

# RUSSIAN SOCIETY OF CARDIOLOGY

## FORUM OF YOUNG CARDIOLOGISTS

### CONTROVERSIAL ISSUES AND INNOVATIONS IN MODERN CARDIOLOGY

JUNE 3-4, 2021

ONLINE

#### SCIENTIFIC TOPICS OF THE FORUM:

1. Epidemiology, prevention and rehabilitation. Sports medicine
2. Arterial hypertension. CAD, lipids and atherosclerosis
3. Emergency cardiology. Heart failure. Transplantation in cardiology
4. Imaging in cardiology, ultrasound and tomographic technologies
5. Non-coronary diseases, valvular disease, congenital diseases, pediatric cardiology, pulmonary hypertension
6. Cardiovascular surgery, hybrid surgery
7. Interventional cardiology. Arrhythmology, stimulation, resynchronization
8. Interdisciplinary problems in cardiology

#### SCIENTIFIC AND ORGANIZING COMMITTEE

##### HONORARY CHAIRPERSON

*Prof. Evgeny Shlyakhto (Saint-Petersburg, Russia)* – director general of the Almazov National Medical Research Centre, president of the Russian Society of Cardiology

##### CHAIRPERSONS:

*Anastasia Tanicheva (Saint-Petersburg, Russia)* – executive director of the Russian Society of Cardiology

*Prof. Olga Barbarash (Kemerovo, Russia)* – director of the Scientific and Research Center of Complex Cardiovascular Diseases

*Prof. Dmitry Duplyakov (Samara, Russia)* – deputy chief medical officer of the Samara Clinical Cardiology Dispensary

*Prof. Anna Chernova (Krasnoyarsk, Russia)* – professor of the Internal Diseases Chair at the Krasnoyarsk State Medical University

*Dr. Irina Taran (Kemerovo, Russia)* – cardiologist of the Department of surgical treatment of severe arrhythmias and electrocardiostimulation at the Scientific and Research Center of Complex Cardiovascular Diseases, chairperson of the RSC Working Group of Young Cardiologists

##### SCIENTIFIC SECRETARIES:

*Dr. Andrey Vlasov (Volsk, Saratov region, Russia)* – senior researcher at the 33 Central Scientific-Research Experimental Institute

*Dr. Maria Kercheva (Tomsk, Russia)* – cardiologist of the Acute Cardiology Department at the Tomsk National Research Medical Center of the Russian Academy of Sciences

*Dr. Anastasia Kochergina (Kemerovo, Russia)* – researcher of the Circulatory Pathologies Department at the Scientific and Research Center of Complex Cardiovascular Diseases

*Dr. Valentina Kozik (Novosibirsk, Russia)* – researcher at the Novosibirsk State Medical University

*Dr. Irina Mullova (Samara, Russia)* – assistant of the Cardiology and Cardiovascular Surgery Chair at the Samara State Medical University

## **PROGRAMME**

**3<sup>rd</sup> June, 2021**

**10:00 -11:15 Area 1**

**Debate session with interactive questions for the audience**

**Natriuretic peptides in chronic heart failure: pro and contra**

**Co-chair: Duplyakov D.V. (PhD, professor, Deputy Chief Doctor for Medical Affairs of Samara Regional Clinical Cardiology Dispensary named after V.P. Polyakov, Chief cardiologist of the Samara region, Samara, Russia), Dzhioeva O.N. (PhD, National research center for therapy and preventive medicine, Moscow, Russia), Mareev Yu.V. (PhD, Moscow), Soloveva A.E. (PhD, St. Petersburg)**

**1st Question for the audience**

10:00-10:05-**Fedorova D.N.**, (MD, Saint Petersburg). «**Introduction. Natriuretic peptides: what are these and what is their role?**»

10:06-10:11 - **Teterina M.A.**, (MD, PhD, Moscow) «**HFrEF. Clinical case 1**».

**2nd Question for the audience**

10:12-10:19 - **Vinogradova N.G.** (MD, PhD, Nizhny Novgorod)  
«**HFrEF case – need for checking natriuretic peptides levels**».

