



AMICS

75 лет ИХВ

V International Conference
MINIMALLY INVASIVE CARDIAC SURGERY AND SURGICAL ARRHYTHMOLOGY
[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:

A.V. Vishnevsky National Medical Research Center of Surgery, Ministry of Health of Russian Federation,
Moscow, Bolshaya Serpukhovskaya street, 27

Co-Chairs:

Professor Amiran Sh. Revishvili, MD, PhD, DMSc, academician of RAS

Director of the A.V. Vishnevsky National Medical Research Center of Surgery, Ministry of Health of Russian Federation, President of the Russian Society of Arrhythmology, Chief Surgeon of the Ministry of Health of Russian Federation (Moscow, Russia)

Professor James Cox, MD

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 (Chicago, USA)

Executive Secretary: Professor V.A. Popov, MD, PhD, DMSc (Moscow, Russia)

Coordinators: E.S. Malysenko, MD (Moscow, Russia), O.N. Kislitsina, MD, PhD (Chicago, USA)

Russian faculty:

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Maksimov A.L., MD, PhD, Nizhniy Novgorod (Russia)

Marchenko A.V., MD, PhD, DMSc, Perm (Russia)

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Zhbanov I.V., MD, PhD, DMSc Moscow (Russia)

International faculty:

Alfieri Ottavio, MD (Milan, Italy)

Chitwood Randolph III, MD (Greenville, NC, USA)

Davierwala Piroze, MD (Leipzig, Germany)

Dunning Joel, MD (London, UK)

Edvardsen Thor, MD (Oslo, Norway)

Frazier Oscar, MD (Houston, TX, USA)

Haverich Axel, MD (Hanover, Germany)

McCarthy Patrick, MD (Chicago, IL, USA)

Moon Marc, MD (St. Louis, MO, USA)

Plestis Konstandinos, MD (Philadelphia, PA, USA)

Scalia Gregory, MD (Queensland, Australia)

Starnes Vaughn, MD (Los Angeles, CA, USA)

Suwalski Piotr, MD, PhD (Warsaw, Poland)

Thomas James, MD (Chicago, IL, USA)

Thomas Yngvil (Chicago, IL, USA)

Yilmaz Alaaddin, MD (Hasselt, Belgium)

Thursday, November 14, 2019

08.00 – 09.00 Registration of the participants

09.00 – 09.30 Opening of the conference

Opening remarks:

- ▶ V.I. Skvortsova, Minister of Health of the Russian Federation
- ▶ A.Sh. Revishvili, Director of the A.V. Vishnevsky National Medical Center of Surgery, academician of RAS
- ▶ James Cox, Past-President, American Association for Thoracic Surgery (AATS)
- ▶ Marc Moon, President-Elect, American Association for Thoracic Surgery (AATS)

09.30 – 09.40 Live cases presentations

09.40 – 13.10 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 – 12.20

Moderators: Amiran Revishvili, James Cox, Bagrat Alekyan, Randolph Chitwood, Axel Haverich

Presentations:

- ▶ Amiran Revishvili «Catheter and Surgical Treatment of Atrial Fibrillation: Innovation, Technology, Development» - 20 min
- ▶ James Cox «Anatomy Pertinent to the Surgical Treatment of Atrial Fibrillation» - 20 min
- ▶ Bagrat Alekyan «Modern endovascular technologies for treatment of tricuspid and mitral valve pathology» - 20 min
- ▶ Randolph Chitwood «Robotic Technology in Cardiac Surgery: A Historical Perspective» - 20 min
- ▶ Yngvil Thomas «Brave New World: The Promise of Artificial Intelligence in Cardiovascular Disease» - 20 min
- ▶ 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, broadcasting from the operating room – 20 minutes

Session II

Imaging in Cardiology and Cardiac Surgery

12.20 – 13.10

Moderators: Bagrat Alekyan, James Cox, Thor Edvardsen, Grigory Karmazanovsky, Olga Kislitsina

Presentations:

