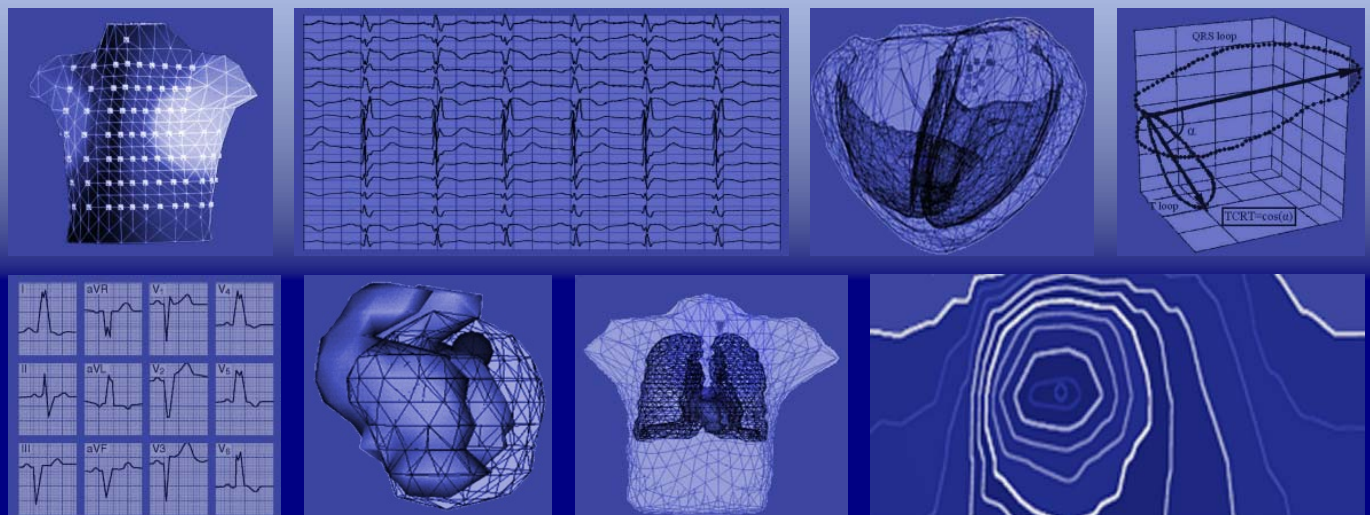
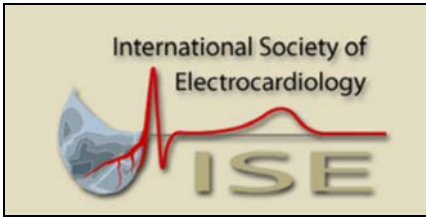


41st International Congress on Electrocardiology
June 4 -7, 2014, Bratislava, Slovakia

ELECTROCARDIOLOGY 2014

Program





International Society of Electrocardiology

Slovak Heart Rhythm Association

Slovak Society of Cardiology

Institute of Measurement Science, Slovak Academy of Sciences



PROGRAM

of the 41st International Congress on Electrocardiology

**June 4 – 7, 2014
Bratislava, Slovakia**

**The Congress is organized under the auspices
of the International Society of Electrocardiology**

President:	C. Pastore (Brazil)
Past President:	M. Hiraoka (Japan)
President-Elect:	W. Zareba (USA)
Secretary:	L. Bacharova (Slovakia)
Treasurer:	P. W. Macfarlane (UK)
Council members:	A. Baranchuk (Canada) L. De Ambroggi (Italy) P. Dorostkar (USA) B. Gorenek (Turkey) T. Ikeda (Japan) G. Kozmann (Hungary) J. Liebman (USA) R. MacLeod (USA) P. Platonov (Sweden) M. Potse (The Netherlands) A. Ribeiro (Brazil) M. Roshchevsky (Russia) M. Sobieszczanska (Poland) M. Tysler (Slovakia) A. van Oosterom (The Netherlands) G. S. Wagner, ex officio (USA)
Founding Members:	I. Ruttkay-Nedecky (Slovakia) E. Schubert (Germany)
Honorary Members:	H. Abel (Germany) R. Selvester (USA)
Executive Committee:	C. Pastore, M. Hiraoka, W. Zareba, P.W. Macfarlane, L. De Ambroggi, J. Liebman
Membership Board:	M. Hiraoka, R. MacLeod, M. Sobieszczanska

Organising Committees

Congress President:	M. Tysler
Scientific Secretary:	L. Bacharova
Program Committee:	K. Kozlikova, V. Szathmary, R. Hatala, S. Filipova I. Simkova, N. Tribulova, T. Ravingerova, L. Gaspar
Local Organising Committee:	J. Svehlikova, E. Bukovenova, P. Kalavsky

GENERAL INFORMATION

Registration and Information Desk

Registration desk is located in the lobby on the ground floor, near entrance to the Austria Trend hotel Bratislava. The desk will be open during following hours:

June 4: 13:30 – 19:00

June 6: 8:00 – 15:00

June 5: 8:00 – 18:00

June 7: 8:00 – 13:00

Look for actual information on displays and boards in the lobby and at the entrances to the lecture rooms.