10:20-10:27 - **Kopeva K.V.** (MD, PhD, Tomsk). «**HFrEF case – NO need for checking natriuretic peptides levels**».

**3rd Question for the audience**

10:28 -10:35 - **Novitsky N.I.**, (MD, PhD, Kaluga). «**HFpEF. Clinical case 2**»

**4th Question for the audience**

10:36-10:43 - **Kercheva M.A.** (MD, PhD, Tomsk). «**HFpEF case – NO need for checking natriuretic peptides levels**».

10:44-10:51 - **Mareev Yu.V.**, (MD, PhD, Moscow). «**HFpEF case – need for checking natriuretic peptides levels**».

**5th Question for the audience**

10:52-10:59 - **Soloveva A.E.**, (MD, PhD, Saint Petersburg). «**Take home messages**».

11:00-11:15 **Discussion – 10 min**

11:15-11:45 **-Coffee -break**

10:00 -11:30 **Area 2**

**Master-class: «Russian school of ultrasound-assisted examinations»**

**Dzhioeva O.N. (MD, PhD, National research center for therapy and preventive medicine, Moscow, Russia).**

**Pavlukova E.N. (PhD, professor, Scientific Research Institute, Tomsk National Research Medical Center, Tomsk, Russia).**

10:00- 10:15 - **Dzhioeva O.N.** (PhD, National research center for therapy and preventive medicine, Moscow, Russia). **«The strategy of ultrasound-assisted examinations in clinical practice».**

10:15-10:30 - **Verbilo S.L.** (cardiologist, physician of functional diagnostics, Almazov National Medical Research Centre, St. Petersburg). **«COVID 19 hospital. Organization and implementation of cardiothoracic ultrasound examinations».**

10:30- 10:45 - **Gubareva E.Yu.** Tereshina O.V., Fatenkov O.V., Gubareva I.V. (PhD, Assistant of the Department of Faculty Therapy, Doctor of the Department of Functional Diagnostics of Samara State Medical University, Samara, Russia). **«COVID-19 echocardiographic portraits».**

10:45- 11:00 - **Smorgon A.V.** (junior researcher of the department of functional and ultrasound diagnostics, Research Institute of Medical Genetics, Tomsk National Research Medical Center, Tomsk). **«Use of Speckle tracking echocardiography in a standard echocardiographic study».**

11:00 -11:15- **Skaleckij K.V.,** Namitkov A.V. (PhD, Scientific Research Cardiological Centre, Krasnodar, Russia). **«Acute coronary syndrome. Does the doctor need the Focus protocol?».**

11:15-11:30 - **Semenova E.A. (PhD, Omsk).** **«Acute aortic syndrome. What if there is no extra time».**

11:30-11:45 – **Coffee-break**

11:45-13:30 **Area 1**

**Symposium «Acute coronary syndrome 2021 – the view of young cardiologists»**

**Co-chair:**

**Barbarash O.L. (Corresponding member of RAS, professor, PhD, Head of Scientific Research Institute for Cardiovascular Disease, Chief cardiologist of the Siberian Federal District, Kemerovo, Russia),**

**Yakovlev A.N. (PhD, Head of the Research Laboratory of Acute Coronary Syndrome Almazov National Medical Research Centre, St. Petersburg).**

11:45-12:00 -**Kozik V.A.,** Lozhkina N.G. (Ph.D., cardiologist, City Clinical Hospital No. 2, Novosibirsk). **«ST-segment elevation myocardial infarction: the basics in brief», Novosibirsk**

**12:00-12:15 -Dupliakova P.D. (PhD student of the Department of Cardiology and Cardiovascular Surgery of Samara State Medical University). «Management strategy for patients with myocardial infarction in the age group over 90 years old».**

**12:15-12:30-Novosadov M.M. (resident of National research center for therapy and preventive medicine, Moscow, Russia). “To be ready in 60 sec in ICCU”.**

**12:30-12:45 -Shkaeva O.V. (PhD student of the Department of Cardiology and Cardiovascular Surgery of Samara State Medical University, cardiologist of Samara Regional Clinical Cardiology Dispensary named after V.P. Polyakov, Samara, Russia). «Management of non-ST-segment elevation ACS patients for whom CABG is indicated».**

