

V International Conference
MINIMALLY INVASIVE CARDIAC SURGERY AND
SURGICAL ARITHMOLOGY [AMICS 2019]
dedicated to the 75th Anniversary of the A.V. Vishnevsky
National Medical Research Center of Surgery

PROGRAM INFORMATION

November 14-16, 2019, Moscow

Venue:

National Medical Research Center Vishnevsky Institute of Surgery Ministry of Health of Russian Federation Moscow, Bolshaya Serpukhovskaya, 27

Thursday, November 14, 2019

08.30 – 09.00 Registration of the participants

09.00 - 10.00 Opening of the conference

Opening remarks:

- V.I. Skvortsova, Minister of Health of the Russian Federation
- A.Sh. Revishvili, Director of the National Vishnevsky Institute of Surgery
- James Cox, Past-president American Association for Thoracic Surgery (AATS),
- Vaughn Starnes, President of the American Association for Thoracic Surgery (AATS).

09.30 - 09.40 Live case discussion

09.00 – 14.00 Live cases (broadcasting from the operating room)

- Endoscopically Assisted Minimally Invasive Coronary Bypass Surgery-EndoCABG
- Catheter ablation of atrial fibrillation

Session I

Innovation and Translational Medicine in Cardiac Surgery

09.40 - 11.40

Moderators: A.Sh. Revishvili, James Cox

Presentations:

1. Amiram Revishvili “Catheter and Surgical Therapies for Heart Rhythm Disorders: Innovation, Technology, Development” - 20 min
2. James Cox “Anatomy Pertinent to the Surgical Treatment of Atrial Fibrillation” - 20 min
3. Yngvil Thomas “Brave New World: The Promise of Artificial Intelligence in Cardiovascular Disease”- 20 min
4. Randolph Chitwood “Robotic Technology in Cardiac Surgery: A Historical Perspective”-20 min
5. Brigitte Osswald “Lead Extraction – Different Tolls and Results with Special Emphasis on the Gallery Trial” – 20 min

Basic Science Lecture

Axel Haverich “Pathogenesis of Atherosclerosis - Implications for Surgical Techniques” - 20 min

Discussion – 15 min

Session II

Imaging in Cardiology and Cardiac Surgery

12.30 – 13.30

Moderators Bagrat Alekyan, Grigory Karmazanovsky, Thor Edvardsen, Olga Kislitsina

Presentations:

1. Thor Edvardsen “Imaging of the Cardiovascular System: what we have achieved” - 20 min
2. Bagrat Alekyan, Narek Karapetyan “Functional imaging in coronary disease” 15 min
3. Grigory Karmazanovsky “New methods of CT and MRI for Heart Rhythm Disorders” - 15 min

15 minutes discussion

13.30 – 14.00 LUNCH

14.00 - 14.10 Live case discussion

14.00 – 18.00 Live cases (broadcasting from the operating room)

- Reconstructive aortic root surgery
- Transcatheter aortic valve implantation

Session III

Persistent Atrial Fibrillation: Clinical Scenarios and Perspectives

14.10 – 16.00

Moderators: Amiran Revishvili A.Sh., Artyukhina E.A., James Cox, Piotr Suwalsky

Presentations:

1. James Thomas "Assessment of Atrial Function Before and After Treatment for Atrial Fibrillation" - 20 min
2. Alexander Romanov "Strategy of Catheter ablation for persistent atrial fibrillation" - 15 min
3. Yury Schneider, Pavel Shilenko "Thoracoscopic Epicardial Left Atrial ablation in the Treatment of Atrial Fibrillation" - 10 min
4. Dmitry Cherkashin "Is the Catheter Ablation for Atrial Fibrillation without Fluoroscopy the Future of Electrophysiology?" -10 min
5. Piotr Suwalsky "A Hybrid Approach to Arrhythmias" - 15 min
6. Farhad Rzayev "Role of Cryoablation in the Treatment of Persistent Atrial Fibrillation" - 10 min
7. Dmitry Lebedev "Implantable Devices and Atrial fibrillation - a Modern View" - 10 min

