



THE 23RD PRAGUE-LUBLIN-SYDNEY-ST PETERSBURG SYMPOSIUM

Locomotor Apparatus Adaptation II –Interdisciplinary Aspects

November 20, 2021 | Medical House | Sokolská 31 | Prague, Czech Republic



Society For Connective Tissues CMA J.E. Purkyně & Society for Prosthetics and Orthotics CMA J.E. Purkyně
& Czech Medical Association J.E. Purkyně & Medical University of Lublin & Vincent Pol University in Lublin &
Children's Rehabilitation Center of Orthopaedics and Traumatology "Ogonyok", St. Petersburg

invite you for

THE 23RD PRAGUE-LUBLIN-SYDNEY- -ST PETERSBURG SYMPOSIUM

Locomotor Apparatus Adaptation II – Interdisciplinary Aspects

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

Professor Štěpán Svačina, MD, DSc.

&

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

Professor Josef Hyánek, MD, DSc.

The Symposium will be held at the

Medical House, Sokolská 31, 120 26 Prague 2, Czech Republic, in November 20, 2021

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



PROGRAMME

SATURDAY, NOVEMBER 20, 2021

8.00–9.00 REGISTRATION OF PARTICIPANTS

9.00 OPENING OF THE CONFERENCE

WELCOME SPEECHES

Professor Ivo Marik, MD, PhD

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

Professor Tomasz Karski, MD, PhD

Honorary member of the Society for Connective Tissues, Czech Medical Association J.E. Purkyně

Braun Martin, RNDr, PhD

Introduction of Professor Dr. Hans Zwipp (Dresden, Germany)

Braun Martin, RNDr, PhD

Introduction of Dr. Piet van Loon (Deventer, Netherlands)

9.20–12.20 | MORNING SESSIONS

9.20 | SESSION I: ADAPTATION OF LOCOMOTOR APPARATUS 1

Chairmen: Mařík Ivo, Krawczyk Petr

Toes flexions test to recognize the functional status of the foot:

Examples of pathology: Knowledge since 1971

Test ohýbání prstů k rozpoznání funkčního stavu nohy:

Příklady patologie: Poznatky od roku 1971

Karski Jacek¹, Karski Tomasz², Beata Slowinska³, Bartosz Boryga³ (Lublin, Poland)

¹ Dr med. Karski Jacek, Medical University in Lublin, Poland, jkarski@vp.pl

² Prof. Karski Tomasz, Vincent Pol University in Lublin, Poland, tmkarski@gmail.com

³ Mgr Beata Slowińska & Mgr Bartosz Boryga, Rehabilitation Center in Military Hospital in Lublin, Poland, beataslowinska2016@gmail.com, b.boryga@wp.pl

Classification of Sequelae of Foot and Ankle Syndromes in Adults, Adolescents and Children

Klasifikace následků syndromů nohy a kotníku u dospělých, dospívajících a dětí

Zwipp Hans (Dresden, Germany)

Orthopedic and Traumatology Department of the University in Dresden, Germany

Influence of the weight of the transtibial prosthesis on postural stability and locomotion – final results

Vliv hmotnosti transtibiální protézy na posturální stabilitu a lokomoci – konečné výsledky

Krawczyk Petr¹, Marik Ivo², Zemkova Daniela², Uchytíl Jaroslav³, Jandacka Daniel³, Buzga Marek⁵, Sykora Ales¹ (Ostrava, Prague & Pilsen; Czech Republic)

¹ *PROTEOR CZ I.L.c., Ostrava, Czech Republic*

² *Centre for Defects of Locomotor Apparatus I.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*

⁵ *Faculty of Medicine, University of Ostrava*

The effect of gait school on functional mobility in patients after unilateral transfemoral lower limb amputation due to dysvascular causes

Vliv školy chůze na funkční mobilitu pacientů po jednostranné transfemorální amputaci dolní končetiny z dysvaskulární příčiny

Šorfová Monika, Vitnerová Tereza (Prague; Czech Republic)

Department of Anatomy and Biomechanics, Faculty of physical education and sport, Charles University in Prague, Czech Republic

