



THE 17TH PRAGUE-LUBLIN-SYDNEY-ST. PETERSBURG SYMPOSIUM

Growth plate & Disorders of growth

20th – 24th September 2015 | Kroměříž | Czech Republic





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
& Medical University of Lublin
& Vincent Pol University in Lublin
& Children's Rehabilitation Center of Orthopedics and Traumatology
"Ogonyok" St. Petersburg, Russia

invite you for

THE 17TH PRAGUE-LUBLIN-SYDNEY-ST. PETERSBURG SYMPOSIUM

Topics: Growth plate – Disorders of growth

interdisciplinary approach to
DIAGNOSTICS – COMPREHENSIVE TREATMENT – BIOMECHANICS

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

Professor Jaroslav Blahoš, MD, DSc.

in Kroměříž, Czech Republic, 20th – 24th September 2015



Speech of welcome to

The 17th Prague-Lublin-Sydney-St. Petersburg Symposium – Disorders of growth and Defects of growth epiphysis

Prague, September 21, 2015

Ladies and Gentlemen, Dear Colleagues

Dear Ladies and Gentlemen, dear Participants and Friends of the 17th Prague-Lublin-Sydney-St. Petersburg Symposium in Kroměříž during the days 20 – 24 September 2015.

The time passes really quickly and in 2015 we all – orthopaedic surgeons, rehabilitations doctors, paediatricians, neurologists and other specialists from Europe and from World – meet for the 17th time together at our friendly Scientific Meeting.

As I said last year in Lublin during the 16th Symposium, these all Meetings were and are possible thanks to Professor Ivo Mařík from Prague.

On the last Symposiums in Poland – in 2012 in Sarbinowo and in 2014 in Lublin (in University of Military Hospital – Head Dr. med. Zbigniew Kędzierski) – we all had the opportunity to see the high level of knowledge in the field of Musculoskeletal disorders, high level of knowledge in possibility of treatment presented by all participants from all countries.

In all Meetings – in Czech Republic and abroad – in Greece, Poland, Russia (St. Petersburg – 2013) the leader and first organizer was and now still is Professor Ivo Mařík. In all Meetings he was nice, friendly and open minded to all the participants. And it always has been since our first contact in Bratislava during Červenanský Days, many years ago (1997/1998).

To all participants of the 17th Prague-Lublin-Sydney-St. Petersburg Symposium I wish to enjoy from interesting presentations of outstanding lectures and discussions as well as a pleasant stay in historical and beautiful town Kroměříž.

Professor 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

Address: 20-825 Lublin, Urocza Street 19 Phone 0048 81 742 63 71 (home) and Mobile + 48 604 933 234
tmkarski@gmail.com | t.karski@neostrada.pl | www.ortopedia.karski.lublin.pl

Ladies and gentlemen, dear colleagues, dear friends!

How quickly time flies! And we meet already at the 17th International Symposium "Prague-Sydney-Lublin St. Petersburg"!

In 2013, we had the great honor and our Center became a participant of the Symposium. From this moment on, we adapted all our scientific and practical work according to the ideology of the Symposium. Without doubt, the most remarkable accomplishment in this field is the interdisciplinary cooperation.

With great pleasure I note that during our annual meetings we did not only share our experience and results, but also learned from such outstanding scientists as Ivo Marik, Jana Parizkova, Tomasz Karsky, Miloslav Kuklik and our other friends.

With all my heart I wish them health and creative longevity, and to all the participants of our meeting – successful work, interesting publications and discussions in the old and beautiful city of Kromeriz.

Sincerely yours

Professor Mikhail Dudin

Director of Children's Rehabilitation Center of Orthopedics
and Traumatology "Ogonyok" St. Petersburg, Russia
E-mail: ogonek@zdrav.spb.ru

Ladies and gentlemen, dear participants, my dear colleagues!

As a founder and one of the organizers of the 17th Prague-Lublin-Sydney-St. Petersburg Symposium I am cordially welcoming you at this international event. It is my great pleasure to welcome among us Professor Jaroslav Blahoš, MD, DSc., honorary president of the Czech Medical Association J.E. Purkyně who this year celebrated his life anniversary. The bilateral Symposium Prague-Sydney that I organized for the first time in the year 1998 gradually spread to the Prague-Lublin-Sydney-St. Petersburg Symposium in 2013.

According to the programme this year we can look forward to the outstanding lectures and discussions of colleagues and friends from Poland, Russia, Ukraine, Belarus, Egypt, Slovakia, Sweden, USA, UK and Czech Republic, i.e. representatives of 10 nations.

My warm thanks belong mainly to my colleague Petr Krawczyk, MD, president of the Society for prosthetics and orthotics CMA J.E. Purkyně who prepared and arranged for us really very interesting social program here in Kroměříž. Last but not least I am thanking to the International organizers – these are Professor Tomasz Karski, MD, PhD and Assist. Professor Jacek Karski, MD, PhD from Lublin, and Professor Mikhail Dudin MD, DSc. and Aleksey Shashko, MD from St. Petersburg. I believe that we all spend together three wonderful days which amplified our experience and knowledge in the comprehensive care and treatment of disabled patients. I am sure that we will enjoy not only from new scientific knowledge, but also from the beauty of historical landmarks of Kroměříž that are protected by UNESCO.

Let me remember you on a few photos our very pleasant meeting in Lublin in 2014.

See photos on the next page:

Top photo, from the left: Ivo Marik, Tomasz Karski, Zbigniew Kędzierski and Mikhail Dudin
Below participants of the 16th Symposium in Lublin.

I sincerely wish the great success to the 17th Prague-Lublin-Sydney-St. Petersburg Symposium and I consider the Symposium to be open.

