



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

## 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](mailto: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](mailto:fond-hmt@yandex.ru)

### Correspondence address

197341, St. Petersburg, 2 Akkuratova street

21<sup>st</sup> 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),	D.N. Maistrenko (St. Petersburg),
E.I. Baranova (St. Petersburg),	D.Yu. Minkin (St. Petersburg),
A.V. Bukhanovsky (St. Petersburg),	L.B. Mitrofanova (St. Petersburg),
T.V. Vavilova (St. Petersburg),	O.M. Moiseeva (St. Petersburg),
E.S. Vasichkina (St. Petersburg),	A.O. Nedoshivin (St. Petersburg),
M.M. Galagudza (St. Petersburg),	T.M. Pervunina (St. Petersburg),
M.L. Gordeev (St. Petersburg),	S.V. Popov (Tomsk),
E.Z. Golukhova (Moscow),	A.Sh. Revishvili (Moscow),
M.V. Dubina (St. Petersburg),	M.Yu. Sitnikova (St. Petersburg),
K.M. Ivanov (St. Petersburg),	S.O. Scarlato (St. Petersburg),
M.A. Karpenko (St. Petersburg),	B.A. Tatarsky (St. Petersburg),
A.A. Kostareva (St. Petersburg),	M.L. Firsov (St. Petersburg),
A.S. Krasichkov (St. Petersburg),	A.P. Shevchik (St. Petersburg),
D.S. Lebedev (St. Petersburg),	A.N. Yakovlev (St. Petersburg)
A.V. Lopota (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. Sviryaev (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. Presenters will answer questions 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. Posters should be removed prior to 17.00. 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.