DISCUSSION AFTER EACH LECTURE

10.40–11.00 COFFEE BREAK

11.00 | SESSION I: ADAPTATION OF LOCOMOTOR APPARATUS 2

Chairmen: Kraus Josef, Krawczyk Petr

Detection of mild cognitive impairment during locomotion after stroke

Detekce mírné kognitivní poruchy během lokomoce po cévní mozkové příhodě

Hereitová Iva^{1,2}, Krobot Alois¹ (Olomouc & Pilsen; Czech Republic)

¹ *Neurology Clinic of the Faculty of Medicine, Palacky University and University Hospital Olomouc*

² *Faculty of Health Care Studies, West Bohemia University in Pilsen, Czech Republic*

Gait adaptation in children with spastic cerebral palsy Adaptace chůze u dětí s DMO spastickou diparézou

Kraus Josef (Prague; Czech Republic)

Dept. of children neurology, University Hospital Motol, Prague, Czech Republic

Physiotherapy in geothermal water. Information on water resources in Poland. Knowledge for doctors and patients

Fyzioterapie v geotermální vodě. Informace o vodních zdrojích v Polsku. Znalosti pro lékaře a pacienty

Karski Tomasz¹, Karski Jacek², Domagała Marian³, Karska Klaudia⁴, Zimny Jacek⁵, Struś Mieczysław⁶, Szczotka Krzysztof⁷ (Lublin & Łaszczów & Kraków & Wrocław, Poland)

¹ Prof. Tomasz Karski, Vincent Pol University, Lublin, tmkarski@gmail.com

² Jacek Karski, PhD, Medical University in Lublin, jkarski@vp.pl

³ Dr Marian Domagała, Medical Centre in Łaszczów near Tomaszów Lubelski, mariandomagala1213@yahoo.pl

⁴ Dr Karska Klaudia, Medical University in Lublin, clovdia@o2.pl

⁵ Prof. Eng. Jacek Zimny, AGH, University of Science and Technology in Kraków, Prof. J. Sokolowski's Geothermal Poland Association, zimny@agh.edu.pl

⁶ Prof. Eng. Mieczysław Struś, Technical University, Wrocław, mieczyslaw.strus@pwr.edu.pl

⁷ Dr Eng. Krzysztof Szczotka, AGH, University of Science and Technology in Kraków, szczotka@agh.edu.pl

Evaluation of functional properties of connective tissues based on monitoring of collagen and elastin crosslinks by HPLC analysis

Hodnocení funkčních vlastností pojivových tkání na základě sledování příčných vazeb kolagenu a elastinu pomocí HPLC analýzy

Braun Martin¹, Šupová Monika¹, Suchý Tomáš^{1, 2}

¹ Department of Composites and Carbon Materials, Institute of Rock Structure and Mechanics, Czech Academy of Sciences, V Holešovičkách 41, Prague 8, 182 09, Czech Republic

² Faculty of Mechanical Engineering, Czech Technical University in Prague, Technická 4, Prague 6, 166 07, Czech Republic

TIME FOR LECTURE INCLUDING DISCUSSION IS 20 MIN.

DISCUSSION AFTER EACH LECTURE.

12.20–13.00 | LUNCH

13.00–17.00 | AFTERNOON SESSIONS

**13.00 | SESSION II: RICKETS AND GENETIC RICKETS.
ETIOPATHOGENESIS OF SKELETON ADAPTATION**

Chairmen: Kutílek Štěpán, Šumník Zdeněk, Mařík Ivo

**Not all rickets are the same
Všechny křivice nejsou stejné**

Kutílek Štěpán (Klatovy, Czech Republic)

Dept. of Paediatrics; Hospital Klatovy; Klatovy, Czech Republic

**Growth of Czech patients with hypophosphatemic rickets (XLH)
on conventional therapy**

Růst českých pacientů s hypofosfatemickou křivicí (XLH) na konvenční terapii

Zemková Daniela^{1,2}, Mařík Ivo^{1,3,4} (Prague; Czech Republic)

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

² Dept. of Paediatrics; University Hospital Motol; Prague

³ Faculty of Health Care Studies, West Bohemia University; Pilsen, Czech Republic

Experience with Burosumab treatment in children with XLH: a case report

Zkušenosti s léčbou Burosumabem u dětí s XLH – kasuistika

Šumník Zdeněk, Maratová Klára, Souček Ondřej (Prague; Czech Republic)

