Final Program

Zagreb, Croatia
Hotel Westin
5-8 September, 2018
A complete and flexible ECMO solution

ECMO

Comprehensive ECMO system.

LivaNova offers a full ECMO system, including both hardware and disposable. LifeBox represents an ideal bridge solution to rescue patients, perfectly fitting for ground transportation. SCP™+SCPC™ offer an integrated ergonomic in-hospital solution, for use in ORs and ICUs. EOS™ and Lilliput 2 ECMO oxygenators are equipped with plasma-tight Polymethylpentene fiber and physiologic PH.I.S.I.O. PC coating, ensuring optimal long term performances for pediatric and adult patients.
<table>
<thead>
<tr>
<th>TABLE OF CONTENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELCOME ADDRESS</td>
</tr>
<tr>
<td>PROGRAM DIRECTORS &amp; COMMITTEE</td>
</tr>
<tr>
<td>ABOUT BRANO</td>
</tr>
<tr>
<td>SCIENTIFIC PROGRAMME</td>
</tr>
<tr>
<td>EXHIBITORS AND SPONSORS</td>
</tr>
<tr>
<td>SOCIAL PROGRAMME</td>
</tr>
<tr>
<td>GENERAL INFORMATION</td>
</tr>
<tr>
<td>USEFUL INFORMATION</td>
</tr>
</tbody>
</table>
Dear Friends and Colleagues,

The Organizing Committee of the Eleventh Annual "Brano" Radovancevic Heart Failure Forum invites you to attend "Innovations and New Treatment Strategies in Heart Failure." This 11th anniversary Forum will be held in Zagreb, Croatia in September of 2018.

All faculty members are internationally recognized experts in their fields. Based on the feedback from attendees and faculty, last year’s International "Branislav Radovancevic" Memorial Heart Failure Symposium was a great success!

Over 90 internationally recognized faculty and more than 500 participants attended. We are pleased that our goal to distribute comprehensive updates in the treatment of advanced heart failure has once again been achieved.

We will strive to make this year’s even better.

Sincerely,

Program Directors:

Prof. Igor D. Gregoric, M.D., FACC
Prof. Bojan Vrtovec, M.D., Ph. D
Prof. Bojan Biocina, M.D., Ph. D
Prof. Davor Milicic, M.D., FESC, FACC
Assoc. Prof. Rajko Radovancevic, M.D.
Program Directors

Igor D. Gregoric, M.D., FACC
Bojan Vrtovec, M.D., Ph.D.
Bojan Biocina, M.D., Ph.D.
Davor Milicic, M.D., Ph.D.
Rajko Radovančević, M.D.

Organizing Committee

Bojan Biocina. M.D., Ph.D. (President)
Igor D. Gregoric, M.D., FACC
Bojan Vrtovec, M.D., Ph.D.
Rajko Radovančević, M.D.

Previous Organizing Committee Presidents

Bosko Djukanovic, M.D. & Sasa Borovic, M.D. (2011)
Piotr Przybylowski, M.D., Ph.D. (2013)
Zeljko Sutlic, M.D., Ph.D. (2014)
Jan Pirk, M.D., Ph.D. (2017)

Scientific Committee

Igor D. Gregoric, M.D., FACC
Bojan Biocina. M.D., Ph.D.
O.H. Frazier, MD,
Sharon A. Hunt, MD,
Biswajit Kar, MD
Rajko Radovančević, MD,
Guillermo Torre-Amione, MD, PhD,
Josef Stehlik, MD
Bojan Vrtovec, MD, PhD
Invited Faculty 2018

Al-Dossari Ghannam A.
Arabia Francisco
Balboni Paolo
Banjac Igor
Baranowski Jacek
Biocina Bojan
Birks Emma J.
Bojic Milovan
Boyle Steven
Bracey Arthur
Buja Maximillian
Cerar Andraz
Cikes Maja
Clark Marie
Couper Gregory S.
Crnkovic Dubravka
Damme Laura
De Mol Bass
Dembitsky Walter
Demirozu Zumrut
Diez Jose G
Eisen Howard
El-Banayosy Aly
Feldman David S.
Fiane Arnt E.
Frazier OH
Friljak Sabina
Ganushchack Yuri
Gasparovic Hrvoje
Gosev Igor
Gregoric Igor
Guglin Maya
Hallberg Kristensen Ann
Hartyanszky, Istvan
Hunt Sharon

Hussain Rahat
Issit Richard
Ivovic Tina
Jeevanandam Valluvan
Johnson Maryl
Jorde Ulrich P.
Joseph Susie
Kar Biswajit
Khush Kiran
Kirklin James K.
Klesnik Saso
Knezevic Ivan
Kobashigawa Jon
Kokalovic Maja
Kore Sishir
Kormos Robert
Kosevic Dragana
Kraljevic Aleksandra
Kulic Slavko
Kurniawati Eva
Kurtanjek-Gorupec Sanja
Kyuchukov Dimitar
Lahpor Jaap
Lauenroth Volker
Lazar Helene
Livi Ugolino
Long James
Lönn Urban
Maly Jiri
McKellar Stephen
Milicic Davor
Mitrev Zan
Mohacsi Paul
Mrotkovic Ruzica
Myers Timothy
Nachev Gencho

Nelson Karl
Nestorovic Emilija
Netuka Ivan
Petricevic Mate
Pham Michael
Pirk Jan
Planinc Danijel
Poglajen Gregor
Potapov Evgenij
Potena Luciano
Povsic Thomas
Prapas Sotirios
Przybylowski Piotr
Putnik Svetozar
Pya Yuri
Radojicic Dragana
Radovancevic Rajko
Ranucci Marko
Ristic Miljko
Rudez Igor
Schettle Sara
Schlöglhofer Thomas
Schueler Stephen
Segura Ana Maria
Silvestry Scott
Stehlik Josef
Strancaric Stjepan
Strueber Martin
Suciu Horatio
Sun Benjamin C.
Sutlic Zeljko
Svetina Lucija
Szabolcs Zoltan
Taylor David O.
Torre-Amione Guillermo
Trifunovic Zoran

Tuzun Egemen
Uriel Nir
Vandersmissen Katrien
Vega J. David
Vrtovic Bojan
Vujaklija Rajka
Vukovic Petar
Wasler Andrae
Weeks Philip
Wieselthaler Georg M.
Zemljic Gregor
Zucker Mark Jay
Zuckermann Andreas
Branislav (“Brano”) Radovancevic, internationally known leader in transplantation research and friend to so many of us at the Texas Heart Institute, died on 15 September 2007.

