



Second International Symposium on Hypertension

Translational Medicine in Hypertension

**November 18-21 2010
Osijek, Croatia**

www.isho2010.mefos.hr

www.hdh.hr



Croatian Society of Hypertension

Organized by

Hungarian Hypertension Society



University of Josip Juraj Strossmayer School of Medicine

University of Zagreb School of Medicine

University of Pécs

Endorsed by

European Society of Hypertension



Chairpersons

Ines Drenjančević Akos Koller Istvan Kiss Bojan Jelaković

Dear Colleagues, Guests and Friends,

It is our privilege and honour to cordially invite you to participate on the Second International Symposium on Hypertension *Translational Medicine in Hypertension*.

This symposium is following the very successful first one that took place in 2006, in Osijek, Croatia with participants from 10 European countries and United States www.congress.mefos.hr.

The main aim of those meetings is to bridge between the scientific research, innovations, new ideas and technologies with clinical everyday medical practice.

Our goal is to integrate research inputs from the basic science, epidemiology and clinical practice to optimize patient care and preventive measures what may improve hypertension control but also attenuate hypertension prevalence.

This meeting is jointly organized by the Croatian Society of Hypertension, Hungarian Hypertension Society, Schools of Medicine University of Josip Juraj Strossmayer and University of Zagreb, and by University of Pecs. It is endorsed by the European Society of Hypertension.

Apart from the State-of-the-Art Lectures, we will give opportunity to young scientists and physicians to present original papers as short oral presentations. Even more, as a Pre-Symposium we will organize Young Investigator Conference.

As at the main ESH meetings, moderated poster session will be very important area for discussions.

Several satellite symposia will be organized by drug industry where some specific treatment approaches will be presented and discussed.

Without any doubt this meeting will serve as a bridge not only between basic science, epidemiology and clinical work, but also between different countries from this part of Europe.

Symposium will take place in Osijek, picturesque historic city situated on the right bank of the Drava River, 25 km upstream from its mouth into the river of Danube. The region of Croatia (Slavonia and Baranja) has been inhabited since Neolithic and Roman times (Mursa). Osijek is known by its unique baroque part of the city called Tvrdja (18th century), and by beautiful Secession style buildings in the centre of the town.

You are warmly welcomed and we are looking forward seeing you in Osijek at this fruitful scientific event but also at cultural and social activities!

Ines Drenjančević

Bojan Jelaković

Istvan Kiss

Akos Koller

Chairperson:

Ines Drenjančević (Croatia), Akos Koller (Hungary), Istvan Kiss (Hungary) Bojan Jelaković (Croatia)

Organizing Committee:

Ines Drenjančević, Saša Božić-Krajlik, Rudika Gmajnić, Bojan Jelaković, Tina Katić, Sandra Karanović, Akos Koller, Jelena Kos, Slavica Kvolik, Mario Laganović, Ivan Pećin, Milan Potkonjak, Vedran Premužić, Romana Samovojska, Miroslav Tišljar, Vedrana Vizjak, Marijana Živko

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Istvan Kiss, Hungary

Mary Pat Kunert, USA

Julian H. Lombard, USA

Judith Nagy, Hungary

Peter Nilsson, Sweden

Shane A. Phillips, USA

Richard J Roman, USA

Aleksandar Včev, Croatia

MAIN TOPICS:

Refresh course: Physiology and pathophysiology of blood pressure regulation

Integration and mechanisms in hypertension

Epidemiology

Blood Pressure and Heart Rate

Preventive medicine and control of hypertension (CRASH, SALT, Live under 140/90)

Treatment modalities in Croatia and Hungary: similarities and differences

Croatian and Hungarian Young Investigator Meeting

IMPORTANT DATES:

Abstract deadline: June 15, 2010.

