



invite you to

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

The Symposium will be held in the Czech Police Museum & the Medical House Sokolská 31, 120 26 Prague 2, Czech Republic

under the auspices of honorary president of the Czech Medical Association J.E. Purkynje Professor Jaroslav Blahoš, MD, DSc.

&

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

in September 13 - 16, 2017

### SYMPOSIUM PRELIMINARY PROGRAMME

## Wednesday, September 13, 2017

Arrival of participants to Prague

19.30 Celebrating Supper with participants from abroad

## Thursday, September 14, 2017

8.00 - 9.00 Registration of participants in the CZECH POLICE MUSEUM

9.00 Opening of the Symposium

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

**Welcome Speeches** 

Professor Ivo Marik Professor Mikhail Dudin Professor Tomasz Karski

Invited lecture of the Honorary President of the Czech Medical Aassociation J.E. Purkynje (CMA) and Czech Osteological Society CMA Professor Jaroslav Blahos, MD, DSc.

Blahos Jaroslav / Prague, Czech Republic/

Theme reserved

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

Moderator: Professor Josef Hyanek, MD, DSc.

#### 10.00 - 13.00 Session I:

#### Biomechanics – varia

Chairmen: Petrtýl Miroslav, Culik Jan, Marsik Frantisek

#### Petrtyl Miroslav<sup>1</sup>, Volf Jaromír<sup>2</sup>, Povysil Ctibor<sup>3</sup> / Prague, Czech Republic/

The subtle electrical energy in bone tissue

#### Marsik Frantisek<sup>1,2,3</sup> /Prague, Czech Republic/

The irreversibility of natural processes and their consequences for the evolution of biological systems. Entropy and its biological interpretation

# <u>Tesar Karel</u><sup>1,2</sup>, Sucharda Zbynek <sup>3</sup>, Zaloudková Margit <sup>3</sup>, Balik Karel<sup>3</sup> /Prague, Czech Republic/ Biodegradable magnesium wires for bone support application

Braun Martin, Ryglova Sarka, Supova Monika, Zaloudkova Margit, Krizková Martina, Sucharda Zbynek, Suchy Tomas /Prague, Czech Republic/

<sup>&</sup>lt;sup>1</sup> Department of Mechanics, Laboratory of Biomechanics and Biomaterial Engineering, Czech Technical University, FCE, Prague, Czech Republic

<sup>&</sup>lt;sup>2</sup>Department of Electrical Engineering and Automation, The Faculty of Engineering, Czech University of Life Sciences Prague

<sup>&</sup>lt;sup>3</sup>Institute of Pathology, 1st Faculty of Medicine, Charles University, Prague, Czech Republic

<sup>&</sup>lt;sup>1</sup>Institute of Thermomechanics of the Czech Academy of Sciences, Prague, Czech Republic

<sup>&</sup>lt;sup>2</sup>University of West Bohemia, New Technologies - Research Centre, Pilsen, Czech Republic

<sup>&</sup>lt;sup>3</sup>Faculty of Mathematics and Physics, Charles University, Prague, Czech Republic

<sup>&</sup>lt;sup>1</sup>Department of Materials, Faculty of Nuclear Sciences and Physical Engineering, Czech Republic

<sup>&</sup>lt;sup>2</sup>Department of Dielectrics, Institute of Physics of the Czech Academy of Sciences, Czech Republic

<sup>&</sup>lt;sup>3</sup>Department of Composites and Carbon Materials, Institute of Rock Structure and Mechanics of the Czech Academy of Sciences, Prague, Czech Republic

# Chemical analysis of collagen and non-collagen components of composite biomaterials for implantology

Department of Composites and Carbon Materials, Institute of Rock Structure and Mechanics Academy of Sciences of the Czech Republic

#### Culik Jan / Prague, Czech Republic/

#### Gait model

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

#### 13.00 Lunch

#### 14.00 – 16.30 Session II:

#### Osteology, Bone Metabolism

Chairmen: Palicka Vladimir, Bayer Milan, Marik Ivo

#### Palicka Vladimir /Hradec Kralove, Czech Republic/

Theme reserved

Medical faculty, Charles University, Hradec Kralove

#### Lyritis George / Athens, Greece/

ELECOST: A Greek educational tool for the diagnosis and management of osteoporosis in Greece

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

#### Rizou Stavroula /Athens, Greece/

Are Women Overtreated for Osteoporosis?