15 minutes discussion

Session IV

Technologies and Perspectives of Concomitant AF Surgery

16.00 – 18.30

Moderators: Amiran Revishvili, James Cox, Piotr Suwalsky

Presentations:

1. James Cox "Surgical Treating Concomitant Atrial Fibrillation" -20 min
2. Patrick McCarthy «Why and How to Efficiently add Concomitant AF Ablation to CABG, MVR, and AVR Procedures» - 15 min
3. Alexander Bogachev-Prokofiev "Surgical Ablation with Various Energy Sources in Open Heart Surgery" - 15 min
4. Yury Schneider, Gennady Antipov "Left atrial or Batrial ablation in concomitant cardiac surgery ?" -15 min
5. Piotr Suwalski " Left Atrial Appendage Closure in Different Scenarios " -

20 min

6. Vadim Popov “Is it possible to prevent atrial fibrillation after CABG?” - 15 min
7. Vladimir Evtushenko “ « Efficacy of autonomic denervation for treatment of atrial fibrillation”
8. Elena Artyukhina "Catheter Ablation for Arrhythmias after Surgical Treatment of Atrial Fibrillation" -15 min

15 minutes discussion

Friday, November 15, 2019

09.00 - 09.10 Live case discussion

9.10 – 14.00 Live cases (broadcasting from the operating room)

Endoscopic aortic valve replacement

Session V

Anesthesiology, cardiopulmonary bypass and intensive care

09.10 – 11.30

Moderators: Igor Kozlov, Lev Krichevsky, Joel Dunning

1. Joel Dunning “STS / EACTS guidelines on resuscitation after cardiac surgery” - 15 min
2. Igor Kozlov "The Value of Natriuretic Peptides Monitoring in Cardiac Surgery" - 15 min
3. Dmitry Shukevich “The Role of Extracorporeal Detoxification Methods in Intensive Care after Cardiac Surgery: what, when and how much?” - 15 min.
4. Yury Schneider, Pavel Shilenko “MiECC Technologies in the Federal Center” - 15 min
5. Lev Krichevsky “Transesophageal Echocardiography in Cardiac Anesthesiology in Russia” - 15 min
6. Alexander Medvedev, Anton Maksimov "Massive Pulmonary Embolism: Risk Stratification and Treatment"- 10 min
7. Vladimir Pichugin, Anton Maksimov “NO for the Prevention of Heart and Lung injuries during CPB in high-risk patients” - 10 min

15 minutes discussion

Session VI

Technologies and Innovation for Surgery of Critical Heart Failure

11.30 – 13.30

Moderators: Sergei Gauthier, Yury Ostrovsky, Thor Edvardsen

Presentations:

1. Thor Edvardsen " Up to date assessment of LV function - ejection fraction is not enough" - 20 min
2. Sergey Gauthier "Heart transplantation in the 21st century" - 20 min
3. Yury Ostrovsky "Heart transplantation. Problems and perspectives"- 15 min
4. Michail Gordeev "Mechanical assist device: evolution and revolution" - 15 min
5. Eduard Idov "Cardiac Resynchronization Therapy for the Treatment of the Heart Failure " -15 min
6. Oleg Sapelnikov "Modulation of contractility for the Treatment of Heart Failure. Expectations and Reality" - 10 min

15 minutes discussion

13.30 – 14.00 LUNCH

14.00 - 14.10 Live case discussion

14.00 – 18.30 Live cases (broadcasting from the operating room)

Mitral Valve Reconstruction

Session VII

Challenges in Myocardial Revascularization

14.10 – 16.30

Moderators:

Presentations: Yury Schneider, Vadim Popov, Sergei Kovalev, Andrei Shiryaev,.