Associate Professor Ivo Marik, MD, PhD, FABI

Chief of the Centre for Patients with Locomotor Defects, Prague, CZ
President of the Society for Connective Tissue, Czech Medical Association, J.E. Purkyně
Scientific secretary of the Society for prosthetics and orthotics Czech Medical Association J. E. Purkyně
Chief-Editor of the journal Locomotor System – advances in research, diagnostics and therapy
E-mail: ambul_centrum@volny.cz



SYMPOSIUM FINAL PROGRAMME

SUNDAY, SEPTEMBER 20, 2015

18.00 – 21.00 WELCOME BANQUET & REGISTRATION OF PARTICIPANTS IN THE HOTEL „OCTÁRNA“

Siblings Martina & Patrik Hevr: A ROMANTIC MUSIC GIFT

B. Smetana: From the Homeland (Z domoviny), Duet for violin and piano

C. Franck: Sonata in A major for violin and piano

MONDAY, SEPTEMBER 21, 2015

8.30 – 9.00 REGISTRATION OF PARTICIPANTS IN THE HOTEL „OCTÁRNA“

9.00 IVO MARIK & PETR KRAWCZYK, TOMASZ KARSKI & MIKHAIL DUDIN

OPENING OF THE SYMPOSIUM

85TH ANNIVERSARY OF **PROFESSOR JAROSLAV BLAHOS**

the Honorary President of the Czech Medical Association (CMA) of J. E. Purkynje

10.00 – 13.00 MORNING SESSIONS

Note: In every session every lecture 20 min. (with discussion)

SESSION I – **GROWTH PLATE – DISORDERS OF GROWTH – VARIA**

Chairmen: JAROSLAV BLAHOS, DANIELA ZEMKOVA, MILOSLAV KUKLIK

Invited lecture of Honorary President of the Czech Osteological Society CMA JE. Purkynje

BLAHOS JAROSLAV (PRAGUE, CZECH REPUBLIC)

Comparative endocrinology of calcium, calciotropic hormones and bone

Czech Medical Association, J.E. Purkynje, Prague, Czech Republic

ZEMKOVA DANIELA¹⁾, MARIK IVO^{2), 3)} (PRAGUE, CZECH REPUBLIC)

Sclerosing bone dysplasias

1) Pediatric Dept., University Hospital Motol, Prague, Czech Republic

2) Ambulant Centre for Defects of Locomotor Apparatus, Prague, Czech Republic

3) Faculty of Medical Studies, West Bohemia University, Pilsner, Czech Republic

KUKLIK MILOSLAV^{1), 2)}, MARIK IVO³⁾ (PRAGUE, CZECH REPUBLIC)

Disproportional bone dysplasias. Disorders of chaotic bone growth

1) Genetic department, Olsanska 7, Prague, Czech Republic

2) Department of molecular endocrinology, Institute of Endocrinology, Prague, Czech Republic

3) Ambulant Centre for Defects of Locomotor Apparatus, Prague, Czech Republic

11.30 – 11.45 COFFEE BREAK

POPKO J., GUSZCZYN T., KWIATKOWSKI M. (BIALYSTOK, POLAND)

Osteogenesis imperfecta. The effect of intramedullary nails in long tubular bones.

Department of Pediatric Orthopaedics and Traumatology in Białystok, Poland

TICHY MIROSLAV (ÚSTÍ NAD LABEM, CZECH REPUBLIC)

Interrelation between quality of fibrous connective tissue and muscle fibers tonus

The Faculty of Health Studies, J. E. Purkyně University, Ústí nad Labem, Czech Republic

SMRCKA VACLAV (PRAGUE, CZECH REPUBLIC)

Claudius Galen – Surgeon of Gladiators

Institute for History of Medicine and Foreign Languages of the 1st Faculty of Medicine, Charles University, Prague, Czech Republic

FAMILY PHOTO OF PARTICIPANTS IN THE HOTEL „OCTÁRNA“

13.00 – 14.00 LUNCH BREAK (IN THE HOTEL “OCTÁRNA”)

14.00 – 17.30 AFTERNOON SESSIONS

GROWTH PLATE – DISORDERS OF GROWTH – VARIA

SESSION II – DIAGNOSTICS AND COMPREHENSIVE TREATMENT

Chairmen: KARSKI TOMASZ, DUDIN MIKHAIL, MARIK IVO

DUDIN MIKHAIL, PINCHUK DMITRY (ST. PETERSBURG, RUSSIA)

Glandula Pinealis and Scoliosis

Center of Orthopedics and Traumatology „Ogonek“, St. Petersburg, Russia

KOBYZEV ANDREY YEVGENYEVIC, STUPINA TATYANA ANATOLYEVNA, KRASNOV VITALIY VIKTOROVICH (KURGAN, RUSSIA)
Structural reorganization of intervertebral disc in modelling of scoliosis during growth
FSBI "Russian Ilizarov Scientific Center „Restorative Traumatology and Orthopaedics“" of Minzdrav of RF, Kurgan, Russia

KARSKI TOMASZ¹⁾, KARSKI JACEK²⁾, KĘDZIERSKI ZBIGNIEW³⁾, KARSKA KLAUDIA⁴⁾ (LUBLIN, POLAND)

Back pain. Causes. The possibility of treatment by physiotherapy

- 1) Vincent Pol University in Lublin, Poland
- 2) Pediatric Orthopedic and Rehabilitation Department of Medical University in Lublin. Head of the Department: Professor Grzegorz Kandzierski, Poland
- 3) Orthopedic Surgeons, Commandant of Soldier Hospital in Lublin, Poland
- 4) Radiology Department of Medical University in Lublin, Poland

KOLESNICHENKO VERA¹⁾, DNIPROVSKA ALYONA²⁾

Evaluation of the musculoskeletal system functional state in patients with different variants of Scheuermann's disease

- 1) SI "Sytenko Institute of Spine and Joint Pathology, National Academy of Medical Sciences of Ukraine"
- 2) Vinnitsa National Medical University Named after Pirogov N.I.