Hellenic Osteoporosis Foundation, Kifissia, Greece

#### Nikolaou Dimitrios 1, Rizou Stavroula 2/Athens, Greece/

A novel approach for fracture risk and risk of falling aggregation

<sup>1</sup>Medical School, National and Kapodistrian University of Athens, Greece

#### <u>Lambrou George I.</u> 1,2,3,4/Athens, Greece/

Microgravity and bone metabolism. Issues of *orbis novum* colonalization

### 15.40 Coffee break

#### Bayer Milan<sup>1,2</sup>, Jirotkova Jana<sup>3</sup> /Prague, Czech Republic/

Osteogenesis imperfecta – treatment with bisphosphonate from newborn period

<sup>&</sup>lt;sup>2</sup>Hellenic Osteoporosis Foundation, Kifissia, Greece

<sup>&</sup>lt;sup>1</sup>National and Kapodistrian University of Athens, Medical School

<sup>&</sup>lt;sup>2</sup>Graduate Program "Metabolic Bones Diseases", National and Kapodistrian University of Athens,

<sup>&</sup>lt;sup>3</sup>Medical School, Goudi, Athens, Greece

<sup>&</sup>lt;sup>4</sup>First Department of Pediatrics, University of Athens, Choremeio Research Laboratory, National and Kapodistrian University of Athens, Greece

Vyskocil Vaclav /Pilsen, Czech Republic/

Theme reserved

# 17.30 Visit of the exhibition *Man-made Man –Technology and Medicine*, The National technical museum, Prague

19.00 Dinner

## Friday, September 15, 2017

8.00 - 9.00 Registration of participants in the Medical House, Prague

#### 9.00 – 13.00 **Session III**:

### Spine disorders I: pathogenesis, diagnosis and treatment

Chairmen: Karski Tomasz, Arsenev Aleksey Valentinovich, Parizkova Jana, Repko Martin

#### Karski Tomasz<sup>1</sup>, Karski Jacek <sup>2</sup>/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

#### Pallová Iveta / Prague, Czech Republic/

Characteristic features of idiopathic scoliosis

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

#### Repko Martin, Filipovic Milan /Brno, Czech Republic/

Theme reserved

Orthopaedic department, Faculty Hospital of Masaryk's University Brno

#### Piet J.M. van Loon<sup>1</sup>; Ruud HGP van Erve<sup>1</sup>; Eric BTM Thunnissen<sup>2</sup>, Lodewijk W.van Rhijn<sup>3</sup>,

Andre J Grotenhuis<sup>4</sup> / 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 malalignement. Modern youth and their short cord.

<sup>&</sup>lt;sup>1</sup>Department of Children and Adolescents, Third Faculty of Medicine, Charles University, Prague, Czech Republic

<sup>&</sup>lt;sup>2</sup>Department of Pediatrics, Thomayer Hospital of Prague, Czech Republic

<sup>&</sup>lt;sup>3</sup>Department of Pediatrics, Hospital of Ceske Budejovice, Czech Republic

<sup>&</sup>lt;sup>1</sup>Vincent Pol University in Lublin, Poland

<sup>&</sup>lt;sup>2</sup>Pediatric Orthopedic and Rehabilitation Department of Medical University in Lublin, Poland

<sup>&</sup>lt;sup>1</sup> Orthopedic surgeon, Care to Move, Centre for Orthopedics, Deventer, Netherlands

<sup>&</sup>lt;sup>2</sup> Pathologist, epidemiologist VUMC, Free University, Amsterdam, Netherlands

<sup>3</sup> Professor of orthopedic surgery, Maastricht UMC, Maastricht, Netherlands

<u>Parizkova</u> Jana, Sedlak Petr, Musalek M, Dvorakova H / Prague, Czech Republic / Long term changes of physical activity, motor abilities and problems, and body composition in children and adolescents