Brano was born in Osijek, Croatia. He received his medical degree in 1978 after study in Belgrade, Serbia. In 1984, Brano came to Houston as a research fellow in Cardiopulmonary transplantation at the Texas Heart Institute (THI). In 1991, he became the Associate Director of Transplant Research. This position allowed him to continue pursuing his chief interests: the study of immunosuppressive drugs and the development of mechanical devices to assist the failing heart. His position evolved, and in 1998, he became Associate Director of Cardiovascular Surgical And Transplant Research. In 2005, he was named Director of the Center for Cardiac Support. Through his research work, Brano made important contributions to the field of advanced heart failure. His early research in cutting-edge therapies for combating organ rejection was recognized nationally and internationally, and he helped maintain THI’s leadership role in cardiac transplantation. Through his research work, Brano made important contributions to the field of advanced heart failure. His early research in cutting-edge therapies for combating organ rejection was recognized nationally and internationally, and he helped maintain THI’s leadership role in cardiac transplantation.

Brano was highly respected by his colleagues worldwide. He frequently gave scientific presentations at conferences, and he wrote or contributed to nearly 300 publications. In addition to his many committee posts, he was an editorial board member of the International Society for Heart and Lung Transplantation. Every year, Brano organized what became known among leaders in the field of heart transplantation as the “Rodeo Meeting.” He managed to lure these leaders to Houston for open round-table sessions, just with the promise of tickets to the world-famous Livestock Show and Rodeo.
Besides his professional accomplishments, Brano had warmth and humanity that were deeply felt by all who knew and worked with him. He was a friendly, unassuming individual whose goal in life was to help others—family, colleagues, friends, and patients. His sincere compassion and concern for the patients who suffer from end-stage heart failure and for their families was exemplary. I personally found not only his capabilities but also his moral support invaluable during the difficult, early days of the renewed transplant program at THI.

After learning that his able Lieutenant General “Stonewall” Jackson had lost his left arm, General Robert E. Lee said, “He has lost his left arm, but I have lost my right arm.” Brano was truly the right arm of so many of our endeavors. We will sorely miss his companionship and support, and his warm smile, contagious laugh, and jaunty steps in the halls of the Texas Heart Institute.

O.H. Frazier, MD
Director, Cardiopulmonary Transplantation and Cardiovascular Surgical Research, Texas Heart Institute

During this year’s Brano Heart Failure Forum in Zagreb, a plaque will be placed on the house where Brano was born in the town of Osijek. Branislav ‘Brano’ Radovancevic was born on March 16, 1952 in Osijek, died in Houston September 15th, 2007 and as he wished was buried in his family cemetery plot in Osijek. During the 7th Annual Brano Heart Failure Forum in Opatija in 2014, colleagues and friends from Zagreb came up with the idea for the placement of a plaque. In agreement with the Mayor and City Council, this was recently finalized.
### Wednesday, September 5th

**Session 1**

**Cardiopulmonary Bypass and Circulatory Support Devices**

**Chair:** B. Biocina, I. Gregoric, B. Vrtovec

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.30-08.40</td>
<td>How to Set up a VAD Program, Role of the VAD Coordinator</td>
<td>V. Lauenroth, Bad Oeynhausen, DE</td>
<td>DE</td>
</tr>
<tr>
<td>08.40-08.50</td>
<td>Nurse's Role in Preparation for Implantation of the LVAD</td>
<td>M. Kokalovic, Zagreb, HR</td>
<td>HR</td>
</tr>
<tr>
<td>08.50-09.00</td>
<td>Regulation of Inflammatory Host Response During ECMO</td>
<td>P. Balboni, Milano, IT</td>
<td>IT</td>
</tr>
<tr>
<td>09.00-09.10</td>
<td>Quantification of Lipid and Leukocyte Filtration and the Effects on Cerebral and Renal Injury Markers and Pulmonary Function during CPB</td>
<td>R. Issitt, London, GB</td>
<td>GB</td>
</tr>
<tr>
<td>09.10-09.20</td>
<td>Citosorb Filters</td>
<td>S. Kulic, Belgrade, RS</td>
<td>RS</td>
</tr>
<tr>
<td>09.20-09.40</td>
<td>Discussion</td>
<td></td>
<td></td>
</tr>
<tr>
<td>09.40-09.55</td>
<td>Coffee Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Title</td>
<td>Speaker/Location</td>
</tr>
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</tr>
<tr>
<td>09.55-10.05</td>
<td>Session 2</td>
<td>Important Elements of a Successful ECMO Program</td>
<td>Chair: A. Wasler, M. Cikes, T. Schloglhofer, R. Vujaklija</td>
</tr>
<tr>
<td>09.55-10.05</td>
<td>ECMO Transport - Air and Ground</td>
<td>I. Banjac, Houston, US</td>
<td></td>
</tr>
<tr>
<td>10.05-10.15</td>
<td>ECMO: Anticoagulation Therapy</td>
<td>M. Petricevic, Zagreb, HR</td>
<td></td>
</tr>
<tr>
<td>10.15-10.25</td>
<td>Hydrodynamic Considerations of ECLS Pumps and Cannulae</td>
<td>Y. Ganushchack, Maastricht, NL</td>
<td></td>
</tr>
<tr>
<td>10.25-10.35</td>
<td>ECMO in Primary Graft Dysfunction - How Long?</td>
<td>R. Mrkonjic, Zagreb, HR</td>
<td></td>
</tr>
<tr>
<td>10.35-10.45</td>
<td>Lactate Metabolism During Veno-Arterial Extracorporeal Life Support</td>
<td>E. Kurniawati, Maastricht, NL</td>
<td></td>
</tr>
<tr>
<td>10.45-11.00</td>
<td>Discussion</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.30-13.30</td>
<td>Crystal Ballroom</td>
<td>30th Anniversary of Heart Transplantation and 10th Anniversary of Mechanical Circulatory Support Program in Croatia</td>
<td></td>
</tr>
<tr>
<td>13.30-14.00</td>
<td>Cocktail Lunch Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.00-16.10</td>
<td>Round Table</td>
<td>Update on Regional End Stage Heart Failure Programs</td>
<td>B. Biocina, I. Rudez, I. Knezevic, U. Livi, M. Ristic, S. Putnik, M. Bojic, Z. Szabolcs, H. Suci, G. Nachev, S. Prapas, Y. Pya, Z. Mitrev</td>
</tr>
<tr>
<td>14.00-14.05</td>
<td>University Hospital Center, Zagreb, Croatia</td>
<td>H. Gasparovic, Zagreb, HR</td>
<td></td>
</tr>
<tr>
<td>14.05-14.10</td>
<td>Discussion</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
14.10-14.15  Dubrava University Hospital, Zagreb, Croatia  
I. Rudez, Zagreb, HR