KARSKI JACEK¹⁾, KARSKI TOMASZ²⁾, MADEJ JACEK³⁾, KARSKA KATARZYNA⁴⁾ (LUBLIN, POLAND)

Dysplasia of the hips. Special method of reduction of femoral head into acetabulum instead surgery. Functional treatment of dysplastic hips by walking

- 1) Medical University in Lublin, Orthopaedic Dept., Poland
- 2) Vincent Pol University in Lublin, Poland
- 3) Out-Patient Clinic in Lublin, Poland
- 4) Medical University in Lublin, Languages Dept., Poland

16.00 – 16.15 COFFEE BREAK

KARSKI TOMASZ¹⁾, KARSKI JACEK²⁾, KĘDZIERSKI ZBIGNIEW³⁾, MADEJ JACEK⁴⁾, KARSKA KATARZYNA⁵⁾ (LUBLIN, POLAND)

"Imperfect hips" in two clinical types. Conservative treatment as prophylactics against coxarthrosis

- 1) Vincent Pol University in Lublin, Poland
- 2) Medical University of Lublin, Poland
- 3) Military Hospital in Lublin, Poland
- 4) Orthopaedic Out Patients Clinic, Poland
- 5) Medical University in Lublin, Poland

CERNY PAVEL^{1), 3), 4)}, MARIK IVO^{2), 3)} (PRAGUE, CZECH REPUBLIC)

The axial pelvis rotation assessment according to the original radiographic method with use of 3D pelvis model

1) ORTOTIKA I.L.c., Prague, Czech Republic

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

3) Faculty of Medical Studies, West Bohemia University, Pilsner, Czech Republic

4) Faculty of Physical Education and Sport, Charles University, Prague, Czech Republic

MARIK IVO^{1), 4)}, ZEMKOVA DANIELA^{2), 4)}, MYSLIVEC RADEK^{3), 4)}, PETRASOVA SARKA⁴⁾, VALESOVA MONIKA¹⁾, CULIK JAN⁴⁾

Anthropological assessment of biomechanically meaningful unilateral shortening of legs and solution by drilling epiphysiodesis: long - term results

1) Faculty of Medical Studies, West Bohemia University; Pilsen, Czech Republic

2) Dept. of Paediatrics; University Hospital Motol; Prague; Czech Republic

3) Orthopaedic and Traumatology Department, Hospital Pribram, Czech Republic

4) Ambulant Centre for Defects of Locomotor Apparatus; Prague; Czech Republic

SERDJUCHENKO SERGEI¹⁾, SAKALOUSKI ALEH²⁾ (MINSK, BELARUS)

Guided growth as a primary method of treatment for knee deformity

1) Children and adolescent orthopedics and traumatology department,

2) State Institution "Republican Scientific and Practical Centre of Traumatology and Orthopedics", Minsk, Belarus

17.30 – 18.30 DINNER (IN THE HOTEL "OCTÁRNA")

EVENING SOCIAL PROGRAM:

19.00 – 20.30 CONCERT IN ASSEMBLY HALL OF THE CASTLE:

Felix Slováček, Boris Krajný

20.30 – 21.30 Picture gallery visit

TUESDAY, SEPTEMBER 22, 2015

8.30 – 9.00 REGISTRATION OF PARTICIPANTS IN THE HOTEL „OCTÁRNA“

9.00 –12.00 MORNING SESSIONS

8.30 – 9.00 MORNING SESSIONS

Note: In every session every lecture 20 min. (with discussion)

GROWTH PLATE – DISORDERS OF GROWTH – VARIA

SESSION III – ORTHOPAEDIC PROSTHETICS

Chairmen: ROSICKY JIRI, KRAWCZYK PETR, ALAM ELDIN MOHAMED

ALAM ELDIN MOHAMED (SOHAG, EGYPT)

Results of Surgical Management of Unstable Pelvic Ring Injuries

Sohag faculty of medicine, Sohag, Egypt

KALETA EVA¹⁾, LIPINA RADIM²⁾, ROSICKY JIRI¹⁾, MARTIN CHLACHULA²⁾ (OSTRAVA & FRYDEK-MISTEK, CZECH REPUBLIC)

Orthotic Treatment of the Head Positional Deformities

1) Ortopedická Protetika, Frydek-Mistek, Czech Republic

2) University Hospital Ostrava, Department of Neurosurgery, Ostrava, Czech Republic

LIPINA RADIM¹⁾, ROSICKY JIRI²⁾, CHLACHULA MARTIN¹⁾, KALETA EVA²⁾ (OSTRAVA & FRYDEK-MISTEK, CZECH REPUBLIC)

Minimally invasive treatment of craniosynostosis: endoscopically assisted suturectomy and postoperative helmet therapy

1) University Hospital Ostrava, Department of Neurosurgery, Ostrava, Czech Republic

2) Ortopedická Protetika, Frydek-Mistek, Czech Republic

11.30 –11.45 COFFEE BREAK

ROSICKY JIRI^{1), 2)}, GRYGAR ALES¹⁾, PARAVAN MARIO²⁾, PACIOREK MARTIN³⁾ (OSTRAVA & FRYDEK-MISTEK, CZECH REPUBLIC)

Multidisciplinary Team Approach in Anaplastology

1) ING corporation, I.L.c., Frydek-Mistek, Czech Republic

2) Ortopedická Protetika, Frydek-Mistek, Czech Republic

3) University Hospital Ostrava, Department of Neurosurgery, Ostrava, Czech Republic

KRAWCZYK PETR¹⁾, MARIK IVO²⁾, JAKUB JOZEF¹⁾, SYKORA ALES¹⁾, ZEMKOVA DANIELA²⁾, PETRASOVA SARKA²⁾, MARIK JAN²⁾, UCHYTL JAROSLAV³⁾, JANDACKA DANIEL³⁾ (OSTRAVA & PRAGUE, CZECH REPUBLIC)

Optimization of the weight of the transtibial prosthesis with the use of anthropometry, densitometry and kinematic analysis

1) PROTEOR CZ I.I.c., Ostrava, Czech Republic

2) Ambulant Centre for Defects of Locomotor Apparatus I.I.c., Prague, Czech Republic

3) Diagnostic Centre of Human Movement PdF, Ostrava University, Czech Republic

HADDAM MOHAMMED KHALED (TLEMCEM, ALGERIA)