Obesity Management Centre, Institute of Endocrinology, Prague Czech Republic

#### 11.00 Coffee break

# Spine disorders II – pathogenesis, diagnosis and treatment - varia

Chairmen: Kolesnichenko Vera, Cerny Pavel, Karski Jacek

<u>Cerny Pavel</u> <sup>1, 2, 3)</sup>, Stolinski Lukasz <sup>4, 5,6)</sup>, Czaprowski Darius <sup>7, 8)</sup>, Marik Ivo <sup>1, 9)</sup>, Muranova J.<sup>3)</sup>, Kotwicki T.<sup>4)</sup>/Prague Pilsen, Czech Republic - Poznaň Olsztyn, Poland / Method of measuring axial pelvis rotation — a pilot study

- <sup>1</sup> Faculty of Health Care Studies, University of West Bohemia, Pilsen, Republic
- <sup>2</sup> Faculty of Physical Education and Sport, Charles University, Prague, Republic
- <sup>3</sup> ORTOTIKA, l.l.c., the complex of the Faculty Hospital at Motol, Prague, Republic
- <sup>4</sup> Department of Spine Disorders and Pediatric Orthopedics, University of Medical Sciences, Poznan, Poland
- <sup>5</sup> Rehasport Clinic, Poznan, Poland.
- <sup>6</sup> Rehasport Clinic Licensed Rehabilitation Center, Skierniewice, Poland
- <sup>7</sup> Department of Physiotherapy, Józef Rusiecki University College, Olsztyn, Poland
- <sup>8</sup> Center of Body Posture, Olsztyn, Poland
- <sup>9</sup> Ambulant Centre for Defects of Locomotor Apparatus l.l.c., Prague, Czech Republic

# <u>Vasilevich SergeyViktorovic</u>h<sup>3</sup>, Arsenev Aleksey Valentinovich<sup>1</sup>, Dudin Mikhail Georgiyevic<sup>1</sup>, Baloshin Yuriy Aleksandrovich<sup>3</sup>, Kipke M.V.<sup>2</sup>, Sorokin A.A.<sup>2</sup> Sukhov T.M.<sup>b</sup>, Sukhova M.A.<sup>c</sup> /St. Petersburg, Russia/

The potential of modern mobile technology for the diagnosis of anthropometric parameters of a human

 $\overline{\ }^1$ Children's Rehabilitation Center of Orthopaedics and Traumatology «Ogonyok»,

<sup>2</sup>FSBEI HE Baltic State Technical University "Voenmeh" Named after D.F. Ustinov

#### Kolesnichenko Vera<sup>1</sup>, Gresko Igor<sup>2</sup> /Kharkov & Lviv Ukraine/

Motor control dysfunction particularly in patients with chronic low back pain and a variety of myotonic reactions

<sup>1</sup> - SI "Sytenko Institute of Spine and Joint Pathology

National Academy of Medical Sciences of Ukraine", Kharkov, Ukraine

<sup>2</sup> - Lviv National Medical University named after Danila Galitsky, Ukraine

# <u>Karski Tomasz</u><sup>1</sup>, Kędzierski Zbigniew<sup>2</sup>, Karski Jacek <sup>3</sup>, Domagała Marian<sup>4</sup>, Slowinska Beata<sup>2</sup>, Kowalska Magdalena<sup>2</sup>, Boryga Bartosz<sup>2</sup> /Lublin, Poland/

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

<sup>1</sup>Vincent Pol University in Lublin, Poland

<sup>&</sup>lt;sup>4</sup> Professor of neurosurgery, RadboudMC, University of Nijmegen, Netherlands

<sup>&</sup>lt;sup>3</sup>Ltd "Smart-Orto", St. Petersburg, Russia

<sup>&</sup>lt;sup>2</sup>Military Hospital in Lublin, Poland

#### 13.00 Lunch

#### 14.00 - 18.30 Session IV:

# Disorders of growing skeleton – orthopaedic anthropology – pathobiomechanics – varia

Chairmen: Zemkova Daniela, Karski Jacek, Marik Ivo

<u>Zemková Daniela</u><sup>3, 1</sup>, Marik Ivo <sup>1,2,4</sup>, Petrasova Sarka<sup>1</sup>, Hudakova Olga<sup>1</sup> / Prague & Pilsen, Czech Republic/

