FINAL PROGRAMME

6th CARDIOLOGY HIGHLIGHTS

THE EUROPEAN SOCIETY OF CARDIOLOGY UPDATE MEETING

17/10 - 20/10/2019 | HOTEL VALAMAR LACROMA | DUBROVNIK | CROATIA

Event endorsed by
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- Minimized blood stagnation, friction and shear stress\(^1,2\)
- A low hemolysis rate of only 5\%\(^3\)
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\(^*\)Cleared for 30-day use.

\(^†\)HDE is approved for CentriMag RVAS is intended to provide temporary circulatory support for up to 30 days for patients in cardiogenic shock due to acute right ventricular failure.

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Dear colleagues,

Welcome to Croatia, welcome to the 6th Dubrovnik Cardiology Highlights!

The ESC Update Meetings in Dubrovnik began in 2009 based on the decision of the ESC Education Committee under the presidency of Professor Otto A. Smiseth. It was agreed from the start that the Dubrovnik Meeting would be organized by the Croatian Cardiac Society and endorsed as the ESC Update Meeting in Cardiology.

We are also very proud that this is the third time the Meeting has been organized under the patronage of the Medical Department of the Croatian Academy of Sciences and Arts.

Over the years, only two of four members of the ESC Update Meetings have survived – the Davos Meeting that started in 1975, and the youngest one – the Dubrovnik Cardiology Highlights, which is now celebrating its 10th anniversary.

Its founding fathers are still enthusiastically organizing and chairing the Meeting: Otto A. Smiseth and myself, with support of our co-directors: Thiery Gillebert, Dan Gaita and Zlatko Fras. Maja Čikeš soon joined as the Scientific Secretary of the Meeting, with the help of Cardiology Fellows of the Department of Cardiovascular Diseases, University Hospital Centre Zagreb.

We hope you will enjoy our Scientific Programme for the 2019 Highlights, because of its comprehensiveness, selection of relevant topics, presentation of the newest ESC guidelines, and recommendations and position papers.

Special thanks go to the Faculty, who will enrich the Meeting with their outstanding talks and interactive chairmanship, but we would also like to thank all participants, who will surely provide invaluable contributions to the Meeting with their curiosity and vivid discussions. As previously, we are continuing with interactive posters and with the already traditional Zagreb-Zürich Fellows’ Session. On this occasion, we are particularly happy to host fifty (!) Turkish colleagues led by Professor Oktay Ergene, the president of the Turkish Society of Cardiology. Do not miss the Joint Croatian-Turkish Session within the Meeting!

We are also grateful to our sponsors for their unrestricted donations and for the attractive Exhibition at the Meeting. Their Satellite Symposia will undoubtedly also enrich the Programme with the newest topics covering drugs and devices in cardiology.

Last but not least, our PCO, the “Spektar” Company, did a great job as always, and they deserve our deep gratitude for the technical organization and logistics.

Dear colleagues, let the unique beauty of Dubrovnik be once again our frame and inspiration for enjoying both the Scientific Programme and our professional networking, for reviving old and starting new friendships!

Sincerely yours,

Professor Davor Miličić, MD, PhD, FESC, FACC
Fellow of the Croatian Academy of Sciences and Arts
Scientific Director, 6th Cardiology Highlights – the ESC Update Meeting in Cardiology
ORGANIZED BY
EUROPEAN SOCIETY OF CARDIOLOGY
in collaboration with CROATIAN CARDIAC SOCIETY

MEETING DIRECTORS
Davor Miličić, HR / Otto Smiseth, NO

SCIENTIFIC SECRETARY
Maja Čikeš, HR

MEETING CO-DIRECTORS
Dan Gaita, RO / Thierry Gillebert, BE / Zlatko Fras, SLO

FACULTY LIST

INTERNATIONAL FACULTY

CROATIAN FACULTY
The ‘6th Cardiology Highlights – The European Society of Cardiology Update Meeting’ is a scientific and educational programme of the ESC, which is organized biannually by the Croatian Cardiac Society, and endorsed by the European Society of Cardiology. This 6th Dubrovnik meeting offers a high-level update of major selected topics in cardiovascular medicine presented by a distinguished international Faculty.

**LEARNING OBJECTIVES**

The aim is to present the latest science /from bench to bedside/ with perspective on the practice of cardiovascular medicine. To review current ESC guidelines. To discuss the implications of these presentations through interactive discussion. To provide a high level education, thus the scientific programme covers a broad spectrum of topics including atherosclerosis and risk factors, prevention and rehabilitation of cardiovascular diseases, coronary artery disease, acute coronary syndromes, revascularization strategies, arrhythmias, structural heart disease and heart failure. Special emphasis will be given to issues in practical implementation of the most recent ESC Practice Guidelines in different fields of cardiovascular medicine.

**TARGET AUDIENCE**

The Meeting is designed for clinicians specialized in cardiology and for cardiology fellows, but also experts in various fields of medicine with an interest in cardiology. Beside the traditional state-of-the-art lectures, an emphasis is placed on interactive education with the aim to provide guidance in everyday practice.
THE EUROPEAN ACCREDITATION COUNCIL FOR CME /EACCME®/ CREDITS

The 6th Dubrovnik Cardiology Highlights – The European Society of Cardiology Update Meeting has been accredited by the European Accreditation Council for Continuing Medical Education /EACCME®/ with 21 European CME credits /ECMEC®s/. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME® credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.

Live educational activities, occurring outside of Canada, recognised by the UEMS-EACCME® for ECMEC®s are deemed to be Accredited Group Learning Activities /Section 1/ as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.

