

# SCIENTIFIC PROGRAM



The 30th Congress of World  
Society of Cardio-Vascular &  
Thoracic Surgeons

XIth International Congress  
«Current trends of modern  
cardio-thoracic surgery»



15-18  
September  
2022

St. Petersburg,  
Russia

[www.wscts2020.net](http://www.wscts2020.net)




**Stuart Jamieson**

*Chancellor of World Society of  
Cardio-Vascular and Thoracic  
Surgeons*

Dear Colleagues,

It gives me very great pleasure to welcome you to Saint Petersburg for the 30th Annual meeting of the World Society of Cardio-Vascular and Thoracic Surgery.

As most of you know, the Society was founded in 1990 by the original pioneers in cardiac surgery, with the goal of having a truly international forum for the exchange of ideas and progress in clinical care and research. The annual meetings are therefore held in many parts of the world. The 26th annual meeting was in Cape Town, South Africa, and the 27th annual meeting in Astana, Kazakhstan. The 2018 meeting was held in Ljubljana, Slovenia, and last year's meeting in Sophia, Bulgaria.

The Chancellorship of the Society was held since the initiation of the Society in 1990 by the late Juro Wada of Japan, and I took over as Chancellor in 2007. I have attended the last twenty-four meetings of the Society, which have been held in many parts of the world. During this time, I have seen the annual meetings progressively increase in participation and quality. The meetings now are very widely attended and the quality of the presentations outstanding – made up of not only invited lectures by the world leaders in the respective topics, but also selected international presentations of submitted abstracts.

Every year, the steering committee of the Society, made up of the officers of the Society, the Past Presidents and the Regional Representatives, selects the host country for the

annual meeting, three years in advance. The unanimous choice for the meeting in 2022 was Saint Petersburg.

Saint Petersburg is a historic and beautiful city, with wonderful hotels and restaurants. The 18th and 19th century architecture of the city and its environs is preserved virtually unchanged. It is listed by UNESCO on the World Heritage list as an area with around 4,000 outstanding individual monuments of architecture, history and culture. The Hermitage museum is a must to visit, as is the Winter Palace and Peterhof with its magnificent gardens. In all the city has 221 museums, 2,000 libraries, and more than 80 theatres.

It is an excellent choice for the meeting in 2022, and I encourage your participation. Please bring your families and plan to make time to visit the many magnificent attractions of this wonderful city.

I look forward to seeing you there.



**Piotr Yablonskiy**

*President of the 30th Congress of the  
World Society of Cardiovascular and  
Thoracic Surgeons*

Dear colleagues and friends!

I would like to invite you to the WSCTS 30th Annual Congress and Exhibition 2022. This event will be held on September 15-18, 2022 in St Petersburg, Russia.

The scientific program of the Congress will include current topics of cardiovascular surgery, thoracic surgery, transplantology, endovascular surgery, robotic surgery and endovideosurgery; modern aspects of the treatment of trauma of the chest organs, selected topics of anesthesiology and resuscitation and related disciplines. The problems of treating patients with a new coronavirus infection and its consequences, organizing the work with infectious patients and those with comorbidities will be discussed. Special attention will be paid to the use of artificial intelligence in modern healthcare. The key speakers of the congress will be the leading World masters of cardiovascular and thoracic surgeries.

Today, more than ever, we must unite and be together. Our vocation is to serve people by saving lives! I hope that our event will allow us to unite our professional interests and competencies.

Despite the extremely tight program and the difficult political situation, I am sure you would like to get acquainted with our wonderful city – the pearl of world architecture and the treasury of world culture.

Welcome to St.Petersburg!



