



Ministry of Health of the Russian Federation
Almazov National Medical Research Centre
Scientific and Educational Medical Cluster "Translational Medicine"
Health Committee of St. Petersburg Government

NATIONAL MEDICAL INNOVATION FORUM | JUNE 7–9, 2018

**21st CENTURY MEDICINE:
INTEGRATION OF KNOWLEDGE
IN CROSS-DISCIPLINARY SCIENCE**

PROGRAMME

Ministry of Health of the Russian Federation
Almazov National Medical Research Centre
Scientific and Educational Medical Cluster "Translational Medicine"
Health Committee of St. Petersburg Government

NATIONAL MEDICAL INNOVATION FORUM

JUNE 7–9, 2018 | SAINT PETERSBURG

The Forum will feature the following events:

- **SCIENTIFIC SESSION OF THE ALMAZOV NATIONAL MEDICAL RESEARCH CENTRE** (June 7–8, Almazov Centre, 2 Akkuratova street)
- **II ST. PETERSBURG ARRHYTHMOLOGY FORUM** (June 7–9, Almazov Centre, 2 Akkuratova street)
- **RUSSIAN-SWEDISH SYMPOSIUM ON BASIC MEDICINE** (June 7, Almazov Centre, 2 Akkuratova street)
- **IV ALL-RUSSIAN SCIENTIFIC AND PRACTICAL CONFERENCE PHYSICAL REHABILITATION IN SPORTS, MEDICINE AND ADAPTED PHYSICAL EDUCATION** (June 8–9, Lesgaft National State University, 35 Dekabristov street)
- **CONFERENCE ON EXTREME ROBOTICS** (June 7–8, Russian State Scientific Centre for Robotics and Technical Cybernetics, 21 Tikhoretsky avenue, Medical Robotics section), (June 7, Almazov Centre, 2 Akkuratova street)
- **SEMI-FINALS OF THE UMNIIK PROGRAMME (Youth Research and Innovation Competition) AND YOUNG SCIENTIST RESEARCH CONTEST** (June 8, Almazov Centre, 2 Akkuratova street)

SCIENTIFIC TOPICS OF THE FORUM:

- Telemedicine technologies
- Medical cybernetics and bionics, medical physics
- Bioinformatics and structural biology, genome editing / genetic engineering

- Big data and decision support systems in medicine
- Medical instrumentation and sensorics
- Biotechnology and nanotechnology in medicine
- Innovative approaches to managing a medical institution
- Technologies of rehabilitation and rehabilitation treatment
- Mathematical modeling in biology and medicine
- Cell technologies and tissue engineering, additive technologies and bioprinting
- Visualization in medicine
- Aging
- Synthetic biology
- Quantum biology

SCIENTIFIC COMMITTEE

President of the Forum:

E.V. Shlyakhto (St. Petersburg)

Co-chairs of the Forum:

S.E. Bakulev, V.N. Vasiliev, V.M. Kutuzov, I.A. Narkevich, A.I. Rudskoy

Members of the Scientific Committee:

Yu.A. Antokhina (St. Petersburg),
E.I. Baranova (St. Petersburg),
A.V. Bukhanovsky (St. Petersburg),
T.V. Vavilova (St. Petersburg),
E.S. Vasichkina (St. Petersburg),
M.M. Galagudza (St. Petersburg),
M.L. Gordeev (St. Petersburg),
E.Z. Golukhova (Moscow),
M.V. Dubina (St. Petersburg),
K.M. Ivanov (St. Petersburg),
M.A. Karpenko (St. Petersburg),
A.A. Kostareva (St. Petersburg),
A.S. Krasichkov (St. Petersburg),
D.S. Lebedev (St. Petersburg),
A.V. Lopota (St. Petersburg),
D.N. Maistrenko (St. Petersburg),
D.Yu. Minkin (St. Petersburg),
L.B. Mitrofanova (St. Petersburg),
O.M. Moiseeva (St. Petersburg),
A.O. Nedoshivin (St. Petersburg),
T.M. Pervunina (St. Petersburg),
S.V. Popov (Tomsk),
A.Sh. Revishvili (Moscow),
M.Yu. Sitnikova (St. Petersburg),
S.O. Scarlato (St. Petersburg),
B.A. Tatarsky (St. Petersburg),
M.L. Firsov (St. Petersburg),
A.P. Shevchik (St. Petersburg),
A.N. Yakovlev (St. Petersburg)

Forum Secretariat:

Secretary General: A.O. Konradi

Secretariat members:

A.Ya. Malikov, E.A. Usynina, E.A. Pevneva, I.B. Chumak

The forum will feature the following events:

II ST. PETERSBURG ARRHYTHMOLOGY FORUM

JUNE 7–9, 2018 | ST. PETERSBURG

Under the aegis of:

Russian Society of Cardiology
Russian Scientific Society of Clinical Electrophysiology, Arrhythmology and Cardiac Pacing
Almazov National Medical Research Centre

SCIENTIFIC AND ORGANIZING COMMITTEE

Forum Presidents:

Prof. E.V. Shlyakhto, Director General of the Almazov National Medical Research Centre, President of the Russian Society of Cardiology, Academician of the Russian Academy of Sciences

Prof. A.Sh. Revishvili, Director of Vishnevsky Institute of Surgery, President of the Russian Society of Arrhythmology, Academician of the Russian Academy of Sciences

Co-Chairs of Scientific and Organizing Committees:

Prof. S.V. Popov, Director of the Cardiology Research Institute of Tomsk National Research Medical Centre, Vice President of the Russian Society of Arrhythmology, Academician of the Russian Academy of Sciences

Prof. D.S. Lebedev, Head of Arrhythmology Department of the Almazov National Medical Research Centre, Vice President of the Russian Society of Arrhythmology, Chairman of the St. Petersburg Department of the Russian Society of Arrhythmology

Programme Committee (by sections):

Clinical and interventional arrhythmology:

R.B. Tatarsky (St. Petersburg)
K.V. Davtyan (Moscow)
R.E. Batalov (Tomsk)

Functional diagnostics in arrhythmology:

V.S. Nikiforov (St. Petersburg)
T.V. Treshkur (St. Petersburg)

Sudden cardiac death:

N.M. Neminsky (Moscow)
A.O. Marichev (St. Petersburg)

Heart failure and arrhythmias:

M.Yu. Sitnikova (St. Petersburg)
V.K. Lebedeva (St. Petersburg)

Pediatric arrhythmology:

M.A. Shkolnikova (Moscow)
E.S. Vasichkina (St. Petersburg)

Geriatric arrhythmology:

A. Bulava (Czech Republic)
E.N. Mikhaylov (St. Petersburg)

Visualization in arrhythmology:

M. Orlov (USA)

Antithrombotic therapy:

T.V. Vavilova (St. Petersburg)
A. Mazur (USA)

Clinical trials in arrhythmology:

E. Ovsyshcher (Israel)
B. Olshansky (USA)

Sports arrhythmology:

D. Corrado (Italy)
S.A. Bondarev (St. Petersburg)

Responsible Secretaries of Scientific and Organizing Committees:

E.N. Mikhaylov (St. Petersburg)
E.S. Vasichkina (St. Petersburg)
R.E. Batalov (Tomsk)
A.V. Evtushenko (Tomsk)

Morphology of arrhythmias:

A. van der Wal (Netherlands)
L.B. Mitrofanova (St. Petersburg)

Molecular arrhythmology and genetics:

A.A. Kostareva (St. Petersburg)
E.V. Zaklyazminskaya (Moscow)

Basic arrhythmology and modeling in electrophysiology:

A. Panfilov (Netherlands)
O.E. Solovyova (Ekaterinburg)
K.I. Agladze (Moscow)

Scientific and Organizing Committee:

T.M. Alekseeva (St. Petersburg)
S.N. Artemenko (St. Petersburg)
L.A. Balykova (Saransk)
E.I. Baranova (St. Petersburg)
C. Basso (Italy)
O. Bernus (France)
S.A. Boldueva (St. Petersburg)
J. Brachman (Germany)
S. Brusich (Croatia)
A. Bulava (Czech Republic)
A.V. Chapurnykh (Moscow)
M. Chudzik (Poland)
D. Corrado (Italy)
A. Curnis (Italy)
K.V. Davtyan (Moscow)
S. Dudley (USA)
E. Downar (Canada)
D.V. Duplyakov (Samara)
A.V. Evtushenko (Tomsk)

D.F. Egorov (St. Petersburg)
I. Efimov (USA)
V. Fedorov (USA)
L. Geller (Hungary)
M.Yu. Gilyarov (Moscow)
S.P. Golitsyn (Moscow)
M.L. Gordeev (St. Petersburg)
O.L. Gordeev (St. Petersburg)
J. Gorelik (London)
E.V. Grekhov (St. Petersburg)
S.V. Gureev (St. Petersburg)
M. Haïssaguerre (France)
E.A. Ivanitsky (Krasnoyarsk)
W. Jung (Germany)
M.L. Kandinsky (Krasnodar)
J. Kautzner (Czech Republic)
M.S. Kharlap (Moscow)
I. Kholova (Finland)
I.A. Kovalev (Moscow)

J. Kosiuk (Germany)
 A.V. Kozlenok (St. Petersburg)
 G.V. Kolunin (Tyumen)
 A.Ya. Kosonogov (N. Novgorod)
 A.A. Kostareva (St. Petersburg)
 S.N. Krivolapov (Tomsk)
 Z. Krstinich (Croatia)
 T.K. Kruchina (St. Petersburg)
 A. Kutarski (Poland)
 V.K. Lebedeva (St. Petersburg)
 B. London (USA)
 D. Luria (Israel)
 S. Manola (Croatia)
 L.M. Makarov (Moscow)
 A. Mazur (USA)
 B. Merkely (Hungary)
 G. Milasinowic (Serbia)
 L.B. Mitrofanova (St. Petersburg)
 E.N. Mikhaylov (St. Petersburg)
 S.P. Mikhaylov (Ekaterinburg)
 A. Mihalcz (Austria)
 K. Michaud (Switzerland)
 R.R. Movsesyan (St. Petersburg)
 O.M. Moiseeva (St. Petersburg)
 N.M. Neminschuy (Moscow)
 I.L. Nikitina (St. Petersburg)
 V.S. Nikiforov (St. Petersburg)

B. Olshansky (USA)
 M. Orlov (USA)
 E. Ovsyshcher (Israel)
 A. Panfilov (Netherlands)
 N. Pavlović (Croatia)
 T.M. Pervunina (St. Petersburg)
 S. Rolf (Germany)
 F.G. Rzaev (Moscow)
 K. Sedlacek (Czech Republic)
 M.A. Shkolnikova (Moscow)
 M.Yu. Sitnikova (St. Petersburg)
 O.E. Solovyova (Ekaterinburg)
 Yu.V. Sviryayev (St. Petersburg)
 T. Szili-Torok (Holland)
 B.A. Tatarsky (St. Petersburg)
 N. Teodorovich (Israel)
 S.A. Termosesov (Moscow)
 N. Trayanova (USA)
 T.V. Treshkur (St. Petersburg)
 D.A. Tsaregorodtsev (Moscow)
 T.V. Tyurina (St. Petersburg)
 T.V. Vavilova (St. Petersburg)
 A. Van der Wal (Netherlands)
 E.S. Vasichkina (St. Petersburg)
 V. Velagić (Croatia)
 E. Vester (Germany)
 S.M. Yashin (St. Petersburg)

The Forum will include discussions on the hot issues in arrhythmology, including various aspects of diagnosis, pharmacological and interventional approaches to the treatment of cardiac arrhythmias and conduction disorders.

The II St. Petersburg Arrhythmology Forum will feature the following events:

- XI All-Russian Conference *Sudden Death: From Risk Criteria to Prevention*
- Symposium *Translational and Basic Arrhythmology*
- Workshop *CRT Implantation and Follow-Up*
- Conference *Problems and Prospects in Pediatric Cardiology and Arrhythmology*
- Technopolis *Innovative Arrhythmology*
- Antithrombotic forum
- Cardiovascular Forum on Morphology and Visiting Session of the Association for European Cardiovascular Pathology (AECVP)
- Forum of Young Arrhythmologists in Basic Medicine

FORUM OF YOUNG ARRHYTHMOLOGISTS IN BASIC ARRHYTHMOLOGY

JUNE 8–9, 2018 | SAINT PETERSBURG

Chair of the Organizing Committee

Prof. D.S. Lebedev, Chairman of the St. Petersburg Department of the Russian Society of Arrhythmology, Head of Arrhythmology Department at the Almazov National Medical Research Centre, Professor of the Russian Academy of Sciences (St. Petersburg)

Deputy chair of the Organizing Committee

S.V. Garkina, MD, PhD, Senior Researcher, Arrhythmology Department, Almazov National Medical Research Centre (St. Petersburg)

Organizing Committee

E.V. Efimova (Germany)
 M.A. Kercheva (Tomsk)
 A.R. Kiselev (Saratov)
 S.V. Nemtsov (St. Petersburg)
 V.S. Orshanskaya (St. Petersburg)

Chair of the Programme Committee

E.N. Mikhaylov, MD, DSc, Head of Neuromodulation Laboratory, Almazov National Medical Research Centre (St. Petersburg)

Deputy Chair of the Programme Committee

T.A. Lubimtseva, MD, PhD, Senior Researcher, Arrhythmology Department, Almazov National Medical Research Centre (St. Petersburg)

Programme Committee:

A.V. Panfilov (Netherlands)
 O.E. Solovyova (Ekaterinburg)
 B. Olshansky (USA)
 S.V. Popov (Tomsk)
 R.B. Tatarsky (St. Petersburg)
 J. Kosiuk (Germany)

GENERAL INFORMATION FOR PARTICIPANTS

REGISTRATION

Participants can register at the Registration and Information Centre on the first floor of the Congress Hall on June 7–9 from 8 a.m. till 3 p.m.

INFORMATION FOR SPEAKERS

Presentation specifications: file format .ppt or .pptx (MS Office 2003/2007/2010), standard animation. Multimedia files (audio and video) should be in the same folder as the presentation file. Acceptable formats for video files are avi, mp4, wmv; maximum video file size is 100 Mb, maximum video file resolution is 640 x 480 px. Higher resolution (full HD) is accepted only with prior approval by the technical staff.