MAIN TOPICS

THE NEWEST ESC GUIDELINES & POSITION PAPERS
ACUTE CORONARY SYNDROMES
HEART FAILURE
ADVANCED HEART FAILURE – HEART TRANSPLANTATION AND MCS
CARDIO IMAGING IN VARIOUS CLINICAL SETTINGS
CARDIOVASCULAR PREVENTION AND REHABILITATION – STATE OF THE ART
ADULT CONGENITAL HEART DISEASE
INTERVENTIONAL ARHYTMIOLOGY / ELECTROPHYSIOLOGY
INTERVENTIONAL CARDIOLOGY – STATE OF THE ART AND NEW CHALLENGES IN CORONARY INTERVENTIONS
ISCHEMIC HEART DISEASE – CORONARY PATHOPHYSIOLOGY AND MICROcirculation
HIGHLIGHTS IN CARDIOVASCULAR DRUGS DEVELOPMENT
NEW ADVANCES IN CARDIAC PACING AND AICD, CRT
PERCUTANEOUS INTERVENTIONS IN STRUCTURAL HEART DISEASE
PERIPHERAL VASCULAR DISEASES – DIAGNOSTICS AND TREATMENT
RECENT ADVANCES IN BASIC AND TRANSLATIONAL CARDIOLOGY
SPORTS CARDIOLOGY
INTERACTIVE CLINICAL CASES
MODERATED POSTERS

UEMS - EACCME® CREDITS

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PROGRAMME AT A GLANCE
THURSDAY 17/10/2019

13.30 - 18.25 HEART TRANSPLANTATION UPDATE
18.30 - 20.00 SATELLITE SYMPOSIA
20.15 - 21.00 WELCOME CEREMONY & OPENING LECTURES
21.00 - 23.00 WELCOME RECEPTION

FRIDAY 18/10/2019

08.30 - 09.40 2nd CROATIAN-TURKISH JOINT CARDIOLOGY MEETING – RECENT TREATMENT MODALITIES FOR CARDIOVASCULAR DISEASES: HOW TO FURTHER REDUCE THE BURDEN OF CARDIOVASCULAR DISEASE?
09.50 - 12.10 RECENT ESC GUIDELINES AND POSITION PAPERS
12.10 - 12.40 COFFEE BREAK
12.40 - 13.10 KEYNOTE LECTURE
13.20 - 14.50 LUNCH BREAK
15.00 - 16.40 PEARLS FROM THE ESC WORKING GROUP ON CORONARY PATHOPHYSIOLOGY AND MICROSCIRCULATION
16.50 - 18.00 CONTEMPORARY ISSUES IN CORONARY REVASCULARIZATION

SATURDAY 19/10/2019

08.30 - 10.00 IMAGING HIGHLIGHTS
10.10 - 11.25 CONUNDRUMS FOR THE EXPERTS
11.25 - 11.45 COFFEE BREAK
11.50 - 12.20 KEYNOTE LECTURE
12.30 - 14.00 LUNCH BREAK
14.10 - 15.30 ADULT CONGENITAL HEART DISEASE
15.40 - 17.10 ZAGREB-ZÜRICH FELLOWS INTERACTIVE CASES
17.15 - 18.25 MAPPING CARDIOVASCULAR PREVENTION AND REHABILITATION IN EUROPE
20.30 - 24.00 GET-TOGETHER DINNER

SUNDAY 20/10/2019

09.00 - 10.10 SELECTED PEARLS
10.20 - 10.50 KEYNOTE LECTURE
10.55 - 11.15 SATELLITE SYMPOSIUM
11.15 - 12.45 UPDATE IN ARRYTHMOLOGY AND PACING
12.50 - 13.15 CLOSING SESSION: WRAP UP, BEST POSTERS AWARDS
### THURSDAY 17/10/2019

**HEART TRANSPLANTATION UPDATE**
WORKSHOP OF THE HFA ESC – ADVANCED HEART FAILURE COMMITTEE

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<td><strong>SESSION I</strong></td>
<td>D. Miličić /Zagreb, HR/, F. Ruschitzka /Zürich, CH/</td>
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<td>13.30 - 15.50</td>
<td>ADVANCED HEART FAILURE – DEFINITION AND TREATMENT OPTIONS</td>
<td>F. Ruschitzka /Zürich, CH/</td>
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<td>FEW HEARTS, MANY PATIENTS – HOW TO SELECT THE BEST CANDIDATE FOR HEART TRANSPLANTATION?</td>
<td>D. Miličić /Zagreb, HR/</td>
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<td>REFERRAL AND PATIENT SELECTION FOR LISTING</td>
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<td>HOW TO INCREASE THE NUMBER OF DONOR HEARTS?</td>
<td>S. Tsui /Cambridge, UK/</td>
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<td>A. Ruhparwar /Essen, D/</td>
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17.25 - 17.40  A NEED FOR SUPPORTING A TRANSPLANTED HEART WITH MCS  
H. Gašparović /Zagreb, HR/

17.40 - 17.50  RETRANSLANTATION  
S. Tsui /Cambridge, UK/

17.50 - 18.05  ALLOSENSITISATION AND DESENSITISATION BEFORE AND AFTER TRANSPLANTATION IN THE VAD ERA  
S. Adamopoulos /Athens, GR/

18.05 - 18.25  DISCUSSION & WRAP UP

18.30 - 20.00  SATELLITE SYMPOSIA

20.15 - 21.00  WELCOME CEREMONY AND OPENING LECTURES  
Chairmen D. Miličić /Zagreb, HR/, O. Smiseth /Oslo, NO/, T. Gillebert /Ghent, BE/