## International Organizing Committee

**Stuart Jamieson**  
United States

**Sotirios Prapas**  
Greece

**Afksendiyos Kalangos**  
Switzerland

**Vipin Zamvar**  
United Kingdom

**Shanda Blackmon**  
United States

**Gencho Nachev**  
Bulgaria

**Yuriy Pya**  
Kazakhstan

**Teresa Kieser**  
Canada

**Dragan R. Subotic**  
Serbia

**Enrico Ruffini**  
Italy

**Alper Toker**  
Turkey

**Robert Kleinloog**  
South Africa

**Alan Sihoe**  
Hong Kong

**Douglas Wood**  
United States

**Marchello Migliore**  
Italy

**Eric Roessner**  
Germany

**Axel Haverich**  
Germany

**Silviu Constantinoiu**  
Romania

**Hani Shennib**  
United States

**Guiseppe Cardillo**  
Italy

**Ramon Rami-Porta**  
Spain

**Gilbert Massard**  
France

**Danail Petrov**  
Bulgaria

**A.G. Jayakrishnan**  
India

**John Cordoş**  
Romania

**Stephen Cassivi**  
United States

**Wolfgang R. Ade**  
Japan

**Hiran C Fernando**  
United States

**Puja G. Khaitan**  
United States

**Hermann  
Reichenspurner**  
Germany

**Hiran C Fernando**  
United States

**Puja G. Khaitan**  
United States

**Marko Turino**  
Switzerland

**Alessandro Wasum  
Mariani**  
Brasil

## Local Organizing Committee

**Semyonova T.V.**

**Yablonsky P.K.**

**Aidemirov A.N.**

**Akchurin R.S.**

**Alekyan B.G.**

**Bagnenko S.F.**

**Bazylev V.V.**

**Belov Yu.V.**

**Belyaev A.M.**

**Boytsov S.A.**

**Bokeria L.A.**

**Bubnova N.A.**

**Glybochko P.V.**

**Golukhova E.Z.**

**Goncharov S.F.**

**Gorbatikov K.V.**

**Gordeev M.L.**

**Gotye S.V.**

**Dzemeshkevich S.L.**

**Dronova A.V.**

**Kamkin E.G.**

**Kaprin A.D.**

**Karakulina E.V.**

**Keith O.I.**

**Kononets P.V.**

**Korobko I.V.**

**Kulikova I.B.**

**Letnikova L.I.**

**Lukin O.P.**

**Movsesyan R.R.**

**Molchanov I.V.**

**Parshin V.D.**

**Pischik V.G.**

**Podkamenev A.V.**

**Popov V.A.**

**Poptsov V.N.**

**Porkhanov V.A.**

**Pushkin S.Yu.**

**Razumovsky A.Yu.**

**Revishvili A.Sh.**

**Rosseikin E.V.**

**Sabelnikov V.V.**

**Sakovich V.A.**

**Sarkisova V.A.**

**Sinelnikov Yu.S.**

**Sokurenko G.Yu.**

**Soroka V.V.**

**Stilidi I.S.**

**Tarabrin E.A.**

**Topalov K.P.**

**Tyurin I.E.**

**Usacheva A.V.**

**Usachev D.Yu.**

**Fastakovskiy V.V.**

**Khubulava G.G.**

**Chernov I.I.**

**Chernyavsky A.M.**

**Chikinev Yu.V.**

**Shlyakheto E.V.**

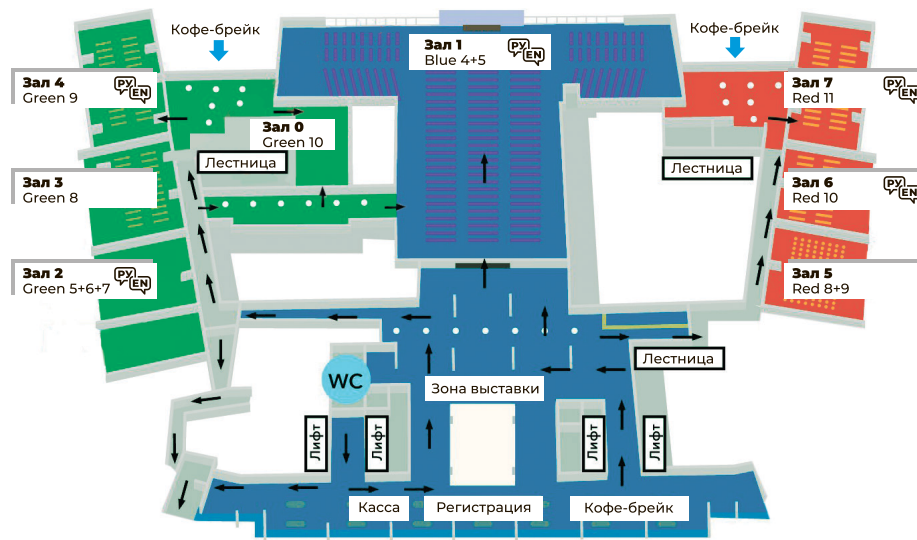
**Shneider Yu.A.**



<b>Dates:</b>	September 15 - 18, 2022
<b>Venue:</b>	Russia, St. Petersburg, st. Shipbuilders, 14. The Park Inn by Radisson Pribaltiyskaya Hotel & Congress Center, 2nd floor
<b>Online broadcast:</b>	Available upon registration at <a href="http://www.wscts2020.net">www.wscts2020.net</a>
<b>Official language:</b>	English / Russian. Meetings are accompanied by simultaneous translation