Abstract confirmation: September 15, 2010

Early bird registration: September 15, 2010

ABSTRACT SUBMISSION:

Electronic submission only. More information at the Symposium web site www.isho2010.mefos.hr

REGISTRATION FEE:

Early bird: 150 Eu; Late: 200 Eu

Residents, PhD students, accompanying persons, exhibitors and sponsors: 50 E; Medical students, fellows, nurses no fee

Bank account: 2360000-1101214818 OIB: 60192951611

Registration fee for participants includes:

Admission to all scientific sessions and exhibition

Meetings bag, final program and abstract book

Certification of attendance

Coffee and refreshment during breaks

Working lunch

Welcome reception and concert

Registration fee for accompanying persons includes:

Welcome reception and concert

VENUE:

Hotel Osijek, Croatia, www.hotelosijek.hr

School of Medicine University of Josip Juraj Strossmayer, Osijek www.mefos.hr

OFFICIAL LANGUAGE:

English

YOUNG INVESTIGATOR AWARD

The three distinguished physicians and basic scientists younger than 35 years who will present results of own research in hypertension.

INFORMATION ON SYMPOSIUM

Secretary of ISHO: Saša Božić-Kraljik, email: sasa.bozic.kraljik@mefos.hr

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Program at Glance

| November 17, Wednesday | November 18, Thursday | November 19, Friday | November 20, Saturday | November 21, Sunday |
|---|---|--|--|---|
| University of Pecs, Pecs, Hungary | University of Josip Juraj Strossmayer, Osijek, Croatia | Hotel Osijek | Hotel Osijek | Hotel Osijek |
| 11:00-18:00 Croatian-Hungarian Young Investigator Meeting | 11:00-17:00 Croatian-Hungarian Young Investigator Meeting | 8:30-10:10 Session 1 Epidemiology | 8:30-10:35 Session 5 Blood pressure measurements Session 6 Prevention and control | 8:30-9:50 Session 10 Secondary Hypertension 9:50-10:30 State of the Art Lecture |
| | | 10:10-10:30 Coffee break | 10:35-11:15 Coffee break | 10:30-11:00 Coffee break |
| | | 10:30-12:10 Session 2 Role of the Sympathetic Nervous System in Hypertension | 11:15-12:10 Session 7 Hypertension and surgery | 11:00-11:45 Session 11 Hypertension and Heart |
| | | 12:10-13:00 Sponsored Symposium | 12:10-13:00 Sponsored Symposium | 11:45-12:45 Sponsored Symposium |
| | | 13:00-14:00 Lunch | 13:00-14:00 Lunch | 12:45 Young Investigator Awards |
| | | 14:00-14:30 State of the Art Lecture | 14:00-16:00 Session 8 Integration and mechanisms 2 | 13:00 Closing remarks |
| | | 14:30-16:10 Session 4 Aging and Gender | | |
| | Croatian National Theatre Osijek | 16:10-17:00 Attended Poster Session | 16:00-16:30 Attended Poster Session | |
| | 18:00-21:30 Opening lectures Opening ceremony | 17:00-18:10 Session 5 Integration and mechanism in hypertension 1 | 16:30-18:00 Session 9 Integration and mechanism in hypertension 1 | |
| | | 18:10-19:10 Sponsored Symposium | 18:00-19:00 Sponsored symposium | |
| | | 20:30 Social Program | 20:30 Gala Dinner | |

Croatian-Hungarian Young Investigator Meeting

Moderators: I. Drenjančević, A. Koller, J. Hamar, P. Légrády B. Jelaković

November 17, Wednesday University of Pecs, Hungary

Venue: 2nd Department of Internal Medicine

11:00-13:00 A.Koller (Hun), I.Drenjančević (Cro). Introduction remarks
A.Koller (Hun) Croatian-Hungarian bilateral project on hypertension
E. Kicsindi (Hun): Potentials for young researchers in FP7
S. Vikić-Topić (Cro): How to prepare and apply for joint projects?