1. Olga Kislitsina "Preoperative Atrial Strain Measurements that Predict Postoperative AF following CABG" - 15 min
2. Joel Dunning "REACT course: resuscitation and acute emergencies in the Cath.lab" - 15 min
3. Sergei Kovalev "High-risk CABG " - 10 min
4. Andrei Shiryaev A.A. "CABG with calcified target coronary arteries" - 15 min
5. Evgeny Rosseykin "New Trends in Coronary Surgery" - 15 min

6. Yury Schneider, Tsoi V.G. "Total arterial coronary bypass in patients with multivessel disease" – 15 min
7. Vadim Popov "Anticoagulation and Bleeding in the Coronary Surgery" - 15 min
8. Vladislav Vasiliev "CABG for Coronary Arteries <1.5 mm: Flowmetry and Graft Patency" - 10 min

Session VIII

Minimally invasive Technologies for CABG

16.30 – 18.30

Moderators: Igor Zhbanov, Vadim Popov, Yilmaz Alaaddin, Piroze Davierwala

1. Yuty Schneider, Victor "Hybrid Coronary Revascularization" - 15 min
2. Zhbanov I.V. "Minimally Invasive Coronary Revascularization: criteria, necessity and feasibility"
3. Piroze Davierwala "Minimally invasive CABG with Bilateral internal Thoracic arteries" - 15 min
4. Alexander Chernyavsky, Dmitry Sirota "Minimally Invasive Coronary Bypass Grafting from Thoracotomy" - 10 min
5. Yilmaz Alaaddin "EndoCABG" - 15 min
6. Michail Ryazanov, Anton Maksimov "MIDCAB or PCI in Single LAD Lesion: do we need a new study?" - 10 min

15 minutes discussion

Saturday, November 16, 2019

09.00 - 9.10 Live case discussion

09.00 – 14.00 Live cases (broadcasting from the operating room)

Mitral valve reconstruction

Session IX

Surgery of Structural Heart Diseases

09.10 – 10.30

Moderators: Bogachev-Prokofiev A.V., Ottavio Alfieri, Greg Scalia

1. Greg Scalia "Echocardiography for Percutaneous Mitral Repair / Replacement" - 15 min
2. Ottavio Alfieri MD "Perspectives in Percutaneous and Surgical Treatment of Heart Valve Disease" - 15 min
3. Andrey Voevodin "Transcatheter heart valve with PTFE leaflets" - 10 min

4. Alexey Komlev "Conduction Disorders after Transcatheter Aortic Valve implantation" - 10 min
5. Alexander Bogachev-Prokofiev "Surgical Treatment of Obstructive Hypertrophic Cardiomyopathy: should we treat the mitral valve?" - 15 min
6. Alexey Evtushenko "Combined surgical Treatment of Left Outflow Obstruction in Patients with Hypertrophic Cardiomyopathy" - 15 min
7. Artemiy Okhotin "Adhesive Pericarditis - a forgotten disease" - 15 min

15 minutes discussion

Session X

Reconstructive surgery of atrioventricular valves

10.30 – 12.30

Moderators: A.Sh. Revishvili, Vaughn Starnes, Patrick M. McCarthy, Randolph Chitwood,

Presidential Lecture

- Vaughn Starnes "Updates on Neonatal Ebstein's Anomaly Procedure" - 20 min

1. James Thomas "Quantification of Valvular Regurgitation" - 15 min
2. Patrick M. McCarthy "Early and Late Results of a Quantitative Approach to Degenerative Mitral Valve Repair" - 15 min
3. Ottavio Alfieri "Dilemmas in Managing Tricuspid Regurgitation" - 15 min
4. Randolph Chitwood "Cardiac Valve Surgery. Sternotomy or Minimally Invasive Thoracotomy?" - 15 min
5. Alexander Bogachev-Prokofiev "Does the Atrial Left Reduction Affect the Ablation Efficacy During Concomitant Mitral Valve Surgery in Patients with Atriomegaly?" - 15 min
6. Olga Kislitsina "Preoperative Strain Measurements that Predict Late AF following MV Repair for Degenerative Mitral Regurgitation" - 10 min
7. Dmitry Tungusov "Endoscopically Assisted Minimally Invasive Mitral Valve Surgery" - 10 min

