)
Twenty two years of knowledge about aetiology of the so-called idiopathic scoliosis (adolescent idiopathic scoliosis – AIS). Rules of casual prophylactics and new treatment. Examples (20 min.)
1 Vincent Pol University in Lublin, Poland
2 Pediatric Orthopedic and Rehabilitation Department of Medical University in Lublin, Poland

PULLOVA IVETA (PRAGUE, CZECH REPUBLIC)
Characteristic features of idiopathic scoliosis (20 min.)
Center of Rehabilitation, Pediatrics and Acupuncture, Prague, Czech Republic
**Arsenev Aleksey Valentinovich, Dudin M.G. (St. Petersburg, Russia)**

“Targets” for pathogenetic treatment of patients with adolescent idiopathic scoliosis (20 min.)

Children’s Rehabilitation Center of Orthopaedics and Traumatology “Ogonyok”, St. Petersburg, Russia

**Repko Martin, Filipovic Milan (Brno, Czech Republic)**

Surgical Treatment Strategy of Early Onset Scoliosis (20 min.)

Orthopaedic department, Faculty Hospital of Masaryk’s University, Brno, Czech Republic

**Piet J.M. van Loon¹, Ruud HGP van Erve¹, Eric BTM Thunnissen², Lodewijk W. van Rijn³, Andre J Grotenhuis⁴ (Deventer, Amsterdam, Maastricht & Nijmegen, Netherlands)**

Sedentary lifestyle and discongruent neuro-osseous growth relations (M. Roth) as external and internal etiologic factors of spinal deformity and skeletal malalignment. Modern youth and their short cord (20 min.)

¹ Orthopedic surgeon, Care to Move, Centre for Orthopedics, Deventer, Netherlands
² Pathologist, epidemiologist VUMC, Free University, Amsterdam, Netherlands
³ Professor of orthopedic surgery, Maastricht UMC, Maastricht, Netherlands
⁴ Professor of neurosurgery, RadboudMC, University of Nijmegen, Netherlands

11.00 COFFEE BREAK

**SPINE DISORDERS II – PATHOGENESIS, DIAGNOSIS AND TREATMENT – VARIA**

**Chairmen: Kolesnichenko Vera, Cerny Pavel, Karski Jacek**

**Cerny Pavel¹, ², ³, Stolinski Lukasz⁴, ⁵, ⁶, Zaprowski Darius⁷, ⁸, Marik Ivo ¹, ⁹, Muranova J.³, Kotwicki T.⁴ (Prague, Pilsen, Czech Republic – Poznan Olsztyn, Poland)**

Method of measuring axial pelvis rotation – a pilot study (20 min.)

¹ Faculty of Health Care Studies, University of West Bohemia, Pilsen, Republic
² Faculty of Physical Education and Sport, Charles University, Prague, Republic
³ ORTOTA, l.l.c., the complex of the Faculty Hospital at Motol, Prague, Republic
⁴ Department of Spine Disorders and Pediatric Orthopedics, University of Medical Sciences, Poznan, Poland
⁵ Rehasport Clinic, Poznan, Poland
⁶ Rehasport Clinic Licensed Rehabilitation Center, Skierniewice, Poland
⁷ Department of Physiotherapy, Józef Rusiecki University College, Olsztyn, Poland
⁸ Center of Body Posture, Olsztyn, Poland
⁹ Ambulant Centre for Defects of Locomotor Apparatus l.l.c., Prague, Czech Republic
The potential of modern mobile technology for the diagnosis of anthropometric parameters of a human (20 min.)

Kolesnichenko Vera1, Gresko Igor2 (Kharkov & Lviv, Ukraine)

Motor control dysfunction particularly in patients with chronic low back pain and a variety of myotonic reactions (20 min.)

Karski Tomasz1, Kędzierski Zbigniew2, Karski Jacek3, Domagała Marian4, Slowinska Beata2, Kowalska Magdalena2, Boryga Bartosz2 (Lublin, Poland) (30 min.)

Physiotherapy of spine, hips, knees, feet, shoulders – correct, incorrect, mistakes, wrong conceptions. Examples.