Conference Rooms

- Oral presentations will take place in lecture rooms on the first floor: Room A (merged rooms Morava and Dunaj) and Room B (room Hron).
- Posters will be mounted in the gallery and in room Váh on the first floor.

Meals and Refreshments

- Refreshments during coffee breaks will be served in the gallery on the first floor; lunches will be served in the hotel restaurant on the first floor, behind the gallery.
 - Coffee breaks 10:00-10:15 or 10:15-10:30 or 15:45-16:00 (see program outline)
 - Lunch times: 12:00 – 13:00
- The food during the Welcome reception on Wednesday, June 4, 2014 at 19:00 will be served in the mezzanine of the Primatial Palace (address: Bratislava, Primaciálne námestie 1)
- The raut after the concert on Thursday, June 5, 2014 at 18:00 will take place in the foyers of the Moyzes Hall (address: Bratislava, Vajanského nábrežie 12).
- The banquet on Friday, June 6, 2014 will take place at 18:00 in hotel Hradná Brána (address: Bratislava - Devín, Slovanské nábrežie).

Transport during the Congress

- **on June 4, 2014** - guided walk (10-15 min.) will be offered
 - at 18:15 from the Austria Trend hotel (for the Welcome reception)
 - at 21:30 from the Primatial Palace (back to the hotels)
- **on June 5, 2014** - conference bus will take you (optional 20 min. walk is possible):
 - at 17:30 from the Austria Trend hotel (for the Concert)
 - at 20:30 from the Moyzes Hall (back to the hotels)
- **on June 6, 2014** - conference buses will take you:
 - at 14:45 from the Austria Trend hotel (for the Boat Trip)
 - at 21:30 from Devín, hotel Hradná brána (back to the hotels)

Contact of the Congress Secretariat during the Congress

ICE 2014 Congress Secretariat

Austria Trend hotel, Vysoká 2A, 81106 Bratislava

Phone: +421 (2) 52 775 800

Fax: +421 (2) 52 775 899

Mobile: +421 908 267 442 (Ms. Eva Bukovenova - registration)

+421 948 727 650 (Mr. Matej Gába – accompanying persons program)

+421 903 432 255 (Dr. Jana Svehlikova – other help)

INFORMATION FOR PRESENTERS

Oral Presentations

- Oral presentations will take place in two lecture rooms on the first floor:
 - Room A – merged rooms Dunaj and Morava
 - Room B – room Váh
- All oral presentations have to be in English, there will be no translation.
- For each oral contribution 10 minutes for presentation and 5 minutes for discussion will be allowed. For invited papers 30 minutes including the discussion will be allocated. Chairmen will be asked to strictly follow the time schedule.
- Oral contributions should be prepared as Microsoft PowerPoint presentations.
- Presenting author should bring their presentation on CD/DVD, USB flash drive or USB disk drive at least 15 minutes before the session start to the technical staff in the appropriate lecture room.
- The use of own computer for presentation will be allowed only if unavoidable and should be negotiated and tested with the technical personnel in advance.

Poster Presentations

- Posters can be 84 cm wide and 120 cm high as a maximum. Posters on single sheet of paper are preferred. Pins for fastening the posters will be provided.
- Posters should be in English.
- Posters will be presented on the first floor
 - in the foyer in front of the conference rooms (Poster Session I)
 - in the lecture room Hron (Poster Session II)
- For each poster exact position will be allocated according the number of the poster in the congress program.
- The posters should be mounted starting from Wednesday, June 4, 2014, 13:30 until Thursday, June 5, 2014, 8:30.
- Time for discussion with authors at the posters is allocated within the conference program on Thursday, June 5 from 16:00 – 17:00. The presenters are asked to be present at their posters during this time.
- The authors can remove their posters on Friday, June 6, after 14:00 or they will be removed by the congress organisers after 15:00 on the same day.

Young Investigator Award Competition

Authors not older than 35 years by December 31, 2014 could submit their abstracts and full papers for the Young Investigator Award competition. These papers will be presented during the two YIA plenary sessions on Friday morning. International jury will consider the submitted papers. Relevance to ICE 2014 congress, scientific quality, quality of writing and quality of presentation of each paper will be considered. Based on jury scores, three best presentations will be selected. Winners of the competition will be announced before the closing ceremony on Saturday, June 7, 2014. Winners of the competition will be awarded a prize offered by the congress organisers and sponsors.