Conservative treatment of the spondylolisthesis grade 1 by Cheneau brace

Clinique Orthopedie El Habbak, Tlemcen, Algeria

KRAWCZYK PETR¹⁾, SPISAKOVÁ JANA²⁾, SYKORA ALES¹⁾, PRINC VLADAN³⁾, DVORAK RADMIL⁴⁾ (OSTRAVA, PILSEN, OLOMOUC & KOŠICE, CZECH REPUBLIC & SLOVAKIA)

Application of myoelectric hand prosthesis in children

1) PROTEOR CZ I.I.c., Ostrava, Czech Republic

2) Dept. of Orthopaedic Prosthetics UNLP, Košice, Slovakia

3) Otto Bock CZ I.I.c. , Pilsen, Czech Republic

4) Division of Physiotherapy FTK, Palacký University, Olomouc, Czech Republic

12.00 – 13.00 LUNCH BREAK (IN THE HOTEL “OCTÁRNA”)

13.00 – 16.30 AFTERNOON SESSIONS

GROWTH PLATE – DISORDERS OF GROWTH – VARIA

SESSION IV – BIOMECHANICS, ORTHOPAEDIC ANTHROPOLOGY

Chairmen: PETR TYL MIROSLAV, TICHY MIROSLAV, PARIZKOVA JANA

SHASHKO ALEKSEY ALEKSANDROVICH, ARSENEV ALEKSEY VALENTINOVICH (ST. PETERSBURG,, RUSSIA)

Roentgenomorphometry in rare inherited diseases, accompanied by an asymmetrical growth of lower extremities

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

CULIK JAN

Gait model for uneven leg length

Czech Technical University, Division of Informatics of Faculty of Biomedical engineering, Kladno, Czech Republic

PALLOVA IVETA (DOBRICHOVICE & PRAGUE, CZECH REPUBLIC)

Angle of the trunk rotation in idiopathic scoliosis

Department of rehabilitation, paediatrics and acupuncture, Prague 5, Czech Republic

Centre of comprehensive care I.L.c., Dobrichovice, Czech Republic

HONZIKOVA MARTA

Systemic enzymotherapy in orthopaedics and traumatology

Mucos.cz, Prague, Czech Republic

14.30 – 14.45 COFFEE BREAK

PARIZKOVA JANA (PRAGUE, CZECH REPUBLIC)

Biomechanical problems and body posture in obese children and adolescents

Obesity Management Centre, Institute of Endocrinology, Prague, Czech Republic

STIBRBA LUCIE¹⁾, BLAHA PAVEL²⁾ (PRAGUE, CZECH REPUBLIC)

Is the level of 97th percentile BMI criterion valid for assessment of obesity in children and adolescents?

1) University of Pardubice, Faculty of Chemical Technology, Department of Biological and Biochemical Sciences, Czech Republic

2) College of Physical Education and Sport PALESTRA, Prague, Czech Republic

BLAHA PAVEL¹⁾, HILL MARTIN²⁾ (PRAGUE, CZECH REPUBLIC)

Relationships between basal anthropometric characteristics of children and adolescents and corresponding parental data

1) College of Physical Education and Sport PALESTRA, Prague, Czech Republic

2) Institute of Endocrinology, Department of Steroids and Proteofactors, Prague, Czech Republic

EVENING SOCIAL PROGRAM:

16.30 – 19.30 Visit of the Flower garden abounding with flowers (transport by choo-choo train to the Archbishop's Chateau where a guided tour follows)

19.30 – 23.00 Dinner/Raut in the Hotel "Octárna" and Cimbalo music

WEDNESDAY, SEPTEMBER 23, 2015

9.00 – 13.00 MORNING SESSIONS

GROWTH PLATE – DISORDERS OF GROWTH – VARIA

SESSION V – POSTERS

Chairmen: SHASHKO ALEKSEY, DUDIN MIKHAIL, KARSKI JACEK

ARSENEV ALEKSEY VALENTINOVICH, KURCHENKO SERGEY NIKOLAYEVICH (ST. PETERSBURG, RUSSIA)

Peculiar properties of hemihypertrophy in patient with Beckwith-Wiedemann syndrom. Possibility of its conservative treatment

Children's Rehabilitation Center of Orthopaedics and Traumatology "Ogonyok", St. Petersburg, Russia

KAZEMIRSKY VIKTOR YEVGENYEVICH, RYBKA DINA OLEGOVNA (ST. PETERSBURG, RUSSIA)

Early ultrasound signs of coxarthrosis in children and adolescents

Children's Rehabilitation Center of Orthopaedics and Traumatology "Ogonyok", St. Petersburg, Russia

ROMANOWSKI RICHARD ALOIZY (MALMÖ, SWEDEN)

Evidence Based Intermittent Pneumatic Massage System (EBIPMS) - method

Falsterbogatan 25, 21436 Malmö, Sweden

BORSKY MILAN¹⁾, MURPHY NORMAN²⁾, SOUCKOVA MARIE³⁾ (ZLÍN, CZECH REPUBLIC)

Validation of parameters for the new type of children's orthotic using method of in-shoe foot plantar measurement

1) Proteching B, Pressure Mapping Lab., Zlín, Czech Republic

2) Tekscan Inc., Medical Division, South Boston, USA,

3) MUDr. Marie Souckova, Medical podiatric centre, Prague, Czech Republic

BRAUN MARTIN¹⁾, BRETTSCHEIDER IVO²⁾, KERHARTOVA LENKA³⁾, DUSKOVA KATERINA³⁾ (PRAGUE & USTI N. ORLICI, CZECH REPUBLIC)

The importance of collagen for nutrition of the locomotor system connective tissues, particularly the joints

1) Dept. of Composites and Carbon Materials, Institute of Rock Structure and Mechanics, Academy of Sciences of the Czech Republic, Prague, Czech Republic

2) Eye Tissue Bank, General University Hospital, Prague, Czech Republic

3) Orling I.l.c., Usti n. Orlici, Czech Republic

CERNÝ PAVEL^{1), 3), 4)}, MARIK IVO^{2), 3)} (PRAGUE, CZECH REPUBLIC)

The original radiographic methods for evaluation of axial vertebral rotation and axial pelvis rotation (with use of 3D pelvis model)