AN UPDATE ON CORONARY VASOMOTION  
F. Crea /Rome, I/

THE INTERSECTING LANDSCAPE BETWEEN DRUGS, DEVICES AND HEART FAILURE  
F. Ruschitzka /Zürich, CH/

21.00 - 22.30  WELCOME RECEPTION
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<td>D. Miličić /Zagreb, HR/, O. Ergene /Ankara, TR/, M. Bergovec /Zagreb, HR/</td>
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<td>B. Jelaković /Zagreb, HR/</td>
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<td>B. Barcin /Ankara, TR/</td>
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<td>ESC-HFA POSITION PAPER ON THE ADVANCED HEART FAILURE – HOW FAR ARE WE FROM THE STATE-OF-THE-ART THERAPIES IMPLEMENTATION ACROSS EUROPE?</td>
<td>D. Miličić /Zagreb, HR/</td>
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<td>10.05</td>
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<td>10.55</td>
<td>MANAGEMENT OF CARDIOVASCULAR DISEASE DURING PREGNANCY</td>
<td>J. Roos-Hesselink /Rotterdam, NL/</td>
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<td>Chairmen: R. Buggiardini /Bologna, I/, A. Koller /Budapest, H and New York, USA/,</td>
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<td>D. Miličić /Zagreb, HR/</td>
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<td>15.00 - 15.20</td>
<td>CAN WE TREAT HYPERTENSION WITH EXERCISE – IF SO, WHAT ARE THE MECHANISMS?</td>
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<td>D. Duncker /Rotterdam, NL/</td>
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<td>SEX SPECIFIC TREATMENT EFFECTS AFTER PRIMARY PCI – A STUDY ON CORONARY BLOOD FLOW AND</td>
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<td>M. Vrsalović /Zagreb, HR/</td>
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<td>ROLE OF CORONARY FLOW IMPAIRMENT IN THE DEVELOPMENT OF CARDIAC DYSLIPIDEMIA IN OBESITY</td>
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<td>CONTEMPORARY ISSUES IN CORONARY REVASCULARIZATION</td>
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<td>PERCUTANEOUS RECANALIZATION OF CHRONIC TOTAL OCCLUSIONS – 2019 CONSENSUS DOCUMENT FROM THE</td>
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<td>E. Margetić /Zagreb, HR/</td>
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<td>A. Galassi /Catania, I/, E. Margetić /Zagreb, HR, B. Starčević /Zagreb, HR, J. Bulum /Zagreb,</td>
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<td>HR, R. Bernat /Kaiserslautern, D/</td>
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SATURDAY 19/10/2019

08.30 - 10.00  IMAGING HIGHLIGHTS
Chairmen I. Čikeš /Zagreb, HR/, O. Smiseth /Oslo, NO/, K. Selthofer-Relatić /Osijek, HR/

08.30 - 08.50  MYOCARDIAL HEMODYNAMIC COUPLING IN MITRAL REGURGITATION – PRESSURE, FUNCTION AND VOLUMES INTERPLAY
J. Šeparović Hanževački /Zagreb, HR/

08.50 - 09.10  DIASTOLIC STRESS IMAGING
O. Smiseth /Oslo, NO/

09.10 - 09.30  EVALUATION OF DIASTOLIC FUNCTION IN DYSSYNCHRONY
M. Stugaard /Oslo, NO/

09.30 - 09.50  MULTIMODALITY IMAGING IN HEART FAILURE
F. Flachskamp /Upsala, S/

09.50 - 10.00  DISCUSSION

10.10 - 11.25  CONUNDRUMS FOR THE EXPERTS
Chairmen T. Gillebert /Ghent, B/, L. Zaputović /Rijeka, HR/, D. Fabijanić /Split, HR/

10.10 - 10.25  HISTORY OF PREHYPERTENSION
R. Zimlichman /Tel Aviv, IL/

10.25 - 10.40  WHAT WE USUALLY IGNORE, AND SHOULD NOT IN EVALUATING A PATIENT WITH ARTERIAL HYPERTENSION?
B. Jelaković /Zagreb, HR/

10.40 - 11.00  HFpEF – A CARDIAC AND VASCULAR PHENOME / A MULTI-ORGAN DISEASE
T. Gillebert /Ghent, B/

11.00 - 11.15  AICD IN HEART FAILURE
M. Čikeš /Zagreb, HR/

11.15 - 11.25  DISCUSSION

11.25 - 11.45  COFFEE BREAK

11.50 - 12.00  KEYNOTE LECTURE
11.55 - 12.20  CLINICAL PRACTICE UPDATE ON HEART FAILURE 2019 – PHARMACOTHERAPY, PROCEDURES, DEVICES AND PATIENT MANAGEMENT. AN EXPERT CONSENSUS MEETING REPORT OF THE HFA-ESC
P. Seferović /Belgrade, SRB/