13:00-18:00 Visit to the University of Pecs, and to the city of Pecs, European Cultural Capital 2010
19:00- Dinner & Accommodation in Pecs

November 18, Thursday University of Josip Juraj Strossmayer, School of Medicine, Osijek, Croatia Croatian and Hungarian Young Investigator Meeting

Session 1 Chairs: D. Bajcsi, Z. Vamos, I. Begić, S. Karanović

11.00-11:10 M. Fištrek (Cro) Inflammation and hypertension
11:10-11:20 M. Solymar (Hun) Comparison of antioxidant effects of H₂S and SOD in isolated small veins
11:20-11:30 I. Begić (Cro) Concentration of E-selectin, VCAM-1, ICAM-1 in hypertensive diabetic patients with increased natriuresis
11:30-11:40 Z. Vamos (Hun) Aging dependent changes in angiotensin II-induced contractions of isolated rat carotid arteries
11:40-11:50 Zs. E. Mikolas, (Hun) Effects of erythropoietin on glucose metabolism
11:50-12:00 Z. Mioviski (Cro) Arterial hypertension and peripheral arterial disease
12:00-12:10 D. Bajcsi (Hun) Investigation of parameters of blood vessels with the finometer device in diabetic and non-diabetic hypertensive patients

12:10-12:30 Coffee break

12:30-12:40 P. Majtenyi (Hun) Investigation of the baroreflex sensitivity in different cardiovascular diseases
12:40-12:50 K. Fehertemplomi (Hun) Changes of the baroreflex sensitivity and plasma norepinephrine after neurosurgical decompression of the medulla oblongata on the left side in hypertensive woman
12:50-13:00 S. Karanović (Cro) Heart rate in prehypertension
13:00-13:10 P. Cseplo (Hun) Modelling of vasomotor effects of hemorrhagic stroke in isolated rat cerebral arteries
13:10-13:20 F. Džubur (Cro) Diagnostic algorithms in incidentalomas
13:20-13:30 Discussion

13:30-14:30 Buffet Lunch

Session 1 Chairs: I. Fejes, A. Szijjarto K. Selthofer-Relatić, Ž. Dika
14:30-14:40 Ž. Dika (Cro) Epidemiology of hypertension
14:50-15:00 I. A. Szijjarto, (Hun) Does oxidative stress affect the vasoactive effect of insulin?
15:00-15:10 D. Buljubašić (Cro) Urinary protein/creatinine ratio in controlled and uncontrolled hypertension
15:10-15:20 I. Fejes (Hun) Retrospective analysis of two year data of resistant-hypertensive patients with and without neurosurgical microvascular decompression
15:20-15:30 K. Selthofer-Relatić (Cro) Correlation between leptin and adiponectin in hypertensive overweight patients
15:30-15:40 V. Vizjak (Cro) Leptin in lean hypertensives
15:40-15:50 O. Cseprekál, (Hun) The method of distance measurement and torso length influences the relationship of pulse wave velocity to cardiovascular mortality
15:50-16:00 V. Premužić (Cro) Central blood pressure and pulse wave velocity
16:00-16:10 T. Horváth (Hun) Lack of relation between endothelial function and carotid artery stiffness in young, healthy male subjects
16:10-16:20 A. Čavka (Cro) The effects of high salt diet on tissue perfusion in young female
16:20-16:30 R. Samovojska (Cro) Importance of salt reduction
16:30-16:40 M. Živko (Cro) How to organize an outpatient hypertensive clinic
16:40-16:50 T. Katić (Cro) How to improve patients awareness
16:50-17:00 Discussion and closing remarks

Second International Symposium on Hypertension

Translational Medicine in Hypertension

November 18, Thursday **Croatian National Theatre, Osijek**

18:00 Welcome drink

18:30 Opening lectures:

Chairs: *I. Drenjančević, A. Koller, I. Kiss, B. Jelaković*

K.Narkiewicz (Poland): The role of sympathetic nervous system in Physiology and Pathophysiology of Blood Pressure Regulation (*Refresh course credits*)