## The layout of the halls

<b>Hall 1</b> Blue 4+5	Welcome cocktail (September 15 at 19:00)
<b>Hall 0</b> Green 10	Room for presentations (possibility to check the report, make changes)
<b>Hall 1</b> Blue 4+5	Halls, meetings in which are accompanied by simultaneous translation
<b>Hall 2</b> Green 5+6+7	
<b>Hall 4</b> Green 9	
<b>Hall 6</b> Red 10	
<b>Hall 7</b> Red 11	
<b>Hall 3</b> Green 8	Halls, meetings in which are not accompanied by simultaneous translation
<b>Hall 5</b> Red 8+9	
<b>foyer</b> Green	Every day from 11:00 to 11:30
<b>foyer</b> Red	there is a coffee break for all
<b>foyer</b> Blue	participants





**Hall 2**  
Green 5+6+7



Sessions are accompanied by simultaneous translation  
Live stream of session

09:00-11:00

**Live Stream from the Operation Rooms**

*Moderators: Chernov I.I., Bogachev-Prokofiev A.V.*

[Aortic valve replacement from mini-access.](#)

Research Institute KKB No.1. Operator – Professor Barbuhatti K.O.

11:00 – 11:30 Coffee break

11:30 – 13:30

**Live Stream from the Operation Rooms**

*Moderators: Chernov I.I., Bogachev-Prokofiev A.V.*

[Transcatheter aortic valve implantation](#)

Research Institute KKB No.1. Operator – Professor Fedorchenko A.N.

13:30 – 14:30 Lunch / Exhibition

14:30 – 16:30

**School Ultrasound Examination of the Lungs. Part 1**

*Moderators: Lichtenstein D., Efremov S.M., Lakhin R.E.*

**School Overview:** The use of ultrasound examination of the lungs in routine practice provides bedside diagnostics of many pathological conditions. The purpose of our program is to show ten main signs of ultrasound picture of normal and pathological lungs, as well as how to interpret those for rapid diagnostics and treatment.

The school will be useful for surgeons, pulmonologists, anesthesiologists, resuscitators, physiatrists, specialists in functional diagnostics, residents, regardless of their basic skills of ultrasound diagnostics. The school will help in mastering the methods of ultrasound examination of the lungs performed by the author and developer of «The BLUE protocol», Daniel Lichtenstein, France.

**Lichtenstein D. (France)** Lung ultrasound: pathophysiology of features and evolution of the BLUE protocol

**Lakhin R.E. (Russia)** The role of lung ultrasound in the diagnosis of pneumonia

**Lichtenstein D. (France)** Bedside lung ultrasound for fluid assessment in an intensive care unit patient: FALLS protocol

**Efremov S.M. (Russia)** Ultrasound examination of the lungs in cardiovascular and thoracic surgery

16:30 – 17:00 Break



17:00 – 19:00 **School Ultrasound Examination of the Lungs. Part 2**

*Moderators: Lichtenstein D., Efremov S.M., Lakhin R.E.*

**School Overview:** The use of ultrasound examination of the lungs in routine practice provides bedside diagnostics of many pathological conditions. The purpose of our program is to show ten main signs of ultrasound picture of normal and pathological lungs, as well as how to interpret those for rapid diagnostics and treatment.

The school will be useful for surgeons, pulmonologists, anesthesiologists, resuscitators, physiatrists, specialists in functional diagnostics, residents, regardless of their basic skills of ultrasound diagnostics. The school will help in mastering the methods of ultrasound examination of the lungs performed by the author and developer of «The BLUE protocol», Daniel Lichtenstein, France.

Master class of lung ultrasound examination (volunteers)

19:00 – 22:00 **Welcome cocktail party** (Hall 1 / blue 4+5)

**Hall 3**  
Green 8

Sessions are not accompanied by simultaneous translation

14:30 – 16:30 **EXPERT COMMISSION (ADVISORY BOARD) ON THORACIC SURGERY**

*Chair: Yablonsky P.K.*

**Chikinev Yu.V. (Chief external expert, thoracic surgeon, MoH, Siberian Federal District)**

Specialised medical care in thoracic surgery in the Siberian Federal District

**Tarabrin Ye.A. (Chief external expert, thoracic surgeon, MoH, Central Federal District)**

Specialised medical care in thoracic surgery in the Central Federal District

**Yablonsky P.K. (Chief external expert, thoracic surgeon, MoH, Russia)**

Main areas of work of the Thoracic Surgery Expert Commission in the light of new educational standard implementation

16:30 – 17:00 Break

17:00 – 19:00 **Championship of Young Thoracic Surgeons**

*Moderators: Pishik V.G., Alan Sihoe*

**Overview: competition between young thoracic surgeons.**

19:00 – 22:00 **Welcome cocktail party** (Hall 1 / blue 4+5)



**Hall 4**  
Green 9



Sessions are accompanied by simultaneous translation  
Live stream of session

09:00 – 11:00

**Live Stream from the Operation Rooms**

*Moderators: Rosseykin E.V., Charchyan E.R.*

[Aortic valve replacement and supracoronary aortic replacement from ministernotomy](#)

St Petersburg University's N.I.Pirogov Clinic of High-Tech Medical Technologies. Operator – Shmatov D.V., Dr. Habil.Med

[Percutaneous endovascular abdominal aortic aneurysm reconstruction as a routine procedure](#)

B.V.Petrovsky National Research Centre of Surgery. Operator – Abugov S.A.