**12:45-13:00-Vorontsova S.A. (PhD student of the Department of Cardiology and Cardiovascular Surgery of Samara State Medical University, cardiologist of Samara Regional Clinical Cardiology Dispensary named after V.P. Polyakov, Samara, Russia). «Management of patients with ST-segment elevation MI with late admission to the PCI center».**

**13:00-13:15 -Tolmacheva A.A., Lozhkina N.G. (graduate student of the Department of Faculty Therapy named after prof. G. D. Zalesky Novosibirsk State Medical University, Novosibirsk, Russia). «Molecular genetic markers of acute myocardial infarction in type 2 diabetes mellitus».**

**13:15-13:30 - Discussion**

**11:45-13:30 - Symposium "COVID-19 and cardiovascular diseases» Area 2**

**Co-chair: Dupliakov D.V. ( PhD, professor, Deputy Chief Doctor for Medical Affairs of Samara Regional Clinical Cardiology Dispensary named after V.P. Polyakov, Chief cardiologist of the Samara region, Samara, Russia)**

**Kashtalap V.V. (PhD, Head of department of clinical cardiology, Scientific Research Institute for Complex issues of cardiovascular disease, Kemerovo).**

**11:45-12:00 -Gubareva E.Yu., Fatenkov O.V., Demchenko A.I., Klimenko D.A., Gubareva I.V. (PhD, Assistant of the Department of Faculty Therapy, Doctor of the Department of Functional Diagnostics of Samara State Medical University, Samara, Russia) - «The course of COVID-19 in patients with cardiovascular diseases: the data from the COVID-hospital based on the results of three months of work».**

**12:00 -12:15- Danilova M.G. (resident of National research center for therapy and preventive medicine, Moscow, Russia). “Algoritm of cardiologist shift in COVID-center/ Expirience of Kommunarka-team”.**

**12:15-12:30 -Bezdenezhnyh A.V. (PhD, Senior researcher of laboratory of comorbidity in cardiovascular diseases, Scientific Research Institute for Complex issues of cardiovascular disease, Kemerovo). «Novel coronavirus infection and heart transplantation: the experience of one center».**

12:30-12:45 - **Efimova O.I.** (cardiologist of neurological department of Samara Regional Clinical Hospital named after V.D. Seredavin, Samara, Russia). «**Prevention of COVID-19 associated thromboembolic complications**».

12:45-13:00 -**Garkina S.V.**, Lebedev D.S. (PhD, Senior Researcher of Research Laboratory of Clinical Arrhythmology, cardiologist, Almazov National Medical Research Centre, St. Petersburg). «**Rhythm disturbances associated with COVID-19 infection: what can we really do?**».

13:00-13:15 - **Verbilo S.L.**, Kozlenok A.V. (cardiologist, physician of functional diagnostics, Almazov National Medical Research Centre, St. Petersburg). «**Evaluation of right ventricular strain in patients with COVID-19. Methodology. Predictive significance**».

**13:15-13:30 - Discussion**

**13:30-14:00- Coffee-break**

**14:00 -16:15 Competition of young scientists (original researches). Area 1**

**Co-chair:**

**Dupliakov D.V.** ( PhD, professor, Deputy Chief Doctor for Medical Affairs of Samara Regional Clinical Cardiology Dispensary named after V.P. Polyakov, Chief cardiologist of the Samara region, Samara, Russia)

**Kosmacheva E.D.** (PhD, professor, Deputy Chief Doctor for Medical Affairs of Scientific Research Institute

Chief cardiologist of the Southern Federal District and the Krasnodar Territory, Krasnodar, Russia)

(7 minutes report, 2-minutes-questions)