Program of the 41st International Congress on Electrocardiology

June 4-7, 2014, Bratislava, Slovakia

Wednesday 4.6.2014 15:00 Pre-congress workshop on QRST morphology

Chairmen: **L. Bachárová (Slovakia)** **ROOM B: Váh**
W. Zareba (USA)

- 15:00 *W. Zareba*
QRS morphology and optimal CRT response / QRS pattern and arrhythmias
- 15:20 *Y. Birnbaum*
The spectrum of QRS patterns in myocardial infarction
- 15:40 *M. Potse*
Lessons learned from computer modeling
- 16:00 *L. Bachárová*
Classical concepts of electrocardiographic diagnoses extended
- 16:20 *V. Szathmary, A. Mateasik, J. Svehlikova*
Heart activation (animations)
- 18:15 *Departure for the Welcome reception*

Thursday 5.6.2014 9:00 Opening ceremony and Rijlant paper

Chairmen: **A.C. Pastore (Brazil)** **ROOM A: Dunaj + Morava**
M. Tyšler (Slovakia)
L. Bachárová (Slovakia)

- 9:00 *Opening ceremony*
- 9:30 *L. De Ambroggi (INVITED PAPER)*
The role of electrocardiography today
- 10:00 *Coffee break*

Thursday 5.6.2014 10:15 Session: ECG in hypertension, ischemia and MI

Chairmen: **Y. Birnbaum (USA)** **ROOM A: Dunaj + Morava**
S. Filipová (Slovakia)

- 10:15 *C. Stengaard, Ch.J. Terkelsen*
Global ischemia ECG pattern for diagnosis of left main occlusion: diagnostic properties and associated mortality in patients with suspected acute myocardial infarction
- 10:30 *J.T. Sorensen, C. Stengaard, Ch.A. Sorensen, K. Thygesen, H.E. Botker, L. Thuesen, Ch.J. Terkelsen*
Suboptimal diagnosis and interventional treatment of patients with bundle branch block and acute myocardial infarction
- 10:45 *M.S. Marcolino, B.C.A. Marino, M.B.M. Alkmim, A.L. Ribeiro*
Electrocardiographic abnormalities in patients with hypertension: a study in a large primary care database
- 11:00 *C. Green, W. Kuijt, D. Hegland, B. Atwater, M. Krucoff*
Defining QT/QTc prolongation during ST-elevation myocardial infarction and reperfusion
- 12:00 *Lunch*

Thursday 5.6.2014 10:15 Session: Advanced methods for ECG evaluation

Chairmen: R. MacLeod (USA)

ROOM B: Váh

V. Szathmáry (Slovakia)

10:15 *J. Coll-Font, B. Erem, C. Rees, A. Karma, Rob S. MacLeod, D.H. Brooks*
Discordant and concordant decomposition model for repolarisation alternans in the ECG

10:30 *J. Halamek, P. Jurak, P. Leinveber, P. Vesely*
Excitation specificity of repolarization parameters

10:45 *V.D. Moga, I. Kurcalte, M. Moga, F. Vidu, C. Rezus, I. Cotet, R. Avram*
Chaos theory and non-linear dynamics in hypertensive cardiopathy and heart failure

11:00 *O. Janoušek, M. Ronzhina, J. Kolářová, I. Provazník, M. Nováková, T. Stračina, V. Olejníčková*
Fractal dimension of in-vivo and ex-vivo rabbit HRV series

12:00 *Lunch*

Thursday 5.6.2014 13:00 Interatrial block as anatomical-electrical substrate for atrial arrhythmias

A recognition to Prof. Dr. Antoni Bayès de Luna

Chairmen: A. Baranchuk (Canada)

ROOM A: Dunaj + Morava

L. Bachárová (Slovakia)

13:00 *A. Bayes de Luna*
A long Journey to IAB discovery

13:15 *A. Baranchuk*
IAB: The American & Canadian experience

13:30 *P.G. Platonov*
Physiology and physiopathology of the P-wave

13:45 *L. Bacharova*
IAB: Closing remarks

Thursday 5.6.2014 14:00 Session: Arrhythmias and CRT

Chairmen: B. Gorenek (Turkey)

ROOM A: Dunaj + Morava

R. Hatala (Slovakia)

14:00 *W. Zareba (INVITED PAPER)*
Significance of ventricular arrhythmia and heart rate variability in patients with CRT

14:30 *B. Gorenek (Introductory paper)*
Electrocardiographic risk factors for sudden cardiac death

14:45 *P. Dorostkar, S. Sivanandam, L. Kochilas*
Postoperative arrhythmias and conduction abnormalities in patients with heterotaxy

15:00 *R. Hatala*
Left bundle branch block – renaissance of an old biomarker

15:15 *E. B. Engels, E. M. Vegh, C.J.M. van Deursen, J. P. Singh, F. W. Prinzen*
T-wave area as an additional predictor of response to cardiac resynchronization therapy

15:30 *D. Wichterle, K. Sedláček, V. Vančura, H. Jansová, J. Kautzner*
Difference between native and right-ventricular-paced QRS duration predicts QRS shortening by cardiac resynchronization therapy: a novel marker of true complete left bundle branch block