Working with presentations: Speakers should provide their PowerPoint presentations in advance, no later than 30 minutes before the session. Slides should be handed over to a tech specialist who will upload them to the laptop at the conference hall. Speakers can check the slides if necessary.

Please note that all laptops in the conference halls are protected with antivirus software; in case of detecting a virus on the speaker's device this software will be deleted. Technical personnel of the Centre are not responsible for safety and correctness of the remaining files. Speakers are not allowed to use the presentation equipment, change settings or make any file adjustments without the assistance of tech specialists.

Posters

Poster sessions will take place on June 7 and 8 in the Peter's Assembly hall. Posters should be mounted in the poster area prior to 10.30 and removed prior to 17.00. Presenters should be available to answer the questions of poster session chairs on June 7 and 8 from 10.40 to 11.00 and from 12.40 to 13.00.

Maximum poster size (W x H): 90 cm x 120 cm. The moderators of sessions will choose the best posters for the best poster award.

Equipment: All conference halls of the Centre are equipped with laptops connected to projectors and/or screens. Speakers are not allowed to use their own laptops. All laptops are provided with sliders that can be changed to speaker's similar slider with approval by the technical staff.

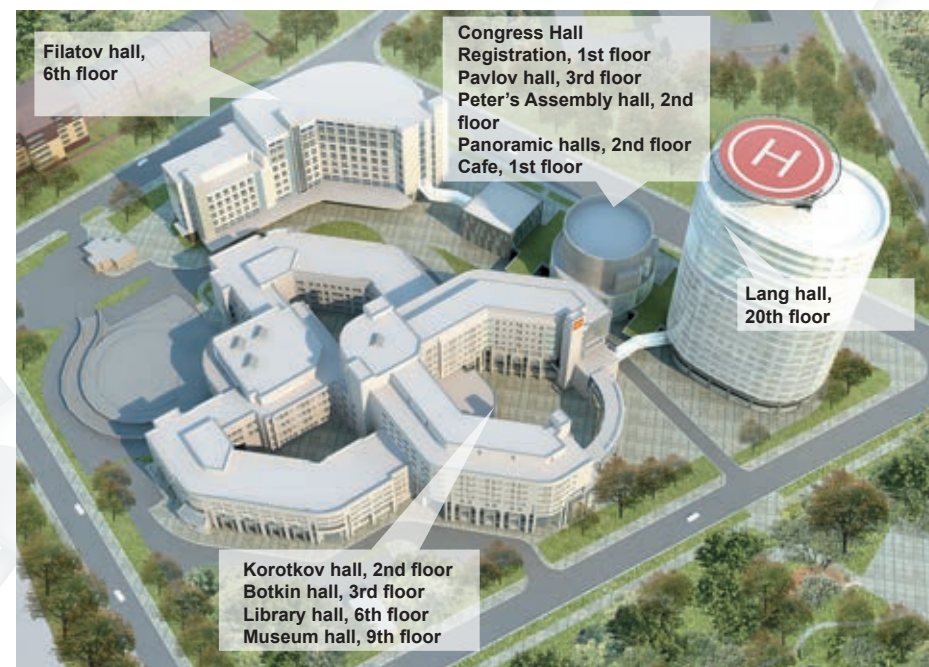
EXHIBITION

The conference will include an exhibition of medical equipment and pharmaceuticals. The exhibition will be held on the first floor of the Congress Hall.

Smoking

For health and security reasons and as a courtesy to non-smoking participants, this is a smoke-free conference venue. Thank you for not smoking!

PLAN OF HALLS



JUNE 7, 2018

JUNE 7, 2018

	PAVLOV HALL	KOROTKOV HALL	LIBRARY HALL	BOTKIN HALL		PANORAMIC HALL 2	MUSEUM HALL	LANG HALL	FILATOV HALL, Perinatal Centre
9.00–10.45	Forum Innovations in Modern Cardiology	Symposium Current Issues of Sudden Cardiac Death Prevention and Resuscitation in Sudden Cardiac Arrest	Symposium Translational and Basic Arrhythmology Session 1. Cell	Symposium Focal and Rotational Activity in the Genesis of Atrial Fibrillation		Symposium Decision Support Systems in Medicine. Digital Healthcare (ITMO University)	Round Table Arrhythmological Problems in Percutaneous Interventions	Dialogue Workshop Prevention of DM Complications in a Cardiology Patient from the Standpoint of a Cardiologist and an Endocrinologist (sponsored by Valeant)	
11.00–13.00	Grand opening and plenary session 21 st Century Medicine: Integration of Knowledge in Cross-Disciplinary Science		Cardiovascular Forum on Morphology and the Visiting Session of the Association for European Cardiovascular Pathology (AECVP)						
13:00–14:00 LUNCH					13:00–14:00 LUNCH				
14.00–15.40	Symposium Sudden Death: From Risk Criteria to Prevention	Forum Current Challenges and Solutions in Arrhythmology Session 1	Symposium Translational and Basic Arrhythmology Session 2. Tissue	Symposium Arrhythmogenic Cardiomyopathy: Current Approaches to Diagnosis and Risk Stratification		Round table Strategy and Tactics in the Treatment of Atrial Fibrillation	Semi-finals of the UMNİK programme	Russian-Swedish Symposium on Basic Medicine (sponsored by OPTEK)	Symposium Hot Topics in Pediatric Arrhythmology
16.00–17.40	16.00–16.20 Forum Value-Based Medicine 16.20–17.40 Symposium Optimization of Medical Care for Patients with Chronic Heart Failure as an Example of Value-Based Medicine (sponsored by Novartis Pharma)	Forum Ventricular Tachycardia and Sudden Cardiac Death	Symposium Translational and Basic Arrhythmology Session 3. Organ	Sports Arrhythmology Session		Round table Endocarditis and Implantable Devices	Semi-finals of the UMNİK programme	Russian-Swedish Symposium on Basic Medicine (sponsored by OPTEK)	Forum Heart Rhythm Disorders in Children as a Multidisciplinary Problem. The Problem of Arrhythmias in Children: Views of Various Specialists

8.30–13.00 PETER'S ASSEMBLY HALL

POSTER SESSION. ARRHYTHMOLOGY: NEW DIAGNOSTIC AND TREATMENT MODALITIES

JUNE 7, 2018**PAVLOV HALL | 9.00–10.45****FORUM
INNOVATIONS IN MODERN CARDIOLOGY**

Chairs: E.Z. Golukhova (Moscow)
M.A. Shkolnikova (Moscow)
A.O. Konradi (St. Petersburg)
D.S. Lebedev (St. Petersburg)

E.Z. Golukhova (Moscow) 20 min
Modern approaches to the treatment of stable CAD

M.A. Shkolnikova, S.A. Termosesov (Moscow) 20 min
Hybrid treatment methods of rhythm disorders in children

D.S. Lebedev (St. Petersburg) 20 min
Perspectives and new horizons in interventional arrhythmology

N. Trayanova (USA) 20 min
Computational cardiology: merging engineering with medicine

K.I. Agladze (Moscow) 20 min
Integration of fundamental science in Russia

PAVLOV HALL | 11.00–13.00**GRAND OPENING AND PLENARY SESSION
21ST CENTURY MEDICINE: INTEGRATION OF KNOWLEDGE IN CROSS-
DISCIPLINARY SCIENCE**

Presidium: E.V. Shlyakhto (St. Petersburg)
S.E. Bakulev (St. Petersburg)
V.N. Vasiliev (St. Petersburg)
V.M. Kutuzov (St. Petersburg)
I.A. Narkevich (St. Petersburg)
A.I. Rudskoy (St. Petersburg)

E.V. Shlyakhto (St. Petersburg) 20 min
Convergence of sciences as a new paradigm of medicine in the 21st century

V.N. Vasiliev (St. Petersburg) 20 min
Big data and predictive modeling

A.I. Rudskoy (St. Petersburg) 20 min
Biosector of the St. Petersburg Polytechnical University:
the synergy of engineering and biomedical paradigms and technologies

V.M. Kutuzov (St. Petersburg) 20 min
The future of medical equipment development

I.A. Narkevich (St. Petersburg) 20 min
Improving the efficacy of innovative drug development

S.E. Bakulev (St. Petersburg) 20 min
Sports and sports medicine in the 21st century

Break

PAVLOV HALL | 14.00–15.40**SYMPOSIUM
SUDDEN DEATH: FROM RISK CRITERIA TO PREVENTION**

Chairs: A. Mazur (USA)
S.M. Yashin (St. Petersburg)

S. Dudley (USA) 20 min
New blood test for sudden death

E.V. Parmon (St. Petersburg) 20 min
ECG criteria in assessing the sudden death risk

M. Swissa (Israel) 20 min
Sudden cardiac death risk stratification before ICD implantation:
beyond ejection fraction

H. Poghosyan (Armenia) 20 min
Sudden cardiac death prevention in developing countries. What are the
differences in outcomes?

Discussion 10 min

PAVLOV HALL | 16.00–16.20**FORUM
VALUE-BASED MEDICINE**

Welcome address to the participants of the pilot project Optimization of Medical Care for Patients with Chronic Heart Failure

E.V. Shlyakhto (St. Petersburg)

Value-based medicine: the current situation and future perspective

PAVLOV HALL | 16.20–17.40**SYMPOSIUM
OPTIMIZATION OF MEDICAL CARE FOR PATIENTS WITH CHRONIC
HEART FAILURE AS AN EXAMPLE OF VALUE-BASED MEDICINE**

Sponsored by Novartis Pharma

M.Yu. Sitnikova (St. Petersburg) 15 min
Chronic heart failure: the workload for clinicians and health care system

N.E. Zvartau (St. Petersburg) 15 min
Project: Optimization of Medical Care for Patients with Chronic Heart Failure in St. Petersburg and its major components

A.O. Konradi (St. Petersburg) 15 min
Project value for the health care system

O.M. Moiseeva (St. Petersburg) 15 min
Project value for a doctor

P.M. Murtazaliev (St. Petersburg) 15 min
Project value for a patient with CHF

Discussion 15 min

KOROTKOV HALL | 9.00–10.45**SYMPOSIUM
CURRENT ISSUES OF SUDDEN CARDIAC DEATH PREVENTION
AND RESUSCITATION IN SUDDEN CARDIAC ARREST**

Chairs: B. Olshansky (USA)
N.M. Neminsky (Moscow)
R.B. Tatarsky (St. Petersburg)

B. Olshansky (USA) 20 min
Sudden cardiac death: the condition of the problem

E.V. Zaklyazminskaya (Moscow) 20 min
The possibilities of modern genetics in assessing the risk of sudden cardiac death

L.M. Makarov (Moscow) 20 min
Sudden cardiac death in young people. Modern trends

A.N. Kuzovlev (Moscow) 20 min
Sudden cardiac arrest. Is there a chance to survive outside the clinic?

N.M. Neminsky (Moscow) 20 min
Implantable cardioverter-defibrillators as the main way of sudden cardiac death prevention. Problems and perspectives

Discussion 10 min

KOROTKOV HALL | 14.00–15.40**FORUM
CURRENT CHALLENGES AND SOLUTIONS IN ARRHYTHMOLOGY
SESSION 2**

Presidium: A.Sh. Revishvili (Moscow)
E. Ovsyshcher (Israel)
S.V. Popov (Tomsk)

A.Sh. Revishvili (Moscow) 20 min
Hybrid treatment of persistent atrial fibrillation

I. Efimov (USA) 20 min
First-in-human trial of low energy atrial multi-stage electrotherapy

N. de Groot (Netherlands) 20 min
Lessons to be learned from high resolution mapping of atrial fibrillation

T. Szili-Torok (Netherlands) 20 min
How to achieve rapid PVI using remote magnetic navigation.

KOROTKOV HALL | 16.00–17.40

FORUM

VENTRICULAR TACHYCARDIA AND SUDDEN CARDIAC DEATH

Presidium: A.Sh. Revishvili (Moscow)
B. Merkely (Hungary)
D.S. Lebedev (St. Petersburg)

M. Haïssaguerre (France) 20 min
Novel insights into the mechanisms of unexplained sudden cardiac death

J. Kautzner (Czech Republic) 20 min
New techniques and strategies to improve results of VT ablation

B. Merkely (Hungary) 20 min
The role of ICD in the primary prevention of sudden cardiac death

E. Vester (Germany) 20 min
Clinical challenges in modern ICD therapy

LIBRARY HALL | 9.00–10.45

SYMPOSIUM

TRANSLATIONAL AND BASIC ARRHYTHMOLOGY

SESSION 1. CELL

Chairs: J. Gorelik (Great Britain)
D. Pijnappels (Netherlands)
A.A. Kostareva (St. Petersburg)

J. Gorelik (Great Britain) 20 min
Micro-domain specific regulation of L-type Ca channels and arrhythmias

A. de Vries (Netherlands) 20 min
Conditionally immortalized cardiomyocyte lines for cardiac arrhythmia research

E.V. Dementieva, S.M. Zakiyan (Novosibirsk) 20 min
Modeling of human hereditary arrhythmic diseases using patient-specific induced pluripotent stem cells

A.A. Khudyakov (St. Petersburg) 15 min
The use of induced pluripotent cells to study the molecular mechanisms of arrhythmogenic cardiomyopathy

A.A. Zaitseva (St. Petersburg) 5 min
Molecular mechanisms of temperature sensitivity in the Brugada syndrome and rhythm disorders associated with the sodium channel dysfunction

Discussion 10 min

LIBRARY HALL | 11.00–13.00

CARDIOVASCULAR FORUM ON MORPHOLOGY AND THE VISITING SESSION OF THE ASSOCIATION FOR EUROPEAN CARDIOVASCULAR PATHOLOGY (AECVP)

Moderators: A. van der Wal (Netherlands)
L.B. Mitrofanova (St. Petersburg)

C. Basso (Italy) 20 min
Guidelines for autopsy investigation of sudden cardiac death:
2017 update from the Association for European Cardiovascular Pathology