1) ORTOTIKA I.I.c., Prague, Czech Republic

2) Ambulant Centre for Defects of Locomotor Apparatus I.I.c., Prague, Czech Republic

3) Faculty of Medical Studies, West Bohemia University, Pilsner, Czech Republic

4) Faculty of Physical Education and Sport, Charles University, Prague, Czech Republic

NOTE: 10 min. for presentation and discussion to each Poster

10.15 – 10.30 COFFEE BREAK

Invited lecture of Honorary President of the Society for Connective Tissues, CMA JE. Purkyně

HYÁNEK JOSEF (PRAGUE, CZECH REPUBLIC)

Phenylketonuria and osteoporosis

Dept. of Biochemistry, Hospital Na Homolce, Prague, Czech Republic

SESSION VI – NANOSTRUCTURES, TISSUE ENGINEERING, BIOCHEMISTRY

Chairmen: BALÍK KAREL, PETRÝL MIROSLAV, KARSKÝ JACEK

BALÍK KAREL, SUCHÝ TOMAS, SUPOVÁ MONIKA (PRAGUE, CZECH REPUBLIC)

Biocomposite on the basis of nanomaterials as a bone tissue replacement

Dept. of Composites and Carbon Materials, Institute of Rock Structure and Mechanics, Academy of Sciences of the Czech Republic, Prague, Czech Republic

BRAUN MARTIN, SUCHÝ TOMAS, SUPOVÁ MONIKA, RYGLÓVÁ SARKA, ZALOUČKOVÁ MARGIT, SUCHARDA ZBYNEK, DENK FRANTIŠEK, KRIZKOVÁ MARTINA, BALÍK KAREL (PRAGUE, CZECH REPUBLIC)

Utilization of nanotechnologies in the treatment of osteochondral defects

Dept. of Composites and Carbon Materials, Institute of Rock Structure and Mechanics, Academy of Sciences of the Czech Republic, Prague, Czech Republic

PETRYL MIROSLAV¹⁾, KRULIS ZDENEK²⁾, SENOLT LADISLAV³⁾, HULEJOVA HANA³⁾, CERNY PAVEL⁴⁾, BASTL ZDENEK⁵⁾, POVYSIL CTIBOR⁶⁾ (PRAGUE, CZECH REPUBLIC)

Initial Biomechanical Conditions Concerning the Successful Healing of Small Osteochondral Defects

- 1) Czech Technical University, FCE, Department of Mechanics, Laboratory of Biomechanics and Biomaterial Engineering, Prague, Czech Republic
2) Czech Academy of Sciences, Institute of Macromolecular Chemistry, Prague, Czech Republic
3) Charles University, Institute of Rheumatology, Prague, Czech Republic
4) ORTOTIKA I.L.c., Prague, Czech Republic
5) Czech Academy of Sciences, Institute of Physical Chemistry, Prague, Czech Republic
6) 1st Faculty of Medicine, Charles University, Institute of Pathology, Prague, Czech Republic

SVATOS FILIP¹⁾, KLEZL ZDENEK JR.¹⁾, KLEZL ZDENEK¹⁾,²⁾ (PRAGUE, CZECH REPUBLIC & DERBY, UK)

Autologus chondrocytes – our implantation technique and its limits, other treatment methods of chondral defects and special indications

- 1) Orthopedic & Traumatology Clinic, 3rd Medical Faculty of the Charles University, Prague, Czech Republic
2) Orthopedic Department, Derby Hospital, Derby, UK

KARSKI JACEK¹⁾, KAŁAKUCKI JAROSŁAW¹⁾, OKOŃSKI MAREK¹⁾, KARSKA KLAUDIA²⁾, WILCZYŃSKI MICHAŁ¹⁾ (LUBLIN, POLAND)

Value of Platelet-Rich Plasma in the Treatment of Osgood-Schlatter Disease

- 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

13.00 – 14.00 LUNCH BREAK (IN THE HOTEL “OCTÁRNA”)

14.00 – 16.15 AFTERNOON SESSIONS

GROWTH PLATE – DISORDERS OF GROWTH – VARIA

SESSION VII – VARIA

Chairmen: JANA PARIZKOVA, MARIK IVO, MOHAMED ALAMELDIN

WANKA PAVEL, SNYTR JAN (PILSEN, CZECH REPUBLIC)

24 hours concept for children with cerebral palsy

Otto Bock CZ I.I.c., Czech Republic

HADDAM MOHAMMED KHALED (TLEMSEN, ALGERIA)

Dynamic orthosis for a cerebral palsy

Clinique Orthopedie El Habbak, Tlemcen, Algeria

WANKA PAVEL, SNYTR JAN (PILSEN, CZECH REPUBLIC)

Medical devices for neuroorthopaedic children

Otto Bock CZ, I.I.c., Czech Republic

MARIK IVO^{1), 3)}, MARIKOVA ALENA¹⁾, HUDAKOVA OLGA¹⁾, ZEMKOVA DANIELA^{1), 2)} (PRAGUE, CZECH REPUBLIC)

Upper limb congenital defects: diagnostics and classification

1) Ambulant Centre for Defects of Locomotor Apparatus, Prague, Czech Republic

2) Pediatric Dpt., University Hospital Motol, Prague, Czech Republic

3) Faculty of Medical Studies, West Bohemia University, Pilsner, Czech Republic

CLOSING OF THE SYMPOSIUM AND PLANNING

THE 18TH PRAGUE-LUBLIN-SYDNEY-ST. PETERSBURG SYMPOSIUM

IVO MARIK & PETR KRAWCZYK, TOMASZ KARSKI & MIKHAIL DUDIN

FAMILY PHOTO OF PARTICIPANTS IN THE HOTEL „OCTÁRNA“

16.00 – 16.20 COFFEE BREAK

SOCIAL PROGRAM

17.00 – 18.30 COSTUME GUIDED KROMĚŘÍŽ SIGHTSEEING TOUR

18.30 – 23.00 FAREWELL PARTY

DINNER WITH WINE TASTING (THE CELLAR IN HOTEL PURKMISTR)

THURSDAY, SEPTEMBER 24, 2015

9.00 CELEBRATORY BREAKFAST IN THE HOTEL "OCTÁRNA"
GOOD BYE!

NOTES FOR ALL PARTICIPANTS

Lectures and text slides will be presented in English. Time of the individual lectures is about 20 min., it contains time for discussion, too! Presentation and discussion of posters 10 min.
A list of lectures/posters and chairmen of sessions can be changed!