14.15-14.20  Discussion

14.20-14.25  Ljubljana University Medical Center, Ljubljana, Slovenia  
I. Knezevic, Ljubljana, SI

14.25-14.30  Discussion

14.30-14.35  S. Maria Della Misericordia Hospital, Udine, Italy  
U. Livi, Udine, IT

14.35-14.40  Discussion

14.40-14.45  Clinical Center of Serbia, Belgrade, Serbia  
S. Putnik, Belgrade, RS

14.45-14.50  Discussion

14.50-14.55  IKVB Dedinje, Belgrade, Serbia  
P. Vukovic, Belgrade, RS

14.55-15.00  Discussion

15.00-15.05  Semmelweis University, Budapest, Hungary  
Z. Szabolcs, Budapest, HU

15.05-15.10  Discussion

15.10-15.15  Tirgu Mures Institute for Cardiovascular Diseases and Transplantation,  
Tirgu Mures, Romania  
H. Suciu, Tirgu Mures, RO

15.15-15.20  Discussion

15.20-15.25  University Hospital “St. Ekaterina”, Sofia, Bulgaria  
G. Nachev, Sofia, BG
15.25-15.30  Discussion
15.30-15.35  Henry Dunant Hospital Center, Athens, Greece  
A. Visouli, Athens, GR
15.35-15.40  Discussion
15.40-15.45  JSC “National Research Center for Cardiac Surgery”, Astana, Kazakstan  
Y. Pya, Astana, KZ
15.45-15.50  Discussion
15.50-15.55  "Zan Mitrev" Clinic, Skopje, Macedonia  
Z. Mitrev, Skopje, MK
15.55-16.00  Discussion
16.00-16.10  Closing remarks

16.10-16.25  Coffee Break

Session 3  Maksimir, 16.00-17.15  
Important Elements of a Successful MCS Program
Chair: N. Uriel, E. Nestorovic, G. Poglajen, S. Kurtanjek-Gorupec

16.00-16.10  Implications of Caregiver Support in MCS  
S. Schettle, Rochester, US
16.10-16.20  INR Home Monitoring Algorithm  
K. Vandersmissen, Leuven, BE
16.20-16.30  LVAD Drive Line Infection: Assessment and Care  
H. Lazar, Houston, US
16.30-16.40  Driveline Management  
A. Hallberg Kristensen, Stockholm, SE
16.40-16.50  
**Continuous Antibiotic Prophylaxis in VAD Patients**  
*S. Kore, Manchester, GB*

16.50-17.00  
**Clinical Utility and Application of HVAD Waveforms and Log Files**  
*T. Schloglhofer, Vienna, AT*

17.00-17.15  
**Discussion**

17.15-17.30  
**Coffee Break**

| 17.30-17.40 | **Maksimir, 17.30-18.45**  
**Important Elements of a Successful Heart Failure Program**  
*Chair: I. Knezevic, L. Damme, A. Cerar, R. Radovancevic*

| 17.30-17.40 | **Advances in HF Treatments: Education for Staff**  
*M. Clark, Houston, US*

| 17.40-17.50 | **Education, Use of Algorithms, Standardization and Visibility for the Long Term MCS Patients**  
*D. Crnkovic, Zagreb, HR*

| 17.50-18.00 | **Challenges of Early Mobilization for Patients with Ventricular Assist Devices**  
*A. Kraljevic, Zagreb, HR*

| 18.00-18.10 | **Follow Up and Out-Patient Department for VAD Patients**  
*K. Nelson, Oklahoma City, US*

| 18.10-18.20 | **The Growing Need for Advanced Heart Failure Therapies**  
*T. Myers, Houston, US*

| 18.20-18.30 | **Limiting Cost of HF Treatment: How to Do It?**  
*T. Ivovic, Pleasanton, US*