K. Michaud (Switzerland) 20 min
Switzerland post mortem imaging of myocardium and coronary arteries

I. Kholova (Finland) 20 min
Storage and infiltration of atrial wall in relation to atrial fibrillation

L.B. Mitrofanova (St. Petersburg) 20 min
Telocytes in the human sinus node and working atrial myocardium

S. Kostin (Germany) 20 min
Myocardial regeneration. The role of telocytes. Prospects of cell therapy

V. Fedorov (USA) 20 min
Structure and function of the human sinoatrial node,
the primary pacemaker of the heart

Discussion 20 min

LIBRARY HALL | 14.00–15.40**SYMPOSIUM
TRANSLATIONAL AND BASIC ARRHYTHMOLOGY
SESSION 2. TISSUE**

Chairs: K.I. Agladze (Moscow)
D. Pijnappels (Netherlands)

K.I. Agladze (Moscow) 20 min
Testing cardiac arrhythmia in cultured human cells

D. Pijnappels (Netherlands) 20 min
Optogenetics and the biological defibrillator

A. Panfilov (Belgium) 20 min
Fibrosis and cardiac arrhythmias

O.N. Lukin (Ekaterinburg) 20 min
Investigation of mechano-calcium-electric interaction
in isolated cardiomyocytes using the carbon fibers method

Discussion 10 min

LIBRARY HALL | 16.00–17.40**SYMPOSIUM
TRANSLATIONAL AND BASIC ARRHYTHMOLOGY
SESSION 3. ORGAN**

Chairs: A. Panfilov (Belgium)
O.E. Solovyova (Ekaterinburg)

I. Efimov (USA) 20 min
3D wavelength volume predicts ventricular fibrillation in human heart

O.E. Solovyova (Ekaterinburg) 20 min
Analyzing the impact of clinical and physiological factors on the effect of cardiac resynchronization therapy

O. Bernus (France) 20 min
Critical substrates of ventricular fibrillation: insights from large animal models and human hearts

G.V. Osipov (Nizhny Novgorod) 20 min
CardioModel — a new software for cardiac electrophysiology simulation

Discussion 20 min

BOTKIN HALL | 9.00–10.45**SYMPOSIUM
FOCAL AND ROTATIONAL ACTIVITY IN THE GENESIS OF ATRIAL
FIBRILLATION**

Chairs: V. Fedorov (USA)
A.V. Chapurnykh (Moscow)

V. Fedorov (USA) 30 min
Intramural reentry is the mechanism of focal activity recorded during atrial fibrillation

E.A. Artyukhina (Moscow) 20 min
The role of surface non-invasive and endocardial electroanatomical mapping in the interventional treatment of persistent atrial fibrillation

O.V. Sapelnikov (Moscow) 20 min
Rotational activity ablation in patients with persistent atrial fibrillation

A.V. Chapurnykh (Moscow) 20 min
Focal activity is the trigger of persistent atrial fibrillation

Discussion 10 min

BOTKIN HALL | 14.00–15.40**SYMPOSIUM
ARRHYTHMOGENIC CARDIOMYOPATHY: CURRENT APPROACHES TO
DIAGNOSIS AND RISK STRATIFICATION IN CARDIOLOGY**

Moderators: D. Corrado (Italy)
M.S. Kharlap (Moscow)
E.N. Mikhaylov (St. Petersburg)

D. Corrado (Italy) 40 min
Differential diagnosis of arrhythmogenic cardiomyopathy, the importance of various diagnostic methods, including heart MRI and genetic testing

E.N. Mikhaylov (St. Petersburg) 20 min
Ventricular tachycardia of unknown origin with the presence of arrhythmogenic substrate

M.S. Kharlap (Moscow) 15 min
Clinical case

Discussion 15 min

BOTKIN HALL | 16.00–17.40

SPORTS ARRHYTHMOLOGY SESSION JOINT MEETING WITH THE SPORTS MEDICINE UNIT OF THE ST. PETERSBURG SOCIETY OF CARDIOLOGY

Moderators: D. Corrado (Italy)
A.V. Smolensky (St. Petersburg)
S.A. Bondarev (St. Petersburg)
Yu.V. Shubik (St. Petersburg)

D. Corrado (Italy) 30 min
Ventricular arrhythmia risk stratification, features of the arrhythmia risk stratification in athletes

S.A. Bondarev (St. Petersburg) 15 min
Arrhythmic version of the clinical course of chronic stress cardiomyopathy: pros and cons, the current view of the problem

A.V. Smolensky, A.V. Mikhailova, N.M. Leonova (Moscow) 15 min
Issue of ventricular rhythm disturbances in athletes

Yu.V. Shubik (St. Petersburg) 15 min
Genetically determined rhythm disorders in athletes

V.I. Pavlov (Moscow) 15 min
Modern ECG interpretation in athletes. Signs of myocardial electrical instability

V.Yu. Sukhov (St. Petersburg) 15 min
The possibilities of single-photon emission computed tomography for the diagnosis of rhythm disorder risk on the physical stress background

V.N. Komolyatova (Moscow) 15 min
QT interval in athletes

Discussion 15 min

PANORAMIC HALL 2 | 9.00–10.45

SYMPOSIUM

DECISION SUPPORT SYSTEMS IN MEDICINE. DIGITAL HEALTHCARE

A.A. Semakova, N.E. Zvartau
Population modeling of arterial hypertension for decision support in outpatient follow-up and treatment prescription

S.V. Kovalchuk, M.A. Balakhontseva, N.E. Zvartau, A.N. Yakovlev
Digital clinic model as a decision support tool in health care

O.G. Metsker, T.M. Abukhay, A.N. Yakovlev
Predictive modeling technologies for clinical ways to support care decisions for patients with acute coronary syndrome

A.A. Shapovalov
Clinical guidelines for clinical decision support systems

PANORAMIC HALL 2 | 14.00–15.40

ROUND TABLE

STRATEGY AND TACTICS IN THE TREATMENT OF ATRIAL FIBRILLATION

Moderators: B.A. Tatarsky (St. Petersburg)
S.M. Yashin (St. Petersburg)
R.E. Batalov (Tomsk)

S.G. Kanorsky (Krasnodar) 20 min
Current pharmacotherapy of atrial fibrillation

B.A. Tatarsky (St. Petersburg) 20 min
Blocking of late sodium channels as an innovative treatment strategy for AF

S.M. Yashin (St. Petersburg) 20 min
Electrophysiological mechanisms of atrial fibrillation and catheter ablation strategy

R.E. Batalov (Tomsk) 20 min
Atrial fibrillation. Strategy choice: medication or intervention?

Discussion 10 min

PANORAMIC HALL 2 | 16.00–17.40

ROUND TABLE ENDOCARDITIS AND IMPLANTABLE DEVICES

Moderators: O.M. Moiseeva (St. Petersburg)
A. Curnis (Italy)
S.N. Krivolapov (Tomsk)

O.M. Moiseeva (St. Petersburg) 20 min
Endocarditis diagnosis in patients with implantable devices.
No smoke without fire?

S.N. Krivolapov (Tomsk) 15 min
Infectious complications in patients with implantable devices

A.Ya. Kosonogov (Nizhny Novgorod) 15 min
Mechanical lead extraction. Opportunities and realities

A. Curnis (Italy) 20 min
New methods for lead removing

K. Gorshenin (Germany) 20 min
Subcutaneous ICD system: overview and principles. Clinical cases

Discussion 10 min

MUSEUM HALL | 9.00–10.45

ROUND TABLE ARRHYTHMOLOGICAL PROBLEMS IN PERCUTANEOUS INTERVENTIONS

Moderators: N.A. Borisova (St. Petersburg)
V.K. Sukhov (St. Petersburg)

A. Van der Wal (Netherlands) 20 min
The complications of transcatheter aortic valve implantation

D.A. Zverev (St. Petersburg) 20 min
Rhythm disorders during transcatheter implantation of intracardiac devices

E.A. Shloydo (St. Petersburg) 20 min
Septal ablation in HCM. Risk of AV conduction impairment

D.S. Maznev, S.A. Boldueva, I.A. Leonova (St. Petersburg) 15 min
Intraprocedural and early postprocedural arrhythmias and conduction disturbances in manual thrombus aspiration in patients with myocardial infarction

Discussion 30 min

MUSEUM HALL | 14.00–15.40

SEMI-FINALS OF THE UMNK PROGRAMME

MUSEUM HALL | 16.00–17.40

SEMI-FINALS OF THE UMNK PROGRAMME

LANG HALL | 9.00–10.45

DIALOGUE WORKSHOP PREVENTION OF DM COMPLICATIONS IN A CARDIOLOGY PATIENT FROM THE STANDPOINT OF A CARDIOLOGIST AND AN ENDOCRINOLOGIST

Sponsored by Valeant

Moderators: S.A. Urazgildeeva (St. Petersburg)
O.F. Malygina (St. Petersburg)

Discussion

LANG HALL | 14.00–15.40**RUSSIAN-SWEDISH SYMPOSIUM ON BASIC MEDICINE***Sponsored by OPTEK***L. Perisic Matic (Sweden)**

Translational studies in carotid disease: from patient to molecule and back.

A. Fedorov (St. Petersburg)

What can we learn from vascular plaque expression data: from basic mechanisms to new biomarkers

P. Eriksson (Sweden)

Aortic aneurysm

A. Malashicheva (St. Petersburg)

Notch1 signalling in cardiovascular pathologies

R. Vaz (Sweden)

Using zebrafish in rare diseases research.

M. Galagudza (St. Petersburg)

New experimental approaches in translational research

K. Zagorodnikova (St. Petersburg)

International cooperation in Clinical Pharmacology

*Coffee break***LANG HALL | 16.10–17.40****RUSSIAN-SWEDISH SYMPOSIUM ON BASIC MEDICINE***Sponsored by OPTEK***G. Sjöberg (Sweden)**

Inherited cardiomyopathies in children

N. Smolina (St. Petersburg)

Molecular bases for cytoskeletal protein dysfunction in cardiac disorders

A. Lindstrand (Sweden)

Genetic studies of ciliopathies

A. Zlotina (St. Petersburg)

Cytogenetic abnormalities in combined congenital heart-kidney disorders

M. Fossum (Sweden)

Hypospadias studies: when, why and how

I. Nikitina (St. Petersburg)

Hypospadias as a disorder of sex development

E. Andersson (Sweden)

Lynch Syndrome in gynecological practice; a nationwide Swedish observational study

M. Mints (Sweden)

Molecular markers in diagnostics, treatment and prognosis of Endometrial Cancer

FILATOV HALL | 14.00–15.40**SYMPOSIUM****HOT TOPICS IN PEDIATRIC ARRHYTHMOLOGY****Chairs:**

L.M. Makarov (Moscow)

T.M. Pervunina (St. Petersburg)

E.S. Vasichkina (St. Petersburg)

L.M. Makarov (Moscow)

221 sudden deaths in PE classes — Is this a lot or a little?

15 min

E.V. Kolbasova (Nizhny Novgorod)

Risk factors for sudden cardiac death in children with hypertrophic cardiomyopathy

15 min

V.N. Komolyatova (Moscow)

Non-invasive ECG markers of risk stratification in children

15 min

S.N. Chuprova (St. Petersburg)

Hereditary arrhythmias and their place in arrhythmology

15 min

A.A. Kostareva (St. Petersburg)

How to interpret the genetic screening results in hereditary heart diseases

15 min

S.E. Mamchur, N.S. Bokhan, O.M. Chistyukhin, E.A. Khomenko, T.Yu. Chichkova, M.P. Romanova, S.A. Shmulevich (Kemerovo) 15 min
 “Unknown” etiology of syncope: possible causes in adolescents based on implantable ECG monitors

Discussion

FILATOV HALL | 16.00–17.40

FORUM

HEART RHYTHM DISORDERS IN CHILDREN AS A MULTIDISCIPLINARY PROBLEM. THE PROBLEM OF ARRHYTHMIAS IN CHILDREN: VIEWS OF VARIOUS SPECIALISTS

Presidium: M.A. Shkolnikova (Moscow)
 I.L. Nikitina (St. Petersburg)
 M.V. Erman (St. Petersburg)

T.M. Pervunina, M.V. Erman (pediatrician / nephrologist) (St. Petersburg) 15 min
 Cardiorenal syndrome in children

I.L. Nikitina, K.A. Ivanova (endocrinologist / pediatric cardiologist) (St. Petersburg) 15 min
 Heart rhythm disorders in children with thyroid disease

K.A. Seel, T.S. Loevets (neurologist / pediatric cardiologist) (St. Petersburg) 15 min
 Syncope in children: the views of a cardiologist and neurologist

A.N. Kozhevnikov, L.N. Butish (orthopedist / pediatric cardiologist) (St. Petersburg) 15 min
 Arrhythmias in orthopedic conditions

V.V. Kopylov, E.S. Vasichkina (intensivist / pediatric cardiologist) 15 min
 Life-threatening heart rhythm disorders in the practice of a general intensive care physician

E.V. Pshenichnaya, N.A. Tonkikh (Ukraine) 15 min
 Cardiorespiratory and ANS values in young males before the age of 21

Discussion

POSTER SESSION

PETER'S ASSEMBLY HALL | 8.30–13.00

POSTER SESSION 1

ARRHYTHMOLOGY: NEW DIAGNOSTIC AND TREATMENT MODALITIES

Chairs: B.A. Tatarsky (St. Petersburg)
 S.A. Yuzvinkevich (St. Petersburg)
 G.V. Kolunin (Tyumen)
 F.G. Rzaev (Moscow)
 S.S. Durmanov (Penza)

I.N. Mamchur, T.Yu. Chichkova, S.E. Mamchur, N.S. Bokhan, M.P. Romanova, E.A. Khomenko (Kemerovo)
 Comparative study of the left atrium mechanical function impairment after pulmonary vein antrum isolation by radiofrequency and cryoballoon ablation

A.N. Morozov, A.I. Kazakov, S.M. Yashin, E.L. Zaslavskaya, V.O. Ershov (St. Petersburg)
 Catheter ablation of atrial tachyarrhythmias in patients with previously isolated pulmonary veins

V.M. Frolov (Moscow)
 Syncopal episodes associated with arrhythmias: clinical presentation, diagnostic tools

O.S. Trunova, S.S. Durmanov, A.V. Kozlov, N.V. Makarova, O.V. Popylkova, A.B. Glumskov, V.V. Bazylev (Penza)
 How does the ICD remote monitoring affect the patient's quality of life?