- 1) **Lyapin A.A.** (cardiovascular surgeon, PhD student of Scientific Research Institute for Complex issues of cardiovascular disease, Kemerovo). «Comparative analysis of the results of one-stage radical correction and a step-by-step approach with stenting of the right ventricular outflow tract in newborns with tetralogy of Fallot».
- 2) **Elvin S. Allakhverdiev** (resident of department of pulmonary hypertension and heart diseases, Scientific research institute of clinical cardiology named by A.L. Myasnikov, National Medical Research center of cardiology, Moscow). «Assessment of blood oxygen transport function in patients with pulmonary hypertension».
- 3) **Filatova A.Yu.** (junior researcher of Institute of experimental cardiology, National Medical Research center of cardiology, Moscow). Peculiarities of cellular immunity in atherosclerosis.
- 4) **Aleevskaya A. M.** (laboratory research assistant of department of pulmonary hypertension and heart diseases, Scientific research institute of clinical cardiology named by A.L. Myasnikov, National Medical

**Research center of cardiology, Moscow).** Switching strategy of endothelin receptor antagonists in patients with pulmonary hypertension.

- 5) **Zagorodnikov N.I. (PhD student of Scientific Research Institute for Complex Issues for cardiovascular disease).** OCT use for assessment of the protective properties of autografts and the progression of atherosclerosis of native coronary arteries after shunting.
- 6) **Pyatskaya A. (resident of National research center for therapy and preventive medicine, Moscow, Russia).** “HFpEF and non-cardiac injury”
- 7) **Kercheva MA<sup>1,2</sup>, Rogovskaya YuV<sup>2</sup>, Kzhyshkovskaya YuG<sup>3,4</sup>, Ryabov VV<sup>1,2,3</sup>. (PhD, junior researcher<sup>1</sup> Siberian State Medical University, Tomsk, Russia; <sup>2</sup> Cardiology Research Institute, Tomsk National Research Medical Centre of RAS, Tomsk, Russia; <sup>3</sup> National Research Tomsk State University, Tomsk, Russia; <sup>4</sup>University of Heidelberg, Heidelberg, Germany).** “Macrophages of heart-kidney axis and cardiorenal syndrome in patients with acute myocardial infarction».
- 8) **Cherepanova N.A. (cardiologist of Samara Regional Clinical Cardiology Dispensary named after V.P. Polyakov, Samara, Russia).** «Thrombolytic therapy in low-risk pulmonary embolism patients».
- 9) **Duvanov M.K. (resident of Scientific Research Institute for Complex issues of cardiovascular disease, Kemerovo).** PROPENSITY SCORE MATCHING analysis of the immediate results of the use of the «ТИАРА» biological semi-frame prosthesis and the «ЮНИЛАЙН» biological frame prosthesis in the correction of aortic defect.
- 10) **Orlova A. (junior researcher of National research center for therapy and preventive medicine, Moscow, Russia).** “Apple watch- hope or hope?».
- 11) **Mordovki V.S., Chernova A.A., Nikulina S.Yu., Kapustina E.V. (PhD student of department of faculty therapy Krasnoyarsk State Medical University named after Prof. V.F.Voino-Yasenetsky, Krasnoyarsk).** «Contribution of CD14 gene polymorphism in the development of ankylosing spondyloarthritis».
- 12) **Chaulin A.M. (postgraduate student, assistant of the Department of Histology and Embryology of Samara State Medical University, Samara, Russia).** «New diagnostic capabilities of cardiac troponins ”.
- 13) **Tolstokorova Yu.A. Chernova A.A., Nikulina S.Yu. (resident of department of faculty therapy Krasnoyarsk State Medical University named after Prof. V.F.Voino-Yasenetsky, Krasnoyarsk).** The associative role of PTPN22 (C1858T) gene polymorphism in the development of hypertension in patients with rheumatoid arthritis.

**16:00-16:15- Discussion**

**16:15-16:30 – Coffee-break**

**16:30-17:30 Competition of young scientists (clinical cases) Area 1**

**Co-chair: Kosmacheva E.D. (PhD, professor, Deputy Chief Doctor for Medical Affairs**

**Chief cardiologist of the Southern Federal District and the Krasnodar Territory, Krasnodar, Russia)**

**Kochergina A.M. (PhD, researcher of department of clinical cardiology, Scientific Research Institute for Complex Issues of Cardiovascular Diseases, Kemerovo)**