Dept. of Paediatrics; 2nd Faculty of Medicine, Charles University and Motol University Hospital, Prague, Czech Republic

**Stress fracture in a 33-year-old patient with XLH treated since preschool age with
vitamin D3, phosphates and surgery – a case report**

**Přestavbová zlomenina tibie u 33letého pacienta léčeného od předškolního
věku vitaminem D3, fosfáty a chirurgicky – kasuistika**

Mařík Ivo^{1,2,4}, Zemková Daniela^{1,3}, Myslivec Radek^{4,1}, Hudáková Olga^{1,5} (Prague, Pilsen & Příbram; Czech Republic)

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

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

³ Dept. of Paediatrics; University Hospital Motol; Prague

⁴ Orthopaedic and Traumatology Department, Hospital Příbram; Příbram Czech Republic

⁵ Health Centre I.P. Pavlova I.L.c.; Prague

TIME FOR LECTURE INCLUDING DISCUSSION IS 20 MIN.

DISCUSSION AFTER EACH LECTURE.

14.20–14.30 | COFFEE BREAK

Chairmen: Zemková Daniela, Krulišová Veronika, Mařík Ivo

Differential diagnosis of Czech dysplasia Diferenciální diagnostika České dysplazie

Zemková Daniela³, Mařík Ivo^{2,4}, Hudáková Olga¹, Mortier Geert R⁴, Kozłowski Kazimierz (Prague, Pilsen; Czech Republic & Antwerp; Belgium & Sydney; Australia)

¹ Centre for Defects of Locomotor Apparatus I.L.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 Department of Medical Genetics, Antwerp University Hospital and University of Antwerp; Antwerp; Belgium

⁵ Department of Medical Imaging, Children's Hospital at Westmead, Sydney, Australia

Exome Sequencing as Diagnostic Tool in Locomotor Apparatus Diseases Sekvenování exomu jako diagnostický nástroj u vrozených onemocnění pohybového aparátu

Paszeková Helena¹, Michalovská Renáta¹, Hrušková Lucie¹, Krulišová Veronika¹, Vlčková Zdenka¹, Zemková Daniela^{2,3}, Mařík Ivo^{2,4} (Prague, Pilsen; Czech Republic)

¹ GHC Genetics

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

³ Dept. of Paediatrics; University Hospital Motol; Prague

⁴ Faculty of Health Care Studies, West Bohemia University; Pilsen, Czech Republic

Molecularly genetically verified multiple epiphyseal dysplasia, type 4 and type 5: comparison of clinical findings and radiographic features

Molekulárně geneticky ověřená mnohočetná epifyzární dysplazie, typ 4 a typ 5: srovnání klinických nálezů a radiografických znaků

Vážná Anna^{1,6}, Zemková Daniela^{1,3}, Mařík Ivo^{1,2}, Krulišová Veronika⁵, Vlčková Zdenka⁵, Malíková Marcela⁴, Hrušková Lucie⁵, Michalovská Renáta⁵

¹ Centre for Defects of Locomotor Apparatus I.L.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 Institute of biology and medical genetics, University Hospital Motol; Prague; Czech Republic

⁵ GHC Genetics; Prague; Czech Republic

⁶ Department of Anthropology and Human Genetics, The Faculty of Science, Charles University; Prague; Czech Republic

Register of achondroplasia 2015–2021

Registr Achondroplazie 2015–2021

Peší Matin, Vereščáková H., Kotrylová J., Krejčí Pavel (Brno, Czech Republic/hondrolali)

Fakultní nemocnice u sv. Anny v Brně, Brno, Czech Republic

TIME FOR LECTURE INCLUDING DISCUSSION IS 20 MIN.

DISCUSSION AFTER EACH LECTURE.