Kersko Daniele1, Marko Ivo1,2,4, Petrasova Sarka1, Hudakova Olga1 (Prague & Pilsen, Czech Republic)

Skeletal disorders with lower and higher bone density (30 min.)

13.00 LUNCH

14.00–18.30 SESSION IV

DISORDERS OF GROWING SKELETON – ORTHOPAEDIC ANTHROPOLOGY – PATHOBIOMECHANICS – VARIA

Chairmen: Zemková Daniela, Karski Tomasz, Krawczyk Petr

Zemkova Daniela3.1, Marko Ivo1,2,4, Petrasova Sarka1, Hudakova Olga1 (Prague & Pilsen, Czech Republic)
Recessive forms of osteogenesis imperfecta (20 min.)

1 Department of Pediatrics and Adolescent Medicine, First Faculty of Medicine, Charles University and General University Hospital in Prague, Czech Republic;
2 Ambulant Centre for Defects of Locomotor Apparatus 1.1.c., Prague, Czech Republic;
3 Institute of Molecular Genetics of the ASCR, v. v. i, Division BIOCEV, Vestec, Czech Republic
4 Faculty of Health Care Studies, West Bohemia University; Pilsen, Czech Republic

Functional adaptation of bones. Explanation of skeletal deformities in skeletal genetic disorders (30 min.)

1 Ambulant Centre for Defects of Locomotor Apparatus I.I.c.; Prague; Czech Republic
2 Faculty of Health Care Studies, West Bohemia University; Pilsen, Czech Republic
3 Dept. of Paediatrics; University Hospital Motol; Prague; Czech Republic
4 Orthopaedic and Traumatology Department, Hospital Pribram, Czech Republic
5 Ortotica I.I.C., Prague, Czech Republic
6 PROTEOR CZ I.I.C., Ostrava, Czech Republic

Leg length discrepancy following total hip arthroplasty (20 min.)

Department of Trauma and Orthopaedic Surgery, Hospital Pribram, Czech Republic

Surgical treatment of flexible flatfoot in children. Early follow up study (20 min.)

Department of Pediatric Orthopaedics and Traumatology, Medical University of Bialystok, Bialystok, Poland

Indications for surgical treatment in Perthes disease. The effectiveness of different methods (20 min.)

1 Paediatric Orthopaedic and Rehabilitation Department of Medical University in Lublin, Poland
2 Department of Interventional Radiology and Neuroradiology of Medical University in Lublin, Poland

16.30 COFFEE BREAK
Chairmen: ZWIPP HANS, PARIZKOVÁ JANA, SMRČKA VACLAV

PROFESSOR HANS ZWIPP, MD, PHD, DR.H.C.

Introduction: OLGA HUDAKOVA, MD, PHD

ZWIPP HANS (DRESDEN, GERMANY)
Fractures of the Foot and its Relevance of Foot Development in Children (30 min.)
Orthopedic and Traumatology Department of the University in Dresden, Germany

NEMEC IVO1, SMRČKA VAČLAV2, MIHALJEVIĆ M.3, MAZANEK J.4, POKORNÝ J.5 (PRAGUE, CZECH REPUBLIC)
Effect of inferior alveolar nerve transection on the inorganic component of the mandible – experimental model (20 min.)
1 Department of Otorhinolaryngology and Maxillofacial Surgery 3rd Faculty of Medicine of Charles University in Prague & the Military University Hospital Prague, Czech Republic.
2 Institute for History of Medicine and Foreign Languages & Department of Plastic Surgery, 1st Faculty of Medicine, Charles University in Prague, Bulovka Hospital, Czech Republic
3 Institute of Geochemistry, Mineralogy and Mineral Resources, Faculty of Science, Charles University in Prague, Czech Republic
4 Department of Stomatology, 1st Faculty of Medicine, Charles University in Prague and General University Hospital in Prague, Czech Republic
5 Institute of Physiology, 1st Faculty of Medicine, Charles University in Prague, Czech Republic