**(7 minutes report, 2-minutes-questions)**

- 1) **Sogoyan N.F.** (resident of Scientific Research Institute for Complex issues of cardiovascular disease, Kemerovo, Russia). «**Clinical case: Endovascular closing fenestra between right atrial tunnel and right atrial with ASD occluder to child after Fonten surgery**».
- 2) **Rozhkova A.B.** (cardiologist of Samara Regional Clinical Cardiology Dispensary named after V.P. Polyakov, Samara, Russia). «**Infant Pompe disease: clinical and genetic diversity of pathology, difficulties and relevance of early diagnosis, treatment features**».
- 3) **Grabovj D.A.** (resident of Samara Regional Clinical Cardiology Dispensary named after V.P. Polyakov, Samara, Russia). «**A clinical case of nonspecific aortoarteritis in a patient with ACS**».
- 4) **Mullova I.S.** (PhD, Assistant of the Department of Cardiology and Cardiovascular Surgery of Samara State Medical University, cardiologist of Samara Regional Clinical Cardiology Dispensary named after V.P. Polyakov, Samara, Russia). «**Acute pulmonary obstruction as the primary manifestation of a rapidly growing sarcoma in a 23-year-old patient**».
- 5) **Dragunova M.A.** (Junior researcher, Scientific Research Institute, Tomsk National Research Medical Centre of RAS, Tomsk, Russia). «**Fabry disease in the practice of a cardiologist**».

**17:15-17:30 -Discussion**

**4<sup>th</sup> of June 2021**

**10:00-11:15**

**Master - class "Secrets of the creation of scientific research and results presentation" Area 1**

**Tanicheva A.A. (Executive director of Russian Society of Cardiology, St. Petersburg, Russia).**

**Dupliakov D.V. (PhD, professor, Deputy Chief Doctor for Medical Affairs of Samara Regional Clinical Cardiology Dispensary named after V.P. Polyakov, Chief cardiologist of the Samara region, Samara, Russia),**

**Kutikhin A.G. (Head of the Laboratory for Vascular Biology, Department of Experimental Medicine, Scientific Research Institute for Complex Issues of Cardiovascular Diseases, Kemerovo)**

**10:00-10:15 - Kutikhin A.G. (Head of the Laboratory for Vascular Biology, Department of Experimental Medicine, Scientific Research Institute for Complex Issues of Cardiovascular Diseases, Kemerovo)-**

**«The main aspects of creating basic research in the field of cardiology».**

10:15-10:30 - **Kochergina A.M. (PhD, researcher of department of clinical cardiology, Scientific Research Institute for Complex Issues of Cardiovascular Diseases, Kemerovo)** – «Research planning in clinical cardiology and cardiovascular surgery: for what and why?».

10:30 -10:45 - **Taran I.N. (PhD, researcher of department of clinical cardiology, cardiologist of Scientific Research Institute for Complex Issues of Cardiovascular Diseases, Chairman of the working group «Young cardiologists» of RSC, Kemerovo)** - «Secrets of creating successful presentations in English and their presentation abroad».

10:45- 11:00 - **Rodionova Yu.V.. (PhD, Chief Editor of the Russian Journal of Cardiology, Senior Researcher Department of Scientific Editing, Reviewing and Publishing of National research center for therapy and preventive medicine, St.Petersburg/ Moscow )**- "Requirements of high-rated journals for incoming articles: the main stumbling blocks for young scientists».

#### **11:00- 11:15 -Discussion**

**11:15-13:00 Master -class in Statistics : «Exigencies of data analysis and interpretation» (Area 1).**

**Co-chair: Gilyarevskiy S. MD, PhD (Moscow), Mareev V. MD.PhD (Moscow)**

**11:15-11:30- Skorodumova E.G.,(MD, PhD, Saint Petersburg).** «Is p value enough for saying that the results will change our practice?».

**11:30-11:45- Ionin. V.A, (MD, PhD, Saint Petersburg).** «Does an effect in one of the study subgroups mean that therapy will work in this group, if in general study results are neutral?»

**11:45-12:00 - Mareev Y..V., (MD, PhD, Moscow)** «Why is it important to understand the power of a study and how to calculate the sample size?»

**12:00 -12:15- Lobastov K.V., (MD, PhD, Moscow).** «Are all meta-analyses equally useful?».

**12:15-12:30 - Polyakov D.S. (MD, PhD, Nizhny Novgorod).** «What do we can and can not derive from observational studies? Could propensity match score save the world?».