N.T. Vatutin, E.V. Sklyannaya, M.S. Goncharuk, I.A. Sologub (Ukraine)
 Prevalence of ventricular arrhythmias during Holter ECG monitoring in patients with burned skin lesions

E.A. Artyukhina, A.Sh. Revishvili, M.V. Yashkov, V.A. Vaskovsky, N.N. Lomidze, O.I. Svyatkina (Moscow)
 Efficacy of Propanorm for the intraoperative termination of atrial fibrillation

E.G. Skorodumova, V.A. Kostenko, E.A. Skorodumova, A.V. Siverina, A.V. Rysev (St. Petersburg)
 Prevalence of paroxysmal atrial flutter in patients with acute decompensation of heart failure and intermediate left ventricular function

A.I. Kazakov, A.V. Airapetyan, A.N. Morozov, S.M. Yashin (St. Petersburg)

Remote monitoring of post-ablation atrial tachycardias

A.A. Tatarinova, T.E. Tulintseva, T.V. Treshkur (St. Petersburg)

Characteristics of ventricular arrhythmias to be included in an ECG monitoring protocol

N.T. Vatutin, E.V. Sklyannaya (Ukraine)

Ventricular arrhythmias in young patients with hypertensive remodeling of the left ventricle

V.N. Fedorets, A.N. Aleksandrov, A.N. Gridin, R.Z. Pashaev, S.Yu. Fedotov, L.G. Vinogradova, I.V. Samoilenko, O.A. Obukhova (St. Petersburg, Moscow, Yaroslavl, Kostroma)

Method for intraoperative measurements of ventricular endocardial electrode parameters using domestically produced electric cardiac pacemakers

S.E. Mamchur, E.A. Khomenko, O.M. Chistyukhin, T.Yu. Chichkova, M.P. Romanova, V.V. Evtushenko, O.M. Polikutina (Kemerovo)

Comparison of non-invasive ECG monitoring versus loop recorder implantation in the assessment of atrial fibrillation

V.M. Frolov (Moscow)

Arrhythmia syndrome associated with systemic lupus erythematosus: a case study

M.V. Ryzhikova, S.A. Boldueva, I.A. Leonova (St. Petersburg)

Myocardial infarction and atrial fibrillation. Cardiology department: five-year follow-up results

M.V. Latkin, M.L. Kandinsky, Z.A. Kidakoev, I.A. Pereverzev, E.A. Taran (Krasnodar)

Chronic right ventricle apical stimulation in elderly patients: effect on left ventricular ejection fraction

A.V. Mikhailov, D.S. Lebedev, V.K. Lebedeva, E.S. Vasichkina, T.S. Loevets, K.A. Ivanova, R.B. Tatarsky (St. Petersburg)

Implantable cardioverter defibrillator therapy in pediatric practice

S.V. Garkina, R.B. Tatarsky, E.N. Mikhaylov, V.K. Lebedeva, V.S. Orshanskaya, Yu.V. Miller, A.V. Kamenev, S.V. Gureev, D.S. Lebedev (St. Petersburg)

Role of catheter ablation in electrical storm treatment

K.I. Korobova, E.S. Vasichkina, R.B. Tatarsky (St. Petersburg)

Somatic status of children with idiopathic ventricular arrhythmias

JUNE 8, 2018

	PAVLOV HALL	KOROTKOV HALL	LIBRARY HALL	BOTKIN HALL
9.00–10.40	Symposium Cardiac Transplantology	Briefing Recent Clinical Trials in Arrhythmology	Workshop CRT Implantation and Follow-Up Session 1. CRT Implantation: Strategies, Features, Tips and Tricks	Symposium Current Issues of Anticoagulant Therapy in Atrial Fibrillation (sponsored by Bayer)
11.00–12.40	Symposium Non-Pharmacological Management of Chronic Heart Failure: Necessary Option	Symposium Inherited Genetic Syndromes and Ventricular Tachyarrhythmias	Workshop CRT Implantation and Follow-Up Session 2 Contemporary Aspects of CRT Workshop CRT Implantation and Follow-Up Session 3 Complications in Cardiac Implantable Electronic Devices: Prevention and Solutions	Symposium Unresolved Issues in the Treatment of Persistent Atrial Fibrillation: Clinical Case Discussion (sponsored by Biosense Webster)
13.00–14.00	LUNCH			LUNCH
14.00–15.40	Symposium Patient with Chronic Heart Failure: The Arrhythmologist's View	Forum Current Challenges and Solutions in Arrhythmology Session 2	Debate Diagnosis and Prognosis of Arrhythmias: Genetics or Morphology?	Symposium Difficult-to-Treat Patient with Pulmonary Hypertension (sponsored by Bayer)
16.00–18.00	Symposium Arrhythmias and Myocardial Infarction	Symposium Arrhythmias in the Elderly	Symposium Atrial Fibrillation: From Experiment to Clinical Standards	Symposium The Combination of Technologies vs. Combination of Pathologies: How to Help Patients with AF and CHF (sponsored by Medtronic)

8.30–13.00 PETER'S ASSEMBLY HALL

JUNE 8, 2018

	PANORAMIC HALL 2	MUSEUM HALL	LANG HALL	FILATOV HALL, Perinatal Centre
	Session Robotics in Medicine. Robotic Technologies for Surgery	Symposium Cardiac Pacing: Issues and Perspectives	Forum of Young Arrhythmologists in Basic Arrhythmology Plenary session	Forum of Pediatric Cardiologists and Cardiac Surgeons Cardiological Aspects of Left Heart Hypoplasia
		Symposium on Synthetic Biology (St. Petersburg Polytechnical University)	11.00–12.20 Forum of Young Arrhythmologists in Basic Arrhythmology Scientific session 1. 12.30–13.30 Team Competition "Arrhythmology Battle"	Symposium Unresolved Issues of Pacing in Pediatrics
	LUNCH			LUNCH
	Debate Long and Remote Monitoring: How Much is Enough?	Symposium on Medical Instrumentation (St. Petersburg Electrotechnical University)	Forum of Young Arrhythmologists in Basic Arrhythmology Scientific session 2	Symposium Catheter Ablation in Children
	Symposium Syncope		Forum of Young Arrhythmologists in Basic Arrhythmology Scientific session 3 Finals of the best paper competition	Meeting of the leading specialists in pediatric cardiology of the North-West Region

POSTER SESSION. ARRHYTHMOLOGY: FROM BASIC SCIENCE TO CLINICAL PRACTICE

JUNE 8, 2018**PAVLOV HALL | 9.00–10.45****SYMPOSIUM
CARDIAC TRANSPLANTOLOGY**

Chairs: A.O. Shevchenko (Moscow)
M.Yu. Sitnikova (St. Petersburg)

G.V. Nikolaev (St. Petersburg) 15 min
Current state of transplantation in St. Petersburg:
issues and possible solutions

A.O. Shevchenko (Moscow) 15 min
Cardiomyopathy of the heart transplant

P.A. Fedotov, M.A. Simonenko (St. Petersburg) 15 min
Cardiovascular events in the post-transplant period: 7-year experience
(single-centre study by the Almazov National Medical Research Centre)

N.N. Koloskova (Moscow) 15 min
Coronary artery disease of the transplanted heart: practical aspects

Yu.V. Sazonova (St. Petersburg) 15 min
Predictors of heart transplant rejection in the early and late post-transplant
period

T.V. Stavenchuk, E.D. Kosmacheva, I.A. Shelestova (Krasnodar) 15 min
Non-invasive monitoring of heart transplant rejection

T.M. Pervunina (St. Petersburg) 15 min
Heart transplantation in children. Experience of the Almazov National Medical
Research Centre

Discussion

PAVLOV HALL | 11.00–12.40**SYMPOSIUM
NON-PHARMACOLOGICAL MANAGEMENT OF CHRONIC HEART
FAILURE: NECESSARY OPTION**

Chairs: M.Yu. Sitnikova (St. Petersburg)
Yu.L. Begrambekova (Moscow)

Yu.L. Begrambekova (Moscow) 20 min
Standard of non-pharmacological care in chronic heart failure

J. Shlosberg (Pskov) 20 min
Principles and experience of patient education program in heart failure

T.A. Lelyavina (St. Petersburg) 20 min
Science-based approach in physical rehabilitation for patients with HFrEF
during outpatient treatment stage

V.L. Galenko, M.Yu. Sitnikova (St. Petersburg) 20 min
Predictors of inadequate response to physical rehabilitation —
is there a final verdict?

M.A. Bortsova, E.A. Demchenko (St. Petersburg) 20 min
Rehabilitation potential for patients with severe heart failure

PAVLOV HALL | 14.00–15.50**SYMPOSIUM
PATIENT WITH CHRONIC HEART FAILURE:
THE ARRHYTHMOLOGIST'S VIEW**

Chairs: S.V. Popov (Tomsk)
M.Yu. Sitnikova (St. Petersburg)
E.N. Mikhaylov (St. Petersburg)

P.A. Fedotov (St. Petersburg) 15 min
Arrhythmias in patients with chronic heart failure before and after heart
transplantation

S.V. Popov (Tomsk) 15 min
Cardiac resynchronization therapy in patients with chronic heart failure:
20 years' experience

A. Mihalcz (Austria) 15 min
CRT: patient selection and follow-up

E. Vester (Germany) 15 min
CRT-P or CRT-D? — what is the right choice in clinical routine

M.A. Trukshina, M.A. Vander (St. Petersburg) 10 min
Implantation of cardiac contractility modulation devices in patients with systolic heart failure: first experience

V.K. Lebedeva, E.A. Lysanikova, M.Yu. Sitnikova (St. Petersburg) 10 min
Algorithms of outpatient management in patients with chronic heart failure and implanted devices

E.N. Mikhaylov (St. Petersburg) 15 min
Management of patients with chronic heart failure: new electrophysiological aspects

Discussion

PAVLOV HALL | 16.00–17.45

SYMPOSIUM ARRHYTHMIAS AND MYOCARDIAL INFARCTION

Chairs: S.A. Boldueva (St. Petersburg)
A.N. Yakovlev (St. Petersburg)

S.A. Boldueva (St. Petersburg) 20 min
MINOCA: Myocardial infarction with nonobstructive coronary arteries

M.V. Ryzhikova (St. Petersburg) 20 min
Myocardial infarction and atrial fibrillation

D.V. Oblavatsky (St. Petersburg) 20 min
Arrhythmia as the potential cause of type 2 myocardial infarction

V.S. Feoktistova (St. Petersburg) 20 min
Spontaneous dissection of the coronary artery

I.V. Yarmosh (St. Petersburg) 15 min
Type 3 myocardial infarction due to vasospastic angina

Discussion 10 min

KOROTKOV HALL | 9.00–10.40

BRIEFING RECENT CLINICAL TRIALS IN ARRHYTHMOLOGY

Chairs: B. Olshansky (USA)
E. Ovsyshcher (Israel)
D.S. Lebedev (St. Petersburg)

B. Olshansky (USA) 20 min
Population studies and registries in atrial fibrillation

J. Brachmann (Germany) 20 min
Heart failure and atrial fibrillation — significance of catheter ablation

A. Mazur (USA) 20 min
Ventricular tachyarrhythmias and sudden death: new data and clinical issues

W. Jung (Germany) 20 min
Current data on implantable devices in chronic heart failure and arrhythmias

E.N. Mikhaylov (St. Petersburg) 20 min
Anticoagulation before, during and after electrophysiological interventions

KOROTKOV HALL | 11.00–12.40

SYMPOSIUM INHERITED GENETIC SYNDROMES AND VENTRICULAR TACHYARRHYTHMIAS

Chairs: L. Monserrat (Spain)
E.V. Zaklyazminskaya (Moscow)
A.A. Kostareva (St. Petersburg)

L. Monserrat (Spain) 20 min
Sudden death in patients without structural heart disease

D. Luria (Israel) 20 min
Congenital arrhythmia syndromes: catecholaminergic polymorphic ventricular tachycardia

T. Szili-Torok (Netherlands) 20 min
Mechanism of idiopathic ventricular arrhythmias revised

A.A. Kostareva (St. Petersburg) 20 min
Inherited progressive conduction disturbance: focus on sodium currents

KOROTKOV HALL | 14.00–15.40

FORUM CURRENT CHALLENGES AND SOLUTIONS IN ARRHYTHMOLOGY SESSION 3

Presidium: A.Sh. Revishvili (Moscow)
S. Dudley (USA)
M. Orlov (USA)

B. London (USA) 20 min
Inherited disorders considered as potential causes of sudden death

S. Dudley (USA) 20 min
How to treat arrhythmias without proarrhythmic risk: a new antiarrhythmic paradigm of raising ion channels

M. Orlov (USA) 20 min
His bundle pacing is a revolution in EP: state of the art and new techniques

E. Ovsyshcher (Israel) 20 min
Idiopathic premature beats: do we need to be concerned?

KOROTKOV HALL | 16.00–17.40

SYMPOSIUM ARRHYTHMIAS IN THE ELDERLY

Moderators: T. Szili-Torok (Netherlands)
E.N. Mikhaylov (St. Petersburg)

N. Teodorovich (Israel) 15 min
Prognosis in elderly patients with AF

A. Bulava (Czech Republic) 15 min
Radio-frequency catheter ablation in octogenarians

K.V. Davtyan (Moscow) 15 min
Left atrial appendage occluder implantation for the prevention of stroke in the elderly

D.I. Lebedev (Tomsk) 15 min
Cardiac resynchronization therapy in the elderly

S.V. Garkina (St. Petersburg) 15 min
Anticoagulation regimen in the elderly

M.V. Latkin (Krasnodar) 15 min
Long-term stimulation in the elderly

Discussion

LIBRARY HALL | 9.00–10.30

WORKSHOP CRT IMPLANTATION AND FOLLOW-UP

Organized by the Russian Society of Arrhythmology and the Foundation for Cardiological Education in Central and Eastern Europe (CARDICA)