ZARKOVIC DRAGANA1, SORFOVA MONIKA1, GROLEGER-SRSEN KATJA2, CIKAJO IMRE3 (PRAGUE, LJUBLJANA & SOCA, CZECH REPUBLIC & SLOVENIA)
Can we improve selective voluntary motor control in cerebral palsied children? (20 min.)
1 Charles University in Prague, Faculty of Physical Education and Sport, Department of Anatomy and Biomechanics, Prague, Czech Republic, University of Ljubljana, Faculty of Medicine, Slovenia
2 University Rehabilitation Institute of Republic Slovenia - Soča, Children's rehabilitation department, Ljubljana, Slovenia
3 University Rehabilitation Institute of Republic Slovenia - Soča, Laboratory of clinical kinesiology, Ljubljana, Slovenia

RYBA LUKAS1, KOUDELA KAREL2, MARÍK IVO1,3, RYBOVÁ STEPANKA1, STASKOVA SARKA1, VLČKOVAIVA1 (PILEN & PRAGUE, CZECH REPUBLIC)
Physiotherapy treatment in patient with femoroacetabular impingement – systematic review (20 min.)
1 Faculty of Health Care Studies, West Bohemia University; Pilsen, Czech Republic
2 Faculty of Medicine, Charles University, Pilsen, Czech Republic
3 Ambulant Centre for Defects of Locomotor Apparatus; Prague; Czech Republic

PARIZKOVÁ JANÁ, SEDLÁK PETR, MUSALEK M., DVORÁKOVÁ H. (PRAGUE, CZECH REPUBLIC)
Long term changes of physical activity, motor abilities and problems, and body composition in children and adolescents (20 min.)
Obesity Management Centre, Institute of Endocrinology, Prague, Czech Republic
20.00  DINNER – RAUT
Restaurant Historie (Londýnská 52, Praha 2 – near Metro station I.P. Pavlova,
http://www.restaurace-historie.cz/)

SATURDAY, SEPTEMBER 16, 2017

8.00–9.00  REGISTRATION OF PARTICIPANTS
in the Medical House, Prague (Sokolská 490/31, 120 00 Praha 2)

9.00–12.00  SESSION V: LECTURES & POSTERS

DISORDERS OF GROWING SKELETON –
ORTHOTICS AND PROSTHETICS – BIOMECHANICS – VARIA

Chairmen: POVYSIL CTIBOR, ZEMKOVA DANIELA, KUKLIK MILOS SLAV

POVYSIL CTIBOR1, MARIK IVO2, 3, ZEMKOVA DANIELA2, 4, KREPELOVA ANNA5, KUKLIK MILOS SLAV4, KOZLOWSKI KAZIMIERZ6 (PRAGUE & SYDNEY, CZECH REPUBLIC, AUSTRALIA)

Diastrophic dysplasia (20 min.)
1 Institute of Pathology, 1st Faculty of Medicine, Charles University, Prague, Czech Republic
2 Ambulant Centre for Defects of Locomotor Apparatus; Prague; Czech Republic
3 Faculty of Health Care Studies, West Bohemia University; Pilsen, Czech Republic
4 Dept. of Paediatrics; University Hospital Motol; Prague; Czech Republic
5 Genetic Dept.; Czech Republic, Prague 3; Czech Republic
6 Dept. of molecular genetics, Institute of biology and medical genetics, University Hospital Motol; Prague; Czech Republic
7 New Children Hospital, Westmead, Sydney, Australia

SMRCKA VA CLAV (PRAGUE, CZECH REPUBLIC)
Challenges of biomolecular paleopathology (20 min.)
Institute for History of Medicine and Foreign Languages, Prague, Czech Republic
Chairmen: PIET J.M. VAN LOON, KRAWCZYK PETR, MARIK IVO, ARSENEV ALEKSEY

PIET J.M. VAN LOON¹, RUUD HGP VAN ERVE¹, ANDRE J GROTHENHUIS², ERIC BTM THUNNISSEN³ (DEVENTER, NIJMEGEN & AMSTERDAM, NETHERLANDS)

Thoracolumbar lordotic intervention (TLI) in spinal deformities. Effective mechanical growth modulation by muscular forces induced by bracing (30 min.)