15.50–16.00 | COFFEE BREAK

16.00 | SESSION IV: BIOMECHANICS & PATHOBIOMECHANICS – ADAPTATION OF LOCOMOTOR APPARATUS

Chairmen: Povýšil Ctibor, van Loon Piet, Miroslav Petrtýl

Macroductyly of hand – etiopathogenesis and therapy: a case report Makrodaktylie ruky – etipatogenese a léčení: kasuistické sdělení

Mařík Ivo^{1, 2}, Zemková Daniela^{1, 3}, Krawczyk Petr⁴, Smrčka Václav⁵, Povýšil Ctibor⁶ (Prague, Pilsen & Ostrava; Czech Republic)

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

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

³ Dept. of Paediatrics; University Hospital Motol; Prague, Czech Republic

⁴ PROTEOR CZ I.L.c., Ostrava, Czech Republic

⁵ ESME I.L.c., Prague, Czech Republic

⁶ Institute of Pathology, 1st Faculty of Medicine and General University Hospital, Prague, Czech Republic

Sitting as the unspoken accelerator of the “OsteoNeural Pandemic. Staggering fresh data and evidence in (Dutch) youth in the light of classic Orthopedics

Sezení jako nevyslovený urychlovač „osteoneurální pandemie“. Ohromující čerstvé údaje a důkazy u (nizozemské) mládeže ve světle klasické ortopedie

van Loon Piet JM¹, Grotenhuis Andre J², Soeterbroek Andre M³ (Deventer, Nijmegen & Oosterbeek, Netherlands)

¹ Orthopedic surgeon, Posture Network Netherlands, Proktovar Hengelo

² Em. Professor, neurosurgery Radboud University Nijmegen

³ Analyst, chairman Posture Network, Netherlands

**Neuroradiologic treasures on MRI in discongruent Osteoneural Growth Relations
Consequent findings on MRI in case of malalignment of the skeleton (posture
and deformities) and the lack of contemporary research**

**Neuroradiologické poklady na MRI u diskongruentních osteoneurálních
růstových vztahů. Následné nálezy na MRI v případě "malalignment" skeletu
(špatného držení těla a deformity) a nedostatek současného výzkumu**

van Loon Piet JM¹, Grotenhuis Andre J², Soeterbroek Andre M³ (Deventer, Nijmegen & Oosterbeek, Netherlands)

¹ Orthopedic surgeon, Posture Network Netherlands, Proktovar Hengelo

² Em. Professor, neurosurgery Radboud University Nijmegen

³ Analyst, chairman Posture Network Netherlands

TIME FOR LECTURE INCLUDING DISCUSSION IS 20 MIN.

DISCUSSION AFTER EACH LECTURE.

17.00 | CLOSING OF THE SYMPOSIUM AND PLANNING

THE 24TH PRAGUE-LUBLIN-SYDNEY-ST. PETERSBURG SYMPOSIUM

Ivo Marik & Petr Krawczyk & Tomasz Karski & Piet van Loon

18.00 | DINNER

ORGANIZERS OF THE SYMPOSIUM

Professor Ivo Mařík, MD, PhD & Petr Krawczyk, MD & Martin Braun, RNDr., PhD

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Faculty of Health Care Studies, West Bohemia University, Pilsen &

Centre for Defects of Locomotor Apparatus I.I.c., Prague, Czech Republic, ambul_centrum@volny.cz

&

PROTEOR CZ I.I.c., Ostrava, Czech Republic, krawczyk@proteorc.cz

&

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

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

Participants will receive the Programme and Certificate of Attendance

Abstracts of lectures will be published in Supplement 2 of the journal Locomotor System, vol. 28, 2021

(electronic version, ISSN 2336-4777, <http://www.pojivo.cz/cz/pohybove-ustroji/>)

More recent information about the Symposium will be available on the websites:

www.pojivo.cz & www.ortoprotetika.cz

Partneři sympozia



KYOWA KIRIN

Taking the walk of life, one life at a time.

Speech of welcome to

The 23rd Prague-Lublin-Sydney-St. Petersburg Symposium – Locomotor Apparatus Adaptation II – Interdisciplinary Aspects

In Lublin, October 28, 2021

Dear participants of the 23rd Prague-Lublin-Sydney-St. Petersburg Symposium,
which will take place on 20th November 2021.

In spite of many difficulties – such as the Corona virus pandemic or our personal problems, we are meeting again in beautiful Prague with our Czech friends and many other colleagues from different countries.

I remember my first meeting and scientific discussion with Prof. Ivo Mařík during the “Orthopaedic Days of Prof. Jan Červenanský” in Bratislava, Slovakia. It was in 1998.