12.30 - 14.00  LUNCH BREAK
SATellite SYMPOSIA & MODERATED POSTERS
### SATURDAY 19/10/2019

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<td>14.10 - 15.30</td>
<td><strong>ADULT CONGENITAL HEART DISEASE</strong>&lt;br&gt;Chairmen J. Roos Hesselink /Rotterdam, NL/, D. Anić /Zagreb, HR/</td>
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<td>14.10 - 14.40</td>
<td><strong>GROWN UP CONGENITAL HEART DISEASE - CURRENT ACHIEVEMENTS AND CHALLENGES FOR THE FUTURE</strong>&lt;br&gt;J. Roos Hesselink /Rotterdam, NL/</td>
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<td>14.40 - 15.00</td>
<td><strong>MANAGEMENT OF THE ADULT FONTAN PATIENT</strong>&lt;br&gt;M. Brida /Zagreb, HR/</td>
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<td>15.00 - 15.20</td>
<td><strong>PERCUTANEOUS INTERVENTIONS IN ADULT CONGENITAL HEART DISEASE PATIENTS</strong>&lt;br&gt;M. Strozzi /Zagreb, HR/</td>
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<td>15.20 - 15.30</td>
<td><strong>DISCUSSION</strong></td>
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<td>15.40 - 17.10</td>
<td><strong>ZAGREB - ZÜRICH FELLOWS INTERACTIVE CASES</strong>&lt;br&gt;Chairmen F. Ruschitzka /Zurich, CH/, D. Miličić /Zagreb, HR/, F. Mikulicic /Zurich, CH/, M. Čikeš /Zagreb, HR/</td>
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<td>Case presenters N. Jakuš /Zagreb, HR/, Z. Ostojić /Zagreb, HR/, D. Fritschi /Zurich, CH/, P. S. Heiniger /Zurich, CH/</td>
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<td>17.15 - 18.25</td>
<td><strong>MAPPING CARDIOVASCULAR PREVENTION AND REHABILITATION IN EUROPE</strong>&lt;br&gt;Chairmen V. Peršić /Opatija, HR/, D. Gaita /Temisoara, RO/</td>
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<td>17.15 - 17.35</td>
<td><strong>OUR JOURNEY THROUGH THE EUROASPIRE PROGRAMME</strong>&lt;br&gt;K. Kotseva /London, UK/</td>
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<td>17.35 - 17.55</td>
<td><strong>CARDIAC REHABILITATION AVAILABILITY AND DELIVERY IN EUROPE – STATEMENT ENDORSED BY THE EAPC-ESC</strong>&lt;br&gt;D. Gaita /Temisoara, RO/</td>
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<td>17.55 - 18.15</td>
<td><strong>RECOMMENDATIONS FOR PARTICIPATION IN COMPETITIVE AND LEISURE TIME SPORT FOR PATIENTS WITH CARDIOMYOPATHIES, MYOCARDITIS AND PERICARDITIS – POSITION STATEMENT OF THE SPORTS CARDIOLOGY SECTION OF THE EAPC-ESC</strong>&lt;br&gt;Z. Babić /Zagreb, HR/</td>
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<td>18.15 - 18.25</td>
<td><strong>DISCUSSION</strong></td>
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<td>20.30 - 24.00</td>
<td><strong>GET-TOGETHER DINNER</strong></td>
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**SUNDAY 20/10/2019**

**09.00 - 10.10**  
**SELECTED PEARLS**  
Chairmen Z. Fras /Ljubljana, SLO/, A. Ružič /Rijeka, HR/, D. Miličić /Zagreb, HR/

**09.00 - 09.20**  
THE CURRENT STATUS OF FAMILIAL HYPERCHOLESTEROLAEMIA CARE IN OVER 60 COUNTRIES – THE EAS FAMILIAL HYPERCHOLESTEROLAEMIA STUDY COLLABORATION  
Z. Fras /Ljubljana, SLO/

**09.20 - 09.40**  
RECENT ADVANCES IN CARDIOVASCULAR PHARMACOTHERAPY  
G. Rosano /London, UK/

**09.40 - 10.00**  
IRON DEFICIENCY IN HEART FAILURE  
E. Jankowska /Lodz, P/

**10.00 - 10.10**  
DISCUSSION

**10.20 - 10.50**  
**KEYNOTE LECTURE**

**10.20 - 10.25**  
INTRODUCTION  
D. Miličić /Zagreb, HR/

**10.25 - 10.50**  
BREAKTHROUGHS IN THE MEDICAL MANAGEMENT OF HEART FAILURE 2019  
J. McMurray /Glasgow, UK/

**10.55 - 11.15**  
**SATELLITE SYMPOSIUM**

**11.15 - 12.45**  
**UPDATE IN ARRYTHMOLOGY AND PACING**
Chairmen R. Hatala /Bratislava, SK/, D. Delić Brkljačić /Zagreb, HR/, A. Anić /Zadar, HR/

**11.15 - 11.35**  
ABLACTION IN BRUGADA SYNDROME – CURRENT MANAGEMENT  
G. Ciconte /Milano, I/

**11.35 - 11.55**  
SOUTHEAST AND CENTRAL EUROPEAN PULMONARY VEIN ISOLATION REGISTRY SE & CE PVI – WHAT WE HAVE LEARNED ?  
Š. Manola /Zagreb, HR/

**11.55 - 12.15**  
NEW FRONTIERS IN ABLATION OF PERSISTENT ATRIAL FIBRILLATION  
V. Velagić /Zagreb, HR/

**12.15 - 12.35**  
WHAT IS ON THE HORIZON IN CARDIAC PACING?  
R. Hatala /Bratislava, SK/

**12.35 - 12.45**  
DISCUSSION

**12.50 - 13.15**  
**CLOSING SESSION: WRAP UP, BEST POSTERS AWARDS**
Chairmen D. Milčić /Zagreb, HR/, O. Smiseth /Oslo, NO/, T. Gillebert /Ghent, B/, D. Gaita /Temisoara, RO/, Z. Fras /Ljubljana, SLO/, M. Čikeš /Zagreb, HR/
LIST OF POSTERS

Selected posters should be on display throughout the duration of the meeting and will be presented during lunch time on October 18 and 19 Business Center of the Valamar Lacroma Hotel. The selected posters will be presented in the form of a 3-minute oral communication + 2 minutes for the discussion.