11:00 – 11:30

Coffee break

11:30 – 13:30

**Live Stream from the Operation Rooms**

*Moderators: Rosseykin E.V., Charchyan E.R.*

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13:30 – 14:30

Lunch / Exhibition

14:30 – 16:30

**Modern Imaging Techniques in Bronchology (Pentax med School)**

*Moderators: Vasiliev I.V., Drobyazgin E.A.*

**School Overview:** The school will review the state of the art bronchoscopic imaging. The lectures will be based on the principles of evidence-based medicine and will summarize current publications, as well as the experts' own experience. In the hands-on part, there will be an opportunity to use the modern equipment on dummies.

**Lozhkevich A. (Russia)** Modern Pentax bronchoscopy equipment

**Drobyazgin E.A. (Russia)** Videobronchoscopy as a standard of routine diagnostic procedures

**Vasiliev I.V. (Russia)** «Isca» in bronchology – for 5 years already. What did we get?

**Sivokozov I.V. (Russia)** Transbronchial endosonography: from B-mode to elastography

Demonstration of the capabilities of modern video bronchoscopy equipment with dummies

**Tutor: Mamenko I.S. (Russia)**



16:30 – 17:00 Break

17:00 – 19:00 **Modern Methods of Infectious Safety in Endoscopy School**

*Moderators: Vasiliev I.V., Grenkova T.A.*

**School Overview:** Modern infectious safety requirements for endoscopy departments are constantly changing, usually becoming more rigorous. An unconditional requirement for successful work is the strict observation of these rules. Expert lectures will reflect the main trends in infectious safety in the field of bronchoscopy. The possibility of using disposable bronchoscopes will also be considered. All participants will have an opportunity to try out modern disposable endoscopes.

**Grenkova T.A. (Russia)** Sanitary-hygienic and anti-epidemic requirements for the bronchoscopy department/office

**Vasilyeva N.R. (Russia)** Modern requirements for methods of disinfection and sterilization of bronchoscopes

**Vasiliev I.V. (Russia)** Disposable bronchoscopes: a toy, a whim, or a cost-effective product?

Demonstration of the capabilities of disposable bronchoscopes

**Tutor: Belyaev G.S. (Russia)**

19:00 – 22:00 **Welcome cocktail party** (Hall 1 / blue 4+5)

**Hall 5**  
Red 8+9

Sessions are not accompanied by simultaneous translation

14:30 – 16:30 **Training Room**  
**Master-class**  
**Practicing Minimally Invasive Surgery Skills**

16:30 – 17:00 Break

17:00 – 19:00 **Training Room**  
**Master-class**  
**Practicing Minimally Invasive Surgery Skills**

19:00 – 22:00 **Welcome cocktail party** (Hall 1 / blue 4+5)



**Hall 6**  
Red 10



Sessions are accompanied by simultaneous translation  
Live stream of session

09:00 – 11:00

**Live Stream from the Operation Rooms**

*Moderators: Chernyavsky A.M., Khubulava G.G.*

[Pulmonary endarterectomy for chronic post-thromboembolic pulmonary hypertension](#)

V.A.Almazov National Medical Research Centre. Operator – Gordeev M.L.

[Operation Ozaki](#)

NMITs them. A.N. Bakulev. Operator - Chernogrivov A.E.

11:00 – 11:30 Coffee break

11:30 – 13:30

**Live Stream from the Operation Rooms**

*Moderators: Chernyavsky A.M., Khubulava G.G.*

[Pulmonary endarterectomy for chronic post-thromboembolic pulmonary hypertension](#)

V.A.Almazov National Medical Research Centre. Operator – Gordeev M.L.

[Operation Ozaki](#)

NMITs them. A.N. Bakulev. Operator - Chernogrivov A.E.

13:30 – 14:30 Lunch / Exhibition

14:30 – 16:30

**Surgical Treatment of Atrial Fibrillation School**

*Moderators: Revishvili A.Sh., Popov V.A.*

**School Overview:** The purpose of this school is to review the current understanding of open surgical and minimally invasive approaches to the treatment of atrial fibrillation. Anatomical, surgical and technological issues will be discussed to complete the review of atrial fibrillation surgery.