For years – since then – we have been in scientific contact and discussing scientific matters – mostly here in the Czech Republic, but also in Rhodes, St. Petersburg and in Poland – in Lublin, Kozłówka, Sarbinów, Zwierzyniec, Krasnobrod. All these meetings were nice, pleasant and – what is very important – useful for many suffering people – our patients in other countries as well. During the symposia we always learn how best and with the best methods to treat our patients.

I hope that the 23rd meeting in Prague on 20 November 2021 will be pleasant, friendly and scientifically informative for all present.

Prof. Tomasz Karski MD, PhD

Retired Head of Pediatric Orthopedic and Rehabilitation Department
of Medical University in Lublin in year 1995–2009.
Presently, Professor Lecturer in the Vincent Pol University, Lublin, Poland
E-mail: tmkarski@gmail.com
www.ortopedia.karski.lublin.pl

Ladies and Gentlemen, dear colleagues!

I cordially welcome you all to the **The 23rd Prague-Lublin-Sydney-St. Petersburg Symposium**, which is held under the auspices of the President of the Czech Medical Society (ČLS JEP), Professor Štěpán Svačina, DrSc. and the Honorary President of the Society for Connective Tissues ČLS JEP Professor Josef Hyánek, DrSc.

Due to the worsening epidemiological situation, the organizers prepared both the present and online form of the Symposium.

The decision of foreign speakers to attend the Symposium in Prague in person was influenced by the progression of Covid 19 in the Czech Republic in recent days. On November 13, 2021, Professor Tomasz Karski informed me of a similar situation in Poland. He and his colleagues decided to participate in the 23rd PLSSStP online symposium.

The day after, Professor Dr. Hans Zwiipp wrote to me, because the Czech Republic had meanwhile been declared a high risk area for Covid19: I am not yet boosted, I have to cancel my personal participation in the symposium, which I am very sorry about. I will try to present my lecture online. However, I will prepare a publication of my topic for the journal Locomotor system.

It is a pleasure to welcome among us Dr. Piet Van Loon from Deventer, the Netherlands, an orthopaedic surgeon who is particularly interested in „movement care“ based on aspects of osteovertebral and osteoneural growth relationships according to Milan Roth.

I warmly welcome all colleagues, specialists from different medical disciplines, experts in biomechanics, orthotics, physiotherapy and other participants who are interested in neuromusculoskeletal disorders from different perspectives.

My heartfelt thanks go to my close colleagues Petr Krawczyk, MD and RNDr. Martin Braun, PhD and the experienced team of the Medical House in Prague, especially Mr. Stavinoha and Mr. Ing Šubert, without whose dedication and perfect organization the symposium would not have been possible both in a face-to-face and online form.

I would also like to thank the partners of the symposium, Kyowa Kirin, represented by Ms. Mgr. Petra Lepilová, and Orling s.r.o., represented by its director Mr. Ing. Petr Dušek.

Recently, an interdisciplinary approach to congenital and acquired skeletal deformities has been adopted as the main line of thought to recognize new relationships regarding the etiology, pathogenesis, and ultimately complex and even causal therapy of genetic skeletal disorders. New discoveries are being made at the interface of disciplines. I believe that scientific lectures will expand our knowledge to benefit our affected patients. I wish you to enjoy new scientific information, and I hope you make new friendships which will help us to arrange international and interdisciplinary scientific research.

As at the beginning of every Symposium, let me briefly recall a few moments that I and a few colleagues spent in Prague in September 2020.