The 41st International Congress on Electrocardiology, June 4-7, 2014, Bratislava, Slovakia

15:45 *V.D.A. Corino, S.R. Ulimoen, S. Enger, A. Tveit, P.G. Platonov*

Rate-control drugs affect variability and irregularity measures of RR intervals in permanent atrial fibrillation

16:00 *Coffee break*

Thursday 5.6.2014 14:30 Session: ECG methods and technologies

**Chairmen: Ch.J. Terkelsen (Denmark)
J. Švehlíková (Slovakia)**

ROOM B: Váh

14:30 *P.W. Macfarlane*

Selected aspects of racial differences in the ECG

14:45 *K. Piotrowicz, M. Vaglio, J.P. Couderc, J.Xio, W. Zareba*

Gender differences in novel repolarization parameters

15:00 *I.Mozos*

Lead selection for maximal QT interval duration measurement in patients with heart failure and stroke

15:15 *M.A. Vaykshnorayte, K.A. Sedova, O.G. Bernikova, A.O. Ovechkin, J.E. Azarov*

Body surface T-wave amplitude dispersion in diabetic rabbits and epicardial repolarization pattern

15:30 *A.M.B. Rasmussen, B.Ch.J. Terkelsen*

Diagnostic performance and system delay using telemedicine for pre-hospital diagnosis in triaging and treatment of STEMI

15:45 *Coffee break*

Thursday 5.6.2014 16:00 Poster presentations

ROOM C: Foyer + Hron

16:00 – 17:00 *Presentation of posters P01 – P43*

17:30 *Bus departure for the Concert*

Friday 6.6.2014 8:30 YIA Session I : New ECG methods and animal experiments

Chairmen: **A.L. Ribeiro (Brazil)** **ROOM A: Dunaj + Morava**
P. Macfarlane (Scotland)

- 8:30 *T.G. Oesterlein, G. Lenis, A. Luik, B. Verma, C. Schmitt, O. Dössel*
Removing ventricular far field artifacts in intracardiac electrograms during stable atrial flutter using the periodic component analysis – proof of concept study
- 8:45 *N. Zemzemi*
An iterative method for solving the inverse problem in electrocardiography in normal and fibrillation conditions: A simulation Study
- 9:00 *L. Mirmohamadsadeghi, J.-M. Vesin*
Respiratory rate simultaneous estimation from two ECG-derived respiratory waveforms simultaneously using an adaptive frequency tracking algorithm
- 9:15 *M. Vozda, T. Peterek, M. Cerny*
Novel method for deriving vectorcardiographic leads based on artificial neural network
- 9:30 *A. Petrėnas, V. Marozas, L. Sörnmo, G. Jaruševičius, D. Gogolinskaitė*
Modified Lewis ECG lead system for ambulatory monitoring of atrial arrhythmias
- 9:45 *A. Rasputina, I. Roshchevskaya*
Body surface potential mapping during heart hypertrophy development in infant rats
- 10:00 *P. Veselý, J. Halámek, M. Ronzhina, O. Janoušek, J. Kolářová, M. Nováková*
Effect of the repeated global ischemia and reperfusion on the RR and QT interval in isolated rabbit heart
- 10:15 *Coffee break*

Friday 6.6.2014 10:30 YIA Session II: ECG markers for cardiac diseases

Chairmen: **P. Dorostkar (USA)** **ROOM A: Dunaj + Morava**
I. Šimková (Slovakia)

- 10:30 *D. Cortez, E. Ruckdeschel, A.C. McCanta, K. Collins, W. Sauer, J. Kay, D. Nguyen*
Vectorcardiographic predictors of ventricular arrhythmia inducibility in patients with tetralogy of Fallot
- 10:45 *A. Enriquez, J. Caldwell, F. Sadiq Ali, D. Conde, W. Hopman, D.P. Redfearn, K. Michael, H. Abdollah, Ch. Simpson, A. Bayés de Luna, A. Baranchuk*
Advanced interatrial block predicts atrial fibrillation post cavotricuspid isthmus ablation for typical atrial flutter
- 11:00 *A. Enriquez, D. Conde, F. Femenia, A. Bayés de Luna, A. Ribeiro, C. Muratore, M. Valentino, E. Retyk, N. Galizio, W.M. Hopman, A. Baranchuk*
Interatrial block is associated with new-onset atrial fibrillation in patients with Chagas cardiomyopathy and implantable cardioverter-defibrillators
- 11:15 *I. Cotet, I. Kurcalte, C. Rezus, V.D. Moga, R. Avram, A. Szekely, M. Moga, F. Vidu*
Dynamics of heart rate and blood pressure in hypertensive patients
- 12:00 *Lunch*

Friday 6.6.2014 13:00 Session: ECG in diagnostics of cardiac diseases

Chairmen: A.C. Pastore (Brazil)
V. Illiková (Slovakia)

ROOM A: Dunaj + Morava

13:00 *J.F. Rodriguez (INVITED PAPER)*

Computer simulation of the electric activity of the heart. A multi-scale approach

13:30 *C.A. Pastore, N. Samesima, E. Kaiser, H.G. Pereira Filho*

Brugada or early repolarization in V1 V2 V3. Can VCG aspects differentiate the localization of ECG manifestations?