| 18.30-18.45 | **Discussion**

| 20.00-22.00 | **Welcome Reception**
## MAIN PROGRAM

### Thursday, September 6th

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 08.15-08.30 | **Meeting Opening**  
* I. Gregoric, B. Biocina, B. Vrtovec, R. Radovancevic |
| 08.30-10.15 | **Session 1**  
**Plenary Session**  
* Panel: I. Gregoric, B. Biocina, B. Vrtovec |
| 08.30-08.40 | **MCS Program in Zagreb**  
* B. Biocina, Zagreb, HR |
| 08.40-08.50 | **Heart Transplantation in Zagreb**  
* D. Milicic, Zagreb, HR |
| 08.50-09.00 | **Selecting Patients for Advanced HF Treatments - Managing the Risk**  
* D. Taylor, Cleveland, USA |
| 09.00-09.10 | **Innovations in Heart Transplantation**  
* S. Hunt, Stanford, USA |
| 09.10-09.20 | **Total Artificial Heart - What is the Future? Update on BIVACOR**  
* O.H. Frazier, Houston, USA |
| 09.20-09.30 | **Standardization of LVAD Registries (STS/INTERMACS & IMACS platform)**  
* R. Kormos, Pittsburgh, USA |
| 09.30-10.00 | **Discussion** |
| 10.00-10.30 | **Coffee Break** |
Crystal Ballroom, 10.45-12.00

**Session 2**

**Hot Topics in Heart Failure**

*Moderator:* D. Taylor


10.30-10.40  **Bridge to Transplantation: European Perspective**  
_P. Mohacsi, Basel, CH_

10.40-10.50  **Revised UNOS Allocation Algorithm for Donor Hearts**  
_M. Johnson, Madison, US_

10.50-11.00  **Is There a Path Forward in Reducing the Impact of Strokes During MCS?**  
_J. Kirklin, Birmingham, US_

11.00-11.10  **Bleeding/Thrombosis: Better Outcomes with Protocol Compliance?**  
_I. Netuka, Prague, CZ_

11.10-11.20  **Do We Know Enough to Identify Potential Recovery Patients?**  
_E. Birks, Louisville, US_

11.20-11.30  **VAD Studies: A Look Backward to Move Forward**  
_L. Damme, Riga, Latvia_

11.30-12.00  **Discussion**

12.00-13.00  **Lunch Break**

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Crystal Ballroom, 13.00-14.30

**Session 3**

**Rapid Fire Session: Temporary MCS**

*Moderator:* B. Kar


13.00-13.05  **Cardiogenic Shock and Percutaneous MCS**  
_A. El-Banayosy, Oklahoma City, US_

13.05-13.15  **Panel Discussion**
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><em>S. McKellar, Salt Lake City, US</em></td>
</tr>
<tr>
<td>13.20-13.30</td>
<td>Panel Discussion</td>
</tr>
<tr>
<td>13.30-13.35</td>
<td>ECMO Support in Preventing Primary Graft Failure</td>
</tr>
<tr>
<td></td>
<td><em>I. Hartyanszky, Budapest, HU</em></td>
</tr>
<tr>
<td>13.35-13.45</td>
<td>Panel Discussion</td>
</tr>
<tr>
<td>13.45-13.50</td>
<td>Is Subclavian Approach Better for Pre-transplant MCS?</td>
</tr>
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<td><em>B. deMol, Amsterdam, NL</em></td>
</tr>
<tr>
<td>13.50-14.00</td>
<td>Panel Discussion</td>
</tr>
<tr>
<td>14.00-14.05</td>
<td>Molecular Biology and Outcomes in ECMO</td>
</tr>
<tr>
<td></td>
<td><em>D. Feldman, Minneapolis, US</em></td>
</tr>
<tr>
<td>14.05-14.15</td>
<td>Panel Discussion</td>
</tr>
<tr>
<td></td>
<td><strong>Session Wrap-up: Moderator (3 min)</strong></td>
</tr>
<tr>
<td>14.30-15.00</td>
<td><strong>Coffee Break</strong></td>
</tr>
</tbody>
</table>

**Session 4**

Crystal Ballroom, 15.00-16.30

**Rapid Fire Session: Challenges in Mechanical Circulatory Support**

*Moderator:* I. Gregoric  
*Panel:* E. Potapov, U. Jorde, J. Maly, G. Wieselthaler, I. Gosev, B. Sun, J. Lahpor, A.Wasler

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.00-15.05</td>
<td>HeartMate 3 vs. HVAD</td>
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<tr>
<td></td>
<td><em>E. Potapov, Berlin, DE</em></td>
</tr>
<tr>
<td>15.05-15.15</td>
<td>Panel Discussion</td>
</tr>
<tr>
<td>15.15-15.20</td>
<td>MCS Management: What Can We Improve Today?</td>
</tr>
<tr>
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<td><em>U. Jorde, New York, US</em></td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
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<tr>
<td>15.20-15.30</td>
<td>Panel Discussion</td>
</tr>
</tbody>
</table>
| 15.30-15.35 | TET - Ready Now?  
*J. Maly, Prague, CZ* |
| 15.35-15.45 | Panel Discussion                                                   |
| 15.45-15.50 | Apex, or Slightly Offset Anteriorly and Lateral?  
*G. Wieselthaler, San Francisco, US* |
| 15.50-16.00 | Panel Discussion                                                   |
| 16.00-16.05 | Complete Sternal Sparing HeartMate 3 Implantation-30 Consecutive Patients  
*I. Gosev, Rochester, US* |
| 16.05-16.15 | Panel Discussion                                                   |
| 16.15-16.20 | HeartMate 3 Off-Pump Implantation  
*B. Sun, Columbus, US* |
| 16.20-16.30 | Panel Discussion                                                   |
| 16.30-16.30 | Session Wrap-up: Moderator (3 min)                                  |
| 16.30-17.00 | Coffee Break                                                       |