**Bogachev-Prokofiev A.V. (Russia)** Atrial cryoablation in the treatment of atrial fibrillation in open cardiac surgery: the experience of a single center

**Aminov V.V., Svetkin M.A., Popov V.A. (Russia)** Left auricle and atrial fibrillation: what we know and what we have yet to learn



**Revishvili A.Sh., Popov V.A., Aminov V.V., Malysenko E.S., Svetkin M.A., Anishchenko M.M. (Russia)** Tactics of combined surgical treatment of atrial fibrillation paroxysmal forms during coronary bypass surgery

**Niv Ad (USA)** Minimally invasive cryomodification of the Labyrinth III operation for the treatment of atrial fibrillation» (on-line)

**Schneider Yu.A., Shilenko P.A., Tsoi M.D., Fomenko M.S., Pavlov A.A. (Russia)** Thoracoscopic ablation of the left atrium for the treatment of atrial fibrillation

**Revishvili A.Sh., Malysenko E.S. (Russia)** Ways to optimize thoracoscopic treatment of atrial fibrillation

**Bogachev-Prokofiev A.V. (Russia)** Box lesion set thoracoscopic technologies: what do I choose

16:30 – 17:00 Break

17:00 – 19:00 **Minimally Invasive Coronary Bypass Surgery School**

*Moderators: Yu.A. Schneider, V.A. Popov*

**School Overview:** Current minimally invasive on-pump and off-pump approaches to coronary bypass surgery will be summarized and described in detail, including anatomical and technical issues of direct view and endoscopic approaches.

**Novikov M.A. (Russia)** Review of non-sternotomic methods of coronary bypass surgery

**Shneider Yu.A., Tsoi M.D., Antipov G.N., Fomenko M.S., Pavlov A.A., Shilenko P.A., Mikheev A.A. (Russia)** Coronary bypass surgery from left-sided lateral minitoracotomy without artificial circulation

**Popov V.A. (Russia)** Endoscopically assisted on-pump coronary bypass surgery

**Zenkov A.A. (Russia)** Multivessel coronary bypass surgery from mini-thoracotomy

**Sirota D.A. (Russia)** Prospects of minimally invasive coronary bypass surgery

**Kozyrin K.A. (Russia)** Hybrid myocardial revascularization in 2022

19:00 – 22:00 **Welcome cocktail party** (B Halle 1 / blue 4+5)



**Hall 7**  
Red 11



Sessions are accompanied by simultaneous translation  
Live stream of session

09:00 – 11:00

**Live Stream from the Operation Rooms**

*Moderators: Zhestkov K.G., Elkin A.V., Korymasov E.A., Kononets P.V., Akopov A.L.*

**Repeated and combined operations for cancer and tuberculosis**

St.Petersburg State Research Institute of Phthisiopulmonology, MoH RF. Operators – Acad. Porkhanov V.A., Prof. Yablonsky P.K.

**Surgery for lung cancer**

Gorodskoy Klinicheskiy Onkologicheskiy Dispensary (City Oncological centre). Operator – Prof. Pischik V.G.

**Surgery for tracheoesophageal fistula**

I.P.Pavlov Medical University, MoH RF. Operator - Corr.Member RAS, Professor Parshin V.D.

11:00 – 11:30

Coffee break

11:30 – 13:30

**Live Stream from the Operation Rooms**

*Moderators: Zhestkov K.G., Elkin A.V., Korymasov E.A., Kononets P.V., Akopov A.L.*

**Repeated and combined operations for cancer and tuberculosis**

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**Surgery for lung cancer**

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**Surgery for tracheoesophageal fistula**

I.P.Pavlov Medical University, MoH RF. Operator - Corr.Member RAS, Professor Parshin V.D.

13:30 – 14:30

Lunch / Exhibition

14:30 – 16:30

**Multidisciplinary as a Key to Success in the Treatment of NSCLC Early Stages School. In Hoc Signo Vinces!**  
(sponsored by Astra Zeneca)

*Moderators: Yablonsky P.K., Laktionov K.K., Ilgaz Dogusou*



*Experts in the panel discussion: Kozlov V.V., Denginina N.V., Smolin A.V.*

**School Overview:** Multidisciplinary clinical problem solving including complex and debatable issues in the treatment of early stages of NSCLC. Each topic in the panel discussion is discussed by 3 experts - a surgeon, specialists in radiation and drug therapy, and at the end a short summary from moderators.