13:45 *Ch.W. Shepard, H. Roukoz, P. Dorostkar*

CT angiography elucidates venous anatomy supporting electrophysiologic substrate ablation in patients with congenital heart disease

14:00 *V. Illikova, P. Hlivak, E. Balazova, R. Hatala*

ECG patterns and genotypes in pediatric patients with channelopathies – 7-year experience in Slovakia

14:15 *A. Baranchuk*

Brugada phenocopy: Update 2014

14:45 *Bus departure for the Boat trip and Banquet*

Friday 6.6.2014 13:30 Session: Cardiac electrophysiology

Chairmen: M. Roshchevsky (Russia)
I. Mozos (Romania)

ROOM B: Váh

13:30 *K. Sedova, O. Bernikova, S. Kharin, D. Shmakov*

Effects of echinochrome on ventricular repolarization in acute ischemia

13:45 *T. Ravingerová, S. Čarnická, V. Ledvényiová, M. Nemčeková, T. Rajtík, E. Barlaka, I. Gablovský, A. Adameová, A. Lazou*

Antiarrhythmic potential of hypolipidemic drugs in acute ischemia/reperfusion: Molecular mechanisms of pleotropic lipid-independent effects

14:00 *N. Tribulova, B. Bacova, T. Benova, C. Viczenczova, J. Radosinska, V. Knezl, J. Slezak*

Can we prevent malignant arrhythmias by targeting of cardiac connexin-43?

14:15 *T. Benova, J. Radosinska, C. Viczenczova, B. Bacova, J. Zurmanova, V. Knezl, M. Zeman, B. Obsitnik, N. Tribulova*

The influence of omega-3 fatty acids on permanent light-induced myocardial alterations and decrease of ventricular fibrillation threshold in hypertensive rats

14:45 *Bus departure for the Boat trip and Banquet*

Saturday 7.6.2014 8:30 Session: Modeling in electrocardiology

Chairmen: A. van Oosterom (The Netherlands)
G. Kozmann (Hungary)

ROOM A: Dunaj + Morava

- 8:30 M. Potse (*INVITED PAPER*)
Computer modeling to understand the failing heart
- 9:00 G. Kozmann, G. Tuboly, V. Szathmáry, J. Švehlíková, M. Tyšler
The impact of action potential and conduction velocity distribution changes on markers of repolarization dispersion
- 9:15 A. van Oosterom
Constraints in the inverse problem of electrocardiography
- 9:30 J. Coll-Font, B. Erem, P. Stovicek, D.H. Brooks
Inverse localization of pacing sites on heart surface from 12 lead measurements and CT imaging of partial torso
- 9:45 M. Tysler, J. Svehlikova, O. Punshchykova, P. Kneppo, V. Maksymenko
Noninvasive localization of ectopic activation using BSPM and CT-based torso model
- 10:00 Coffee break

Saturday 7.6.2014 9:00 Session: Heart rate variability

Chairmen: P. Platonov (Sweden)
E. Kellerová (Slovakia)

ROOM B: Váh

- 9:00 K. Hashimoto, Y. Kasamaki, Y. Okumura, T. Nakai, S. Kunimoto, I. Watanabe, A. Hirayama, Y. Ozawa, M. Soma
Circadian variation of Holter-based T-wave alternans and association with autonomic nerve system in normal heart subjects
- 9:15 V. Jacquemet, B. Dubé, A. Vinet, M. Sturmer, G. Becker, T. Kus, R. Nadeau
Extrapolation of the QT/RR relation: individualized vs universal formulae
- 9:30 A. Stanczyk
Does vagus nerve make mistake? Vasovagal reaction in young healthy persons - benign or severe
- 9:45 E. Kellerová, V. Szathmáry, G. Kozmann
Dynamic beat-to-beat changes of the cardiac electric field in response to situations with increased sympathetic activity
- 10:00 Coffee break

Saturday 7.6.2014 10:15 Session: Body surface potential mapping

Chairmen: L. de Ambroggi (Italy)
K. Kozlíková Slovakia)

ROOM A: Dunaj + Morava

- 10:15 O. Suslonova, I. Roshchevskaya
Body surface potential mapping in rats with experimental pulmonary hypertension
- 10:30 K. Kozlíková, M. Trnka, M. Šrajerová
The time course of the extrema of isopotential P wave maps in young adult men and women
- 10:45 J. Svehlikova, M. Kania, R. Maniewski, M. Tysler
Impact of heart rate on normal STT integral body surface potential maps