**Session 5**

Crystal Ballroom, 17.00-18.30  
**Rapid Fire Session: LVAD Complications**

*Moderator:* U. Jorde  

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 17.00-17.05 | GI Bleeding: Time to Give Up?  
*M. Strueber, Newark, US* |
| 17.05-17.15 | Panel Discussion                                                   |
17.15-17.20  LVAD Outflow Graft Stenosis or Obstruction  
  M. Guglin, Lexington, US

17.20-17.30  Panel Discussion

17.30-17.35  Pump Thrombosis: Complication of the Past?  
  S. Boyce, Washington, US

17.35-17.45  Panel Discussion

17.45-17.50  De Novo Aortic Regurgitation After Continuous-Flow LVAD Implantation  
  H. Gasparovic, Zagreb, HR

17.50-18.00  Panel Discussion

18.00-18.05  Percutaneous Support Options for Acute Mitral Regurgitation: TandemHeart, Impella, or ECMO?  
  M. Zucker, Newark, US

18.05-18.15  Panel Discussion

18.15-18.20  Do We Need to Complicate LVAD Implantation by Treating Valve Issues?  
  W. Dembitsky, San Diego, US

18.20-18.30  Panel Discussion
  Session Wrap-up: Moderator (3 min)
### Session 6

**Challenges in Heart Failure Interventions**  
*Chairs: H. Eisen, U. Lonn, P. Przybylowsky, S. Schueler, G. Zemljic*

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Speaker</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.30-08.40</td>
<td><em>Is ICD Therapy Beneficial in LVAD Patients?</em></td>
<td>M. Cikes, Zagreb, HR</td>
<td></td>
</tr>
<tr>
<td>08.40-08.50</td>
<td><em>TAVI in Heart Failure</em></td>
<td>J. Diez, Houston, US</td>
<td></td>
</tr>
<tr>
<td>08.50-09.00</td>
<td><em>Percutaneous Mitral Valve Interventions in Structural Heart Disease</em></td>
<td>J. Baranowski, Linkoping, SE</td>
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<tr>
<td>09.00-09.10</td>
<td><em>Drug Eluting Balloons for Cardiac Allograft Vasculopathy</em></td>
<td>D. Milicic, Zagreb, HR</td>
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<tr>
<td>09.10-09.20</td>
<td><em>PCI vs CABG for Heart Transplant Vasculopathy</em></td>
<td>A. Boyle, Philadelphia, US</td>
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<tr>
<td>09.20-09.30</td>
<td><em>Personalized External Aortic Root Support (PEARS)</em></td>
<td>J. Pirk, Prague, CZ</td>
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<tr>
<td>09.30-10.00</td>
<td><em>Panel Discussion</em></td>
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**Coffee Break**

### Session 7

**Rapid Fire Session: Mechanical Circulatory Support/Replacement Devices**  
*Moderator: R. Kormos*  
*Panel: G. Couper, V. Jeevanandam, S. Schueler, Y. Pya, A. Fiane, N. Uriel, S. McKellar*

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<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Speaker</th>
<th>Location</th>
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<tbody>
<tr>
<td>10.15-10.20</td>
<td><em>Percutaneous Right Ventricle Support</em></td>
<td>G. Couper, Boston, US</td>
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<td>Time</td>
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<tr>
<td>10.20-10.30</td>
<td>Panel Discussion</td>
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<td>10.30-10.35</td>
<td>Ambulatory Mechanical Circulatory Assist System</td>
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<td><em>V. Jeevanandam, Chicago, US</em></td>
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<tr>
<td>10.35-10.45</td>
<td>Panel Discussion</td>
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<td>10.45-10.50</td>
<td>MVAD Experience</td>
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<td><em>S. Schueler, Newcastle, GB</em></td>
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<tr>
<td>10.50-11.00</td>
<td>Panel Discussion</td>
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<td>11.00-11.05</td>
<td>Carmat: New Approach to Biventricular Pulsatile Support</td>
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<td><em>Y. Pya, Astana, KZ</em></td>
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<td>11.05-11.15</td>
<td>Panel Discussion</td>
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<td>11.15-11.20</td>
<td>PulseVAD - a New Treatment for Patients with HFpEF</td>
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<td><em>A. Fiane, Oslo, NO</em></td>
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<tr>
<td>11.20-11.30</td>
<td>Panel Discussion</td>
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<td>11.30-11.35</td>
<td>Smart Pump</td>
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<td><em>N. Uriel, Chicago, US</em></td>
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<td>11.35-11.45</td>
<td>Panel Discussion</td>
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<td></td>
<td>Session Wrap-up: Moderator (3 min)</td>
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<td>12.00-13.00</td>
<td>Lunch Break</td>
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**Session 8**
Crystal Ballroom, 13.00-14.30  
**Symposium: Novel Technologies**  
*Chairs: I. Gregoric, J. Long, J. Stehlik*

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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>13.00-13.10</td>
<td>CARMAT Update</td>
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<td><em>P. Jansen</em></td>
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13.10-13.20  Medtronic MCS  
   T. Vassiliades

13.20-13.30  Abbott Update  
   M. Strong

13.30-13.40  SynCardia Update  
   M. Garippa

13.40-13.50  CryoLife

13.50-14.30  Discussion

14.30-14.45  Coffee Break

Session 9  
Crystal Ballroom, 14.45-16.30  
**Challenges in Heart Transplantation**  
*Moderator:* J. Kobashigawa  
*Panel:* A. Zuckermann, J. Stehlik, S. Silvestry, D. Vega, M. Pham, L. Potena, H. Eisen, I. Knezevic, S. Putnik

14.45-14.50  Matching the Donor and the Recipient for the Best Outcomes  
   A. Zuckermann, Vienna, AT

14.50-15.00  Panel Discussion

15.00-15.05  Donor Drug Overdose and Thoracic Transplant – Is It Safe?  
   J. Stehlik, Salt Lake City, US