¹ Orthopedic surgeon, Care to Move, Centre for Orthopedics, Deventer, Netherlands
² Professor of neurosurgery, RadboudMC, University of Nijmegen, Netherlands
³ Pathologist, epidemiologist VUMC, Free University, Amsterdam, Netherlands

SNYTR JAN (ZRUČ-SENEC, CZECH REPUBLIC)

Practical Use of Sensomotoric Insoles for Neurologic Patients (30 min.)
Ottobock CZ s.r.o., Zruc-Senec, Czech Republic

11.00 COFFEE BREAK

Chairmen: POVYSIL CTIBOR, FEJFAROVÁ VLADIMIRA, MARIK IVO

BEM ROBERT, FEJFAROVÁ VLADIMIRA (PRAGUE, CZECH REPUBLIC)

Charcot foot – the neglected complication of diabetes (20 min.)
Diabetes Centre, Institute for Clinical and Experimental Medicine, Prague, Czech Republic

FEJFAROVÁ VLADIMIRA (PRAGUE, CZECH REPUBLIC)

Conservative treatment of Charcot foot (20 min.)
Diabetes Centre, Institute for Clinical and Experimental Medicine, Prague, Czech Republic

NAVRAȚIL KAMIL (PRAGUE, CZECH REPUBLIC)

Surgical management of Charcot foot (20 min.)
Transplantation Surgery Department, Institute for Clinical and Experimental Medicine, Prague, Czech Republic

E- POSTERS

Presenter: ARSENEV ALEKSEY VALENTINOVICH, CERNY PAVEL

RYBKA DINA OLEGOVNA, DUDIN MIKHAIL GEORGIYEVICH, SHAROVA L.E. (ST. PETERSBURG, RUSSIA)

Capabilities of ultrasound diagnostics of paravertebral muscles in healthy children. Preliminary report (5 min.)
Children’s Rehabilitation Center of Orthopaedics and Traumatology “Ogonyok”, St. Petersburg, Russia
NIKITINA A. A., DUDIN MIKHAIL GEORGIYEVICH (ST. PETERSBURG, RUSSIA)
Parameters of electromyogram of paravertebral muscles of healthy children from 6 to 12 years old (5 min.)
Children's Rehabilitation Center of Orthopaedics and Traumatology “Ogonyok”, St. Petersburg, Russia

BAZANOVA M.V., DUDIN MIKHAIL GEORGIYEVICH, KOLOSKOVA L.E. (ST. PETERSBURG, RUSSIA)
Vitamin D 3 and VDR gene role in AIS pathogenesis within infant population. (Preliminary report) (5 min.)
Children's Rehabilitation Center of Orthopaedics and Traumatology “Ogonyok”, St. Petersburg, Russia

DUDIN MIKHAIL GEORGIYEVICH, BOBER S., MAXIMOVA N., GAIDUK T., BOGDANOVA N. (ST. PETERSBURG, RUSSIA)
Selective biofeedback training of the m. transversospinalis method for AIS (5 min.)
Children's Rehabilitation Center of Orthopaedics and Traumatology “Ogonyok”, St. Petersburg, Russia

ZALTSMAN P.L. (ST. PETERSBURG, RUSSIA)
Treatment of pain syndrome of vertebrogenic genesis in children and adolescents using differentiated methods of acupuncture (5 min.)
Children's Rehabilitation Center of Orthopaedics and Traumatology “Ogonyok”, St. Petersburg, Russia

PAVEL CERNY¹, ², PETR KAWCZYK², ³, IVO MARIK¹, ⁴ (PILSEN & PRAGUE & OSTRAVA, CZECH REPUBLIC)
Segment modifications of corrective spinal orthoses (5 min.)
¹ Faculty of Health Studies, University of West Bohemia, Pilsen, Czech Republic
² Faculty of Physical Education and Sport, Charles University, Prague, Czech Republic
³ PROTEOR CZ l.l.c., Ostrava, Czech Republic
⁴ Ambulant Centre for Defects of Locomotor Apparatus l.l.c., Prague, Czech Republic