Saturday 7.6.2014 10:15 Session: Atrial fibrillation

Chairmen: M. Sobieszczanska (Poland)
L. Gašpar (Slovakia)

ROOM B: Váh

10:15 *M.A.Baturova, S.H.Sheldon, J.Carlson, P.A.Brady, G.Lin, A.A.Rabinstein, P.A.Friedman, P.G.Platonov*

Analysis of electrocardiographic predictors of atrial fibrillation in patients with ischemic stroke without known history of atrial fibrillation

10:30 *I. Kurcalte, O. Kalejs, R. Erts, I. Konrade, A. Lejniaks*

Circadian heart rate variability in permanent atrial fibrillation patients

Saturday 7.6.2014 11:00 ISE General Assembly

Chairmen: A.C. Pastore (Brazil)
L. Bachárová (Slovakia)

ROOM A: Dunaj + Morava

Saturday 7.6.2014 11:30 Announcement of the YIA winners

Chairmen: P. Dorostkar (USA)
M. Tyšler (Slovakia)

ROOM A: Dunaj + Morava

Saturday 7.6.2014 11:45 Closing ceremony

Chairmen: C. Pastore (Brazil)
M. Tyšler (Slovakia)
L. Bachárová (Slovakia)

ROOM A: Dunaj + Morava

Posters: 5.–6.6.2014 Guided on Thursday 5.6.2014 at 16:00
Session: Experimental and clinical electrocardiology

ROOM C: Foyer

- P01 *N. Tribulova, V. Nagibin, T. Benova, C. Viczenczova, J. Radosinska, V. Knezl, I. Dovinova, M. Barancik*
Alterations in cardiac cell-to-cell coupling can facilitate AF in old guinea pig
- P02 *B. Bacova, C. Viczenczova, T. Benova, J. Radosinska, J. Zurmanova, S. Pavelka, T. Soukup, N. Tribulova*
Hyper- and hypothyroidism affect myocardial connexin-43 expression and susceptibility of the rat heart to malignant arrhythmias
- P03 *C. Viczenczova, B. Bacova, J. Radosinska, T. Benova, C. Yin, R. Kukreja, J. Slezak, N. Tribulova*
The effect of single-dose chest irradiation on the expression of connexin-43 and PKC signaling pathway in the heart of rats
- P04 *V. Ledvényiová, D. Pancza, S. Čarnická, M. Nemčková, I. Bernátová, T. Ravingerová*
Borderline and spontaneously hypertensive male and female rats exhibit different tolerance to ischemia/ reperfusion
- P05 *M. Ronzhina, V. Olejnickova, T. Stracina, O. Janousek, P. Vesely, J. Kolarova, M. Novakova, I. Provaznik*
Evaluation of repeated global ischemia in isolated rabbit heart
- P06 *E. Blinova, T. Sakhnova, O. Arkhipova, N. Danilov, T. Martynyuk, I. Chazova, V. Trunov, E. Aidu*
Electrocardiographic predictors of response to vasoreactivity testing in patients with pulmonary arterial hypertension
- P07 *M. Boháčková, T. Valkovičová, L. Bachárová, M. Kaldarárová, I. Šimková*
QRS complex changes after pulmonary endarterectomy in patients with chronic thromboembolic pulmonary hypertension
- P08 *J. S. Janicki, A. Teresińska, W. Leoński, M. Chapiński, M. Sobieszczkańska, R. Piotrowicz*
Application of SFHAM model for diagnostics of ischemic heart disease
- P09 *G.V.Ryabykina, A.V. Sozykin, E.N. Dyuzheva*
Comparative assessment of ECG dynamics in myocardial infarction according to reperfusion therapy (primary or facilitated coronary angioplasty) and timing of the procedure
- P10 *E.N. Dyuzheva, G.V. Ryabikina, A.V. Sobolev, A.E. Vlasova*
Myocardial ischemia in genesis of microvolt T-wave alternans
- P11 *X. Zhu, Y. Yoshida, D. WEI, K. Fukuda and H. Shimokawa*
Does synthesized lead V9 reflect left atrial activity during atrial fibrillation ?
- P12 *T. Princi, K. Cankar, V. Starc, V. Grill*
Acute effect of caffeine on heart rate variability in young healthy subjects
- P13 *M.S. Marcolino, B.C.A. Marino, A.M. Ribeiro, T.G.P. Assis, M.B.M. Alkmim, , A.L. Ribeiro*
Electrocardiographic abnormalities in the elderly: a study in a large in primary care database
- P14 *L. Bacharova, E. Triantafyllou, Ch. Vazaios, R. Tisko, I. Paranicova, R. Tkacova*
QRS complex patterns in patients with obstructive sleep apnea
- P15 *T. Valkovičová, M. Kaldarárová, M. Boháčková, L. Bachárová, I. Šimková*
QRS complex characteristics in patients with Eisenmenger syndrome with pre- and post-tricuspid defects