Topics for discussion - patient profiles:

1. Resectable and operable (fit for surgery) - type and scope of surgery, lymph node dissection (necessary and sufficient from the point of view of a thoracic oncologist), perioperative drug therapy, place and possibilities of RT
2. Resectable inoperable - criteria and assessment of operability, place and possibilities of radiation therapy, drug therapy
3. Unresectable - invasive staging, CRT, consolidating immunotherapy
4. Locoregional relapses - the choice of tactics and the possibility of surgical, radiation and drug treatment

16:30 – 17:00 Break

17:00 – 19:00 **Functional Diagnostics in Cardiothoracic Surgery School**

*Moderators: Kiryukhina L.D. Bartosh-Zelenaya S.Yu.*

**School Overview:** Expert lectures will cover the main challenges and unresolved issues of cardiorespiratory testing, assessing the functional tolerance of cardiac surgery.

**Bartosh-Zelenaya S.Yu. (Russia)** Assessment of cardiovascular risks in thoracic surgery

**Kiryukhina L.D. (Russia)** Preoperative assessment of the respiratory system

**Kulagina T.Yu. (Russia)** The use of stress tests in the clinic of cardiothoracic surgery

**Berezina A.V. (Russia)** The place of cardiopulmonary exercise testing in assessing the effectiveness of surgical treatment of cardiovascular diseases

**Chushkin M.I., Chernykh N.A., Kirukhina L.D. (Russia)** Functional testing and prehabilitation in thoracic surgery

**Plemiannikova E.V. (Russia)** Preoperative diagnosis and perioperative management of cardiothoracic patients with obstructive sleep apnea syndrome

19:00 – 22:00 **Welcome cocktail party** (Hall 1 / blue 4+5)



**Hall 1**  
Blue 4+5



Sessions are accompanied by simultaneous translation  
Live stream of session

09:00 – 11:00

**Symposium**

**CABG: Reducing Invasiveness and Increasing Graft Patency, Part 1**

*Moderators: Popov A.V., Alekian B.G.*

**Overview:** The session is devoted to one of the oldest, but discussed problems of cardiac surgery - coronary artery bypass grafting. Two sessions are devoted to numerous techniques aimed at improving graft patency and reducing surgical trauma.

**Kaleda V.I. (Russia)** How to improve vein graft patency

**Kamenskikh M.S. (Russia)** Influence of coronary artery bypass grafting on the survival of patients with accelerated coronary blood flow according to transthoracic ultrasound data

**Chernyak A. (Republic of Belarus)** Medium-term results of hybrid myocardial revascularization in patients with an average SYNTAX index

**Zinkov A. (Russia)** Minimally invasive off-pump coronary surgery

**Popov V.A. (Russia)** Minimally invasive on-pump coronary surgery

**Popov V.A., Alekian B.G. (Russia)** Discussion: PTCA or CABG?

11:00 – 11:30 Coffee break

11:30 – 13:30 **PLENARY SESSION. OPENING OF THE CONGRESS**

**Yablonsky P.K. (Russia)**, Chairman, Organising Committee WSCTS 2022  
Welcome to St Petersburg

**Jamieson S. (USA)**, Chancellor, WSCTS  
Welcome to the 30th WSCTS Congress

**Ergashev O.N. (Russia)** Vice Governor of St. Petersburg  
Welcome to St Petersburg

Address by **Reichenspurner H. (Germany)**, Chancellor-Elect, WSCTS



**Zamvar V. (UK)**, Secretary-General, WSCTS  
Introduction of the President, G Nachev

**Nachev G. (Bulgary)** Presidential Address

Welcome the new President: **Kalangos A., Nachev G., Yablonski P.**  
**Yablonsky P.K. (Russia)**, Chairman, Organising Committee WSCTS 2022  
Inauguration of the Academic Session

**Reichenspurner H. (Germany)** Aortic Valve Repair

**Kalangos A. (Switzerland)** GUCH Surgery

**Yablonsky P.K. (Russia)** Thoracic surgery in the XXI century!

**James Cox (USA)** Historical aspects of Operation Labyrinth

13:30 – 14:30 Lunch / Exhibition

14:30 – 16:30 **Symposium**  
**CABG: Reducing Invasiveness and Increasing Graft Patency, Part 2**

*Moderators: Y. A. Schneider, Federico Benetti*

**Overview:** The session is devoted to one of the oldest, but discussed problems of cardiac surgery - coronary artery bypass grafting. Two sessions are devoted to numerous techniques aimed at improving graft patency and reducing surgical trauma.