SESSION 1 CRT IMPLANTATION: STRATEGIES, FEATURES, TIPS AND TRICKS

Chairs: S.V. Popov (Tomsk)
K. Sedlacek (Czech Republic)
M. Chudzik (Poland)

K. Sedlacek (Czech Republic) 20 min
My approach to CRT implantation — introduction

L. Geller (Hungary) 20 min
Difficult CRT, interventional approach to CRT implantation

D.I. Lebedev (Tomsk) 10 min
My nightmare procedure — interactive clinical case

S.V. Gureev (St. Petersburg) 10 min
My nightmare procedure — interactive clinical case

M. Chudzik (Poland) 20 min
Hands-on — Implantation LV lead — interactive session

Discussion

LIBRARY HALL | 10.45–12.15**WORKSHOP
CRT IMPLANTATION AND FOLLOW-UP***Organized by the Russian Society of Arrhythmology and the Foundation for Cardiological Education in Central and Eastern Europe (CARDICA)***SESSION 2
CONTEMPORARY ASPECTS OF CRT**

Chairs: G. Milasinowic (Serbia)
V.K. Lebedeva (St. Petersburg)
E.A. Ivanitsky (Krasnoyarsk)
J. Kautzner (Czech Republic)

J. Kautzner (Czech Republic) 20 min
My approach to arrhythmias in patients with CRT — clinical recommendation

K. Sedlacek (Czech Republic) 20 min
Integrative approach to CRT to optimize CRT outcomes

G. Milasinowic (Serbia) 20 min
Whether and how multipolar pacing (MPP) can improve CRT response

V.K. Lebedeva (St. Petersburg) 20 min
Follow-up of CRT patients — arrhythmia management

Discussion

LIBRARY HALL | 12.30–14.00**WORKSHOP
CRT IMPLANTATION AND FOLLOW-UP***Organized by the Russian Society of Arrhythmology and the Foundation for Cardiological Education in Central and Eastern Europe (CARDICA)***SESSION 3
COMPLICATIONS IN CARDIAC IMPLANTABLE ELECTRONIC DEVICES:
PREVENTION AND SOLUTIONS**

Chairs: A. Kutarski (Poland)
K. Sedlacek (Czech Republic)
D.S. Lebedev (St. Petersburg)

A. Kutarski (Poland) 20 min
Long road to contemporary state-of-the-art CIEDs complication management

K. Sedlacek (Czech Republic) 20 min
Prevention of complications in cardiac implantable electronic devices

A. Kutarski (Poland) 20 min
Lead extraction — outer sheaths techniques — hands-on session

S.N. Krivolapov (Tomsk) 20 min
Reimplantation / upgrades — clinical cases

Closing remarks:
S.V. Popov (Tomsk)
M. Chudzik (Poland)
D.S. Lebedev (St. Petersburg)

LIBRARY HALL | 14.15–15.45**DEBATE
DIAGNOSIS AND PROGNOSIS OF ARRHYTHMIAS: GENETICS OR
MORPHOLOGY?**

Moderators: E.V. Zaklyazminskaya (Moscow)
O.M. Mosieeva (St. Petersburg)

L. Monserrat (Spain) 20 min
Genetics

L.B. Mitrofanova (St. Petersburg) 20 min
Morphology

Comments: 20 min
L. Monserrat (Spain)

Comments: 20 min
L.B. Mitrofanova (St. Petersburg)

Discussion

LIBRARY HALL | 16.00–18.00**SYMPOSIUM****ATRIAL FIBRILLATION: FROM EXPERIMENT TO CLINICAL STANDARDS**

Chairs: M. Orlov (USA)
S. Rolf (Germany)
E.A. Artyukhina (Moscow)

M. Orlov (USA) 20 min
Subclinical AF: current understanding and implications for clinical practice

G. Golovchiner (Israel) 20 min
Does catheter ablation improve prognosis of patients with atrial fibrillation?

A. Curnis (Italy) 20 min
Hybrid approach for AFib ablation

N. Teodorovich (Israel) 20 min
Pulmonary veins isolation by cryoballoon: an Israeli viewpoint

S. Rolf (Germany) 20 min
How to select patients for additional left atrial substrate modification or pulmonary vein isolation alone

G.V. Kolunin (Tyumen) 20 min
Role of catheter AV node destruction in current clinical practice

Discussion

BOTKIN HALL | 9.00–10.40**SYMPOSIUM****CURRENT ISSUES OF ANTICOAGULANT THERAPY IN ATRIAL FIBRILLATION**

Sponsored by Bayer

Chairs: S.A. Boldueva (St. Petersburg)
A.M. Esayan (St. Petersburg)
T.N. Novikova (St. Petersburg)

S.A. Boldueva (St. Petersburg) 30 min
Updated EHRA practical guide on the use of direct oral anticoagulants

A.M. Esayan (St. Petersburg) 30 min
Nephrological aspects of anticoagulant therapy in AF

T.N. Novikova (St. Petersburg) 30 min
Anticoagulation treatment for sinus rhythm restoration in AF patients

BOTKIN HALL | 11.00–12.40**SYMPOSIUM****UNRESOLVED ISSUES IN THE TREATMENT OF PERSISTENT ATRIAL FIBRILLATION: CLINICAL CASE DISCUSSION**

Sponsored by Biosense Webster

Chairs: E.N. Mikhaylov (St. Petersburg)
S.E. Mamchur (Kemerovo)
A.V. Vygovsky (Kaliningrad)

V.S. Orshanskaya (St. Petersburg) 10 min
Clinical experience of the Almazov National Medical Research Centre

A.V. Chapurnykh (Moscow) 10 min
Clinical experience of the Central Clinical Hospital of the Presidential Administration of the Russian Federation

A.V. Tsyganov (Moscow) 10 min
Clinical experience of Petrovsky National Research Centre of Surgery

A.V. Ivanchenko (Kaliningrad) 10 min
Clinical experience of the Federal Centre for High Medical Technologies

E.B. Kropotkin (Krasnoyarsk) 10 min
Clinical experience of the Federal Centre for Cardiovascular Surgery

R.E. Batalov (Tomsk) 10 min
Clinical experience of the Tomsk National Medical Research Centre of the Russian Academy of Sciences, Cardiology Research Institute

S.E. Mamchur (Kemerovo) 10 min
Clinical experience of the Research Institute for Complex Issues of Cardiovascular Diseases

Discussion 20 min

BOTKIN HALL | 14.00–15.40**SYMPOSIUM****DIFFICULT-TO-TREAT PATIENT WITH PULMONARY HYPERTENSION***Sponsored by Bayer*

Chairs: T.V. Martynyuk (Moscow)
O.M. Moiseeva (St. Petersburg)

O.M. Moiseeva (St. Petersburg)

New principles of pulmonary hypertension diagnosis as the basis for effective therapy

T.V. Martynyuk (Moscow)

Optimization of specific therapy for pulmonary arterial hypertension: a possible scenario for target strategy

Discussion

BOTKIN HALL | 16.00–17.40**SYMPOSIUM****THE COMBINATION OF TECHNOLOGIES VS. COMBINATION OF PATHOLOGIES: HOW TO HELP PATIENTS WITH AF AND CHF***Sponsored by Medtronic*

Chairs: S.P. Golitsyn (Moscow)
D. Luria (Israel)

E.A. Ivanitsky (Krasnoyarsk) 20 min
PVI isolation improves survival in patients with CHF and AF — based on CASTLE-AF

Ya.Yu. Dumpis 20 min
How the algorithms of implanted devices can help patients with CHF and AF

A.S. Postol (Kaliningrad) 20 min
AHR episodes revealed by implanted devices — how to interpret?
Role of telemonitoring in early AF detection

V.K. Lebedeva (St. Petersburg) 20 min
Implanted monitors for silent AF detection: current state of the problem

PANORAMIC HALL 2 | 9.00–13.00**SESSION****ROBOTICS IN MEDICINE. ROBOTIC TECHNOLOGIES FOR SURGERY****PANORAMIC HALL 2 | 14.00–15.40****DEBATE****LONG AND REMOTE MONITORING: HOW MUCH IS ENOUGH?**

Moderators: S.P. Golitsyn (Moscow)
V.K. Lebedeva (St. Petersburg)
I.S. Khasanov (Germany)

A. Bulava (Czech Republic) 20 min
Remote monitoring in changing the outcomes of patients with implantable cardioverter-defibrillators — does every road lead to Rome?

A.S. Postol (Kaliningrad) 10 min
Remote monitoring in atrial fibrillation detection and stroke prevention

S.P. Mikhaylov (Ekaterinburg) 15 min
Remote monitoring in heart transplant patients

I.S. Khasanov (Germany) 15 min
Retrospective analysis of databases on remote monitoring of heart failure patients

V.K. Lebedeva (St. Petersburg) 15 min
Efficacy of combined remote monitoring in patients with chronic heart failure

S.S. Durmanov (Penza) 15 min
Decentralization of remote monitoring

Discussion

PANORAMIC HALL 2 | 16.00–17.40**SYMPOSIUM
SYNCOPE**

Chairs: A. Mazur (USA)
L.M. Makarov (Moscow)
T.V. Tyurina (St. Petersburg)

A. Bulava (Czech Republic) 15 min
Syncope in young patients: current challenges in the treatment of neurally mediated syncope in young patients

A. Mazur (USA) 15 min
Syncope in patients with structural heart disease

B. London (USA) 15 min
Syncope in patients with inherited arrhythmia syndromes

L.M. Makarov (Moscow) 15 min
Syncope in athletes

T.V. Tyurina (St. Petersburg) 15 min
Novel insights in the diagnosis of syncope

**T.S. Loevets, T.M. Pervunina, T.L. Vershinina,
E.Yu. Gorozhankina, E.S. Vasichkina (St. Petersburg)** 10 min
Experience in organizing a school for children with syncope

Discussion

MUSEUM HALL | 9.00–10.40

SYMPOSIUM CARDIAC PACING: ISSUES AND PERSPECTIVES

Chairs: V.K. Lebedeva (St. Petersburg)
S.A. Zenin (Novosibirsk)
A.B. Vygovsky (Kaliningrad)

S.A. Zenin (Novosibirsk) 20 min
Common issues and perspectives of implanted electrode systems

D. Luria (Israel) 20 min
His stimulation — is it the best way for cardiac pacing

A. Curnis (Italy) 20 min
Leadless pacemaker as an alternative to classical pacing systems

V.K. Lebedeva (St. Petersburg) 20 min
Perspectives of cardiac pacing

Discussion

MUSEUM HALL | 11.00–12.40

SYMPOSIUM ON SYNTHETIC BIOLOGY (St. Petersburg Polytechnical University)

MUSEUM HALL | 14.00–15.40

SYMPOSIUM ON MEDICAL INSTRUMENTATION (St. Petersburg Electrotechnical University)

LANG HALL | 9.00–10.40

FORUM OF YOUNG ARRHYTHMOLOGISTS IN BASIC ARRHYTHMOLOGY PLENARY SESSION: CURRENT TRANSLATIONAL STUDIES IN CARDIAC ELECTROPHYSIOLOGY

Chairs: B. Olshansky (USA)
A.V. Panfilov (Belgium)
D.S. Lebedev (St. Petersburg)

A.V. Panfilov (Belgium) 30 min
Evaluation of different cardiac arrhythmia mechanisms using precise anatomical modeling

E.N. Mikhaylov (St. Petersburg) 30 min
Cardiac electrophysiology in neuromodulation: experimental and translational studies

A.R. Kiselev (Saratov) 20 min
Methods of cardiovascular physiology nonlinear dynamics

N. Harlaar (Netherlands) 20 min
Excised human atrial tissue for in-depth disease investigation and drug screening: from molecule to man

Discussion

LANG HALL | 11.00–12.20

FORUM OF YOUNG ARRHYTHMOLOGISTS IN BASIC ARRHYTHMOLOGY
SCIENTIFIC SESSION 1
CIRCULATING BIOMARKERS, AUTONOMIC REGULATION AND
VISUALIZATION IN ELECTROPHYSIOLOGY

Chairs: S.V. Popov (Tomsk)
 R.B. Tatarsky (St. Petersburg)

M.A. Kercheva (Tomsk) 15 min
 Subclinical inflammation markers and hemodynamic stress in unfavourable left ventricular remodeling in patients with acute myocardial infarction

E.G. Skorodumova (St. Petersburg) 10 min
 Condition of the pathogen-associated molecular pattern in patients with rhythm disorders and acute heart failure decompensation

S.A. Mironov (Moscow) 10 min
 Evaluation of autonomic regulation of systemic circulation based on multichannel photoplethysmogram recording

S.V. Zubarev (St. Petersburg) 10 min
 Role of non-invasive mapping in evaluation of myocardial electrophysiology

A.V. Pavlov (Tyumen) 10 min
 Rationale of intracardiac ultrasound for the high-precision anatomical visualization in arrhythmology

A.V. Patsyuk (St. Petersburg) 10 min
 Sex-related changes in atrial remodeling and intramural innervation in patients with structural heart diseases

V.V. Kirillova (Ekaterinburg) 10 min
 Myocardial remodeling in patients with atrial fibrillation in chronic heart failure

A.A. Vlasov (St. Petersburg) 10 min
 Evaluation of fatty acid metabolism in patients with heart failure

V.A. Ionin (St. Petersburg) 10 min
 Molecular-genetic predictors of atrial fibrillation in patients with metabolic syndrome

Discussion

LANG HALL | 12.30–13.30

FORUM OF YOUNG ARRHYTHMOLOGISTS IN BASIC ARRHYTHMOLOGY
TEAM COMPETITION “ARRHYTHMOLOGY BATTLE”

Chairs: M. Chudzik (Poland)
 R.B. Tatarsky (St. Petersburg)
 V.S. Orshanskaya (St. Petersburg)