P16 *L. Gaspar, I. Gasparova, M. Makovnik, P. Gavornik, A. Dukat*

Holter ECG findings in patients with medial arterial calcinosis

P17 *S. Kharin, M. Strelkova, V. Krandycheva, A. Tsvetkova, K. Shumikhin, D. Shmakov*

Repolarization in chronic kidney disease: experimental study

Posters: 5.–6.6.2014 Guided on Thursday 5.6.2014 at 16:00

Session: New methods and technologies in electrocardiology

ROOM C: Hron

P21 *M. Potse*

The lead fields of the standard 12-lead ECG

P22 *A. Luca, J-M. Vesin, A. Vlad*

Assesment of AF capture during antitachycardia pacing by using largest Lyapunov exponent. Insights from a biophysical model

P23 *V. Trunov, E. Aidu, V. Fedorova, E. Blinova, T. Sakhnova*

Derivation of Mcfee-Parungao orthogonal leads from standard electrocardiogram

P24 *M. Kania, R. Zaczek, M. Kobylecka, R. Maniewski*

Prognostic value of the QRS-T angle measured during exercise test

P25 *C. Fré da Costa, N. Samesima, C. A. Pastore*

Comparison of Dubois and base-apex lead methods to calculate QRS angle (mean electrical axis) in thoroughbreds

P26 *A. Drkošová, J. Kozumplík*

Heart rate variability expressed by Poincaré plot in metabolic syndrome

P27 *M. Teplan, J. Švehlíková, M. Tyšler*

Assessment of the number of ischemic lesions from body surface potential maps

P28 *K. Laszki-Szcząchor, M. Sobieszczkańska, D. Zwolińska, H. Filipowski, M. Tabin, D. Polak-Jonkisz*

BSPM band patterns for diagnosing intraventricular conduction disturbances in young adults with chronic kidney disease treated with hemodialysis

P29 *M. Trnka, K. Kozlíková*

Analysis of the ventricular depolarisation using autocorrelation maps

P30 *V. Regecová, E. Kellerová*

Quantitative VCG and BSPM repolarization parameters evidence increased sympathetic activation of the ventricular myocardium in different adrenergic situations

P31 *S. Smirnova, I. Roshchevskaya, M. Roshchevsky*

Comparison of propagation of atrial excitation with the cardiopotential distribution on the body surface of fish

P32 *M. Stöger, G. Fischer, C.N. Nowak, F. Hintringer*

First in vivo application of Tungsten dotted tubing in cardiac cryoablation

P33 *I.Mozos, S. Gligor*

Tpeak-Tend interval and arteriography variables

P34 *T. Sakhnova, E. Blinova, M. Saidova, A. Loskutova, O.Arhipova, E. Yurasova, T. Martynyuk, I. Chazova*

Decartographic and echocardiographic correlations in patients with pulmonary arterial hypertension

- P35 *S. Fukunaga, T. Kinoshita, K. Akitsu, H. Koike, A. Abe, H. Yuzawa, T. Suzuki, H. Sato, T. Fujino, K. Kobayashi, Y. Okano, T. Ikeda*
Synthesized posterior right sided chest lead electrocardiograms are useful for detecting right ventricular myocardial infarction
- P36 *G. Muromtseva, A. Deev, S. Shalnova*
Relation of sex and ECG variables on cardiovascular mortality risk in 10 years follow-up
- P37 *I. Saini, D. Singh, A. Khosla*
Automated ECG delineation using machine learning algorithms
- P38 *P. Jurak, J. Halamek, P. Leinveber, T. Reichlova, F. Plesinger, P. Vesely, V. Vondra, P. Klimes, J. Sumbera, K. Zeman, M. Novak*
Heart asynchrony in time-frequency interpretation up to 1000 Hz
- P39 *P. Leinveber, P. Jurak, J. Halamek, T. Reichlova, F. Plesinger, P. Vesely, V. Vondra, P. Klimes, J. Sumbera, K. Zeman, M. Novak*
QRS power in frequency ranges up to 1000 Hz
- P40 *A. Sarwan Kumar, B. Sneha Anand, C. Amit Sengupta*
Detection of time intervals in biomedical signals using template matched filter
- P41 *N.A. Vishnyakova, G.V. Ryabykina, V.E. Volkov, E.N. Dyuzheva, E.V. Blinova*
Electrocardiographic diagnosis of emergency conditions in rural areas by the system of remote ECG transmission and analysis
- P42 *E. Vavrinsky, M. Daricek, M. Donoval, F. Horinek, D. Moskalova*
Design of very precise and miniature low power ECG Holter
- P43 *T. Tranberg, C.J. Terkelsen*
Mechanical chest compressions and quality of CPR in out-of-hospital cardiac arrest evaluated by trans-thoracic impedance measurements

SOCIAL PROGRAM

Wednesday, June 4, 2014

- 19:00 all participants • **Welcome reception in the Primatial Palace** with the music performance of Miki Skuta, recognised Slovak piano player that performs classical as well as jazz music and successfully attended in many international festivals. Departure from the Austria Trend hotel Bratislava entrance **at 18:15**.