15.05-15.15  Panel Discussion

15.15-15.20  Donor After Circulatory Death - Can We Do It in the USA?  
   S. Silvestry, Weston, US

15.20-15.30  Panel Discussion
15.30-15.35  Early Graft Failure  
_D. Vega, Atlanta, US_  

15.35-15.45  Panel Discussion  

15.45-15.50  Histocompatibility - Monitoring Antibody Mediated Rejection in HT  
_M. Pham, San Francisco, US_  

15.50-16.00  Panel Discussion  

16.00-16.05  Managing Antibodies Pre and Post Transplant: A Patient Journey  
_L. Potena, Bologna, IT_  

16.05-16.15  Panel Discussion  

16.15-16.20  Cardiac Allograft Vasculopathy  
_H. Eisen, Philadelphia, US_  

16.20-16.30  Panel Discussion  
_Session Wrap-up: Moderator (3 min)_  

16.30-16.45  Coffee Break  

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**Session 10**  
_Crystal Ballroom, 16.45-18.00_  

**Challenges in Heart Failure**  

16.45-16.55  Biomarkers in the Management of Heart Transplant Patients  
_K. Khush, Stanford, US_  

16.55-17.05  Myocarditis, Sarcoidosis and Amyloidosis in Advanced Heart Failure Patients  
_M. Buja, Houston, US_  

17.05-17.15  Heart Failure: Low EF; Mid Range EF; Preserved EF  
_T. Povsic, Durham, US_
<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>17.15-17.25</td>
<td><strong>Cancer Treatment and Heart Failure</strong> &lt;br&gt; <em>A. Segura, Houston, US</em></td>
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<tr>
<td>17.25-17.35</td>
<td><strong>Pipeline Drug Therapies for the Treatment of Patients with Heart Failure</strong> &lt;br&gt; <em>P. Weeks, Houston, US</em></td>
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<tr>
<td>17.35-18.00</td>
<td><strong>Discussion</strong></td>
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<tr>
<td>20.00-20.30</td>
<td><strong>Get Together Dinner</strong></td>
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</table>
Saturday, September 8th

Session 11

Crystal Ballroom, 8.30-9.45
Challenges in Heart Failure Management
Chairs: B. deMol, J. Maly, A. Bracey, G. Al-Dossari

08.30-08.40  Critical Care Management of HF Patients: Pulmonologist View
R. Hussain, Houston, US

08.40-08.50  Perioperative Anticoagulation Management in HIT Positive LVAD Candidates
M. Ranucci, Milan, IT

08.50-09.00  ECMO Appropriateness
F. Arabia, Phoenix, US

09.00-09.10  Exercise Intolerance in MCS
S. Joseph, Dallas, US

09.10-09.20  LVAD Exchange for Severe and Persistent Infection
Z. Sutlic, Zagreb, HR

09.20-09.45  Discussion

09:45-10.00  Coffee Break

Session 12

Crystal Ballroom, 10:00-11.00
Future Technologies
Moderator: J. Kirklin
Panel: B. Biocina, S. Hunt, OH Frazier, D. Taylor, I. Gregoric

10.00-10.10  Will Devices Replace Transplantations?
J. Long, Oklahoma City, US

10.10-10.20  Novel Immunotherapies in Heart Transplantation
J. Kobashigawa, Los Angeles, US
<table>
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<tr>
<th>Time</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>10.20-10.30</td>
<td>New Pharmacological Treatments in Heart Failure Will Make MCS &amp; HT Obsolete</td>
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<td>G. Torre-Amione, Houston, US</td>
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<tr>
<td>10.30-10.40</td>
<td>Will Regenerative Medicine Replace the Replacement of the Heart?</td>
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<td>B. Vrtovec, Ljubljana, SI</td>
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<tr>
<td>10.40-11.00</td>
<td>Discussion</td>
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<tr>
<td>11.00-12.00</td>
<td>Closing Remarks and Meeting Adjournment</td>
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A great surgical achievement of the modern age is the combination of improved lighting, visualization through the surgical microscope, and computer assisted navigation now used in the O.R., that opened up new horizons in surgical therapy. Minimally invasive methods have progressed tremendously in the last decade, assuming that they yet can maintain or even exceed the long term results of proven conventional procedures.
EXHIBITORS' LIST:
1. ABBOTT
2. BBRAUN
3. MARK MEDICAL
4. CARDIOMEDICAL
5. MEDIS ADRIA
6. TIPEX
7. MAC'S MEDICAL GROUP
8. BIOMEDICA
9. BOSTON MEDICAL
10. MEDTRONIC

EXHIBITION FLOOR PLAN
SOCIAL PROGRAMME

Wednesday, 5 September, 2018

20:00-22:00 Welcome Reception

Palace Dverce, Zagreb's Upper City

Friday, 7 September, 2018

20:00-24:00 Get Together Evening

Opera Hall, hotel Westin
GENERAL INFORMATION

Forum Venue

Hotel Westin Zagreb
Ulica Izidora Kršnjavoga 1 | 10 000 Zagreb | Croatia

The Westin Zagreb Hotel is centrally located in the very heart of Zagreb. The hotel is situated in a leafy green area adjacent to the Mimara Museum and the world famous National Theatre and Opera House, and is within easy walking distance to the central square, markets, the many trendy cafés, restaurants, designer boutiques, rich cultural attractions and capital city business destinations. Recognised for offering discreet surroundings and professional, caring service, The Westin Zagreb is a regular host to high profile local, national and international events. It has been the favourite home-away-from-home for visiting royalty, world leaders, international dignitaries and other travellers seeking the calm comfort of a modern luxury hotel.