**FRIDAY 18/10/2019 13.20 - 14.50**

**Poster Committee Coordinator** M. Ivanuša /Zagreb, HR/


**ACUTE CORONARY SYNDROMES**

1. **Incidence of bifurcation coronary lesion as a culprit lesion in patients with acute myocardial infarction: impact of treatment strategy on short- and long-term outcomes.**

2. **Reducing the number of days taken for coronary artery bypass grafting for cardiology in-patients, within New Cross Hospital, Wolverhampton – a quality improvement project.**
   Hughes S, Baker C, Gautham A /Wolverhampton, UK/

3. **Characteristics of patients with acute ST-segment elevation myocardial infarction treated with different combinations of antiaggregation therapy: experience from the Croatian branch of the ISACS-CT Registry.**

4. **Does the use of high dose atorvastatin in combination with dual antiplatelet therapy modify residual platelet activity in patients with acute coronary syndrome?**

5. **Effect of targeted temperature management on platelet function in patients with out-of-hospital cardiac arrest due to acute myocardial infarction.**

6. **Exploring the relationship between smoking status and the total number of coronary arteries with significant stenoses in a young population with ST-segment elevation myocardial infarction.**
   Puškarić F, Ostojić Z, Jakuš N, Plancin I, Pašalić M, Bulum J, Miličić D, Čikeš M /Zagreb, HR/

7. **Characterization of patients with myocardial infarction with non-obstructive coronary arteries – experience from the Croatian branch of the ISACS-CT Registry.**
8. Higher S2PLIT-UG scores at index admission are associated with a higher functional disease burden and increased biomarkers of myocardial injury and ventricular overload among patients with acutely decompensated heart failure.
  Borovac J A, Božić J, Glavaš D /Split, HR/

9. Survival of heart failure patients with reduced and preserved ejection fraction is not different!

10. Outcomes in patients with heart failure with regard to statin therapy.
  Godinjak A, Đešević M, Iglica A, Kukuljac A /Sarajevo, BIH/

  Rešković Lukšić V, Mance M, Ostojić Z, Došen D, Bitunjac I, Gašparović K, Šeparović Hanževački J /Zagreb, Slavonski Brod, HR/

12. Lower platelet count early after the heart transplantation is associated with lower rates of cellular-mediated rejection within 24 months after heart transplantation.

13. Long-term outcomes in patients with aortic regurgitation in the Zagreb University Hospital Centre.

  Varvodić J, Gjorgjievska S, Barić D, Unić D, Planinc M, Kušurin M, Šunjar D, Jakšić Jurinjak S, Jurin I, Bulj N, Rudež I /Zagreb, HR/

15. Careful preoperative planning of aortic valve surgery – impact of echocardiography and CT parameters.
  Varvodić J, Šušnjar D, Jurin I, Grgurić J, Starčević B, Paić F, Rudež I /Zagreb, HR/

  Perincek G, Avci S, Kahraman F /Kars, Amasya, Kocaeli, TR/

17. Comparison of the 3-class and 5-class grading schemes for quantification of paravalvular regurgitation during transcatheter aortic valve implantation.
  Ostojić Z, Rešković Lukšić V, Glavaš Konja B, Mance M, Šafradin I, Bulum J, Šeparović Hanževački J /Zagreb, HR/

18. Pretransplant echocardiographic findings as predictors of late adverse outcomes following liver and kidney transplantation.
## LIST OF POSTERS

**SUNDAY 19/10/2019 12:30 - 14:00**

**Poster Committee Coordinator** M. Ivanuša /Zagreb, HR/
**Chairmen** D. Gaita /Temisoara, RO/, D. Duplančić /Split, HR/, J. Ferry-Certić /Dubrovnik, HR/, V. Peršić /Opatija, HR/, D. Počanić /Zagreb, HR/

### CARDIOVASCULAR PREVENTION AND REHABILITATION – STATE OF THE ART

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<th>No.</th>
<th>Title</th>
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### ARRHYTHMIAS AND ELECTROPHYSIOLOGY

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<th>No.</th>
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### NEW ADVANCES IN CARDIAC PACING & AICD, CRT

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<tr>
<th>No.</th>
<th>Title</th>
<th>Authors</th>
<th>Affiliations</th>
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<tbody>
<tr>
<td>27.</td>
<td>Effect of the &quot;Search AV&quot; feature on left ventricular longitudinal deformation and ProBNP levels in patients with implanted dualchamber pacemakers.</td>
<td>Yilmaz A, Yilmazer MS, Kurt F /Gebze, Maltepe, Yalova, TR/</td>
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</tbody>
</table>
## LIST OF POSTERS

### PERIPHERAL VASCULAR DISEASES – DIAGNOSTICS AND TREATMENT

28. **Treatment of deep vein thrombosis in elderly patients.**
   Banfić LJ, Vrkić Kirhmajer M, Pašalić M /Zagreb, HR/

29. **Incidence of lower limb amputation in diabetic patients between 2010 and 2018 in Osijek-Baranja County.**
   Canecki-Varžić S, Prpić-Križevac I /Osijek, HR/

### INTERACTIVE CLINICAL CASES

30. **Overt hyperthyroidism and venous thrombosis: what is the association?**
    Mariame /Marrakesh, MA/

31. **Inflammation as a procoagulant state for thrombus manifestation in a patient with secondary dilated cardiomyopathy.**

32. **Targeted temperature management after out-of-hospital cardiac arrest: experience from Bosnia and Herzegovina.**
    Godinjak A, Iglica A, Tančića I, Đešević M, Kukuljac A /Sarajevo, BiH/

33. **Restrictive cardiomyopathy in a female patient.**
    Koshi R /Gjakova, XK/