G.Parati (Italy): High Care - Translational medicine at high altitude

20:00 Opening Ceremony and Welcome Reception

November 19, Friday

Hotel Osijek, Osijek, Croatia

Session 1 Epidemiology Chairs: I.Kiss, V.Žerjavić-Hrabak, J.Brguljan-Hitij

- 8:30 -8:50 I. Kiss (Hun) Pharmacological treatment of hypertension
– Guideline and practice in Hungary 2005-2010
- 8:50- 9:10 C. Farsang (Hun) Diagnosis and control rates of hypertension in Europe
- 9:10-9:30 V. Žerjavić-Hrabak (Cro) Epidemiology of cardiovascular diseases and hypertension
in Croatia
- 9:30-9:50 J. Brguljan-Hitij, B.Jelaković (Slo, Cro) Prehypertension in Slovenia and Croatia
- 9:50-10:10 J. Nagy (Hun) Cerebrovascular diseases in chronic kidney disease with
and without hypertension

10:10-10:30 Coffee break

Session 2 Role of the Sympathetic Nervous System in Hypertension Chairs S.Julius, A.Šmalcelj, G.Parati

- 10:30-10:50 H. Rupp (Germany) Sympathetic overactivity – pathophysiological link between
hypertension, diabetes, coronary heart disease, stroke,
and kidney disease (*Refresh course credits*)
- 10:50-11:30 S. Julius (USA) Heart rate as neglected cardiovascular risk factor (*Refresh
course credits*)
- 11:30-11:50 G. Parati (Italy) Blood pressure and heart rate variability as biomarkers of
sympathetic derangements (*Refresh course credits*)
- 11:50-12:10 A. Šmalcelj (Cro) How to block sympathetic overdrive in clinical practice ?
(*Refresh course credits*)

12:10-13:00 Sponsored symposium Solvay Pharmaceuticals

13:00-14:00 Lunch

14:00-14:30 State of the Art Lecture: Chair: I. Drenjančević
N.Čikeš (Cro) Translation medicine –new era in medicine

Session 3 Aging and gender Chairs: P.Nilsson, Lj.Banfić, M.Laganović

- 14:30-15:00 P. Nilsson (Sweden) Biology of telomeres and early vascular aging
(*Refresh course credits*)
- 15:00-15:30 M. P. Kunert (USA) Estrogens, high salt diet and vascular reactivity
- 15:30-15:50 G. Masszi (Hun) Hypertension in women (*Refresh course credits*)
- 15:50-16:10 M. Laganović (Cro) Low birth weight and risk for hypertension and renal
damage

16:10-17:00 Attended Poster Session (with some cheese, wine and fruits)

Chairs:I.Drenjančević, S.Komoly

Session 4 Integration and mechanisms in hypertension –I. Chairs: J.Lombardt, A.Koller, D.Pavlović

- 17:00-17:30 J. H. Lombard (USA) Dietary Salt Intake, Endothelial Function, and Vascular
Oxidant Stress: Parallel Lessons from Humans and
Animals. (*Refresh course credits*)
- 17:30-17:50 D. Verbanac (Croatia) Mediterranean Diet – is it only myth? Could we make it alive?
- 17:50-18:10 D. Pavlović (Croatia) Vitamin D and Hypertension

18:10-19:00 Sponsored symposium Sanofi Aventis

20:30 Social program

Session 5 Blood pressure measurements Chairs: K.Farkas, D.Počanić, I.Kiss

- 8:30-8:50 P.Dolenc (Slo) Home and ambulatory blood pressure measurements
(Refresh course credits)
- 8:50-9:10 M. Illyés (Hun) How to assess arterial stiffness and to obtain clinically relevant data?
- 9:10-9:20 V. Premužić (Cro) Pulse wave velocity in endemic nephropathy
- 9:20-9:30 K. Farkas (Hun) Ankle-brachial index

Session 6 Prevention and control Chairs: R.Gmajnik, R.de Chatel, D.Miličić (Refresh course credits)