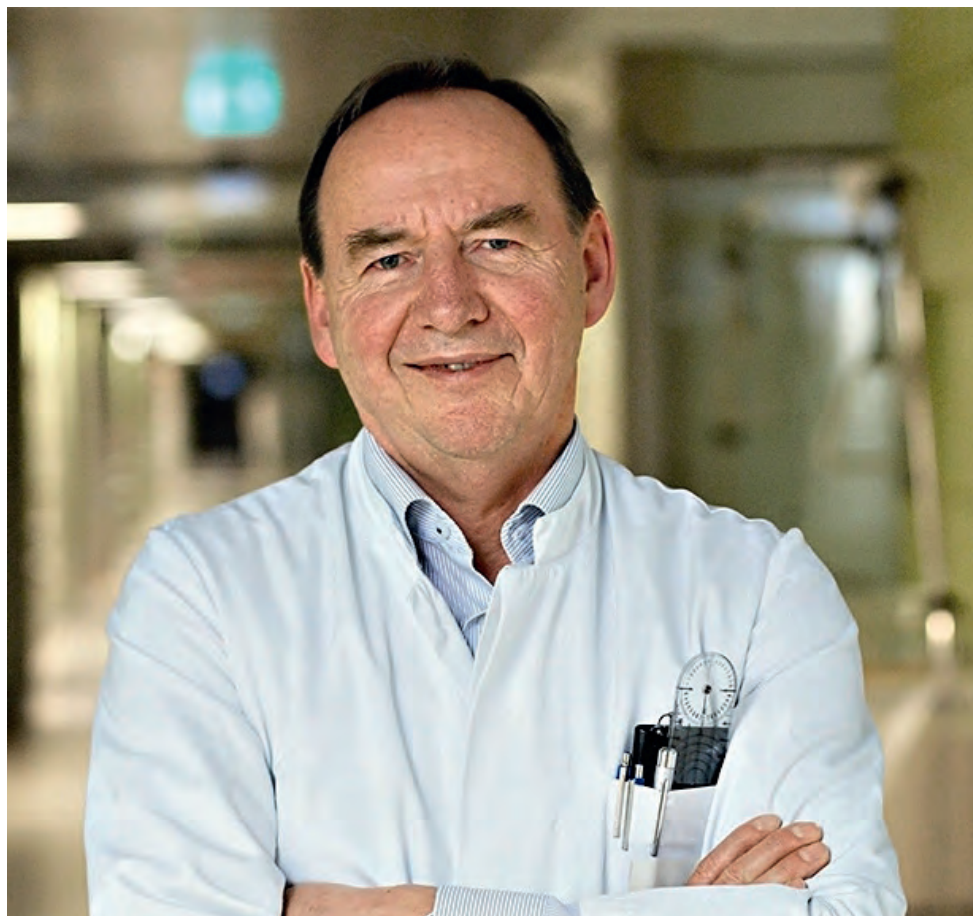
Take a look at the photos.

Professor Ivo Marik, MD, PhD, FABI

Chief of the Centre for Patients with Locomotor Defects, Prague, CZ
President of the Society for Connective Tissue, CMA 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







PROF. DR. MED. HANS ZWIPP

Scientific curriculum vitae

Born 1st March 1949 in Neustadt (near Coburg)

Professor Zwipp, Chairman Emeritus of the Dresden Surgical Clinic, is an internationally renowned traumatologist, scientist, teacher, writer and above all an excellent physician respected by his patients and colleagues.

To this day, he is an invited speaker at numerous international symposia. Since 2017, he has been actively involved in the international symposium Prague-Lublin-Sydney-St. Petersburg, which we organize annually with colleagues from Lublin and St. Petersburg. We highly appreciate his publications in the journal *Locomotor System – Advances in Research, Diagnosis and Therapy*.

He has devoted his professional life to, surgery, orthopaedics and traumatology, as evidenced by his scientific curriculum vitae, which is attached. He received numerous honors and awards for his outstanding work during his lifetime.

- 1969 – A-levels at Martin-Butzer High School in Dierdorf in Westerwald
- 1969–1975 – Study of veterinary medicine, theology and human medicine in Vienna, Berlin, Bochum and Essen
- 1975 – graduated aculty in Essen
- 1975–1977 – medical assistant in St. Vincenz hospital/ Bethesda in Essen
- 1978–1993 – surgery practise at Teaching Hospital in Hannover (MHH) in Lower Saxony (headed by Prof. Dr. med. H. Tscherne)
- 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
- 1986 – specialist in sport medicine
- 1993 – specialist in urgent medicine
- 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

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
- 1998–1999 – president of Surgery Association in Saxony

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- 1999 – 2001 – member of the board of German Association for Trauma Surgery
 - 2000 – 2004 – member of consulting board of 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
 - 2017 – Honorary membership of the Society for Connective Tissues, Czech Medical Association J. E. Purkyně

On the occasion of The 19th Prague-Lublin-Sydney-St Petersburg Symposium, which took place at the Medical House in Prague on 13–16 September 2017, Prof. Zwipp was awarded Honorary Membership in the Society for Connective Tissues of the Czech Medical Association J.E. Purkyně (CMA JEP).