IVO MARIK & PETR KRAWCZYK, TOMASZ KARSKI & ARSENEV ALEKSEY VALENTINOVICH
Closing of the Symposium
Certificates
Planning of the 20th Prague-Lublin-Sydney-St. Petersburg Symposium

13.30 LUNCH

16.00 VLTAVA RIVER SIGHTSEEING CRUISE (http://www.prague-boats.cz/)

19.00 GALA DINNER – RESTAURANT APETIT

GOOD BYE!
NOTES FOR ALL PARTICIPANTS
Lectures and text slides will be presented in English.
Time of the individual lecture includes time for discussion.
A list of lectures/posters and chairmen of sessions can be changed!
**Conference fee 50 Euros (including social programme & refreshment) by Bank Transfer**
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Participants will receive the Programme & Certificate of Attendance & Symposium materials.

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E-mail: ogonek@zdrav.spb.ru & shravan@mail.ru

DR. DANESOVA, PHD.

The date of birth: 6th May 1945

Education

1968: graduated at Mathematical and Physical Faculty of the Charles University in Prague (focussed on the mathematical analyses);
1968–1971: Pedagogical Assistant at the Department of Mathematics in the Faculty of Civil Engineering of the Czech Technical University in Prague;
since 1971: Assistant Professor in the Faculty of Civil Engineering of the Czech Technical University;
1977: espoused the Doctorate of Natural Sciences (RNDr.) at the Mathematical and Physical Faculty of the Charles University in Prague;
1984: espoused the PhD dissertation thesis focused on functional analyses with specialization on differential and integral equations.

Scientific activities

Co-author of a row of final research reports (the faculty research, the research for Ministry of Education, the research for Ministry of Health etc.);
since 1990 co-investigator of 4 grants and 2 scientific intentions (with main themes of mathematical applications in biomechanics).
Publications

Author and co-author of many scientific papers, specialized articles and reports. The most important work is the General theory of bone remodelling. Processes of bone remodelling were exactly expressed in this works by means of original stoichiometric equations and linear differential equations. Exactly were defined the bifurcation points. Many variations of metabolic processes begin in cortical bone by reaching of bifurcation points. The general theory of bone remodelling was the first zooming to the exact view on the remodelling processes of bone tissue. Dr. Danesova, PhD. meaningfully cooperated at priority work about exact definitions of limited cycles of functional bone stability. Exact describing of processes of thickening and thinning of bone tissue and ways of regulation of these processes, their slowing down and acceleration became worldwide famous. Her clinical verification of formation of new hyaline cartilage at the local osteochondral defects and in the long-term cooperation at the work on specification of domains of nanostructure and domains of submicrostructure of cortical femoral bone in older patients were significantly beneficial.

Dr. Danesova, PhD. has been a member of The Society for Connective Tissues Czech Medical Association J. E. Purkyne (SCT CMA JEP) from the year 2004. She helps with organization of conferences by the Society for Connective Tissues CMA JEP every year. The Society for connective tissues CMA JEP appreciates her work in the field of theoretical biomechanics and decided to award Dr. Jana Danesova, PhD. by the Diploma of Honourable Membership of the Society for Connective Tissues.

Some relevant publications

PETRTYL M., DANEŠOVÁ J.: „Obecná teorie remodelace kostní tkáně“, Pohybové ústrojí, roč. 6, č. 4, 1999, str. 30-47;

RNDr. JANA DANESOVA, PHD.


Její nejvýznamnější spoluautorské vědecké práce jsou:

*Formulace obecné teorie remodelace kostní tkáně.* V této práci byly exaktně formulovány remodelační procesy v kortikalis prostřednictvím originálních stehiometrických rovnic, následně pomocí nelineárních diferenciálních rovnic a získání bifurgačních bodů, jejichž dosažení dochází v kortikální kosti k mnoha variacím metabolických procesů. Tato obecná teorie remodelační procesu byla prvním příbližením k exaktnímu pohledu na remodelační procesy v kostní tkáni. Významně spolupracovala na výzkumu o exaktních definicích limitních cyklů funkční stability a zániku kostní tkáně v jejím objemovém elementu. Celosvětovým přínosem byly exaktní popisy procesů houstnutí a řídnutí kostní tkáně a způsoby regulace těchto procesů, jejich zpomalování nebo zrychlování.