Team of the Almazov Centre (St. Petersburg)
 Team of Young Arrhythmologists
 Team of Young Electrophysiologists

LANG HALL | 14.00–15.40

FORUM OF YOUNG ARRHYTHMOLOGISTS IN BASIC ARRHYTHMOLOGY
SCIENTIFIC SESSION 2
MATHEMATICAL MODELING IN ARRHYTHMOLOGY

Chairs: O.E. Solovyova (Ekaterinburg)
 R.B. Tatarsky (St. Petersburg)

P.V. Konovalov (Ekaterinburg) 15 min
 Studies on real anatomical models: myocardial structure and shape and their association with the risk of heart rhythm disorders and contractile dysfunction

Yu.M. Ishbulatov, A.S. Karavaev (Saratov) 15 min
 Mathematical modeling of cardiovascular autonomic regulation

K.S. Ushenin (Ekaterinburg) 10 min
 Mathematical models of solving direct and inverse problems in electrophysiology

T.A. Lubimtseva (St. Petersburg) 10 min
 Development of a personalised predictive model for electrotherapy in high risk of sudden death

H. Dierckx (Belgium) 10 min
 Modelling the initial stages of ventricular fibrillation

A.A. Chernova, A.V. Kuskaeva (Krasnoyarsk) 10 min
 Predicting the development of sick sinus syndrome using the multiple logistic regression model

S.V. Nemtsov (St. Petersburg) 10 min
Role of database management systems for information processing in modern arrhythmology

T. DeCoster (Belgium) 20 min
Arrhythmogenicity of fibro-fatty infiltrations

M.P. Chmelevsky (St. Petersburg) 10 min
Noninvasive panoramic mapping of atrial fibrillation using MRI visualization of fibrous myocardial changes

Discussion

LANG HALL | 16.00–18.00

FORUM OF YOUNG ARRHYTHMOLOGISTS IN BASIC ARRHYTHMOLOGY SCIENTIFIC SESSION 3

Chairs: T.A. Lubimtseva (St. Petersburg)
D.A. Ovchinnikov (St. Petersburg)
O.N. Mamontov (St. Petersburg)

O.N. Mamontov (St. Petersburg) 10 min
Vagal and sympathetic dependent mechanisms of rhythm disturbances: introductory course

O.V. Germanova (Samara) 10 min
Extrasystoles: biomechanics and hemodynamic aspects

E.A. Surkova (Great Britain) 10 min
LBBB: new visualization technologies, treatment tactics

M.P. Chmelevsky (St. Petersburg) 10 min
Radiofrequency ablation of premature ventricular contractions originating from the aortomitral continuity localized by the use of noninvasive epicardial and endocardial panoramic mapping

O.A. Rubanenko (Samara) 10 min
Predictors of atrial fibrillation during coronary artery bypass graft surgery

E.S. Yudaeva (St. Petersburg) 10 min
The effect of hypoxic preconditioning using sodium nitrite on the activity of an isolated rat heart during ischemia-reperfusion

O.N. Dzhioeva, P.V. Egorov (Moscow) 10 min
NOACs: Non-Optimal Anticoagulant Compliance in comorbid elderly patients with heart failure and atrial fibrillation

O.I. Efimova (Samara) 10 min
Educational technologies for patients with atrial fibrillation for secondary stroke prevention

T.S. Loevets (St. Petersburg) 10 min
Effectiveness of interventional treatment of atrial tachyarrhythmias in children

S.V. Nemtsov (St. Petersburg) 10 min
Complications of ICD therapy

M.A. Naymushin (St. Petersburg) 10 min
Robotic catheter ablation

FILATOV HALL | 9.00–10.40

FORUM OF PEDIATRIC CARDIOLOGISTS AND CARDIAC SURGEONS CARDIOLOGICAL ASPECTS OF LEFT HEART HYPOPLASIA. DIAGNOSTICS AND MANAGEMENT AFTER SURGICAL REPAIR. ISSUES AND COMPLICATIONS DURING THE LONG-TERM FOLLOW-UP

Chairs: R.R. Movsesyan (St. Petersburg)
I.A. Kovalev (Moscow)

A.L. Tsytko (St. Petersburg) 15 min
Prenatal diagnosis of left heart hypoplasia
Role of prenatal consultation

A.N. Yakovleva (St. Petersburg) 15 min
Newborn with hypoplasia of the left heart chambers: management of neonatal period and preparation for the first stage of hemodynamic correction

R.R. Movsesyan (St. Petersburg) 20 min
Surgery for left heart hypoplasia

I.V. Plotnikova, O.Yu. Dzhaifarova, L.I. Svintsova, V.V. Saushkin, I.A. Kovalev (Tomsk, Moscow) 20 min
Cardiac arrhythmias in children with functionally single ventricle: risks, outcomes, treatment tactics

E.S. Vasichkina, A.A. Chernysh (St. Petersburg) 15 min
Indications for medical treatment and choice of drug therapy for CHF in patients with functionally single ventricle. When to use anticoagulants and antiplatelets?

T.K. Kruchina (St. Petersburg) 15 min
Follow-up of children with a functionally single ventricle. Role of pediatric cardiologist

Discussion

FILATOV HALL | 11.00–12.40

SYMPOSIUM UNRESOLVED ISSUES OF PACING IN PEDIATRICS

Chairs: M.L. Kandinsky (Krasnodar)
V.V. Minaev (Moscow)
S.A. Termosesov (Moscow)

V.V. Minaev (Moscow) 20 min
Endocardial stimulation in children weighing from 15 to 20 kg: pros and cons.
Pros

S.V. Gureev (St. Petersburg) 20 min
Endocardial stimulation in children weighing from 15 to 20 kg: pros and cons.
Cons

S.N. Krivolapov (Tomsk) 20 min
Lead extractions in children

M.L. Kandinsky (Krasnodar) 20 min
Prevention of sudden cardiac death in children

H. Poghosyan (Armenia) 15 min
Uncommon presentation of AV block in a child — a case report

Discussion

FILATOV HALL | 14.00–15.40

SYMPOSIUM CATHETER ABLATION IN CHILDREN

Chairs: D.S. Lebedev (St. Petersburg)
R.B. Tatarsky (St. Petersburg)
E.A. Ivanitsky (Krasnoyarsk)

R.B. Tatarsky (St. Petersburg) 15 min
A single-centre experience: registry of catheter ablation in children (Almazov National Medical Research Centre)

R. Garipov (Moscow) 20 min
Complex cases of catheter ablation of supraventricular tachycardias in children

E.A. Ivanitsky (Krasnoyarsk) 20 min
Complex cases of catheter ablation of ventricular tachycardias in children

S.A. Termosesov (Moscow) 20 min
Cryoablation therapy in children

M.L. Kandinsky (Krasnodar) 10 min
When to ablate WPW phenomenon: the opinion of an expert surgeon

T.K. Kruchina (St. Petersburg) 10 min
WPW phenomenon in children: active treatment or observation — opinion of an expert pediatrician

Discussion

FILATOV HALL | 16.00–18.00

MEETING OF THE LEADING SPECIALISTS IN PEDIATRIC CARDIOLOGY OF THE NORTH-WEST REGION

Participants: the leading specialists of the North-West Region: E.S. Vasichkina (St. Petersburg), L.A. Zubov (Arkhangelsk), I.L. Istomina (Novgorod region), L.V. Kozlovskaya (Leningrad region), I.V. Lyapisaeva (Karelia), A.P. Muratova (Nenets Autonomous Area), N.S. Nekhaeva (Vologda region), T.M. Pervunina (St. Petersburg), N.V. Slizovsky (St. Petersburg), P.I. Solonovich (Pskov region), S.V. Surikova (Kaliningrad), N.F. Chipsanova (Komi), E.O. Shtolder (Murmansk region); pediatric cardiologists

POSTER SESSION

PETER'S ASSEMBLY HALL | 8.30–13.00

POSTER SESSION 2

ARRHYTHMOLOGY: FROM BASIC SCIENCE TO CLINICAL PRACTICE

Chairs: S.P. Mikhaylov (Ekaterinburg)
P.V. Krasnoperov (St. Petersburg)
A.Ya. Kosonogov (Nizhny Novgorod)

V.V. Kirillova (Ekaterinburg)

Remodeling of the myocardium in patients with atrial fibrillation in chronic heart failure

A.V. Solovyova, V.M. Vulekh, M.S. Yakushina, A.V. Cheskidov (Ryazan)

Association between supraventricular arrhythmias and interatrial septal lipomatosis in patients with abdominal fat deposition

T.G. Kulikova, M.P. Valikhov, A.D. Voronova, O.V. Stepanova, A.N. Samko, V.P. Masenko, S.N. Tereschenko (Moscow)

Pathological remodeling of the myocardium in heart failure

S.E. Mamchur, E.A. Khomenko, O.M. Chistyukhin, N.S. Bokhan, T.Yu. Chichkova, M.P. Romanova, I.N. Sizova, V.V. Evtushenko, I.N. Mamchur (Kemerovo)

Modulation of cardiac contractility improves intraventricular synchronization and myocardial deformation

S.V. Garkina, M.A. Naymushin, S.V. Gureev, D.S. Lebedev (St. Petersburg)

Manual catheter ablation versus robotic navigation for atrial fibrillation pulmonary vein isolation

A.V. Dubovaya (Ukraine), G.E. Sukhareva (Simferopol)

Role of chemical elements in arrhythmogenesis

N.A. Skuratova (Belarus)

Anamnestic data in young athletes with “vagal-dependent” ECG pattern

A.S. Ospanova, A.S. Kerimkulova, T.Kh. Rymbaeva (Kazakhstan)

Indicators of carbohydrate metabolism imbalance in adolescents with arterial hypertension

L.A. Bokeria, R.A. Abdulgasanov, Yu.R. Provotorova, M.R. Abdulgasanova, A.V. Ivanov, M.D. Magomedyaev (Moscow)

Secondary arterial hypertension: contemporary diagnostic and treatment modalities

G.V. Odintsova, A.A. Chugunova, N.E. Ivanova, (St. Petersburg)

Priority course of rehabilitation in female patients with epilepsy

M.Y. Sitnikova, M.A. Trukshina, E.A. Lysnikova, V.L. Galenko, T.A. Lelyavina, I.E. Titova, S.V. Urina, S.M. Kashuba, V.M. Tishkova, P.A. Fedotov, M.L. Abramov, E.N. Mikhaylov, E.I. Zubarev, M.A. Vander, O.F. Stovpyuk, D.S. Lebedev, I.M. Kim, K.V. Simonova, A. Mozalev, E.V. Shlyakhto (St. Petersburg)

Contractility modulation in patients with heart failure and reduced ejection fraction: looking into the near future

V.S. Orshanskaya, A.V. Kamenev, V.A. Titov, M.A. Naymushin, R.B. Tatarsky, O.F. Stovpyuk, S.V. Garkina, E.N. Mikhaylov, L.B. Mitrofanova, O.M. Moiseeva, D.S. Lebedev (St. Petersburg)

Association between an extent of electroanatomical substrate, circulating profibrotic biomarkers and myocardial tissue morphology in patients with atrial fibrillation and heart failure

S.V. Garkina, R.B. Tatarsky, D.S. Lebedev, V.K. Lebedeva, T.A. Lubimtseva, V.S. Orshanskaya, A.V. Kamenev, Yu.V. Miller, E.N. Mikhaylov, S.V. Gureev (St. Petersburg)

Effective catheter treatment of atrial tachyarrhythmias in non-responders to cardiac resynchronization therapy

S.V. Garkina, R.B. Tatarsky, T.A. Lubimtseva, S.V. Gureev, V.K. Lebedeva, E.N. Mikhaylov, D.S. Lebedev (St. Petersburg)

Pregnancy in long QT syndrome and implanted cardioverter-defibrillator for secondary prevention

S.V. Garkina, S.V. Nemtsov, V.K. Lebedeva, R. Konoshkova, S.V. Gureev, R.B. Tatarsky, D.S. Lebedev, G. Nikolaev (St. Petersburg)

Autoimmune pericarditis after device implantation and atrial lead reposition

M.V. Lebedeva, D.I. Lebedev, S.V. Popov (Tomsk)

Sinus rhythm restoration contributes to better effectiveness of cardiac resynchronization therapy in patients with severe heart failure and chronic atrial fibrillation

D.I. Lebedev, M.V. Lebedeva, S.V. Popov (Tomsk)

Preserved right ventricular systolic function as a predictor of the response to cardiac resynchronization therapy

JUNE 9, 2018

	KOROTKOV HALL	BOTKIN HALL	LIBRARY HALL
10.00–11.50	Symposium Premature Ventricular Contraction: When to Treat?	Symposium Noninvasive Diagnostics in Arrhythmology and SCD Risk Assessment	Saint Petersburg Club of Electrophysiologists Technologies for Reducing X-ray Radiation Dose for Operators
12.00–13.50	Russian-Croatian Symposium Novel Approaches to Ventricular Tachycardias	Symposium Innovations in Outpatient Management of Patients with Ventricular Arrhythmias	Saint Petersburg Club of Electrophysiologists New Techniques for Navigation Mapping Rhythmia Club <i>(sponsored by Boston Scientific)</i>
14.00–16.00	Symposium Innovations in Somnology	Symposium Mathematical Analysis and Modeling in Arrhythmology	Saint Petersburg Club of Electrophysiologists Current Issues in Arrhythmology. Translational Research, Diagnostic and Treatment Approaches

JUNE 9, 2018

	PETER'S ASSEMBLY HALL	LANG HALL	MUSEUM HALL
	Round Table Emergency Specialized Medical Care for Patients with Ventricular Tachycardia and Sudden Death in St. Petersburg. The EXPERT-VT Programme Workflow Chart: 2 Years of Follow-Up	Forum of Young Arrhythmologists in Basic Arrhythmology Scientific session 4	Antithrombotic Forum Emboic Stroke: Diagnosis, Prevention and Treatment
	Symposium Electroanatomical Substrate of Cardiac Arrhythmias: Current Views and Diagnostic Criteria	Forum of Young Arrhythmologists in Basic Arrhythmology Scientific session 5 Forum of Young Arrhythmologists in Basic Arrhythmology Scientific session 6	Antithrombotic Forum Harmonization of Clinical Needs and Laboratory Resources in Antithrombotic Treatment

JUNE 9, 2018**KOROTKOV HALL | 10.00–11.30****SYMPOSIUM****PREMATURE VENTRICULAR CONTRACTION: WHEN TO TREAT?**

Chairs: E. Ovsyshcher (Israel)
D.A. Tsaregorodtsev (Moscow)

E. Ovsyshcher (Israel) 20 min
PVB in patients with low EF: how to manage?

M.L. Kandinsky (Krasnodar) 20 min
Management of premature contractions: when to use catheter ablation?