- ▶ Thor Edvardsen «Imaging of the Cardiovascular System: What We Have Achieved» - 20 min
- ▶ Grigory Karmazanovsky «New Methods of CT and MRI for Heart Rhythm Disorders» - 15 min

Discussion, broadcasting from the operating room - 15 minutes

13.10 – 13.30 LUNCH

13.30 – 13.40 Live cases presentations

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

- Aortic root surgery

- Transcatheter aortic valve implantation

Session III

Persistent Atrial Fibrillation: Clinical Scenarios and Perspectives

13.40 – 15.20

Moderators: Amiran Revishvili, James Cox, Piotr Suwalski, Elena Artyukhina, Olga Kislitsina

Presentations:

- ▶ **James Thomas** «Assessment of Atrial Function Before and After Treatment for Atrial Fibrillation» - 15 min
- ▶ **Piotr Suwalski** «A Hybrid Approach to Arrhythmias» - 15 min
- ▶ **Alexander Romanov** «Strategy of Catheter Ablation for Persistent Atrial Fibrillation» - 10 min
- ▶ **Yury Schneider, Pavel Shilenko** «Thoracoscopic Epicardial Left Atrial ablation in the Treatment of Atrial Fibrillation» - 10 min
- ▶ **Dmitry Cherkashin** «Is the Catheter Ablation for Atrial Fibrillation without Fluoroscopy - the Future of Electrophysiology?» - 10 min
- ▶ **Farhad Rzayev** «Role of Cryoablation in the Treatment of Persistent Atrial Fibrillation» - 10 min
- ▶ **Dmitry Lebedev** «Implantable Devices and Atrial fibrillation - a Modern View» - 10 min

Discussion, broadcasting from the operating room - 20 minutes

Session IV

Technologies and Perspectives of Concomitant AF Surgery

15.20 – 18.00

Moderators: Amiran Revishvili, James Cox, Patrick McCarthy, Piotr Suwalski

Presentations:

- ▶ **James Cox** «Surgical Treatment of Concomitant Atrial Fibrillation» - 20 min
- ▶ **Patrick McCarthy** «Why and How to Efficiently Add Concomitant AF Ablation to CABG, MVR, and AVR Procedures» - 20 min
- ▶ **Piotr Suwalski** «Left Atrial Appendage Closure in Different Scenarios» - 20 min
- ▶ **Madina Kadyrova, Olga Kislitsina** «Anatomy and Physiology of the Left Atrial Appendage. Echocardiographic Aspects» - 15 min
- ▶ **Alexander Bogachev-Prokofiev** «Surgical Ablation of Atrial Fibrillation with Available Energy Sources in Open Heart Surgery» - 10 min
- ▶ **Yury Schneider, Gennady Antipov** «Left atrial or Bi-atrial Ablation in Concomitant Cardiac Surgery?» - 15 min
- ▶ **Vadim Popov** «Is it Possible to Prevent Atrial Fibrillation after CABG?» - 15 min
- ▶ **Vladimir Evtushenko** «Efficacy of autonomic denervation for treatment of atrial fibrillation» - 15 min
- ▶ **Elena Artyukhina** «Catheter Ablation for Arrhythmias after Surgical Treatment of Atrial Fibrillation» - 15 min

Discussion, broadcasting from the operating room - 15 minutes

Friday, November 15, 2019

08.20 – 08.30 Live case presentation

09.00 – 13.00 Live case (broadcasting from the operating room)

Endoscopic aortic valve replacement

Session V

Anesthesiology, Perfusion and Intensive Care

08.30 – 10.10

Moderators: Igor Kozlov, Yury Schneider, Joel Dunning, Lev Krichevsky, Georgy Plotnikov

Presentations:

- ▶ **Joel Dunning** «STS/EACTS Guidelines on Resuscitation after Cardiac Surgery» - 20 min
- ▶ **Igor Kozlov** «The Value of Natriuretic Peptide Monitoring in Cardiac Surgery» - 15 min
- ▶ **Dmitry Shukevich** «The Role of Extracorporeal Detoxification in Intensive Care after Cardiac Surgery: What, When and How Much?» - 10 min.
- ▶ **Lev Krichevsky** «Transesophageal Echocardiography in Cardiac Anesthesiology in Russia» - 10 min
- ▶ **Yury Schneider, Andrey Makarov** «MiECC Technologies in the Federal Center of Cardiac Surgery» - 10 min
- ▶ **Alexander Medvedev, Anton Maksimov** «Massive Pulmonary Embolism: Risk Stratification and Treatment» - 10 min
- ▶ **Vladimir Pichugin, Anton Maksimov** «NO for the Prevention of Heart and Lung Injuries in High-Risk Cardiac Surgery» - 10 min

Discussion, broadcasting from the operating room - 15 minutes

Session VI

Technologies and Innovation for Treatment of Heart Failure

10.10 – 12.20

Moderators: Sergei Gauthier, Frazier Oscar, Yury Ostrovsky, Michail Gordeev, Thor Edvardsen

Presentations:

- ▶ **Thor Edvardsen** «Up-to-Date Assessment of LV Function - Ejection Fraction is Not Enough» - 15 min
- ▶ **Sergey Gauthier** «Heart Transplantation in the 21st Century» - 20 min
- ▶ **Yury Ostrovsky** «Results of Heart Transplantation» - 15 min
- ▶ **Frazier Oscar** «Mechanical Circulatory Support. State-of-Art» - 20 min
- ▶ **Michail Gordeev** «Mechanical Circulatory Support: Evolution and Revolution» - 20 min
- ▶ **Eduard Idov, Sergey Michailov** «Cardiac Resynchronization Therapy for the Treatment of Heart Failure» - 10 min
- ▶ **Oleg Sapelnikov** «Modulation of Contractility for the Treatment of Heart Failure. Expectations and Reality» - 10 min

Discussion, broadcasting from the operating room - 20 minutes

Session VII

Challenges in Myocardial Revascularization

12.20 – 14.00

Moderators: Yury Schneider, Vadim Popov, Sergei Kovalev, Andrei Shiryaev

Presentations:

- ▶ **Joel Dunning** «REACT Course: Resuscitation and Acute Emergencies in the Cath Lab» - 15 min
- ▶ **Olga Kislitsina** «Preoperative Atrial Strain Measurements that Predict Postoperative AF following CABG» - 10 min

- ▶ **Sergei Kovalev** «High-risk CABG» - 10 min
- ▶ **Andrei Shiryaev** «CABG with Calcified Target Coronary Arteries» - 10 min
- ▶ **Evgeny Rosseykin** «New Trends in Coronary Surgery» - 10 min
- ▶ **Yury Schneider, Viktor Tsoi** «Total Arterial Coronary Bypass in Patients with Multivessel Disease» - 10 min
- ▶ **Vadim Popov** «Anticoagulation and Bleeding in Coronary Surgery» - 10 min
- ▶ **Vladislav Vasiliev** «CABG for Coronary Arteries Less than 1.5 mm: Flow Measurement and Graft Patency» - 10 min

Discussion, broadcasting from the operating room - 15 minutes

14.00 – 14.20 LUNCH

14.20 – 14.30 Live case presentation

14.20 – 18.20 Live case (broadcasting from the operating room)

Mitral Valve Repair

Session VIII

Minimally Invasive CABG

14.30 – 16.00

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

Presentations:

- ▶ **Piroze Davierwala** «Minimally Invasive CABG with Bilateral Internal Thoracic Arteries» - 15 min
- ▶ **Alaaddin Yilmaz** «EndoCABG» - 15 min
- ▶ **Igor Zhanov** «Minimally Invasive Coronary Revascularization: Criteria, Necessity and Feasibility» - 15 min
- ▶ **Alexander Chernyavsky, Dmitry Sirota** «Minimally Invasive Coronary Bypass Grafting via Thoracotomy» - 10 min
- ▶ **Yury Schneider, Viktor Tsoy** «Hybrid Coronary Revascularization» - 10 min
- ▶ **Michail Ryazanov, Anton Maksimov** «MIDCAB or PCI in Isolated LAD Lesions: Do We Need a New Study?» - 10 min