Skeletal disorders with lower and higher bone density

- <sup>1</sup> Ambulant Centre for Defects of Locomotor Apparatus l.l.c.; Prague; Czech Republic
- <sup>2</sup> Faculty of Health Care Studies, West Bohemia University; Pilsen, Czech Republic
- <sup>3</sup> Dept. of Paediatrics; University Hospital Motol; Prague; Czech Republic
- <sup>4</sup> Orthopaedic and Traumatology Department, Hospital Pribram, Czech Republic

#### Hruskova Lucie et al. /Prague, Czech Republic/

Recessive forms of osteogenesis imperfecta

Department of Pediatrics and Adolescent Medicine, First Faculty of Medicine, Charles University in Prague, Czech Republic

Marik Ivo 1,2,4, Zemkova Daniela 1,3, Myslivec Radek 4,1, Marikova Alena 1, Cerny Pavel /Prague & Pilsen, Czech Republic/

Functional adaptation of bones. Explanation of skeletal deformities in skeletal genetic disorders

- <sup>1</sup> Ambulant Centre for Defects of Locomotor Apparatus l.l.c.; Prague; Czech Republic
- <sup>2</sup> Faculty of Health Care Studies, West Bohemia University; Pilsen, Czech Republic
- <sup>3</sup> Dept. of Paediatrics; University Hospital Motol; Prague; Czech Republic
- <sup>4</sup> Orthopaedic and Traumatology Department, Hospital Pribram, Czech Republic
- <sup>5</sup> Ortotica l.l.c.

# Anyzova Tereza<sup>1</sup>, <u>Zemkova Daniela</u> <sup>2, 1</sup>, Petrasova Sarka <sup>1</sup>, Marikova Alena<sup>1</sup>, Morvova Zuzana<sup>1</sup>, Marik Ivo <sup>1,2</sup>/Prague & Pilsen, Czech Republic/

Growth curves of Czech achondroplastic patients – a pilot study

- <sup>1</sup> Ambulant Centre for Defects of Locomotor Apparatus l.l.c.; Prague; Czech Republic
- <sup>2</sup> Dept. of Paediatrics; University Hospital Motol; Prague; Czech Republic
- <sup>3</sup> Faculty of Health Care Studies, West Bohemia University; Pilsen, Czech Republic

#### Funda Jiri /Příbram, Czech Republic/

Leg length discrepancy following total hip arthroplasty

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

#### Kwiatkowski Michal, Popko Janusz /Bialystok, Poland/

Surgical treatment of flexible flatfoot in children. Early follow up study.

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

# <u>Karski Jacek</u><sup>1</sup>, Okoński Marek<sup>1</sup>, Jakubowski Pawel<sup>1</sup>, Karska Klaudia<sup>2</sup>, Kandzierski Grzegorz<sup>1</sup> Indications for surgical treatment in Perthes disease. The effectiveness of different methods

<sup>1</sup> Paediatric Orthopaedic and Rehabilitation Department of Medical University in Lublin

#### 16.30 Coffee break

**Zwipp Hans** / Dresden, Germany/

Fractures of the Foot and its Relevance of Foot Development in Children Orthopedic and Traumatology Department of the University in Dresden, Germany

Nemec Ivo <sup>1</sup>, Smrcka Vaclav<sup>2</sup>, Mihaljevič M. <sup>3</sup>, Mazánek J. <sup>4</sup>, Pokorný J. <sup>5</sup>/Prague, Czech Republic/ Effect of inferior alveolar nerve transection on the inorganic component of the mandible – experimental model.

- <sup>1</sup> Department of Otorhinolaryngology and Maxillofacial Surgery 3<sup>rd</sup> Faculty of Medicine of Charles University in Prague & the Military University Hospital Prague, Czech Republic.
- <sup>2</sup> Institute for History of Medicine and Foreign Languages & Department of Plastic Surgery, 1<sup>st</sup> Faculty of Medicine, Charles University in Prague, Bulovka Hospital, Czech Republic
- <sup>3</sup> Institute of Geochemistry, Mineralogy and Mineral Resources, Faculty of Science, Charles University in Prague, Czech Republic
- <sup>4</sup> Department of Stomatology, 1<sup>st</sup> Faculty of Medicine, Charles University in Prague and General University Hospital in Prague, Czech Republic
- <sup>5</sup> Institute of Physiology, 1<sup>st</sup> Faculty of Medicine, Charles University in Prague, Czech Republic

## Zarković Dragana<sup>1</sup>, Sorfova Monika<sup>1</sup>, Groleger-Srsen Katja<sup>2</sup>, Cikajlo Imre<sup>3</sup>/Prague, Ljubljana & Soča, Czech Republic & Slovenia/

Can we improve selective voluntary motor control in cerebral palsied children?