Významné jsou také její přínosy, týkající se klinických verifikací vzniku nové (histologicky prokázané) hyalinní chrupavky u lokálních osteochondrálních defektů a dlouholetá její spolupráce na zpřesnění domén nanostruktur (nanofibril, nanoprutů, nanokořenů) a domén submikrostruktur kortikální kosti femuru u starších pacientů. Paní doktorka je spoluautorkou a autorkou několika desítek vědeckých prací, odborných článků a zpráv. Nejvýznamnější její publikace jsou uvedeny in English výše.

Paní RNDr. Jana Danešová je členkou Společnosti pro pojišťové tkáně ČLS JEP (SPT) od jejího znovu založení v roce 2004 až do současnosti. Členový výbor SPT ČLS JEP sílí velmi vědecké práce paní Dr. Danešové v oboru experimentální biomechaniky. Výbor děkuje za aktivní pomoc při organizování každoročních sympozí (Kubátovy dny a Praha-Lublin-Sydney-St. Petersburg symposium) a odbornou reprezentaci.
Společnosti pro pojivové tkáně ČLS JEP z.s. na těchto mezioborových akcích. Je nám ctí ocenit zásluhy paní doktorky udělením diplomu Čestného členství ve Společnosti pro pojivové tkáně ČLS JEP.

Jménem výboru Společnosti pro pojivové tkáně České lékařské společnosti J. E. Purkyně

prof. MUDr. Ivo Mařík, CSc.

předseda SPT ČLS JEP z.s.
VLADIMÍR PALIČKA, MD, PHD, DR.H.C.

(Osteocentre and Institute of Clinical Biochemistry and Diagnostics Charles University, University Hospital Hradec Králové, Sokolská 581, 500 05 Hradec Králové, Czech Republic, palicka@ifhk.cuni.cz)

CURRICULUM VITAE

EDUCATION

1970  MD, Faculty of Medicine, Palacký University, Olomouc, CZ
1987  PhD, Charles University in Prague, CZ
1990  Associate Professor of Biochemistry
1999  Associate Professor of Internal Medicine
2001  Full Professor of Internal Medicine
2008  Doctor honoris causa, University of Pecs, Hungary

PROFESSIONAL CAREER

1984–2012  Head of the Institute for Clinical Biochemistry and Diagnostics, Charles University and University Hospital Hradec Králové
1995–2016  Head of the Osteocentre, University Hospital Hradec Králové
Since 2016  Director, University Hospital Hradec Králové

EDUCATIONAL CAREER

2003–2010  Charles University, School of Medicine in Hradec Králové, Dean
2010–2017  Charles University, School of Medicine in Hradec Králové, Vice-Dean
Since 2009  Association of Medical Schools in Europe, Executive Board Member

MEDICAL QUALIFICATIONS (Specializations)

Clinical Biochemistry
Internal Medicine
Endocrinology
Osteology

19th Prague-Sydney-Lublin-St. Petersburg
MEMBERSHIP IN MEDICAL SOCIETY

IFCC (International Federation of Clinical Chemistry and Laboratory Medicine), Former Vice-President
EFCC-FESCC (European Federation of Clinical Chemistry and Laboratory Medicine), Former President
Czech Medical Association J.E.Purkyne, Vice-President
Czech Society of Clinical Biochemistry, Honorary President
Czech Society for Metabolic Bone Diseases, President
American Association of Clinical Chemistry, Member
Scientific Committee of Ministry of Health Czech Republic, Member
Scientific Committee of the Medical Faculty, Charles University, Hradec Králové, Member
Scientific Committee of the Medical Faculty, Palacky University, Olomouc, Member
Scientific Committee of the University of Pecs, Szentagothai Research Center, Hungary, Member
Czech Society of Clinical Biochemistry, Honorary Member
Czech Society for Rheumatology, Honorary Member
Hungarian Society for Clinical Pathology, Honorary Member
Polish Society for Laboratory Diagnostics, Honorary Member
Slovak Society for Clinical Biochemistry, Honorary Member
Slovak Society for Metabolic Bone Diseases, Honorary Member