The Committee of the Society for Connective Tissues of the CMA JEP, z.s. at the meeting on 21.10.2021 approved the nomination of Prof. Hans Zwipp for the award of the Honorary Medal of the CMA JEP.

This award was presented to him by Prof. Štěpán Svačina, MD, DSc., President of the CMA JEP, on the occasion of the 23rd Prague-Lublin-Sydney-St. Petersburg Symposium (Medical House in Prague, 20.11.2021).

Professor Zwipp shared his experience with the Symposium participants with a well-documented lecture „Classification of Sequelae of Foot and Ankle Syndromes in Adults, Adolescents and Children“, which he is preparing for publication in the journal Movement System – Advances in Research, Diagnosis and Therapy.

Thank you Hans and good Health!

On behalf of the Committee of the Society for Connective Tissues CMA JEP

Professor Ivo Mařík, M.D., Ph.D.

president

E-mail: ambul_centrum@volny.cz

Prague, November 20, 2021



DR. PIET VAN LOON (Petrus Johannes Maria)

Scientific curriculum vitae

Born May 17, 1954 in Haarlem, The Netherlands

Dr. Piet Van Loon from Deventer is an orthopaedic surgeon fighting for “care to move” in the Netherlands based on aspects of Osteovertebral and Osteoneural growth relations by Milan Roth.

To this day, he is an invited speaker at numerous international symposia.

Since 2017, he has been actively involved in the Annual International Symposium Prague-Lublin-Sydney-St. Petersburg, where he presented interesting and very important two lectures titled *“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”* and *„Thoracolumbar lordotic intervention in spinal deformities. Effective mechanical growth modulation by muscular forces induced by bracing”*.

In 2019, Dr. Piet van Loon contributed in frame of the 20th annual PRAGUE-LUBLIN-SYDNEY-ST. PETERSBURG SYMPOSIUM, held in Kroměříž, to the section

„Spine Disorders I: Pathogenesis, Diagnosis and Treatment: Lectures dedicated to the memory of Milan Roth” with two lectures: *“A short cord can cause scoliosis: Osteoneural growth relations by Milan Roth (1923–2006) – a concise concept in morphogenesis and a useful scientific base for Orthopedics and Neuroscience”* and *„Growth of the human skeleton, a lifestyle dependant, tension based biomechanical and neurodynamic process”*.

Note: Assoc. Professor MUDr. Milan Roth, DSc. was a scientist, radiologist, who in the 60-90s of the 20th century experimentally proved the pathogenesis of skeletal deformities (spine and limbs) on the basis of disorders of macroneurotrophic growth of the spinal cord, its roots and peripheral nerves. During his lifetime, the importance of his work was unfortunately not appreciated behind the Iron Curtain. The results of his work on idiopathic scoliosis have been developed in clinical practice by only a few enlightened colleagues in this country, and abroad by Professor Dudin in St. Petersburg and Dr. Piet van Loon in Holland. His work is now also of interest to the Scoliosis Research Society in the USA.

Dr. Piet van Loon was accepted into Editorial Board of the journal Locomotor System – advances in research, diagnosis and therapy where he published a review of the life work of Assoc. Roth – see Locomotor System journal, 2018, No. 1. (see http://www.pojivo.cz/pu/PU_1_2018.pdf)

Positions

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|--------------------------------------|----------------|---|
| Consultant Orthopedics | 2018 – present | Proktovar/ Care to Move Hengelo |
| Consultant Orthopedics | 2013 – present | Care to Move Orthopedic Clinic Deventer |
| Founder / boardmember | 2016 – present | Houding Netwerk Nederland |
| Consultant Orthopedic surgery | 2011–2013 | Gelre Hospital Apeldoorn |
| Adviser | 2011 | Mediferia Clinic, Amersfoort. |
| Consultant Orthopedic surgery | 2007–2010 | Slingeland Ziekenhuis Doetinchem |
| Consultant Orthopedic/Spinal surgery | 1991–2007 | Rijnstate Hospital Arnhem |

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|-------------------------|-----------|---|
| Training and consultant | 1984–1991 | Radboud University Nijmegen. (Prof. van Renst, Prof. Slooff) |
| Residency Orthopedics | 1984–1985 | Gemeente Ziekenhuis Arnhem |
| Residency Gen.Surgery | 1982–1984 | Mariastichting Haarlem |
| Residency Orthopedics | 1980–1982 | Military Hospital Utrecht |
| Residency Orthopedics | 1979–1980 | Ziekenhuis Zonnestraal Hilversum (Prof. Koekenberg) |
| Medical study | 1971–1979 | Free University Amsterdam |

Between 2008 and 2018 a conflict with the Dutch Inspectorate of Healthcare, started on false allegations on having misconceptions in Medical science and by that performing “experimental surgery”, ended in a letter full of excuses by the Inspectorate on behalf of the Minister of Health.