- <sup>1</sup>Charles University in Prague, Faculty of Physical Education and Sport, Department of Anatomy and Biomechanics, Prague, Czech republic bUniversity of Ljubljana, Faculty of Medicine,
- <sup>2</sup>University Rehabilitation Institute of Republic Slovenia Soča, Children's rehabilitation department, Ljubljana, Slovenia
- <sup>3</sup>University Rehabilitation Institute of Republic Slovenia Soča, Laboratory of clinical kinesiology, Ljubljana, Slovenia

## <u>Ryba Lukas</u><sup>1)</sup>, Koudela Karel<sup>2)</sup>, Marik Ivo<sup>1),3)</sup>, Rybova Stepanka<sup>1)</sup>, Staskova Sarka<sup>1)</sup>, Vlckova Iva <sup>1)</sup> /*Pilsen & Prague, Czech Republic*/

Physiotherapy treatment in patient with femoroacetabular impingement - systematic review

- 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

#### 19.00 Dinner - Raut in the Restaurant History

<sup>&</sup>lt;sup>2</sup> Department of Interventional Radiology and Neuroradiology of Medical University in Lublin

## Saturday, September 16, 2017

8.00 - 9.00 Registration of participants in the Medical House, Prague

#### 9.00 - 12.00 Session V: lectures & posters

# Disorders of growing skeleton – orthotics and prosthetics - biomechanics – varia

Chairmen: Povysil Ctibor, Zemkova Daniela, Kuklik Miloslav

#### Povysil Ctibor<sup>1</sup>, Marik Ivo<sup>2,3</sup>, Zemkova Daniela<sup>2,4</sup>, Krepelová Anna<sup>5</sup>, Kuklik Miloslav<sup>4</sup>,

Kozlowski Kazimierz<sup>6</sup>, /Prague & Sydney, Czech Republic, Australia/

Diastrophic dysplasia

Smrcka Vaclav /Prague, Czech Republic/

Challenges of biomolecular paleopathology

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 Loon<sup>1</sup>; Ruud HGP van Erve<sup>1</sup>; Andre J Grotenhuis<sup>2</sup>, Eric BTM Thunnissen<sup>3</sup>

| Deventer, Nijmegen & Amsterdam, Netherlands

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

- 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

#### Wanka Pavel, Šnytr Jan /Pilsen, Czech Republic/

Theme reserved

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

### 11.00 Coffee break

#### Bem Robert, Fejfarova Vladimira /Prague, Czech Republic/

Charcot foot the neglected complication of diabetes

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

Fejfarova Vladimira / Prague, Czech Republic/

<sup>&</sup>lt;sup>1</sup>Institute of Pathology, 1st Faculty of Medicine, Charles University, Prague, Czech Republic

<sup>&</sup>lt;sup>2</sup>Ambulant Centre for Defects of Locomotor Apparatus; Prague; Czech Republic

<sup>&</sup>lt;sup>3</sup>Faculty of Health Care Studies, West Bohemia University; Pilsen, Czech Republic

<sup>&</sup>lt;sup>4</sup>Dept. of Paediatrics; University Hospital Motol; Prague; Czech Republic

<sup>&</sup>lt;sup>4</sup>Genetic Dept.; Czech Republic, Prague 3; Czech Republic

<sup>&</sup>lt;sup>5</sup>Dept. of molecular genetics, Institute of biology and medical genetics, University Hospital Motol;

Prague; Czech Republic

<sup>&</sup>lt;sup>6</sup>New Children Hospital, Westmead, Sydney, Australia

#### Conservative treatment of Charcot foot

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

#### Navratil Kamil / Prague, Czech Republic/

Surgical management of Charcot foot

Transplantation Surgery Department, Institute for Clinical and Experimental Medicine, Prague, Czech Republic