Conference fee 10 Euros, Social programme & refreshment 40 Euros will be paid during registration. Accommodation in hotels everybody pays independently.

Abstracts of lectures will be published (electronic edition) in the Supplement of the journal Locomotor System 3-4/2015 (<http://www.pojivo.cz/en/newsletter>).
Participants will receive the Symposium programme & materials and Certificate of the Symposium Attendance

Venue of Symposium and accommodation: hotel "Octárna" <http://www.octarna.cz/english/>

A list of other hotels and websites where it is possible to provide accommodation:

<http://www.hotelboucek.cz/hotel>
<http://www.lafresca.cz/english.html/>
<http://cernyorel.webnode.cz/en/>
<http://www.hotelpurkmistr.cz>

SOCIAL PROGRAMS

Landmark protected by UNESCO:

- Castle, a unique castle gardens. <http://www.zamek-kromeriz.cz/en/>
- Social Evening at the wine cellar of Hotel Purkmistr with wine tasting <http://www.hotelpurkmistr.cz/index.php/cz/restaurace-a-vinarna>

RECAPITULATION

Estimated costs in addition to the registration fee (10 Euros) will be:
social programme and refreshment contribution 40 Euro + accommodation (everybody without assistance)

Do not hesitate address your questions to:

Associate Professor Ivo Marik, MD, PhD.

Prague, Czech Republic

E-mail: ambul_centrum@volny.cz & Petr Krawczyk, MD, E-mail: petr.krawczyk@seznam.cz



PROF. HYÁNEK, MD, DSC.

Prof. Hyánek (born in July 27, 1933 in Wallachia) is a wellknown specialist in the field of biochemistry focused on diagnostics of inherited metabolic diseases. He is the founder of organized care for children with inherited metabolic disorders in Czech Republic.

Prof. Hyánek started his professional career outside Prague – Uherské Hradiště and Luhačovice, as a pediatrician. He moved to Prague in the year 1959 and started to work at the Department of Clinical Biochemistry at 1st Medical Faculty of Charles University in Prague. He became a head of the department in the year 1984. He was interested in metabolic disorders, cardiovascular diseases and hypercholesterolemia a hyperhomocysteinemia in his wholelife research. Prof. Hyánek was appointed as professor of clinical biochemistry at the 1st Medical Faculty of Charles University in the year 1985. He founded the Diagnostic Centre of Inherited Metabolic Disorders in the year 1986 there. Prof. Hyánek left leading this deparment in 1992 and started to build up a new Dept. of Clinical Biochemistry, Hematology and Immunology at the Hospital Na Homolce in Prague.

He wrote two monographs about metabolic disorders, 5 times he is a co-author of monographs and textbooks. He published around 225 papers.

Prof. Hyánek was the president of the Committee for inherited metabolic disorders of Czech Pediatric Society for 28 years. He was a consultant of WHO for 2 years (1983–1984). He formed the genesis of National Audit Reference Laboratory of Ministry of Health of Czech Republic.

Prof. Hyánek is a member of numerous of scientific worldknown societies and invited famous speaker on reputable conferences.



PROF. JAROSLAV BLAHOŠ, MD, DSC.

Prof. Jaroslav Blahoš, MD, DSc. (born in June 30, 1930 in Horažďovice) is a Czech world known endocrinologist, founder and specialist of medical branch osteology.

Prof. Blahoš began as a doctor in Franzensbad in the year 1955. After he worked at the Research Institute of Endocrinology in Prague during the years 1958–1968. His main research interest was poited to bone metabolism, especially to calcitonin and urinary acids. His monograph about calcitonin was famous. He used the opportunity to work abroad and spent two years in Harar in Ethiopia (1961–1963) and two years at the endocrinology clinic Beaujon hospital in Paris (1968–1969). After these experiences he worked at the Internal Medicine Department at The 2nd Medical Faculty of Charles University in Prague (teaching hospital Motol and Under the Petrin Hill) since 1969. He became a professor and got to the lead of this department during the years. Prof. Blahoš moved to the Central Military Hospital in Prague in 1993 (as the head of Department of Internal Medicine). He founded the first osteocenter in the Czech Republic there in 1997.

Prof. Blahoš published over 370 scientific papers and 10 monographs. The most important is the textbook Endocrinology. He lectured in many coutries all over the world. He has been a chairman of the Czech Medical Society of Jan Evangelista Purkyně since September 1990. Prof. Blahos had been the first president of the World Medical Association from eastern Europe countries (in 1999–2001). He is a member and an honourable member of a row world medical and scientific associations.

His wholelife work and scientific successes were awarded by many awards. The most respected are The State Honour for Merits (President Havel, 2000), The Knight of Medal of Honourable Legion (President Chirac, 2002), The Officer of Honourable Legion (President Sarkozy).

Prof. Jaroslav Blahoš is one of the most outstanding living persons of Czech medicine.