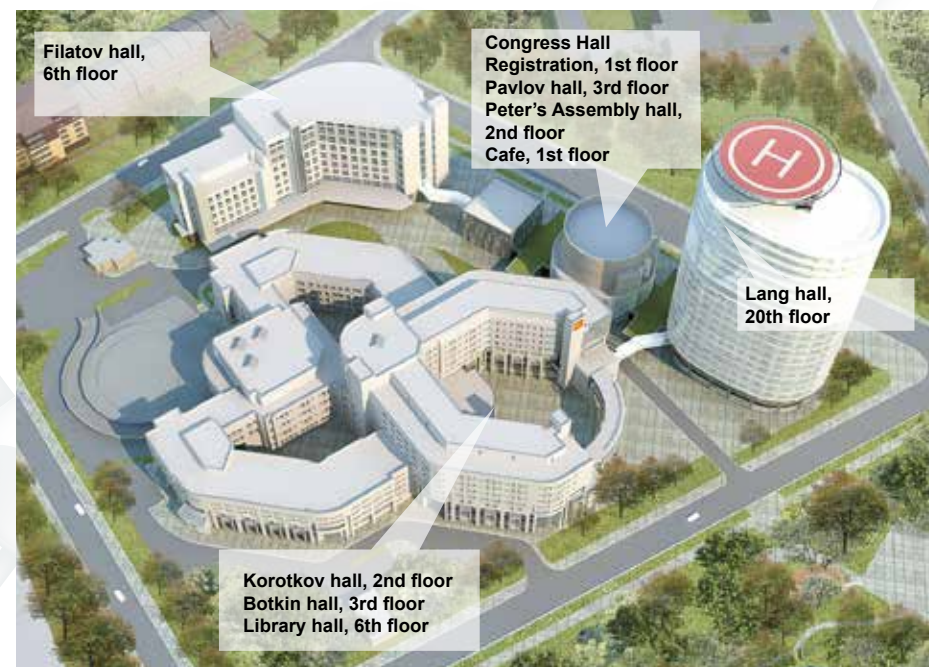
### EXHIBITION

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	<b>Forum</b> Innovations in Modern Cardiology	<b>Symposium</b> Current Issues of Sudden Cardiac Death Prevention and Resuscitation in Sudden Cardiac Arrest	<b>Symposium</b> Translational and Basic Arrhythmology Session 1. Cell	<b>Symposium</b> Focal and Rotational Activity in the Genesis of Atrial Fibrillation		<b>Symposium</b> Decision Support Systems in Medicine. Digital Healthcare (ITMO University)	<b>Round Table</b> Arrhythmological Problems in Percutaneous Interventions	<b>Dialogue Workshop</b> Prevention of DM Complications in a Cardiology Patient from the Standpoint of a Cardiologist and an Endocrinologist (sponsored by Valeant)	
11.00–13.00	<b>Grand opening and plenary session</b> 21 <sup>st</sup> 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	<b>Symposium</b> Sudden Death: From Risk Criteria to Prevention	<b>Forum</b> Current Challenges and Solutions in Arrhythmology <b>Session 1</b>	<b>Symposium</b> Translational and Basic Arrhythmology Session 2. Tissue	<b>Symposium</b> Arrhythmogenic Cardiomyopathy: Current Approaches to Diagnosis and Risk Stratification		<b>Round table</b> Strategy and Tactics in the Treatment of Atrial Fibrillation	Semi-finals of the UMNİK programme	<b>Russian-Swedish Symposium</b> on Basic Medicine (sponsored by OPTEK)	<b>Symposium</b> Hot Topics in Pediatric Arrhythmology
16.00–17.40	<b>16.00–16.20 Forum Value-Based Medicine</b>  <b>16.20–17.40 Symposium</b> Optimization of Medical Care for Patients with Chronic Heart Failure as an Example of Value-Based Medicine (sponsored by Novartis Pharma)	<b>Forum</b> Ventricular Tachycardia and Sudden Cardiac Death	<b>Symposium</b> Translational and Basic Arrhythmology Session 3. Organ	Sports Arrhythmology Session		<b>Round table</b> Endocarditis and Implantable Devices	Semi-finals of the UMNİK programme	<b>Russian-Swedish Symposium</b> on Basic Medicine (sponsored by OPTEK)	<b>Forum</b> 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 21<sup>st</sup> 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 21<sup>st</sup> 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****E.V. Shlyakhto, T.N. Zasukhina (St. Petersburg)**

Value-based medicine: the current situation and future perspective. Integrating the value-based approach into the healthcare system

**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***Chair:** E.V. Shlyakhto (St. Petersburg)**E.V. Shlyakhto (St. Petersburg)** 20 min  
Value-based medicine: the current situation and future perspective**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 (Toms)**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. Sjoberg (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	<b>Symposium</b> Cardiac Transplantology	<b>Briefing</b> Recent Clinical Trials in Arrhythmology	<b>Workshop</b> CRT Implantation and Follow-Up <b>Session 1.</b>  CRT Implantation: Strategies, Features, Tips and Tricks	<b>Symposium</b> Current Issues of Anticoagulant Therapy in Atrial Fibrillation (sponsored by Bayer)
11.00–12.40	<b>Symposium</b> Non-Pharmacological Management of Chronic Heart Failure: Necessary Option	<b>Symposium</b> Inherited Genetic Syndromes and Ventricular Tachyarrhythmias	<b>Workshop</b> CRT Implantation and Follow-Up <b>Session 2</b> Contemporary Aspects of CRT  <b>Workshop</b> CRT Implantation and Follow-Up <b>Session 3</b> Complications in Cardiac Implantable Electronic Devices: Prevention and Solutions	<b>Symposium</b> Unresolved Issues in the Treatment of Persistent Atrial Fibrillation: Clinical Case Discussion (sponsored by Biosense Webster)
13.00–14.00	<b>LUNCH</b>			<b>LUNCH</b>
14.00–15.40	<b>Symposium</b> Patient with Chronic Heart Failure: The Arrhythmologist's View	<b>Forum</b> Current Challenges and Solutions in Arrhythmology <b>Session 2</b>	<b>Debate</b> Diagnosis and Prognosis of Arrhythmias: Genetics or Morphology?	<b>Symposium</b> Difficult-to-Treat Patient with Pulmonary Hypertension (sponsored by Bayer)
16.00–18.00	<b>Symposium</b> Arrhythmias and Myocardial Infarction	<b>Symposium</b> Arrhythmias in the Elderly	<b>Symposium</b> Atrial Fibrillation: From Experiment to Clinical Standards	<b>Symposium</b> The Combination of Technologies vs. Combination of Pathologies: How to Help Patients with AF and CHF (sponsored by Medtronic)

## JUNE 8, 2018

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

8.30–13.00 PETER'S ASSEMBLY HALL

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

## JUNE 9, 2018

	PETER'S ASSEMBLY HALL	LANG HALL	MUSEUM HALL
	<b>Round Table</b> 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	<b>Forum of Young Arrhythmologists</b> in Basic Arrhythmology Scientific session 4	<b>Antithrombotic Forum</b> Emboic Stroke: Diagnosis, Prevention and Treatment
	<b>Symposium</b> Electroanatomical Substrate of Cardiac Arrhythmias: Current Views and Diagnostic Criteria	<b>Forum of Young Arrhythmologists</b> in Basic Arrhythmology Scientific session 5  <b>Forum of Young Arrhythmologists</b> in Basic Arrhythmology Scientific session 6	<b>Antithrombotic Forum</b> 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. Dzhoieva, 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