Relevant functions and memberships

| | |
|-----------|---|
| 1986–1989 | President Vereniging Orthopedisch Chirurgisch assistenten (VOCA) |
| 1993–1998 | Secretary Spine Study Group of the Dutch Orthopedic Society (NOV) |
| 1998–2001 | President Spine Study Group of the Dutch Orthopedic Society (NOV) |
| 2001– | Cofounder and member of the Dutch Spine Society |
| 1995–2008 | Member advisory board Scoliosevereniging (Dutch Scoliosis Association) |
| 1992– | Member European Spinal Deformity Society, now European Spine Society |
| 2004–2009 | International Fellow Scoliosis Research Society |
| 2012– | Member Society on Scoliosis Orthopedic and Rehabilitation Treatment SOSORT and Dutch Medical Societies : KNMG/ FMS, DSS, NOV, NVOT. |

Inventor/ patentkeeper Brace for Spinal Deformities called TLI brace EPO: 04 808 807.4-2310 / 2008

Inventor /patent keeper Sit Active device with posture optimisation, called Zami.

| | |
|------|--|
| 2020 | Honorary membership of the Society for Connective Tissues (SCT), Czech Medical Association J.E. Purkyně (CMA JEP). |
|------|--|

Piet van Loon, MD published about 40 scientific papers in international medical journals.

A few of his outstanding publications were influenced by the lifetime work of Associate Professor Milan Roth DSc.

We introduce two of his most appreciated papers:

VAN LOON P, VAN ERVE R. The Development of TLI (Thoracolumbar Lordotic Intervention) as an Effective Bracing Concept for the Postural Spinal Problems –A Review. J Spine, Vol 4, 2015, No. 3, 7 p. DOI: 10.4172/2165-7939.1000226.

VAN LOON PJ, GROTHENIUS JA. Legacy of Milan Roth: Osteoneural growth relations, the biomechanic and neurodynamic processes of physical body growth in vertebrates with tension as its tool to overcome gravity. Clinical implications of discongruent osteoneural growth. Locomotor System journal vol. 25, 2018, No. 1, p. 25–67.

The Committee of the Society for Connective Tissues of the CMA JEP at the meeting on 21.10.2021 approved the nomination of Dr. Piet van Loon for the Medal of Honour of the CMA JEP at its meeting on 21 October 2021.

This award was presented to him by Prof. Štěpán Svačina, MD, DSc., President of the CMA JEP, on the occasion of the 23rd Prague-Lublin-Sydney-St. Petersburg Symposium (Medical House in Prague, 20.11.2021).

Dr. van Loon shared his experience with the participants of the symposium through two lectures:

„Sitting as the unspoken accelerator of the “OsteoNeural Pandemic. Staggering fresh data and evidence in (Dutch) youth in the light of classic Orthopedics“

and

„Neuroradiologic treasures on MRI in discongruent Osteoneural Growth Relations Consequent findings on MRI in case of malalignment of the skeleton (posture and deformities) and the lack of contemporary research“

Dear Piet, thank you very much for your fruitful cooperation and good Health!

On behalf of the Committee of the Society for Connective Tissues CMA JEP

Professor Ivo Mařík, M.D., Ph.D.

president

E-mail: ambul_centrum@volny.cz

&

Petr Krawczyk, M.D.

President of the Society for Prosthetics and Orthotics CMA J.E. Purkyně

E-mail: krawczyk@proteorcz.cz



Professor Mařík (left) and Dr. Piet van Loon. The 21st Prague-Lublin-Sydney-St. Petersburg Symposium, 3rd–5th September 2019, Humpolec



Systém výživy kloubů dle výzkumu

prof. MUDr. Milana ADAMA, DrSc.

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