**Teresa Kieser (Canada)** Total Arterial Grafting: Pitfalls, Tips and Tricks

**Schneider Y.A. (Russia)** Long-term results of autoarterial aortocoronary bypass surgery

**Sotirios Prapas (Greece)** Advantages of An-aortic Coronary Surgery

**Federico Benetti (Argentina)** Minimally invasive off-pump coronary surgery - technical aspects

**Kim G. (Russia)** Epiaortic ultrasound in coronary artery bypass grafting

16:30 – 17:00 Break



17:00 – 19:00

### Symposium

#### Hypertrophic Cardiomyopathy: Concepts and Reality

*Moderators: Bogachev-Prokofiev A.V., S.L. Dzemeshevich*

**Overview:** The session is devoted to endovascular and surgical approaches to the treatment of hypertrophic obstructive cardiomyopathy. Pathophysiology, surgical technique, possible concomitant procedures will be discussed.

**Bogachev-Prokofiev A.V. (Russia)** Do concomitant procedures during septal myectomy improve clinical outcomes in patients with hypertrophic obstructive cardiomyopathy?

**Motreva A.P., Martyanova Yu.B., Kalmicova O.V., Zaklyazminskaya E.V. (Russia)** Five-year experience of left ventricular reconstruction in hypertrophic cardiomyopathy

**Evtushenko A.V. (Russia)** Left ventricle mechanism of obstruction: surgical aspect

**Afanasiev A.V. (Russia)** Is septal myectomy a surgeon-dependent procedure? Results of ten-years single center experience

**Kashtanov M.G. (Russia)** Alcohol septal ablation in patients with hypertrophic obstructive cardiomyopathy: advantages and drawbacks

**Zaklyazminskaya E.V., Dzemeshevich S.L. (Russia)** Unasked questions in the genetics of left ventricular hypertrophy

19:00 Departure of buses (St. Petersburg, Mikhailovskaya st., 2)

20:00 – 22:00

**Opening ceremony at the St. Petersburg Academic Philharmonia**



**Hall 2**  
Green 5+6+7



Sessions are accompanied by simultaneous translation  
Live stream of session

09:00 – 11:00

**Symposium**

**Heart Transplantation and Mechanical Assist Devices: Specific Issues and Challenges. Part 1**

*Moderators: Dzemeshkevich S.L., Aziz S.*

**Overview:** Numerous issues related to end-stage heart failure and possible surgical approaches will be discussed, including a left ventricular assist device, allogeneic and xenogeneic heart transplantation.

**Pya Yu., Novikova S.P. (Republic of Kazakhstan)** Mechanical circulatory support as an alternative to transplantation in Central Asia

**Dzemeshkevich S.L. (Russia)** The fourth decade of life with a transplanted heart as a reason for fundamental conclusions

**Salim Aziz, D.K.S. (USA)** Cooper. Xenotransplantation. Another «biological» solution to the problem of treating heart failure

**Chernyavsky A.M., Zhulkov M.O., Fomichev A.V., Doronin D.V. (Russia)** Heart transplant after mechanical assist device implantation in patients with high pulmonary hypertension

**Zaklyazminskaya E.V. (Russia)** Genetically mediated routing of patients with severe heart failure

11:00 – 11:30 Coffee break

11:30 – 13:30 **Change to Hall 1 / Blue 4+5 for PLENARY SESSION**

13:30 – 14:30 Lunch / Exhibition

14:30 – 16:30

**Symposium**

**Heart Transplantation and Mechanical Assist Devices: Specific Issues and Challenges. Part 2**

*Moderators: Gautier S.V., Yu. Pya, Cooper D., A.O. Shevchenko*

**Overview:** Numerous issues related to end-stage heart failure and possible surgical approaches will be discussed, including a left ventricular assist device, allogeneic and xenogeneic heart transplantation

**Poptsov V.N., Zakharevich V.M., Akopov G.A., Koloskova N.N., Spirina E.A. (Russia)** Heart retransplantation is effective in the terminal stage of graft dysfunction



**Gautier S.V., V.N. Poptsov, V.M. Zakharevich, G.A. Akopov, T.A. Khalilulin, N.N. Koloskova, E.A. Spirina, A.R. Zakiryanov, G.V. Aniskevich, A.O. Shevchenko (Russia)** Heart transplantation at Federal State Budgetary Institution "Academician V.I.Shumakov Federal Research Center of Transplantology and Artificial Organs", Ministry of Health of the Russian Federation: experience of more than 1,800 operations

**Khalilulin T.A., Poptsov V.N., Zakharevich V.M., Ryabtsev D.V. (Russia)** Heart transplantation and implantation of mechanical assist devices in children

**Yus F. (Germany)** The role of the Organ Care System in heart transplantation in patients after multiple cardiac surgeries

**Sebastian Rojas (Germany)** Heart transplantation in patients with VAD

**Spiridonov S. (Republic of Belarus)** Heart transplantation in patients with mechanical circulatory support

**Kushvaha S. (USA)** Ways to control transplanted heart vasculopathy

16:30 – 17:00 Break

17:00 – 19:00 **Symposium Organ Protection in Aortic Surgery**

*Moderators: Shrestha M.L., Charchyan E.R., Rosseikin E.V.*

**Overview:** The session is devoted to one of the most important and widely discussed issues in aortic surgery - the protection of peripheral organs. Various types of aortic surgery and methods of protection will be discussed.