A LIST OF SPEAKERS AND CO-AUTHORS OF PAPERS

AlamEldin Mohamed, Professor, MD (*Sohag, Egypt*)
Arsenev Aleksey Valentinovich, MD, PhD (*St. Petersburg, Russia*)
Balik Karel, Eng, PhD (*Prague, Czech Republic*)
Bastl Zdenek, Dr, DSc, PhD (*Prague, Czech Republic*)
Blaha Pavel, Assoc. Professor, Dr, PhD (*Prague, Czech Republic*)
Blahos Jaroslav, Professor, MD, DSc (*Prague, Czech Republic*)
Borsky Milan, Eng (*Zlin, Czech Republic*)
Braun Martin, Dr, PhD (*Prague, Czech Republic*)
Cerny Pavel, Eng, PhD (*Prague, Czech Republic*)
Culik Jan, Professor, Eng, DSc (*Prague, Czech Republic*)
Denk Frantisek, Eng (*Prague, Czech Republic*)
Dniprovska Alyona (*Vinnitsa, Ukraine*)
Dudin Mikhail Georgiyevich, Professor, MD, DSc (*St. Petersburg, Russia*)
Duskova Katerina, Eng (*Usti n. Orlici, Czech Republic*)
Dvorak Radmil, MD, PhD (*Olomouc, Czech Republic*)
Grygar Ales, MgA (*Frydek Mistek, Czech Republic*)
Gusszczyń Tomasz, MD, PhD (*Bialystok, Poland*)
Haddam Mohammed Khaled, MD (*Tlemcen, Algeria*)
Hill Martin Eng, DSc (*Prague, Czech Republic*)
Honzikova Marta, MD (*Pruhonice, Czech Republic*)
Hudakova Olga, MD, PhD (*Prague, Czech Republic*)
Hulejova Hana, Eng, (*Prague, Czech Republic*)
Hyaneek Josef, Professor, MD, DSc (*Prague, Czech Republic*)
Jakub Jozef, MD (*Ostrava, Czech Republic*)
Jandacka Daniel, MSc, Assoc. Professor, PhD (*Ostrava, Czech Republic*)
Kałakucki Jarosław, (*Lublin, Poland*)
Kaleta Eva, Bc (*Frydek Mistek, Czech Republic*)
Karsi Jacek, MD, PhD (*Lublin, Poland*)
Karska Katarzyna, MD (*Lublin, Poland*)
Karska Klaudia MD (*Lublin, Poland*)
Karski Tomasz, Professor, MD, PhD (*Lublin, Poland*)
Kazemirsky Viktor Yevgenyevich, MD, PhD (*St. Petersburg,, Russia*)
Kedzierski Zbigniew, MD (*Lublin, Poland*)
Kerhartova Lenka, Eng (*Usti n. Orlici, Czech Republic*)
Klezl Zdenek jr., MD (*Prague, Czech Republic*)
Klezl Zdenek, Assoc. Professor, MD, PhD (*Prague, Czech Republic*)
Kobyzev Andrey Yevgenyevich, MD, PhD (*Kurgan, Russia*)
Kolesnichenko Vera, Professor, MD, PhD (*Kharkov, Ukraine*)
Krasnov Vitaliy Viktorovich, MD, PhD (*Kurgan, Russia*)
Krawczyk Petr, MD (*Ostrava, Czech Republic*)
Krizkova Martina, (*Prague, Czech Republic*)
Krulis Zdenek, Assoc. Professor Eng, PhD (*Prague, Czech Republic*)
Kuklik Miloslav, MD, PhD (*Prague, Czech Republic*)
Kurchenko Sergey Nikolayevich, MD (*St. Petersburg, Russia*)
Kwiatkowski Michal, MD (*Bialystok, Poland*)
Lipina Radim, MD, Assoc. Professor, PhD (*Ostrava, Czech Republic*)

Madej Jacek, MD (*Lublin, Poland*)
Marik Antonin (*Prague, Czech Republic*)
Marik Ivo, Assoc. Professor, MD, PhD (*Prague, Czech Republic*)
Marik Jan (*Prague, Czech Republic*)
Marikova Alena, MD (*Prague, Czech Republic*)
Martin Chlachula, MD (*Ostrava, Czech Republic*)
Murphy Norman, Dr, PhD (*South Boston, United States of America*)
Myslivec Radek, MD (*Prague, Czech Republic*)
Nechutny Jiri (*Pilsen, Czech Republic*)
Okoński Marek, MD (*Lublin, Poland*)
Paciorek Martin, MD (*Ostrava, Czech Republic*)
Pallova Iveta, Dr, PhD (*Dobrichovice & Prague, Czech Republic*)
Paravan Mario, MgA (*Frydek Mistek, Czech Republic*)
Parizkova Jana, Professor, MD, PhD (*Prague, Czech Republic*)
Petrasova Sarka, MSc (*Prague, Czech Republic*)
Petrtyl Miroslav, Professor, Eng, DSc, (*Prague, Czech Republic*)
Pinchuk Dmitry Yuryevich, Professor, MD, DSc (*St. Petersburg, Russia*)
Povysil Ctibor, Professor MD, DSc, (*Prague, Czech Republic*)
Popko Janusz, Professor, MD, PhD (*Bialystok, Poland*)
Princ Vladan, Bc (*Pilsen, Czech Republic*)
Romanowski Richard Alojzy, MSc, MD (*Malmoe, Sweden*)
Rosicky Jiri, Eng, PhD (*Frydek Mistek, Czech Republic*)
Rybka Dina Olegovna (*St. Petersburg, Russia*)
Ryglova Sarka, Eng, PhD (*Prague, Czech Republic*)
Sakalouski Aleh, Professor MD, PhD (*Minsk, Belarus*)
Senolt Ladislav, Professor, MD, PhD (*Prague, Czech Republic*)
Serdjuchenko Sergei, Ass. Professor, MD, PhD (*Minsk, Belarus*)
Shashko Aleksey Aleksandrovich, MD (*St. Petersburg, Russia*)
Smrcka Vaclav, Assoc. Professor, MD, PhD (*Prague, Czech Republic*)
Snytr Jan, Bc (*Pilsen, Czech Republic*)
Souckova Marie MD (*Prague, Czech Republic*)
Spisakova Jana, MD (*Kosice, Slovakia*)
Stribrna Lucie, MSc, PhD (*Prague, Czech Republic*)
Stupina Tatyana Anatolyevna, MD, PhD (*Kurgan, Russia*)
Sucharda Zbynek, Eng (*Prague, Czech Republic*)
Suchy Tomas, Eng, PhD (*Prague, Czech Republic*)
Supova Monika, Eng, PhD (*Prague, Czech Republic*)
Svatos Filip, MD (*Prague, Czech Republic*)
Sykora Ales, Bc (*Ostrava, Czech Republic*)
Tichy Miroslav, Assoc. Professor, MD, PhD (*Usti nad Labem, Czech Republic*)
Uchytíl Jaroslav, MSc, PhD (*Ostrava, Czech Republic*)
Valesova Monika, MSc (*Pilsen, Czech Republic*)
Wanka Pavel, MSc (*Pilsen, Czech Republic*)
Wilczynski Michal, MD (*Lublin, Poland*)
Yudin Pavel, MD (*St. Petersburg, Russia*)
Zaloudkova Margit, Eng, PhD (*Prague, Czech Republic*)
Zemkova Daniela, Dr, PhD (*Prague, Czech Republic*)

This image shows a full page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, providing a template for handwriting practice. There are no margins, text, or other markings on the page.