34. **History and electrocardiography as pathway to diagnosis of Brugada syndrome: a case report.**
    Lazić S, Mitrović V, Sipić M, Rasic D, Davidović A, Pajović S /Kosovska Mitrovica, XK, Sarajevo, BiH, Beograd, SRB/

35. **Total atrioventricular block in Lyme borreliosis.**
    Petranović J, Levicki R, Barišić I, Raštegorac I, Dujmović V, Počanić D /Požega, Zagreb, HR/

36. **A patient with permanent atrial fibrillation and very high bleeding risk – when is the optimal time to refer for left atrial appendage occluder device implantation?**

37. **Spontaneous coronary artery dissection: a case report.**
    V. Sipic M, Lazic S, Rasic D, Krdžić B, Pajović S /Kosovska Mitrovica, XK/

38. **From left ventricular hypertrophy to Waldenström macroglobulinemia: a case report.**
    Selthofer-Relatić K, Breškić Ćurić Ž, Čikeš M, Skorić B, Planinc I, Miličić D /Osijek, Vinkovci, Zagreb, HR/

39. **Arrhythmogenic right ventricular cardiomyopathy without arrhythmias?**
THURSDAY 17/10/2019

18.30 - 19.30 MEDTRONIC SATELLITE SYMPOSIUM

18.30 - 18.50 WHO IS THE RIGHT CANDIDATE FOR LVAD TREATMENT?
D. Miličić /Zagreb, HR/

18.50 - 19.00 SURGICAL IMPLANTATION TECHNIQUES
B. Biočina /Zagreb, HR/

19.00 - 19.20 POST IMPLANTATION MANAGEMENT OF LVAD PATIENTS
M. Čikeš /Zagreb, HR/

19.30 - 20.00 PLIVA SATELLITE SYMPOSIUM

Moderator D. Miličić /Zagreb, HR/

ON DRONEDARONE OR THE RETURN OF THE DEPARTED
Š. Manola /Zagreb, HR/

FRIDAY 18/10/2019 CONGRESS HALL A

13.20 - 13.50 BAYER SATELLITE SYMPOSIUM

XARELTO ON DUTY – ALWAYS A STEP AHEAD
Moderator M. Čikeš /Zagreb, HR/

INTRODUCTION
M. Čikeš /Zagreb, HR/

PROTECTING OUR VTE PATIENTS
M. Vrsalović /Zagreb, HR/

NEW DIRECTION IN VASCULAR PROTECTION
K. Štambuk /Krapinske Toplice, HR/

ESC UPDATE
M. Čikeš /Zagreb, HR/

13.50 - 14.20 NOVARTIS SATELLITE SYMPOSIUM

13.50 - 14.05 SACUBITRIL/VALSARTAN IN HFREF – NEW DATA
M. Čikeš /Zagreb, HR/

14.05 - 14.20 HEART FAILURE WITH PRESERVED EJECTION FRACTION – PARAGON-HF STUDY
D. Miličić /Zagreb, HR/

14.20 - 14.50 BOEHRINGER SATELLITE SYMPOSIUM

Moderator D. Miličić /Zagreb, HR/

THE CLASS CLASSICS – DABIGATRAN AND EMPAGLIFLOZIN IN CONTEMPORARY CARDIOLOGY
R. Bernat /Kaiserslautern D/
FRIDAY 18/10/2019  CONGRESS HALL A

13.20 - 14.20  NOVONORDISK SATELLITE SYMPOSIUM
Moderator D. Miličić /Zagreb, HR/

Established and potential cardiovascular mechanism of action of once weekly semaglutide
D. Delić Brkljačić /Zagreb, HR/

An overview of the SUSTAIN clinical program
S. Klobučar Majanović /Rijeka, HR/

GLP1-RA status in the new ESC guidelines on diabetes, pre-diabetes and cardiovascular diseases
D. Miličić /Zagreb, HR/

14.20 - 14.50  ROCHE SATELLITE SYMPOSIUM

One hour algorithm highlights – new publications and a call to action
D. Miličić /Zagreb, HR/

SATURDAY 19/10/2019  CONGRESS HALL B

12.30 - 13.30  SANOFI-AVENTIS SATELLITE SYMPOSIUM
Praluent /PCSK9i/ – the new standard of care in ACS patients
Moderators
D. Miličić /Zagreb, HR/, Ž. Reiner /Zagreb, HR/

2019 ESC/EAS guidelines for the management of dyslipidaemias – what is new?
Ž. Reiner /Zagreb, HR/

Odyssey outcomes data – how does CVOT evidence support the clinical value of PCSK9i therapy and drive patient access?
E. Margetić /Zagreb, HR/

How to identify a residual patient's CV risk and possible need for appropriate PCSK9i therapy?
M. Vrsalović /Zagreb, HR/

From proof of concept to clinical outcomes
I. Merćep /Zagreb, HR/

Discussion
Closing remarks: how can we improve CV outcomes by Croatian treatment algorithm for hypercholesterolemia in post-ACS patients and turning it into daily practice?
D. Miličić /Zagreb, HR/

13.30 - 14.00  BAYER SATELLITE SYMPOSIUM
Xarelto on duty – always a step ahead

Taking care of our SPAF patients
D. Miličić /Zagreb, HR/
SATURDAY 19/10/2019  CONGRESS HALL  A

12.30 - 13.30  PFIZER SATELLITE SYMPOSIUM

12.30 - 13.15  NOACS – FROM NEW EVIDENCE TO IMPROVED PATIENT OUTCOMES IN ATRIAL FIBRILLATION
Moderator D. Miličić /Zagreb, HR/