Discussion, broadcasting from the operating room - 15 minutes

Session IX

Surgery of Structural Heart Diseases

16.00 – 18.20

Moderators: Renat Akchurin, Marc Moon, Ottavio Alfieri, Vladlen Basylev, Greg Scalia

Presidential Lecture

- ▶ **Marc Moon** «Indications for Replacement of the Thoracic Aorta» - 30 min

Presentations:

- ▶ **Greg Scalia** «Echocardiography for Percutaneous Mitral Repair / Replacement» - 20 min
- ▶ **Vladlen Basylev, Andrey Voevodin** «Transcatheter Heart Valve with PTFE Leaflets» - 15 min
- ▶ **Alexey Komlev** «A-V Block after Transcatheter Aortic Valve Implantation» - 15 min
- ▶ **Alexander Bogachev-Prokofiev** «Surgical Treatment of Obstructive Hypertrophic Cardiomyopathy: Should We Treat the Mitral Valve?» - 15 min
- ▶ **Alexey Evtushenko** «Combined Surgical Treatment of Left Outflow Obstruction in Patients with Hypertrophic Cardiomyopathy» - 15 min
- ▶ **Artemiy Okhotin** «Adhesive Pericarditis - A Forgotten Disease» - 15 min

Дискуссия, видеотрансляция из операционной - 15 мин

Saturday, November 16, 2019

08.20 – 08.30 Live case presentation

09.00 – 13.00 Live cases (broadcasting from the operating room)

Mitral valve repair

Session X

Atrioventricular Valves Surgery

08.30 – 10.40

Moderators: Amiran Revishvili, James Cox, Patrick McCarthy, Randolph Chitwood, Ottavio Alfieri

Presentations:

- ▶ James Thomas «Quantification of Valvular Regurgitation» - 15 min
- ▶ Patrick McCarthy «Early and Late Results of a Quantitative Approach to Degenerative Mitral Valve Repair» - 15 min
- ▶ Ottavio Alfieri «Perspectives in Percutaneous and Surgical Treatment of Heart Valve Disease» - 20 min
- ▶ Randolph Chitwood «Cardiac Valve Surgery. Sternotomy or Minimally Invasive Thoracotomy?» - 15 min
- ▶ Alexander Bogachev-Prokofiev «Does Left Atrial Reduction Affect Ablation Efficacy During Concomitant Mitral Valve Surgery in Patients with Atriomegaly?» - 15 min
- ▶ Olga Kislitsina «Preoperative RV and RA Strain Measurements following MV Repair for Degenerative Mitral Regurgitation» - 10 min
- ▶ Ottavio Alfieri «Dilemmas in Managing Tricuspid Regurgitation» - 15 min
- ▶ Dmitry Tungusov «Endoscopically Assisted Minimally Invasive Mitral Valve Surgery» - 10 min

Discussion, broadcasting from the operating room - 15 minutes

Session XI

Aortic Root Surgery

10.40 – 12.10

Moderators: James Cox, Konstadinos Plestis, Kirill Barbuhatti, Igor Chernov

Presentations:

- ▶ James Cox «Anatomy and Physiology of the Aortic Root» -15 min
- ▶ Kirill Barbuhatti «Evolution of aortic valve sparing procedure» - 15 min
- ▶ Konstadinos Plestis «Minimally Invasive Proximal Aortic Surgery. Are we Making Progress?» - 15 min
- ▶ Igor Chernov «Is it possible to improve the Ross procedure» - 10 min
- ▶ Alexander Chernyavsky, Dmitry Khvan «Long-Term Results of the David Procedure» - 10 min
- ▶ Roman Komarov «Possibilities of Aortic Root Surgery» - 10 min