**12:30 -12:45- Soloveva A.E., (MD, PhD, Saint Petersburg).** «How important is the critical appraisal of study results? Understanding of statistical biases».

#### **12:45-13:00 -Discussion**

#### **13:00-13:30 -Coffee - break**

**13:30-15:00 Symposium: Molecular and Cellular Biology of Cardiovascular Disease. Area 1**

**Co-chairs:**

**Anton Kutikhin, Head of the Laboratory for Vascular Biology, Department of Experimental Medicine, Research Institute for Complex Issues of Cardiovascular Diseases (Kemerovo)**



**Anna Malashicheva, PhD, Head of Laboratory of Regenerative Biomedicine, Institute of Cytology, Russian Academy of Sciences; Group Leader, Laboratory of Molecular Cardiology, Almazov National Medical Research Centre (St. Petersburg)**

**13:30-13:45 - Alexander Kostyunin** (PhD, Research Fellow, Laboratory for Novel Biomaterials, Department of Experimental Medicine, Research Institute for Complex Issues of Cardiovascular Diseases, Kemerovo). **«Blood-derived matrix-degrading enzymes as a leading cause of bioprosthetic heart valve failure».**

**13:45-14:00 - Anastasia Shishkova** (PhD Student, Almazov National Medical Research Centre, St. Petersburg). **«Anti-calcification therapy of aortic stenosis: prospects and pitfalls».**

**14:00-14:15- Ivan Kiselev** (PhD, Research Fellow, Junior Group for Genetic and Epigenetic Research, Laboratory of Functional Genomics of Cardiovascular Disease, National Medical Research Center of Cardiology, Moscow). **«Circulating miRNA as biomarkers of hypertrophic cardiomyopathy».**

**14:15-14:30 - Diana Sharysh** (PhD Student, Research Institute of Medical Genetics, Tomsk National Research Medical Center, Tomsk). **«LINE-1 methylation in different vessels, vascular and blood cells in human atherosclerosis».**

**14:30-14:45- Daria Shishkova** (PhD, Junior Researcher, Laboratory for Vascular Biology, Department of Experimental Medicine, Research Institute for Complex Issues of Cardiovascular Diseases, Kemerovo). **«Pathophysiology, diagnosis and experimental therapy of mineral homeostasis alterations in patients with atherosclerotic vascular disease».**

**14:45-15:00 -Discussion**

**15:00 -16:30 - Symposium «Horizons and perspectives in cardiovascular surgery». Area 1**

**Co-chair: Panfilov D.S. (PhD, Scientific Research Institute, Tomsk National Research Medical Centre of RAS, Tomsk, Russia),**

**Evtushenko A.V. (PhD, professor, Head of laboratory of Heart Valve Disease of Scientific Research Institute for Complex issues of cardiovascular disease, Kemerovo).**

**15:00 -15:15- Zanolokin V.V.** (PhD, researcher of department of cardiovascular surgery of Tomsk National Research Medical Centre of RAS, Tomsk, Russia). **«Hybrid myocardial revascularization in high-risk patients».**

**15:15-15:30 - Dvadsatov I.V.** (cardiovascular surgeon, PhD student of Scientific Research Institute for Complex issues of cardiovascular disease, Kemerovo). **«Clinical results of a new biological support ring «NeoRing» for correction of dysplastic mitral valve insufficiency».**

**15:30 -15:45- Bazarbekova B.A.** (PhD student of department of cardiovascular surgery of Tomsk National Research Medical Centre of RAS, Tomsk, Russia). **«Ascending aortic replacement with associated aortic valve disease».**

**15:45- 16:00- Kurbanov S.K.** (junior researcher of department of cardiovascular surgery National Medical Research Centre of cardiology, Moscow, Russia). «**Medical management of CTEPH in high-risk patients**».

**16:00 -16:15- Gazizov V.V.** (cardiovascular surgeon of researcher of department of cardiovascular surgery National Medical Research Centre of cardiology, Moscow, Russia). «**Surgical management of CTEPH in high-risk patients**».

**16:15-16:30- Discussion.**