ESTABLISHING NOACS AS STANDARD OF CARE IN CLINICAL PRACTICE
D. Miličić /Zagreb, HR/

EXPLORING OUTSTANDING UNMET NEEDS IN AF PATIENTS WITH ACUTE CORONARY SYNDROME AND/OR UNDERGOING PERCUTANEOUS CORONARY INTERVENTION
J. Bulum /Zagreb, HR/

OPTIMISING NOAC MANAGEMENT IN AF AND ACS/PCI – CLINICAL PRACTICE PERSPECTIVE
M. Trbušić /Zagreb, HR/

M. Čikeš /Zagreb, HR/

13.30 - 14.00  BERLIN CHEMIE SATELLITE SYMPOSIUM

RANOLAZINE IN THE TREATMENT OF ANGINA
B. Skorić /Zagreb, HR/

SUNDAY 20/10/2019

10:55 - 11:15  ABBOTT SATELLITE SYMPOSIUM

HOW TO IMPROVE RESPONSE TO CRT? NEW MANAGEMENT POSSIBILITIES
R. Matasić /Zagreb, HR/
SOCIAL PROGRAMME

THURSDAY | 17/10/2019

20.15 - 21.00 WELCOME CEREMONY AND OPENING LECTURES
Location Hotel Valamar Lacroma Dubrovnik

21.00 - 23.00 WELCOME RECEPTION
Location Hotel Valamar Lacroma Dubrovnik

SATURDAY | 19/10/2019

20.30 - 24.00 GET-TOGETHER DINNER
Location Hotel Valamar Lacroma Dubrovnik
CONGRESS VENUE

HOTEL VALAMAR LACROMA
Ulica Iva Dulčića 34 | Dubrovnik | Croatia
Just a few minutes drive from the beauty and bustle of the World Heritage Site of Dubrovnik, lies the new Sheraton Dubrovnik Riviera Hotel, an oasis of calm and a gem of contemporary architecture. Wrapped in lush gardens running right down to the beach and with fabulous views across the sea, this 240-room and 11-suite resort is all about bringing people together. It is intimate enough for couples, spacious enough for families and, with 1500 m² of state-of-the-art conference facilities, an appropriate location for international conferences.

OFFICIAL LANGUAGE

The official language of the Congress is English. No simultaneous translation will be provided.

APPOINTED PCO AGENCY

SPEKTAR PUTOVANJA D.O.O.
Hebrangova 34 | 10000 Zagreb | Croatia
tel 00 385 1 4862 605 | fax 00 385 1 4862 622
e-mail ana.hadjic@spektar-holidays.hr

REGISTRATION DESK AND SLIDE AREA

Hotel Valamar Lacroma
Thursday 17/10 12.00 - 20.30
Friday 18/10 07.30 - 18.00
Saturday 19/10 07.30 - 18.30
Sunday 20/10 08.30 - 13.00

PRESENTATION GUIDELINES

POWERPOINT CENTRE FOR SPEAKERS

Speakers should sign in at the PowerPoint Centre at least 2 hours before their lecture. The PowerPoint Centre is located in the technical booth at the entrance of the main hall. Technical assistance will be available in the PowerPoint Centre and in the lecture hall.

POSTER PRESENTATIONS

Poster should not exceed 90 cm width x 120 cm height /portrait style/. Each poster will be indicated with an appropriate number on the panel attached to the board with double adhesive tape, provided by the Organizers. A headline strip on the poster at least 20 cm high should include the title, authors and affiliations with lettering of at least 2.5 cm in height. The poster should be designed in such a way that it is readable from a distance of at least 2 m. All posters should be mounted on Thursday afternoon 17/10 and dismounted on Sunday afternoon 20/10. Selected posters have been chosen for moderated poster presentations /3 min for the presentation and 2 min for the discussion/ within the noted sessions.
AWARDS FOR BEST POSTERS

Three best posters will be chosen by the Poster Grading Committee. The presenters of the best graded posters will be rewarded as follows:

1st award
Registration fee for the 7th Cardiology Highlights, 2021.

2nd award
Registration fee for the 13th Congress of the Croatian Cardiac Society, Zagreb, December 2020.

3rd award
Registration fee for one of the Congresses of the Working Groups of the Croatian Cardiac Society, 2020.

REGISTRATION FEES

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<tr>
<td>after 17/09/19 and on-site</td>
<td>4.235,00 HRK / approx. 560,00 €</td>
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<td>Participant</td>
<td>4.235,00 HRK / approx. 560,00 €</td>
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<tr>
<td>Participant &lt; 35 years</td>
<td>3.080,00 HRK / approx. 410,00 €</td>
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<tr>
<td>Accompanying person</td>
<td>770,00 HRK / approx. 100,00 €</td>
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<tr>
<td>Exhibitors and Sponsors</td>
<td>1.925,00 HRK / approx 255,00 €</td>
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REGISTRATION FEE FOR PARTICIPANTS INCLUDES

Admission to all scientific sessions and exhibition / Conference bag, Final programme and Abstract book /

ACCREDITATION

Cardiology Highlights is recognized by the following medical societies as accredited continuing education:

UEMS - EACCME® /The European Accreditation Council for CME/ – 21 points.

Croatian Medical Chamber
National CME authority of Croatian Medical Chamber is granting European accreditation:
20 points for ‘active’ participation
12 points for ‘passive’ participation

CERTIFICATE OF ATTENDANCE

Certificates of Attendance will be available on request at the end of the Congress at the Registration Desk.

EXHIBITION AREA

Participants are invited to visit the Exhibition area located in the Business Center of the Valamar Lacroma Hotel.