[illegible]

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

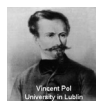
This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

[illegible]

[illegible]

[illegible]



THE ORGANIZERS ARE GRATEFUL FOR THE SUPPORT OF THE SYMPOSIUM

Generální partner symposia

ottobock.

Partneři symposia



Vystavovatelé



ORTOPEDICKÁ PROTETIKA FRÝDEK-MÍSTEK

• komfort • funkce • vzhled • životní styl

Martina Hévrová



Martina Hévrová (*25. 5. 1987) se hře na housle věnuje od svých šesti let. Začínala pod pedagogickým vedením Professor Zdeňka Hamouze v ZUŠ Horoměřice, později byl jejím profesorem Pavel Kubelka v ZUŠ Klapkova. Roku 2007 vystudovala Gymnázium Jana Nerudy s hudebním zaměřením nejprve v houslové třídě Professor Evy Bublové, poté Professor Jiřího Hnyka. 2009 absolvovala Pražskou konzervatoř ve třídě Professor Jitky Novákové. První rok vysokoškolského bakalářského studia studovala ve třídě Professor Františka Novotného na Janáčkově Akademii múzických umění v Brně, následovalo roční studium v rámci programu Erasmus na Hudební Akademii Edvarda Griega v Bergenu v Norsku ve třídě Ricarda Odriozoli. Bakalářské studium zakončila na Královské Dánské Akademii v Kodani v Dánsku, kde v červnu 2012 ve třídě Professor Sergeje Aziziana úspěšně složila státní bakalářskou zkoušku v oboru hudba a hudební pedagogika. Poté následovalo magisterské studium na Hochschule für Musik Carl Maria von Weber Dresden ve třídě Professor Johna Hollowaye.

Již během studií na gymnáziu založila s bratrem Patrikem, který se věnuje hře na klavír, Duo sourozenců Hévrových a pořádají koncerty při různých příležitostech. Je spoluorganizátorkou studentského projektu řady česko německých koncertů, který sklidil pochvalné kritiky německého tisku. Jejím posledním soutěžním úspěchem je 2. cena v soutěži Yamaha v únoru 2010.

Je absolventkou několika našich i zahraničních houslových kurzů a kurzů komorní hudby (Norsko, Německo, Itálie, Česká republika) pod vedením například Františka Novotného, Bohumila Smejkal, Jiřího Hlinky, Borise Belkina. Martina Hévrová je držitelkou německo českého stipendia Brücke Most Stiftung a italského vládního stipendia AIA.

V současné době se věnuje pedagogické činnosti na Mezinárodní Hudební Škole v Praze, taktéž v několika cizích jazycích. Na koncertech pravidelně vystupuje v tuzemsku i zahraničí. Vedle toho působí jako průvodkyně v muzeu Edvarda Griega v Norsku, kde vede prohlídky v norštině, dánštině, italštině, němčině, angličtině a češtině.

Patrik Hévr

Patrik Hévr (*1989) pochází z umělecké rodiny a začal hrát na klavír ve svých čtyřech letech. Klavírní hru studoval nejprve pod vedením prof. Heleny Votýpkové na ZUŠ Ilji Hurníka v Praze. Roku 2009 vystudoval Gymnázium Jana Nerudy s hudebním zaměřením v klavírní třídě prof. Jana Tůmy. Úspěšně absolvoval též na Pražské konzervatoři, kde byl posluchačem klavírní třídy prof. Martina Kasíka. V roce 2010 byl přijat na Hochschule für Musik Nürnberg do třídy Prof. Wolfganga Manze, kde ve svých studiích momentálně pokračuje.

Je vítězem několika národních či mezinárodních soutěží: Prague Junior Note (2001), Mezinárodní klavírní soutěž „Amadeus“ v Brně (2000), Klavírní soutěž „Karlovarská růžička“ (2000), Mezinárodní klavírní soutěž „Virtuosi per musica di pianoforte“ v Ústí nad Labem (2003), Mezinárodní Smetanovská klavírní soutěž v Plzni (2004), Mezinárodní Smetanovská klavírní soutěž „Carl Czerny“ v Praze (2005), soutěž klavírního oddělení Pražské konzervatoře (2012).

Dále je držitelem 3. ceny na Mezinárodní klavírní soutěži „Carl Czerny“ v Praze (2005), společně s hobojovým duem získal 3. cenu na nedávné Lions-Club-Deutschland Musikpreis (2011) a opět jako sólista v roce 2013 2. cenu a cenu publika na mezinárodní klavírní soutěži Chopin-Gesellschaft Hannover.

Je také absolventem několika našich i zahraničních klavírních kurzů a kurzů komorní hry (Norsko, Německo, Česká republika), pod vedením například Martina Kasíka, Ivana Moravce, Leif Ove Andsnese, Ivana Klánského, ad. Sám je docentem na dvou klavírních kurzech a kurzech komorní hudby v Bavorsku.

Patrik Hévr je držitelem cen a stipendií nadací české The Kellner Family Foundation a dále německých Erna Köhler-Stiftung a Anny Kast-Stiftung, DAAD, nadace PE-Förderungen für Studierende der Musik e.V. a Yehudi-Menuhin Stiftung „Live Music Now“.

Patrik Hévr již vystoupil na koncertech ČF či FOK či s Norimberskými symfoniky. Pochvalnou kritiku získaly taktéž jeho četné sólové koncerty či koncerty s komorními soubory v Norsku, v Dánsku, Itálii či Německu.