D.A. Tsaregorodtsev (Moscow) 20 min
Management of premature contractions: is there an ideal medication?

H. Poghosyan (Armenia) 20 min
Ventricular arrhythmia during pregnancy in patients without structural heart disease. Should everything be treated?

Discussion

KOROTKOV HALL | 11.45–14.00**RUSSIAN-CROATIAN SYMPOSIUM ON ARRHYTHMOLOGY
NOVEL APPROACHES TO VENTRICULAR TACHYCARDIAS**

Chairs: D. Miličić (Croatia)
S.V. Popov (Tomsk)
Š. Manola (Croatia)
D.S. Lebedev (St. Petersburg)

Š. Manola (Croatia) 15 min
Imaging in VT ablation

S. Brusich (Croatia) 15 min
Approaches to ventricular arrhythmias in patients with structurally normal heart

N. Pavlović (Croatia) 15 min
Ablation of VT in patients with ischaemic heart disease — when, how to whom?

V. Velagić (Croatia) 15 min
Ablation of VT in patients with non-ischaemic heart disease — when, how to whom?

E.N. Mikhaylov (St. Petersburg) 15 min
Neuromodulation for VT therapy

R.B. Tatarsky (St. Petersburg) 15 min
Electrical storm in patients with ICD: current approaches and role of catheter ablation

E.A. Ivanitsky (Krasnoyarsk) 15 min
Epicardial ablation of ventricular tachycardia

S.N. Krivolapov (Tomsk) 15 min
Remote monitoring to estimate the RFA efficiency

Discussion

KOROTKOV HALL | 14.00–15.40**SYMPOSIUM
INNOVATIONS IN SOMNOLOGY**

Chairs: Yu.V. Sviryaev (St. Petersburg)
S.I. Vataev (St. Petersburg)

S.I. Vataev (St. Petersburg) 20 min
Assessing states associated with physical inactivity in animals and humans: The role of evolutionary approach

Yu.V. Sviryaev, L.S. Korostovtseva (St. Petersburg) 20 min
Innovative approaches in treatment of sleep-disordered breathing

E.A. Dubinina (St. Petersburg) 20 min
Sleep-disordered breathing and psychosocial cardiovascular risk factors

M.V. Bochkarev (St. Petersburg) 20 min
Telemedicine in somnology

E.A. Medvedeva (St. Petersburg) 20 min
Sleep disturbances in patients with severe heart failure with reduced ejection fraction: prognosis and management

Discussion

BOTKIN HALL | 10.00–12.00**SYMPOSIUM****NONINVASIVE DIAGNOSTICS IN ARRHYTHMOLOGY AND SCD RISK ASSESSMENT**

Chairs: S.A. Saiganov (St. Petersburg)
V.S. Nikiforov (St. Petersburg)

S.A. Saiganov, T.Yu. Gromyko (St. Petersburg) 20 min
Role of echocardiography in the estimation of atrial fibrillation recurrence risk

V.S. Nikiforov (St. Petersburg) 20 min
Current approaches to noninvasive diagnostics of arrhythmogenic cardiomyopathy

S.L. Grishaev, K.N. Tkachenko, A.E. Alanichev (St. Petersburg) 20 min
Effect of Refralon® on specific parameters of the electrocardiographic cycle in patients with atrial fibrillation

V.Yu. Sukhov (St. Petersburg) 20 min
Diagnostic potential of nuclear cardiology methods for non-coronary heart rhythm disorders

K.V. Metso, V.S. Nikiforov (St. Petersburg) 20 min
Non-invasive risk stratification of sudden death in subjects of working age

Discussion

BOTKIN HALL | 12.00–14.00**SYMPOSIUM****INNOVATIONS IN OUTPATIENT MANAGEMENT OF PATIENTS WITH VENTRICULAR ARRHYTHMIAS**

Chairs: V.M. Tikhonenko (St. Petersburg)
Yu.E. Teregulov (Kazan)
E.R. Berngardt (St. Petersburg)

Yu.E. Teregulov, L.F. Salyamova (Kazan) 20 min
Approaches to non-invasive evaluation of ventricular ectopy mechanisms

M.A. Budanova, M.P. Chmelevsky, V.M. Tikhonenko, T.V. Treshkur (St. Petersburg) 15 min
Automated Holter monitoring program for differentiating tachycardias with wide QRS complexes

T.E. Tulintseva, A.A. Tatarinova, V.M. Tikhonenko, E.V. Parmon, T.V. Treshkur (St. Petersburg) 15 min
Project of unified ECG monitoring conclusion for a patient with ventricular ectopy

E.V. Parmon, M.S. Gordeeva, T.A. Kurilenko, D.V. Ryzhkova (St. Petersburg) 15 min
Method for early detection of myocardial fibrosis using electrocardiographic markers of impaired depolarization

T.V. Treshkur, T.E. Tulintseva, D.Yu. Alekseeva, E.S. Zhabina (St. Petersburg) 15 min
Algorithm for outpatient management of patients since the diagnosis of ventricular arrhythmia

E.A. Ryngach, A.A. Tatarinova, T.V. Treshkur (St. Petersburg) 20 min
Treatment algorithm for patients with ventricular arrhythmias and stable coronary artery disease

Discussion

BOTKIN HALL | 14.00–15.40**SYMPOSIUM****MATHEMATICAL ANALYSIS AND MODELING IN ARRHYTHMOLOGY**

Chairs: O.E. Solovyova (Ekaterinburg)
S.M. Yashin (St. Petersburg)
T.A. Lubimtseva

A.M. Rizaev, N.V. Ustyantseva, A.I. Mikhailovicheva (Moscow) 15 min
Certain dispersion mapping parameters in male smokers aged 18 to 40 years

V.V. Kislukhin, E.V. Kislukhina (Moscow) 15 min
Stochastic interpretation of sinus arrhythmia

A.M. Zolotarev (Moscow) 15 min
Assessing the effectiveness of various methods for locating phase singularities in atrial fibrillation

S.V. Bozhokin, E.M. Lesova, V.O. Samoilov, D.E. Tarakanov (St. Petersburg) 15 min
Unsteady heart rate variability during respiratory testing

T.A. Lubimtseva (St. Petersburg) 15 min
Mathematical modeling in arrhythmology: the clinician's view

I.Sh. Khasanov (Germany) 15 min
Possible approaches to the physiological assessment of electrical cardiac therapy with pacemakers and ICDs

Discussion

LIBRARY HALL | 10.00–11.40

SAINT PETERSBURG CLUB OF ELECTROPHYSIOLOGISTS TECHNOLOGIES FOR REDUCING X-RAY RADIATION DOSE FOR OPERATORS

Chairs: E.A. Ivanitsky (Krasnoyarsk)
R.B. Tatarsky (St. Petersburg)
V.N. Fedorets (St. Petersburg)

R.B. Tatarsky (St. Petersburg) 20 min
Standards for operator protection during X-ray interventional procedures

D.V. Kryzhanovsky (St. Petersburg) 20 min
Role of intracardiac echocardiography (ICE) in contemporary electrophysiology

E.A. Ivanitsky (Krasnoyarsk) 20 min
Zero Fluoro — new standard of catheter ablation in arrhythmology

S.A. Termosesov (Moscow) 20 min
Robotic ablation in arrhythmia management

Discussion

LIBRARY HALL | 12.00–13.50

SAINT PETERSBURG CLUB OF ELECTROPHYSIOLOGISTS NEW TECHNIQUES FOR NAVIGATION MAPPING RHYTHMIA CLUB

Sponsored by Boston Scientific

Moderators: E.A. Artyukhina (Moscow)
M.L. Kandinsky (Krasnodar)
E.N. Mikhaylov (St. Petersburg)

J. Kosiuk (Germany) 15 min
RHYTHMIA Electroanatomical Mapping System: experimental and clinical experience

A. Sergeev (Moscow) 15 min
Combined mapping and navigation using the Rhythmia system

M.L. Kandinsky (Krasnodar) 15 min
Navigation mapping: the practical needs of arrhythmology

E.A. Artyukhina (Moscow) 15 min
Additional possibilities and prospects in AF treatment using the novel precision mapping system

O.V. Sapelnikov (Moscow) 15 min
RHYTHMIA Mapping System: capabilities for ventricular ectopy ablation

G. Golovchiner (Israel) 15 min
MiFi technology: new mapping capabilities

Discussion

LIBRARY HALL | 14.00–16.00

SAINT PETERSBURG CLUB OF ELECTROPHYSIOLOGISTS CURRENT ISSUES IN ARRHYTHMOLOGY. TRANSLATIONAL RESEARCH, DIAGNOSTIC AND TREATMENT APPROACHES

Chairs: S.M. Yashin (St. Petersburg)
E.A. Artyukhina (Moscow)
S.N. Artemenko (St. Petersburg)

O.A. Germanova, A.V. Germanov, N.N. Kryukov (Samara) 15 min
Premature ventricular contractions: biomechanics, hemodynamics, classification and complications

E.M. Gupalo, N.A. Mironova, O.V. Stukalova, O.P. Aparina, M.D. Utsumueva, S.P. Golitsyn (Moscow) 15 min
MRI-detected structural myocardial changes in the left ventricle and the effectiveness of cardiac contractility modulation

N.V. Arteeva, T.A. Kurilenko, E.V. Parmon
(Syktyvkar, St. Petersburg) 15 min

Heterogeneity of ventricular repolarization in arrhythmogenic dysplasia of the right ventricle

E.V. Pshenichnaya, N.A. Tonkikh (Ukraine) 15 min
Cardiorespiratory and ANS values in young males before the age of 21

A.A. Tatarinova, E.A. Ryngach, T.V. Treshkur (St. Petersburg) 15 min
Triggers as a basis for personalized treatment of ventricular arrhythmias in patients with CAD

I.N. Vasilieva, V.G. Bepalov, A.L. Semenov, V.G. Tochilnikov, V.A. Romanov, I.K. Alvovsky, Yu.D. Von (St. Petersburg) 15 min
Cell-free DNA as a marker of ageing: experimental study

PETER'S ASSEMBLY HALL | 10.00–11.40

ROUND TABLE

EMERGENCY SPECIALIZED MEDICAL CARE FOR PATIENTS WITH VENTRICULAR TACHYCARDIA AND SUDDEN DEATH IN ST. PETERSBURG. THE EXPERT-VT PROGRAMME WORKFLOW CHART: 2 YEARS OF FOLLOW-UP

Moderators: T.N. Zasukhina (St. Petersburg)
V.V. Pilipenko (St. Petersburg)
M.A. Karpenko (St. Petersburg)
D.S. Lebedev (St. Petersburg)
T.N. Novikova (St. Petersburg)
S.M. Yashin (St. Petersburg)
S.A. Boldueva (St. Petersburg)

T.N. Novikova (St. Petersburg) 20 min
Interventional arrhythmology in St. Petersburg. Data from the city's antiarrhythmic centre. Cardiac pacing, treatment of supraventricular tachyarrhythmias

D.S. Lebedev (St. Petersburg) 20 min
Interventional arrhythmology in St. Petersburg. Management of ventricular tachyarrhythmias and sudden cardiac death prevention

R.B. Tatarsky (St. Petersburg) 20 min
Emergency catheter ablation in patients with ventricular tachycardia. Experience of the Almazov National Medical Research Centre

Discussion

PETER'S ASSEMBLY HALL | 12.00–13.30

SYMPOSIUM

ELECTROANATOMICAL SUBSTRATE OF CARDIAC ARRHYTHMIAS: CURRENT VIEWS AND DIAGNOSTIC CRITERIA

Chairs: O.M. Moiseeva (St. Petersburg)
L.B. Mitrofanova (St. Petersburg)

L.B. Mitrofanova (St. Petersburg) 20 min
"Fibrous cardiomyopathy" in patients with atrial fibrillation: a morphologist's view

V.A. Titov, K.N. Malikov, A.V. Ryzhkov (St. Petersburg) 20 min
"Fibrous cardiomyopathy" in patients with atrial fibrillation: non-invasive diagnosis

V.S. Orshanskaya (St. Petersburg) 20 min
"Fibrous cardiomyopathy" in patients with atrial fibrillation: efficacy of AF ablation

O.P. Aparina, O.V. Stukalova, N.A. Mironova, D.V. Parkhomenko, S.P. Golitsyn (Moscow) 20 min
Detection of atrial fibrosis by delayed contrast-enhanced MRI findings: clinical relevance in atrial fibrillation

Discussion

LANG HALL | 10.00–11.40

FORUM OF YOUNG ARRHYTHMOLOGISTS IN BASIC ARRHYTHMOLOGY

SCIENTIFIC SESSION 4 ARRHYTHMIAS IN CONGENITAL HEART DISEASE

Chairs: O.M. Moiseeva (St. Petersburg)
A.V. Kozlenok (St. Petersburg)
E.A. Surkova (Great Britain)

O.F. Stovpyuk (St. Petersburg) 15 min
Arrhythmias in congenital heart disease

A.V. Kozlenok, S.L. Verbilo (St. Petersburg) 10 min
Echocardiographic evaluation of the right ventricle

E.A. Surkova (Great Britain) 10 min
The role of new visualization techniques in adults with congenital heart diseases

K.A. Ivanova (St. Petersburg) 10 min
Risk of sudden cardiac death in congenital heart disease

S.V. Garkina (St. Petersburg) 10 min
Adult patient with congenital heart defects: cardiologist's view

R.B. Tatarsky (St. Petersburg) 10 min
Catheter ablation of incisional tachycardias after correction of congenital heart defects