FIELDS OF SCIENTIFIC ACTIVITY

Member of many scientific committees of the International Congresses in the field of Clinical Chemistry and Clinical Osteology

Editorial Boards and Advisory Boards

Annals of Clinical Biochemistry (UK)
Biochemia Medica (Croatia)
Biomedical Papers (CZ)
Clinical Chemistry and Laboratory Medicine (Germany)
International Journal of Orthopaedics (Hong Kong) – Honorary Editor-in-Chief
Journal of Pediatric Biochemistry (Turkey)
Journal of Turgut Ozal Medical Center (Turkey)
Revista del Laboratorio Clinico (Spain)
Revista Romana de Medicina de Laborator (Rumania)
Casopis lekaru cesky (CZ)
Klinicka biochemie a metabolismus (CZ)
Osteologicky bulletin (CZ)
Postgradualni Medicina (CZ)

Up to now published more than 500 articles and presented about 1.400 lectures and posters. Oriented mostly to the metabolic diseases, clinical biochemistry of diabetes mellitus, clinical biochemistry in intensive care and in metabolic bone diseases.

Actual H-Index = 20, Citation index (WoS) without self-citation 1.427
PROF. GEORGE P. LYRITIS, MD, PHD

CURRICULUM VITAE

EDUCATION

• Postgradual studies in several university institutions in Great Britain
• 1973 – Doctor of Medicine, University of Athens (essay: ‘Contribution on the Effect of an Anabolic Steroid on Fracture Healing of Radial Fractures of Rabbits Treated with Cortisone’)
• 1988 – Associate Professor in orthopaedics (Thesis: „The Effect of Calcitonin on the Metaphyseal Osteogenesis of Growing Rats‟)
• Professor in orthopaedics and bone metabolic diseases at the Faculty of Medicine, University of Athens, Greece
• 2008 – Emeritus Professor in orthopaedics, University of Athéna
OCCUPATIONAL POSTS

- Head of the Postgraduate Course on Metabolic Bone Diseases (since 2007)
- Director of the Laboratory for the Research of Musculoskeletal System in the Faculty of Medicine, University of Athéna (KAT Hospital) (1991–2008)
- Founder and president of the Hellenic Society for the Study of Bone Metabolism (EEMMO)
- Founder and president of the Hellenic Osteoporosis Foundation (HELIOS)
- Founder (2000) and past president of the International Society of Musculoskeletal and Neuronal Interactions (ISMNI)
- Member of the Board of the International Osteoporosis Foundation (IOF)
- Member of the Committee of Scientific Advisors of IOF
- Co-editor of the Journal of Musculoskeletal and Neuronal Interactions (JMNI) since 2000
- Editor of Ostoun (Greek Journal of EEMMO) since 1990
- Member in several editorial boards of well known medical journals

PUBLICATIONS

- 25 books
- 400 articles (half in international journals)
- Over 4000 citations in literature

AWARDS IN CZECH REPUBLIC

- Honorary membership of the Czech Medical Society JEP (2010)
- Medal of the Czech Medical Society JEP (2010)
- Honorary membership of the Society for Connective Tissues, Czech Medical Association JEP (2010)
PROFESSOR DR. MED. HANS ZWIPP

CURRICULUM VITAE

Born 1st March 1949 in Neustadt (near Coburg)

- 1969 – A-levels at Martin-Butzer High School in Dierdorf in Westerwald
- Since 1971 married, father of three children.
- 1975 – graduated med. at Medical Faculty in Essen
- 1978–1993 – surgery practice at Teaching Hospital in Hannover (MHH) in Lower Saxony (headed by Prof. Dr. med. H. Tscherner)
- 1982 – specialist in surgery
- 1984 – specialist in orthopaedics and traumatology
- 1984 – superintendent doctor at Trauma and Surgery Clinic in Hannover (MHH)
- 1985 – expert in trauma surgery problematics
- 1992 – 1993 – the head of Trauma and Surgery Clinic in Hannover (MHH)
Since 1994 – Department of Trauma and Reconstruction Surgery of University Hospital „Carl Gustav Carus“ in Dresden
1994 – professor of surgery and reconstruction surgery
1995 – specialist in hand surgery
2007 – the head of Surgery Clinic at University Hospital „Carl Gustav Carus“ in Dresden