- 9:40-9:50 I. Pećin (Cro) CRASH – Croatian Action on Salt and Health
- 9:50-10:10 R. de Chatel (Hun) National program for SALT
- 10:10-10:25 D. Miličić (Cro) Acute coronary syndrome program in Croatia
- 10:25-10:35 D. Buljubašić (Cro) Impact of emotional intelligence on the regulation of hypertension

10:35-11:15 Coffee break**Session 7 Hypertension and surgery** Chair: K.Šakić, S.Komoly, P.Kunert

- 11:15-11:35 Z. Janković (UK) Blood pressure regulation and control pre, during and after surgery
- 11:40-11:50 S. Kvolik: (Cro) Blood pressure patterns, hypertension and perioperative blood pressure management
- 11:50-12:10 S.Komoly (Hun) Acute hypertensive encephalopathy versus compensatory increase of blood pressure in acute stroke

12:10-13:00 Sponsored symposium Abbott Laboratories**13:00-14:00 Lunch****Session 8 Integration and mechanisms in hypertension –II.** Chairs T.Bačun, J. Hamar, S.Phillips

- 14:00-14:30 S.A. Phillips (USA) Microcirculation, blood pressure and physical exercise
(Refresh course credits)
- 14:30-14:50 I. Drenjančević (Cro) Oxygen as a physiological stimulus
- 14:50-15:15 R. Richard (USA) Positional cloning and identification of genes underlying the lack of myogenic response in FHH rats-impact on renal end-damage and cerebral blood flow regulation
- 15:15-15:30 A. Koller (Hun) Dynamic behaviour of AT₁-receptors: role of oxidative stress
- 15:30-15:45 D.Počanić (Cro) How to assess and how to block RAAS in clinical practice ?
(Refresh course credits)
- 15:45-16:00 Ž. Dujčić (Cro) Cardiopulmonary effects of breath hold diving

16:00-16:30 Attended Poster Session with some cheese, wine and fruits)

Chairs: M.Laganović, J.Nagy

Session 9 Integration and mechanisms in hypertension-III. Chairs :Ž.Reiner, I.Wittmann, V.Stojanov

- 16:30- 16:50 I. Wittmann (Hun) Subclinical organ damage, endogenous ouabain and oxidative stress in hypertensive patients
- 16.50-17:05 D.Lović (Ser) Oubain, salt and hypertension
- 17:05-17:20 M. Boban (Cro) Acute oxidative stress, vascular function and uric acid
- 17:20-17:45 Ž. Reiner (Cro) Combination antilipid therapy - today and tomorrow
(Refresh course credits)
- 17:45-18:00 M.Klobučić (Cro) Pleiotrophic effects of statins

18:00-19:00 Sponsored symposium GlaxoSmithKline

November 21, Sunday

Hotel Osijek, Osijek, Croatia

Session 10 Secondary Hypertension Chairs: D. Kuzmanić, J. Nagy, R. Richard

- 8:30-8:50 J. Nagy (Hun) The role of kidney in Physiology and Pathophysiology of Blood Pressure (*Refresh course credits*)
8:50-9:20 R. Accetto (Slo) Renovascular hypertension (*Refresh course credits*)
9:20-9:50 D. Kuzmanić (Cro) Primary aldosteronism (*Refresh course credits*)

9:50-10:30 **State of the Art Lecture:** Chair: B Jelaković

I.Štagljar (Canada) Protein Networks Regulating Cell Signalling in human health and disease

10:30-11:00 Coffee break

Session 11 Hypertension and Heart Chairs: R.Steiner, R.Acceto, S.Mirat

- 11:00-11:15 M. Čikeš (Cro) Cardiac remodelling and tissue Doppler
11:15-11:30 M. Kašner (Germany) Diastolic dysfunction
11:30-11:45 R. Steiner (Cro) Treatment of hypertensive heart disease (*Refresh course credits*)

11:45-12:45 Sponsored symposium Servier

12:45 Young Investigator Awards

13:00 Closing remarks