<u>Krawczyk Petr</u> <sup>1</sup>, Marik Ivo<sup>2</sup>, Jakub Jozef <sup>1</sup>, Sykora Ales <sup>1</sup>, Zemkova Daniela<sup>2</sup>, Petrasova Sarka<sup>2</sup> Marik Jan<sup>2</sup>, Uchytil Jaroslav<sup>3</sup>, Jandacka Daniel <sup>3</sup>/Prague & Ostrava, Czech Republic/

Influence of the weight of the transtibial prosthesis on postural stability and locomotion

#### E- posters

Presenter: Arsenev Aleksey Valentinovich

Rybka Dina Olegovna, Dudin Mikhail Georgiyevich, Sharova L.E. /St. Petersburg, Russia/ Capabilities of ultrasound diagnostics of paravertebral muscules in healthy children.

Preliminary report

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

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

#### Bazanova M.V., Dudin Mikhail Georgiyevich, Koloskova L.E.

Vitamin D 3 and VDR gene role in AIS pathogenesis within infant population. (Preliminary report.)

Children's Rehabilitation Center of Orthopaedics and Traumatology «Ogonyok», St. Petersburg, Russi

#### Dudin Mikhail Georgiyevich, Bober S., Maximova N., Gaiduk T., Bogdanova N.

/St. Petersburg, Russia/

Selective biofeedback training of the m. transversospinalis method for AIS.

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

Children's Rehabilitation Center of Orthopaedics and Traumatology «Ogonyok», St. Petersburg, Russia Saint Petersburg, Russia

#### Ivo Marik & Petr Krawczyk, Tomasz Karski & Arsenev Aleksey Valentinovich

Closing of the Symposium & Certificates & planning The 20<sup>th</sup> Prague-Lublin-Sydney-St.

Petersburg Symposium

<sup>&</sup>lt;sup>1</sup> PROTEOR CZ l.l.c., Ostrava, Czech Republic

<sup>&</sup>lt;sup>2</sup> Ambulant Centre for Defects of Locomotor Apparatus l.l.c., Prague, Czech Republic

<sup>&</sup>lt;sup>3</sup> Diagnostic Centre of Human Movement PdF, Ostrava University, Czech Republic

<sup>&</sup>lt;sup>4</sup> Faculty of Medical Studies, West Bohemia University, Pilsen, Czech Republic

## Good bye!

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#### **NOTES**

Lectures and text slides will be presented in English. Time of both the individual lectures and discussion is about 20 min.

A list of lectures/posters and chairmen of sessions can be changed!

Conference fee 50 Euros (it contains social programme & refreshment) will be paid by Bank Transfer

Bank: ČSOB, Na Pankráci 310/60, 140 00 Praha 4

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Accommodation in hotels everybody pays independently.

Abstracts of lectures will be published in the Supplement 2 of the journal Locomotor System 24/2017 (electronic version, ISSN 2336-4777, <a href="http://www.pojivo.cz/cz/pohybove-ustroji/">http://www.pojivo.cz/cz/pohybove-ustroji/</a>)

Participants will receive the Programme & Certificate of Attendance & Symposium materials

More recent information about the Symposium will be available on the websites: <a href="https://www.pojivo.cz">www.pojivo.cz</a> & <a href="https://www.pojivo.cz">www.pls-symposium.com</a>

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#### Do not hesitate address your questions to

## **International Organizers of the Symposium:**

Prof. Ivo Marik, MD, PhD & Petr Krawczyk, MD e-mail: ambul\_centrum@volny.cz & krawczyk@proteorcz.cz

Prof. Tomasz Karski, MD, PhD & Jacek Karski, MD, PhD e-mail: tmkarski@gmail.com & jkarski@vp.pl

Prof. Mikhail Dudin, MD, PhD & Assist. Prof. Aleksey Shashko, MD e-mail: ogonek@zdrav.spb.ru & <a href="mailtru">shravan@mail.ru</a>

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Notes: an information on the Czech Police Museum is at <a href="http://www.prague.eu/en/object/places/544/czech-police-museum-muzeum-policie-cr">http://www.prague.eu/en/object/places/544/czech-police-museum-muzeum-policie-cr</a>