Zagreb attractions

The Mirogoj cemetery: 4.9 km / 3 miles
The Maksimir park: 4.4 km / 2.7 miles
Bana Josipa Jelačića square: 1.2 km / 0.7 miles
The Zagreb cathedral: 1.6 km / 1 mile
Zagreb transportation

Zagreb International airport: 17.4 km / 10.8 miles
Zagreb train station: 1.2 km / 0.7 miles
Zagreb bus station: 2.5 km / 1.6 miles
The Zagreb fair: 5.1 km / 3.2 miles

Public transport

The tram stop is right in front of the Hotel and the tram is the main means of public transport towards and from the city centre. Trams no. 12, 13, 14 and 17 will take you to the hotel. Get off at the Vodnikova ulica (Vodnikova Street) stop.

PCO Professional Congress Organizer

Spektar putovanja d.o.o.
Ullica A. Hebranga 34 | 10 000 Zagreb | Croatia
Tel: 00 385 1 4862 607 | Fax: 00 385 1 4862 622
E-mail jelena@spektar-holidays.hr

Official Language

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

Registration & Information Desk

Westin hotel
Wednesday, 5 September, 07:00-19:00
Thursday, 6 September, 07:00-18:30
Friday, 7 September, 07:30-18:00
Saturday, 8 September, 07:30-12:00
Name Badge

Each participant will receive a name badge at the registration desk. The badge will be the official meeting document and should be worn at all times in order to gain entry into meeting rooms and the exhibition area. Access will not be possible into any of the Forum’s official areas without the official badge. For forgotten badges, a day pass for 80,00 € will be issued. Lost badge will be reissued for a handling and production fee of 80,00 €.

Lunch and coffee break services will only be served to delegate with name badge.

Certificate Of Attendance

Certificate of Attendance will be issued to all registered participants.

Presentation Guidelines

Speaker Preparation Desk
Speakers Preparation Desk is located next to the main congress hall. All speakers are requested to come to the Speaker Preparation Desk at least 2 hours in advance of their presentations to verify if the data functions properly on the equipment provided.

Speakers will use PowerPoint presentations. All presentations will be loaded onto a server (At the Speaker Preparation Desk) and distributed to an appropriate session room at an appropriate time via a LAN.

All speakers are kindly requested to declare if they have / do not have potential conflict of interest at the beginning of their presentations.

The authors are personally and professionally responsible for the contents and the attitude expressed in their presentations.

Wednesday, 5 September ..................... 07:00-19:00
Thursday, 6 September ....................... 07:00-18:30
Friday, 7 September ........................... 07:30-18:00
Saturday, 8 September ....................... 07:30-12:00

Exhibition

Throughout the Brano Forum, there will be an exhibition of medical equipment, pharmaceutical products and programs.
Exhibition Opening Hours

Wednesday, 5 September ......................... 08:00-19:00
Thursday, 6 September .......................... 08:00-19:00
Friday, 7 September .............................. 08:00-18:30
Saturday, 8 September ......................... 08:00-12:00

Catering Points

For coffee break and lunch times, please see daily program schedule.

Mobile Phones / Audio & Video

Use of mobile phones as well as audio & video recording is strictly prohibited within the scientific session rooms. Please ensure you have your mobile phone switched off when attending a session.

Smoking

the 11th Annual "Brano" Radovancevic Heart Failure Forum is a non smoking event.

Insurance

The organizers cannot accept any liability for personal injuries or for loss or damage to property belonging to meeting participants, either during, or as a result of the meeting. Please check the validity of your personal insurance.

Internet Access

Internet connections are available in hotel via wireless or dial-up network - please contact the reception desk of the hotel for Internet access upon arrival.
Hotel Westin Zagreb has wireless connections on all public areas within the premises, and in addition internet cafe.
USEFUL INFORMATION

About Zagreb

The city of Zagreb, capital of Croatia, on the historic and political threshold between East and West, illustrates both the continental and Mediterranean spirit of the nation it spearheads. Zagreb is the cultural, scientific, economic, political and administrative centre of the Republic of Croatia, and is home to the Croatian Parliament, Government and President. Its favourable location between the Pannonian plain, the edge of the Alps and the Dinaric range has allowed it to become a crossing point for mass international communication. The city is protected from the cold northern winds by the mountain of Medvednica and opens up to the rest of the world thanks to a spacious plain and the Sava river. Zagreb, with a population of nearly one million, contains almost a quarter of the entire population of Croatia. Over the centuries, the city was inhabited by people coming from all over Europe; and, in recent years, by people coming from different parts of Croatia, ensuring a rich cultural life. Zagreb is a safe city whose doors are always open; a city with a tumultuous history teeming with interesting personalities; a city that warmly invites all those who wish to get to know it, and a city that will surely fulfill your expectations. In this city, you can easily meet remarkable people, make new friends and enjoy special moments. The façades of Zagreb's buildings reflect the ebb and flow of history, while its streets and squares bear witness to the coming together of the many cultures that have shaped the identity of this laid-back

www.brano-zagreb2018.org
capital. The best thing to do is when you first arrive is to take in Zagreb's wonderful atmosphere, which, as many claim, is only surpassed by the legendary beauty of the local womenfolk. If you want to go sightseeing through the centre of Zagreb and its historical part, we recommend you a tram ride to the main city square, only 10 minutes away from the hotel. Walking towards the city centre, you will walk past the Croatian National Theatre – a stunning neo-Baroque beauty - and many other notable buildings around. You will be surrounded by greenery of the central city parks that together from the so-called Lenuci’s Horseshoe – the most beautiful and valuable park heritage at the very heart of Zagreb. After a long day of sightseeing, you should definitely sit down for a coffee or tea in the most famous Zagreb street Tkalčićeva ulica (popularly called Tkalča) or at the trendy meeting point of Zagreb celebrities who have made it a tradition to drink their Saturday morning coffees in Bogovićeva ulica – popularly called "zagrebačka špica".