Thursday, June 5, 2014

- 13:00 accompanying • **City-train tour around the old town of Bratislava.** Guided tour around the center of the city. Visit of the “Nedbalka” gallery. Departure from the Austria Trend hotel Bratislava entrance **at 13:00**.
- 18:00 all participants • **Concert of the Chamber String Orchestra Technik in the Moyzes Hall** of the Slovak Philharmonic Orchestra. The ensemble plays classical music. Departure **at 17:30** from the Austria Trend hotel Bratislava by bus, optionally 20 minute walk.
- 19:00 all participants • **Raut with Slovak wines in the foyer of the Moyzes Hall** will take place after the concert. Bus will take the participants from the Moyzes Hall back to the hotel **after 20:30**.

Friday, June 6, 2014

- 9:30 accompanying • **Sightseeing tour of the Bratislava old town.** Walking guided tour to the Bratislava dominants. Departure from the Austria Trend hotel Bratislava entrance **at 9:30**.
- 15:30 all participants • **Boat trip to ruins of castle Devín near Bratislava** (one and half hour boating). Buses will leave **at 14:45** from the Austria Trend Bratislava hotel to the passenger port at the Danube river.
- 18:00 all participants • **Banquet with folk music in hotel Hradná brána in Devín.** The Cymbalo Folk Music of Wimmer Brothers plays local folk melodies and songs from Slovakia. After the banquet buses will take the participants back to hotels **at about 21:30**, arrival around 22:00.

Saturday, June 7, 2014

- 9:30 accompanying • **Bratislava castle or Slovak National Gallery.** Guided tour to selected place in Bratislava. Departure from the Austria Trend hotel Bratislava entrance **at 9:30**.

ICE 2014 PROGRAM OUTLINE

Wednesday June 4, 2014 Registration desk in Austria Trend hotel open 13:30 – 19:00	13:30	Congress reception opening, registration		
	15:00	Pre-congress workshop (with cakes and coffee)		
	19:00	Welcome reception in Primatial Palace (Departure from AT hotel at 18:15)		
Thursday June 5, 2014 Registration desk in Austria Trend hotel open 8:00 – 18:00	8:00	Registration		POSTERS
	9:00	Opening ceremony		
	9:30	Rijlant lecture: L. de Ambroggi: The role of electrocardiography today		
	10:00	Coffee break		
	10:15	ECG in hypertension, Ischemia and MI	Advanced methods for ECG evaluation	
	11:30		Meeting of the ISE Council	
	12:00	Lunch		
	13:00	Recognition session to Prof. Bayes de Luna: Inter-atrial block as anatomical-electrical substrate for atrial arrhythmias		
	14:00	Invited paper - W. Zareba: Significance of ventricular arrhythmia and HRV in patients with CRT		
	14:30	Cardiac arrhythmias and CRT	ECG methods and technologies	
	15:45	Coffee break		
	16:00	Poster presentations		
	18:00	Concert in Moyzes Hall (Bus departure or walk from AT hotel at 17:30)		
19:00	Raut			
Friday June 6, 2014 Registration desk in Austria Trend hotel open 8:00 – 15:00	8:30	YIA session I: New ECG methods and animal experiments		POSTERS
	10:15	Coffee break		
	10:30	YIA session II: ECG markers for cardiac diagnostics		
	12:00	Lunch		
	13:00	Invited paper – J.F. Rodriguez: Computer simulation of the electric activity of the heart. A multi-scale approach		
	13:30	ECG diagnostics of cardiac diseases	Cardiac electrophysiology	
	15:00	Boat trip to Devín castle (Departure of buses from AT hotel at 14:45)		
	18:00	Banquet in Devín (Departure of buses from Devín after 21:30)		
Saturday June 7, 2014 Registration desk in Austria Trend hotel open 8:00 – 13:00	8:30	Invited paper - M. Potse: Computer modeling to understand the failing heart		POSTERS
	9:00	Modeling in electrocardiology	Heart rate variability	
	10:00	Coffee break		
	10:15	Body surface potential mapping	Atrial fibrillations	
	11:00	ISE General Assembly		
	11:30	Young Investigator Award - announcement of winners		
	11:45	Closing ceremony		
	12:00	Lunch		
		13:00 Accompanying persons program: City-train tour and gallery visit		
		9:30 Accompanying persons program: Sightseeing of the Bratislava old town		
		9:30 Accompanying persons program: Bratislava castle or Slovak National Gallery		

Legend:

Events in the Conference rooms	Events in Poster rooms	Events in Saloons
Common social program	Accompanying persons program	Lunches, dinners, coffees