Research and publication activity

- Research projects (36)
- Publications (409)
- Lectures (394)
- Leadership of dissertations (30)

Honours and awards

- 1987 – Hermann – Kümmel´s Price from NWD - Surgeons
- 1988 – Hans – Liniger´s Price of German Association for Trauma Surgery (DGU)
- 1994 – founding member and the president of ESFAS (European Foot and Ankle Society), Dresden
- 1994–2006 – chairman of the board AOI for surgery of foot and ankle
- 1998/99 – president of Surgery Association in Saxony
- 1999–2001 – member of the bord of German Association for Trauma Surgery
- 2000–2004 – member of consulting board od German AO
- 2002–2008 – head of Working Association for Foot of DGU
- 2003 – Honorary membership of AO Alumni Association, Chile
- 2005–2007 – member of the board of DGU
- 2006 – Commemorative Medal of 3rd Medical Faculty, Charles University, Prague
- 2011 – Honorary membership of Czech Society for Trauma Surgery
MUDR. JIŘÍ VOSÁTKA

Udělení čestného členství v Ortopedicko-protetické společnosti ČLS JEP z.s.

Pan MUDr. Jiří Vosátka je dlouholetým členem Ortopedicko-protetické společnosti ČLS JEP. Svou činností se velmi zasloužil o rozvoj této odborné společnosti, kterou rovněž jako její předseda řadu let vedl. Významnou měrou se podílel na přípravě vzdělávání v tomto oboru. Je autorem řady publikací v odborných časopisech a kapitol v monografiích.

Členové výboru OPS ČLS JEP si velmi váží přínosné práce pana MUDr. Jiřího Vosátky Výbor proto navrhuje ocenit zásluhy pana doktora udělením diplomu Čestného členství v Ortopedicko-protetické společnosti ČLS JEP.

CURRICULUM VITAE

Narozen 15.3.1950

Po absolvování Lékařské fakulty UK v Praze atestoval v oboru ortopedie, ve kterém získal atestaci I. a II. stupně. Více jak 30 let své odborné praxe se věnuje oboru Ortopedická protetika jak na poli klinické práce, tak také pedagogické a publikační.
Od roku 1997 řídí Oddělení Ortopedické protetiky v Praze na Roztylech.

Svůj život zasvětil pomoci těžce tělesně postiženým. Aktivně se zapojoval do organizace péče o hendikepované jako krajský i hlavní odborník ČR pro Ortopedickou protetiku. I v současné době je aktivním členem Ortopedicko-protetické společnosti ČLS JEP při diskusi nad návrhy zákonů a vyhlášek.
MUDR. KAREL ČÍŽEK

Udělení čestného členství v Ortopedicko-protetické společnosti ČLS JEP z.s.


Členové výboru OPS ČLS JEP si velmi váží přínosné práce pana MUDr. Karla Čížka Výbor proto navrhuje ocenit zásluhy pana doktora udělením diplomu Čestného členství v Ortopedicko-protetické společnosti ČLS JEP.

CURRICULUM VITAE

Narozen 18. srpna 1948 v Českých Budějovicích.

A LIST OF SPEAKERS AND CO-AUTHORS OF PAPERS

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Sykora Ales, Bc (Ostrava, Czech Republic)
Tesař Karel, Eng (Prague, Czech Republic)
Thunnissen Eric, MD, PhD (Amsterdam, Netherlands)
Tichy Miroslav, Assoc. Professor, MD, PhD (Usti nad Labem, Czech Republic)
Uchytil Jaroslav, MSc, PhD (Ostrava, Czech Republic)
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Wilczyński Michal, MD (Lublin, Poland)
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Zaltsman P. L., MD (St. Petersburg, Russia)
Žemkova Daniela, Dr, PhD (Prague, Czech Republic)
Zwipp Hans, Professor, MD, DSc (Dresden, Germany)
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