Croatia

As you put on your tie before a business meeting or a theatre performance, as you write with your ballpoint 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 receiv-
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.

**Currency & Exchange**

The basic Croatian currency unit is the kuna, made up of 100 lipa. Foreign currency can be exchanged for local money at banks, post offices, hotel’s receptions and exchange offices, according to the valid rates of exchange. Visit the exchange office on the Web for valid exchange rates.

**Credit Cards**

All major credit cards are normally accepted throughout Croatia, as advertised at points of sale, such as: American Express, Diners Club, Euro Card/Master Card, Visa, JCB, and Eurocheques. Traveler’s Cheques are also accepted.

**Customs**

Customs Administration of the Republic of Croatia: www.carina.hr

**Electricity**

In Croatia Electricity is supplied at 220V, 50Mz. For some devices from countries abroad converters will be needed.
Climate & Clothing

The Croatian interior, which includes Zagreb and Slavonia, is separated from the coast by the Dinaric Mountains and has a completely different climate. Winters get cold, with the mean temperature in January ranging from 0°C to -2°C. In July, the mean is approximately 22°C although strong heat waves have become more frequent. The average max/ high temperature in September is 22 °C (77 °F)

Opening Hours

Banks and post offices are normally open from 7:00 or 7:30 a.m. to 7:00 or 8:00 p.m. Non-Governmental offices work from 8:30 a.m. to 5:00 p.m., Monday to Friday. Most grocery stores and department stores are open non-stop, from 6:00 or 7:30 a.m. to 7:30 or 8:00 p.m.

Transport

Zagreb Taxi : + 385 1717
Airport Zagreb: (+ / 00 385) (01) 456 2222 / (+ / 00 385) (01) 626 5222
CROATIA AIRLINES - Zagreb: (+ / 00 385) (01) 616 0066 / (+ / 00 385) (01) 481 9633
   Information phone: 0800 7777, (01) 481 9633
   Reservation phone: (062) 777 777, (01) 487 2727

Tax Free

Foreigners (Non EU Residents) can claim a sales tax refund within one year for purchased goods. Don’t forget to ask the salesman to fill out the tax refund form when purchasing goods.

Time Zone

Central European Time (CET). Local time in September is UCT/GMT + 2

Smoking Policy

Smoking is not allowed in hotel’s public areas and restaurants.
Water

Tap water is drinkable in all parts of Croatia.

Emergency And First Aid

In case of emergency, please contact the information desk at the ground floor or call (+385) 112-
GSM OPERATORS

Currently there are five GSM operators offering the GSM service in Croatia.
T-Mobile operating under +385 98 xxxxxx and +385 99 xxxxxx.
VIPnet operating under +385 91 xxxxxx.
TELE2 operating under +385 95 xxxxxx.
Tomato operating under +385 92 xxxxxx.
Bonbon operating under +385 97 xxxxxx.
Please contact your local GSM operator to check the availability and the costs of roaming services.

Useful Telephone Numbers

Country code: (+/00) 385
Area code (Zagreb): (0) 1
Police: 192
Fire-fighting center: 193
Emergency: 194
Time check: 18095
Information local calls: 18981
General information service: 18981
Information national and international calls: 11802
Wake-up calls: 18100
Roadside vehicle assistance: 1987
Weather forecast: 18166

Telephone

Public telephone boxes accept only phone cards available from newspaper stands and post offices.
OUR HISTORY
Jarvik Heart Inc. has been providing Jarvik 2000® VADs for over 15 years and has, over time, made changes and modifications to enhance and improve clinical performance. This performance has led to clinical acceptance, with growing and respectable market share, in the countries around the world where the systems are available: Croatia, Czech Republic, France, Germany, Hungary, Greece, Italy, Spain, Switzerland, United Kingdom and Japan.

OUR FUTURE
The Jarvik 2000® is in a clinical trial in the USA and is being introduced into new countries in 2018. With BTT and DT approval in Europe since 2005 and Japanese Shonin in 2013, we look forward to continued growth worldwide.

The Jarvik 15mm is the latest innovation entering clinical trials, initially in the USA and then Europe, for infants and children. This new pump represents over 10 years of development and testing.

Versatile
- Ascending or descending aorta
- On or off CPB
- Sternotomy or thoracotomy

Capable
Up to 8.5 liters per minute of flow.

Practical
Unique controller and driveline enables the best possible quality of life and lowest infection risk.
That’s why.

HLM. 40 YEARS OF LEADERSHIP. MORE YEARS FOR NEW GOALS.

After more than ten years of clinical use, S5 has set new standards of functionality, safety, and modularity in cardiopulmonary by-pass operations.

As a pivotal point of the HeartLink System, it protects patients from neurological damage, offering clinicians advanced technological solutions.

With its high degree of customization, S5 is the world’s leading Heart-Lung Machine.
EXTEND YOUR REACH

Only we offer the surgical versatility and the tools to help you treat more patients

HeartWare™ HVAD™ System Approved for both Thorocotomy and Sternotomy

Brief Statement: HeartWare™ HVAD™ System
The HeartWare HVAD System is indicated for hemodynamic support in patients with advanced, refractory left ventricular heart failure; either as a Bridge to Cardiac Transplantation (BTT), myocardial recovery, or as Destination Therapy (DT) in patients for whom subsequent transplantation is not planned.

Contraindications
The HeartWare System is contraindicated in patients who cannot tolerate anticoagulation therapy. Refer to the “Instructions for Use” for detailed information regarding the implant procedure, indications, contraindications, warnings, precautions, and potential adverse events prior to using this device. The IFU can be found at www.heartware.com/clinicians/instructions-use.

Caution: Federal law (USA) restricts these devices to sale by or on the order of a physician.

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