Exhibition area opening hours
Thursday 17/10 12.00 - 20.30
Friday 18/10 07.30 - 18.00
Saturday 19/10 07.30 - 18.30
Sunday 20/10 08.30 - 13.00
Dubrovnik is an ancient town with millennial history and on the list of UNESCO world cultural heritage. The city is surrounded by 2 kilometers of walls built between the 11th and 17th century. Dubrovnik ranks among the sunniest towns of Southern Europe. In July it has 12.4 hours of sunshine a day, like Alexandria in Egypt. The vegetation is subtropical /olives, almond, citrus fruit, rosemary, laurel, holms oak, pine, stone pine and cypress/.

The City of Dubrovnik is situated in the far south of the Republic of Croatia, from cape Orsula in the east to Brsečine in the west. With the Elaphite archipelago /islands of Šipan, Lopud, Koločep, Olipa, Tajan and Jakljan/ it covers an area of 145.35 sq. km and stretches along 20.5 km. The city comprises 51 settlements, 47004 inhabitants, with median density of population of 3281 per sq. km.

Dubrovnik was founded in the 7th century. The city is surrounded by 2 kilometers of walls built between the 11th and 17th centuries. In its millennial history, freedom, independence, sovereignty were the mainstay of Dubrovnik's social system. European crusades, pilgrims to Jerusalem, travel writers, messengers, adventures and those seeking new knowledge and perspective passed through or stayed. Moreover, they had no regrets. Today in Dubrovnik, they arrive comfortably and easily, by plane, boat or car. Stradun, Dubrovnik’s central street, the meeting place of the town, is unique in its beauty. The climate is perhaps a measure of the town. In summer, when it is unbearably hot, it is a pleasure to sit in the deep shade of the town palaces and monasteries, waiting for night to bring a light mistral wind to cool the hot city walls. In the evening, in one of the many restaurants of Dubrovnik, you can try their fish specialties or drink one of the renowned local wines. You will then feel the same heat that fills the people from Dubrovnik: an invitation to enjoyment and song. The famous Bernhard Shaw once said: Those who seek paradise on Earth should come to see Dubrovnik. Therefore, it is the one and only – Dubrovnik.
As you put on your tie before a business meeting or a theatre performance, as you write with your ball point pen, do you ever think of Croatia? Our guess is that you do not. Why should you? However, let us press the point. Your tie is, after all, a direct descendant of the very same cravat that Croatian soldiers, as the French encyclopedia tells us, used to tie around their necks in the 17th century. Moreover, the ball-point pen that you use was invented by S. Penkala, a Croatian engineer who constructed the first ballpoint pen and the first fountain pen in 1906. Indeed, have you ever been to Croatia; because Croatia awaits you with an invitation to spend your precious leisure time in a new, dynamic and entirely different way. Only those who have never visited this Central European country may sometimes feel that we are exaggerating. However, they must be told that images of Croatia painted in words or photographs alike are not the product of imagination or embellishment, despite the unearthly beauty they often reveal. After all, has not the beauty of Croatia been captured in countless books, paintings and photographs? Few people realize that Shakespeare’s Twelfth Night takes place here, or that Carlo Goldoni, Jack London, Eugene Ionesco, to name but a few, were enchanted by the beauty of the Croatian landscape. The famous master of plots and intrigues, Agatha Christie, also had a good reason to find a special place in her heart for Dubrovnik and Split: she spent her second honeymoon there. We could tell many tales of the famous who came here. Some of them are public, some are secret and some are open secrets. Let us, instead, tell the tale of the country they have chosen, not without reason.

Croatia is a place where the Mediterranean, the Alps and the Pannonian plain come together: this country has taken something from each one of them and blended those parts into a unique harmony and a rare beauty. Side by side in Croatia, there are phenomena, which are usually many miles apart. Within a hundred kilometers, you will find the sea, the karst, densely wooded mountains and fertile plains.

All those beauties are just a few hour drive away from the European centers on whose traditions, through constant giving and receiving, Croatia has been building its history and culture, past and present. And above all it’s future. If we want to be completely honest: practically nowhere else can you find the sea as clean as the Croatian Adriatic. In Croatia, the beauties of nature are not something one reads about in books. Ecologically, it has one of the best-preserved environments, with as many as seven national parks.

Croatia is a country at the historical crossroads, and a land where cultures meet, a land of long tourist traditions, and a land for all seasons. Although there was an independent Croatian principality and Kingdom from the 9th to the 12th century, today Croatia is one of the newest states in Europe. It adopted its constitution on 22 December 1990, and was recognized internationally on 15 January 1992. The international recognition of its sovereignty and its acceptance into the membership of the UN in 1992 marked the end of a crucial period in the establishment of Croatia as a new state in the European and world community. The capital of Croatia is Zagreb, a city of 1 million inhabitants, and the hub of Croatian culture, education and trade. Croatia is rich in natural resources, and is determined to build its future on services and high technology.
The Congress Organizer would like to thank the following sponsors for their generous support:

**GOLD SPONSORS**
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- Berlin-Chemie Menarini
- Boehringer Ingelheim
- Medtronic
- Novo Nordisk
- Pfizer
- Sanofi

**SILVER SPONSORS**
- Abbott
- Cardio Medical
- Krka Farma
- Novartis
- Pliva
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**BRONZE SPONSORS**
- AstraZeneca
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**OTHER SPONSORS**
- Alkaloid
- Amgen
- Belupo
- Biotronik
- JGL
- Mark Medical
- Medis
- Merck
- Pharmacol
- Sandoz
- Siemens Healthineers