12.30 – 13.00 LUNCH

Session XI

Aortic valve surgery

13.00 – 14.30

Moderators: Vlad Bazylev , Marc Moon, Yilmaz Alaaddin , Thor Edvardsen,

1. Thor Edvardsen "Is it time to re-define when to do an AVR for aortic stenosis?" - 15 min
2. Greg Scalia "Poor Long-Term Survival in Patients With Moderate Aortic Stenosis" - 15 min
3. Marc Moon "Aortic Valve Repair: Anatomic and Functional Considerations" - 15 min
4. Bazylev V.V. "Is Ozaki Surgery Indicated for All Patients with Aortic Valve Diseases?" 15 min
5. Yilmaz Alaaddin «Endoscopic AVR» - 15 min
6. Alexey Evtushenko "Tissue valve for narrow aorta: the first clinical experience with the new self-expandable bioprosthesis - TIARA" - 10 min

15 minutes discussion

Session XII

Reconstructive Aortic Root Surgery

14.30 – 16.00

Moderators: Kirill Barbuhatti, Igor Chernov, Vaughn Starnes, Konstadinos Plestis

1. Vaughn Starnes "Current Indications for the Ross Procedure" -15 min
2. Igor Chernov "Improved modifications to Ross procedure" - 10 min
3. Kirill Barbuhatti "New methods in valve-sparing aortic root surgery" - 15 min
4. Alexander Chernyavsky, Dmitry Sirota "Long-term results of David procedure" - 15 min
5. Roman Komarov "Possibilities of aortic root reconstructive surgery" - 15 min
6. Konstadinos Plestis "Minimally invasive proximal aortic surgery. Are we making progress?" - 15 min.

Session XIII

Reconstructive and Hybrid Surgery of the Thoracic Aorta

16.00 – 17.30

Moderators: Yuri Belov, , Evgeny Rosseikin, Boris Koslov, Konstadinos Plestis

1. Yury Belov " Aortic surgery yesterday, today and tomorrow" - 20 min
2. Konstadinos Plestis " Aortic Arch Surgery. Evolving strategies for cerebral protection" -15 min
3. Boris Kozlov "Is the Hemiarch procedure the method of choice for ascending aortic aneurysm?" - 10 min.
4. Evgeny Rosseykin "Surgical techniques for aortic arch aneurysms and dissections" - 15 min
5. Andrey Marchenko "Modern technologies in aortic surgery" - 10 min

6. Timur Imaev “Endovascular and hybrid treatment of aortic arch diseases ” - 10 min

15 minutes discussion

Session XIV

Surgical treatment of the thoracoabdominal aorta and acute aortic syndrome

16.00 – 17.30

Moderators: Gennady Khubulava, Andrei Chupin, Vadim Popov, Marc Moon

1. Marc Moon "Type A Aortic Dissection: keeping it simple " -15 min
2. Gennady Khubulava "Hybrid approaches in the surgery of acute aortic syndrome" - 15 min
3. Viktor Sokolov, Andrey Redkoborody “The acute stage of aortic dissection: optimization of surgical treatment” - 10 min
4. Nikolay Bayandin "Staged treatment of acute aortic dissection" - 10 min
5. Eduard Charchiyan “Total thoracic aorta replacement: simultaneous and staged approaches” - 15 min
6. Konstadinos Plestis "Thoracic and thoracoabdominal aortic aneurysm surgery. Current strategies for spinal cord and visceral organ protection” 15 min
7. Vadim Popov "Open Surgery for the Chronic Type B dissection in the Endovascular Era" -10 min
8. А.В.ЧУПИН «Yukstarenal Aortic Aneurysm: Open Surgery or Endovascular Treatment?» - 10 МИН

18.50 Adjourn

Closing remarks:

- A.Sh. Revishvili,

Director of the Vishnevskiy Institute of Surgery of the Ministry of Health of Russian Federation, President of the Russian Arrhythmologic Society, Chief Surgeon of the Ministry of Health of Russian Federation.

- James Cox,

Past-president American Association for Thoracic Surgery, Surgical Director of Center for Heart Rhythm Disorders, Director of Comprehensive Atrial Fibrillation Program, Professor of Surgery Bluhm Cardiovascular Institute Feinberg School of Medicine Northwestern University