Discussion

LANG HALL | 11.00–12.15

FORUM OF YOUNG ARRHYTHMOLOGISTS IN BASIC ARRHYTHMOLOGY

SCIENTIFIC SESSION 5 MOLECULAR AND GENETIC ASPECTS OF HEART RHYTHM DISORDERS

Organized in collaboration with the EHRA Young EP Committee

Chairs: J. Kosiuk (Germany)
E.N. Mikhaylov (St. Petersburg)
S.N. Krivolapov (Tomsk)

N. Harlaar (Netherlands) 10 min
Excised human atrial tissue for in-depth disease investigation and drug screening: from molecule to man

A.L. Runov (St. Petersburg) 10 min
Molecular and genetic mechanisms of myocardial fibrosis

E.V. Efimova (Germany) 10 min
Molecular and genetic basis of channelopathies

D.A. Ovchinnikov (St. Petersburg) 0 min
Novel approaches to the study of vertigo etiology

A.V. Kuskaeva (Krasnoyarsk) 10 min
RAAS genes in pathogenesis of atrial fibrillation

M.V. Yashkov (Moscow) 10 min
Use of domestically made invasive and non-invasive mapping systems for interventional treatment of ventricular arrhythmias

V.A. Titov (St. Petersburg) 10 min
Role of fibrotic markers in atrial fibrillation initiation and progress

Discussion

LANG HALL | 12.20–14.00

FORUM OF YOUNG ARRHYTHMOLOGISTS IN BASIC ARRHYTHMOLOGY

SCIENTIFIC SESSION 6 REAL CLINICAL PRACTICE: CASE PRESENTATION

Chairs: Yu.V. Miller (St. Petersburg)
S.V. Gureev (St. Petersburg)
M.A. Trukshina (St. Petersburg)

L.P. Kruk, V.A. Malko (St. Petersburg) 7 min
Patient with aortic stenosis and atrial fibrillation

M.A. Kercheva (Tomsk) 7 min
Brugada syndrome under the mask of acute coronary syndrome

K.A. Ivanova (St. Petersburg) 7 min
Management of patients with ICD in pediatric practice

A.A. Semenov (St. Petersburg) 7 min
Complications of endocardial electrode implantation for temporary pacing

P.A. Matveenko (St. Petersburg) 7 min
Effective approach for implantation of CRT devices: series of clinical observations

E.V. Efimova (Germany) 7 min
Planned cardioversion in elderly patients: potential complications

O.N. Dzhioeva, P.V. Egorov (Moscow) 7 min
Planned cardioversion in patients at high risk of complications receiving NOAC

O.I. Efimova (Samara) 7 min
Treatment tactics in cardioembolic and hemorrhagic stroke in patients with atrial fibrillation: difficult choice

O.M. Kornelyuk (Minsk) 7 min
Treatment tactics in a patient with sustained hemodynamically tolerated ventricular tachycardia after mitral valve replacement

O.A. Nikolaeva, O.V. Sapelnikov, D.I. Cherkashin, I.R. Grishin (Moscow) 7 min
Simultaneous hybrid surgical treatment in a patient with persistent atrial fibrillation resistant to antiarrhythmic drug therapy and catheter treatment

K.A. Simonova (St. Petersburg) 7 min
Epicardial ablation of ventricular tachycardias in patients with ARVC

V.S. Chilingaryan (St. Petersburg) 7 min
Complications of electrophysiological procedures

MUSEUM HALL | 10.00–11.40

ANTITHROMBOTIC FORUM EMBOLIC STROKE: DIAGNOSIS, PREVENTION AND TREATMENT

Chairs: T.M. Alekseeva (St. Petersburg)
I.A. Voznyuk (Novosibirsk)
V.A. Sorokoumov (St. Petersburg)

I.A. Voznyuk (St. Petersburg) 20 min
The role of cardiac embolism for stroke epidemiology: current state of the problem

M.L. Chukhlovina (St. Petersburg) 20 min
Cardioembolic stroke in the young

S.S. Kucherenko (St. Petersburg) 20 min
Secondary prevention of ischemic stroke in patients with atrial fibrillation

K.V. Davtyan (Moscow) 20 min
Left atrial appendage occlusion as a way out of difficult situations?

V.S. Orshanskaya (St. Petersburg) 20 min
Catheter ablation as prevention of stroke in atrial fibrillation

Discussion

MUSEUM HALL | 12.00–13.40

ANTITHROMBOTIC FORUM HARMONIZATION OF CLINICAL NEEDS AND LABORATORY RESOURCES IN ANTITHROMBOTIC TREATMENT

Moderators: N.M. Vavilova (St. Petersburg)
L.P. Papayan (St. Petersburg)

A.Yu. Zemchenkov (St. Petersburg) 15 min
Nephrological aspect of anticoagulant therapy: risks and solutions

O.V. Sirotkina (St. Petersburg) 15 min
Pharmacogenetic technologies for personalized use of antithrombotic drugs: what's new?

O.S. Melnichnikova (St. Petersburg) 15 min
New technologies for the integral evaluation of hemostatic system — T-TAS analysis and thrombin generation test

L.P. Papayan (St. Petersburg) 15 min
To measure or not to measure: laboratory capabilities for measuring the anticoagulant effect

T.V. Vavilova (St. Petersburg) 15 min
Clinical utility of D-dimer

V.V. Dorofeikov (St. Petersburg) 15 min
Why determine the macroforms of creatine kinase and MB isoenzyme in human serum?

S.V. Lapin (St. Petersburg) 15 min
Pitfalls in the detection of antiphospholipid antibodies

Discussion

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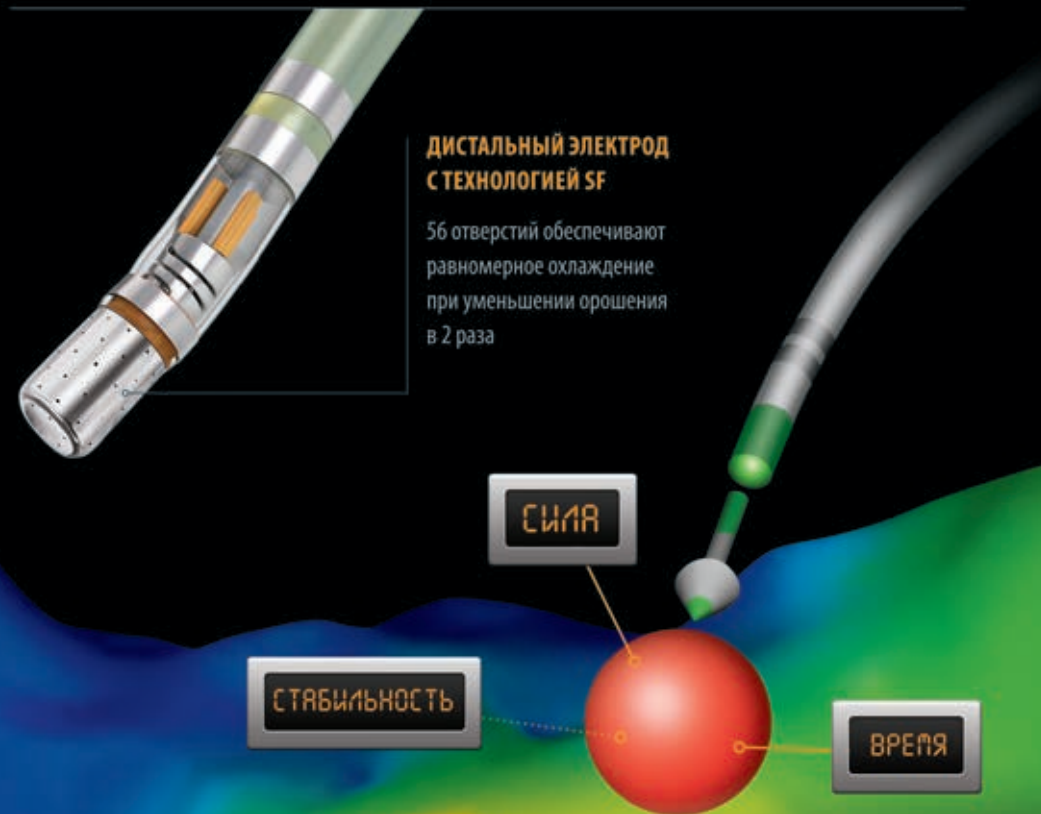
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* Catheter Type SmartTouch
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Обеспечение надежного контакта катетера с тканью сердца является важной задачей катетерной абляции для избежания расширения радиочастотной энергии с контролирующим эффектом. Таким образом, при обеспечении надежного контакта катетера с тканью достигается в 2 раза уменьшение расхода ирригационного раствора в режиме (рекомендации ESC - Европейского Общества Кардиологии)
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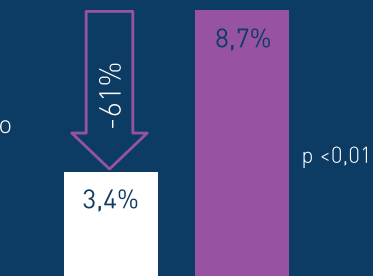
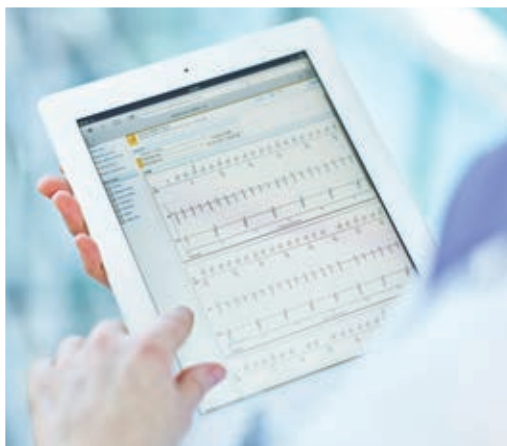


Диаграмма снижения смертности от всех причин у пациентов с ИКД и CRT-D спустя 12 месяцев после рандомизации

- Группа пациентов с BIOTRONIK Home Monitoring® (n = 333)
- Контрольная группа (n = 331)



*Hindricks G et al. Implant-based multiparameter telemonitoring of patients with heart failure (IN-TIME): a randomised controlled trial. The Lancet 2014; 384(9943).



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AdaptivCRT улучшает CRT ответ

По сравнению с эхо-оптимизацией CRT у пациентов с нормальным АВ проведением.

¹ BHT M, et al. Utilizing Short Spacing between Quadripolar LV lead Electrodes to Avoid PNS. Cardiac 2014, Poster presentation, Session 56P

² BHT M, Foerster L, Eastman W, et al. Effect of bipolar electrode spacing on phrenic nerve stimulation and left ventricular pacing thresholds: an acute canine study. Circ Arrhythm Electrophysiol. August 1, 2012;54(8):15-20.

³ BHT M, Zanon F, Bertaglia E, et al. Short-spaced dipole for managing phrenic nerve stimulation in patients with CRT: the "phrenic nerve mapping and stimulation EP" catheter study. Heart Rhythm. January 2013;10(1):39-45.

Цифровой имплантируемый кардиостимулятор-дефибриллятор Viva Quad XT с функцией сердечной ресинхронизирующей терапии, государственная регистрация медицинского изделия от 27.11.2017 PPH 2017/6505

Электрод для стимуляции в кардиальной вене Attain Performa, государственная регистрация изделия от 26.12.2017 PPH 2017/6530

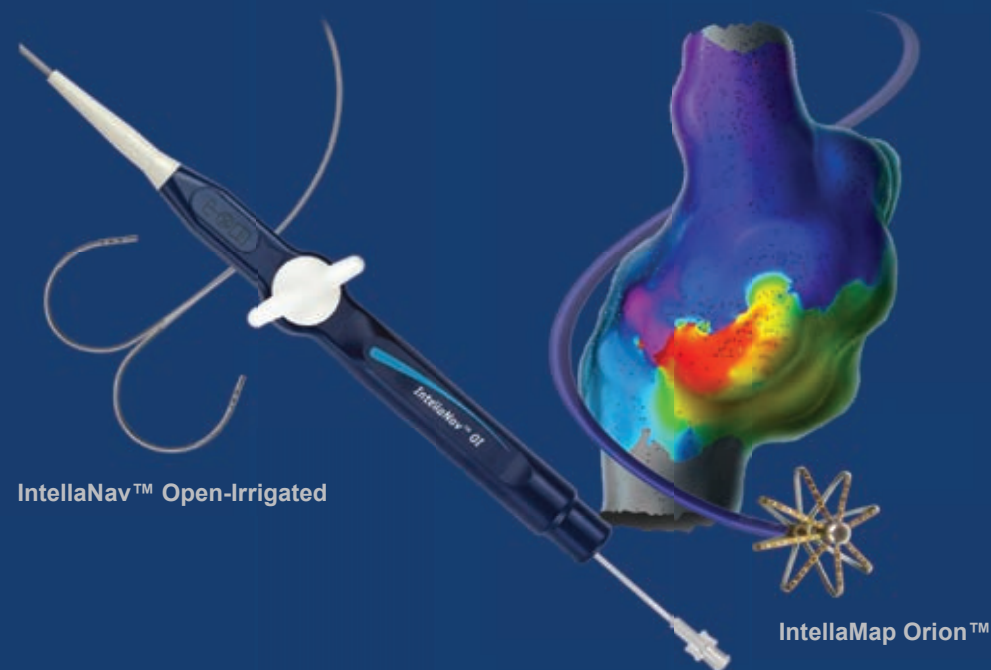
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CONFERENCE VENUE

Almazov National Medical Research Centre
(St. Petersburg, 2 Akkuratova street)

CONTACTS

PR Department of the Almazov Centre

Phone / Fax +7 (812) 702-37-16, +7 (812) 702-37-17
e-mail: conference@almazovcentre.ru

Technical organizer Almazov Foundation Fund

Phone / Fax +7 (812) 702-37-34, ext. 005359, +7 (921) 418-12-88
e-mail: fond-hmt@yandex.ru

Correspondence address

197341, St. Petersburg, 2 Akkuratova street