Discussion, broadcasting from the operating room - 15 minutes

Session XII

Open, Endovascular and Hybrid Surgery of the Thoracic Aorta

12.10 – 14.00

Moderators: Yuri Belov, Konstadinos Plestis, Evgeny Rosseykin, Boris Kozlov

Presentations:

- ▶ Yuri Belov «Aortic Surgery Yesterday, Today and Tomorrow» - 20 min
- ▶ Konstadinos Plestis «Aortic Arch Surgery. Evolving Strategies for Cerebral Protection» -15 min
- ▶ Boris Kozlov «Is the Hemiarch Procedure the Method of Choice for Ascending Aortic Aneurysms?» - 15 min
- ▶ Evgeny Rosseykin «Surgical techniques for aortic arch aneurysms and dissections» - 15 min
- ▶ Andrey Marchenko «Modern technologies in aortic surgery» - 15 min

▶ Timur Imaev «Endovascular and hybrid treatment of aortic arch diseases» - 15 min

Discussion, broadcasting from the operating room - 20 minutes

14.05 – 14.20 LUNCH

14.20 – 14.30 Live case presentation

14.30 – 18.10 Live cases (broadcasting from the operating room)

Thoracoscopic treatment of atrial fibrillation

Session XIII

Aortic valve surgery

14.30 – 16.10

Moderators: Marc Moon, Thor Edvardsen, Alaaddin Yilmaz, Vladlen Bazylev, Alexander Bogachev-Prokofiev

Presentations:

- ▶ Thor Edvardsen «Is it Time to Re-define When to do an AVR for Aortic Stenosis?» - 15 min
- ▶ Greg Scalia «Poor Long-Term Survival in Patients with Moderate Aortic Stenosis» - 15 min
- ▶ Marc Moon «Aortic Valve Repair: Anatomic and Functional Considerations» - 15 min
- ▶ Vladlen Bazylev «Is Ozaki Procedure Indicated for All Patients with Aortic Valve Pathology?» - 15 min
- ▶ Alaaddin Yilmaz «Endoscopic AVR» - 15 min
- ▶ Alexey Evtushenko «TIARA: The First Experience» - 10 min

Discussion, broadcasting from the operating room - 15 minutes

Session XIV

Surgery of the Thoracoabdominal Aorta and Acute Aortic Syndrome

16.10 – 18.10

Moderators: Gennady Khubulava, Marc Moon, Kostandinos Plestis, Vadim Popov, Eduard Charchiyan

Presentations:

- ▶ Marc Moon «Type A Aortic Dissection: keeping it simple» - 15 min
- ▶ Gennady Khubulava «Hybrid Procedure for Acute Aortic Syndrome Surgery» - 15 min
- ▶ Konstandinos Plestis «Thoracic and Thoracoabdominal Aortic Aneurysm Surgery. Current Strategies for Spinal Cord and Visceral Organ Protection» - 15 min
- ▶ Eduard Charchiyan «Total Thoracic Aorta Replacement: Simultaneous and Staged Approaches» - 15 min
- ▶ Viktor Sokolov, Andrey Redkoborody «The Acute Stage of Aortic Dissection: Optimization of Surgery» - 10 min
- ▶ Nikolay Bayandin «Staged Treatment of Acute Aortic Dissection» - 10 min
- ▶ Vadim Popov «Open Surgery for the Chronic Type B Dissection in the Endovascular Era» - 10 min
- ▶ Andrey Chupin «Juxtarenal Aortic Aneurysm: Open Surgery or Endovascular Treatment?» - 10 min

Discussion, broadcasting from the operating room - 20 minutes

18.10 - 18.40 Closing Remarks

Amiran Revishvili

Director of the A.V. Vishnevsky National Medical Center of Surgery of the Ministry of Health of Russian Federation, President of the Russian Society of Arrhythmology, Chief Surgeon of the Ministry of Health of Russian Federation, Moscow, Russia

James Cox

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