**Malach Shresta (Germany)** Cerebral protection in aortic surgery

**Charchyan E.R. (Russia)** Protection of the abdominal organs in aortic surgery

**Rosseikin E.V. (Russia)** Surgery of the aortic arch - the experience of Khabarovsk

**Kozlov B.N. (Russia)** Surgery of the aortic arch - the experience of Tomsk

**Li-Zhong Sun (People's Republic of China)** Sun's procedure for complex aortic arch repair

**John Eleftheriades (USA)** Surgery of the aortic arch - the experience of Yale University

**George Matalanis (USA)** Arch first technique for aortic arch surgery

**Marco Di Eusanio (Switzerland)** Aortic arch surgery - the Ascona experience

19:00 Departure of buses (St. Petersburg, Mikhailovskaya st., 2)

20:00 – 22:00 **Opening ceremony at the St. Petersburg Academic Philharmonia**



**Hall 3**  
Green 8

Sessions are not accompanied by simultaneous translation

09:00 – 11:00

**Symposium of the Russian Association of Nurses  
«Cardio-Thoracic Surgery. Points of Contact of Specialties»**

**Part 1**

*Moderators: Korepina E.V., Agapova Yu.V.*

**Overview:** Multi-faceted reports will highlight the work of nurses in cardiothoracic surgery from different angles

Opening of the symposium

**Nikitina L.D. (Russia)** Features of the work of nurses in TB surgery

**Strazhkova G.F. (Russia)** High-tech technologies in the work of a surgical nurse. Transcatheter implantation of the aortic valve (TAVI) – affordable care for the elderly

**Dzhumanova E.N. (Russia)** A man with a «big» heart

**Monetkina A.M. (Russia)** Robot-assisted surgery in the work of TB surgical nurses

**Raevskaya N.G. (Russia)** Taking care of the operational period in pediatric cardiac surgery through the eyes of an operating nurse

**Polyakova A.E. (Russia)** Thoracoscopic and video-assisted operations in spontaneous pneumothorax: safety and comfort of the operating team

**Mundrueva A.A. (Russia)** Ensuring infectious safety during endoscopic manipulations. Changes in legislation. The role of nursing staff

**Poletova Yu. I. (Russia)** Modern aspects of the work of a nurse in the operating room

**Danilova A.V. (Russia)** Modern standards for disinfection and pre-sterilization cleaning of medical instruments in healthcare facilities

11:00 – 11:30 Coffee break

11:30 – 13:30 **Change to Hall 1 / Blue 4+5 for PLENARY SESSION**

13:30 – 14:30 Lunch / Exhibition



14:30 – 16:30 **Symposium of the Russian Association of Nurses  
«Cardio-Thoracic Surgery. Points of Contact of Specialties»  
Part 2**

*Moderators: Korepina E.V., Agapova Yu.V.*

**Overview:** Multi-faceted reports will highlight the work of nurses in cardiothoracic surgery from different angles

**Sulimova R.E. (Russia)** «High risk” patient safety. The art of avoiding complications. Perspective of a nurse anesthetist

**Kashmenskaya V.N. (Russia)** The role of nurses in the observation and examination of newborns with DUCTUS-dependent heart defects

**Kuznetsova V.V. (Russia)** Master-class «While waiting for the resuscitators»

**Masalova N.Yu. (Russia)** Perioperative antibiotic prophylaxis in surgical practice. The role of nurses

**Tikhonova A.V., Kozlova N.V. (Russia)** «Lean production». Patient-centered approach in the operating room

**Korepina E.V. (Russia)** SOP as a tool for internal quality control of a medical organization. Responsibility of nursing staff

16:30 – 17:00 Break

17:00 – 19:00 **Specialized Session of the Russian Association of Nurses «Surgery»**  
Outside accredited program

19:00 Departure of buses (St. Petersburg, Mikhailovskaya st., 2)

20:00 – 22:00 **Opening ceremony at the St. Petersburg Academic Philharmonia**



**Hall 4**  
Green 9



Sessions are accompanied by simultaneous translation  
Live stream of session

09:00 – 11:00

**Symposium**

**Surgery for Congenital Heart Disease is a Lifelong Problem. Part 1**

*Moderators: Movsesyan R.R. Arkhipov A.N. Belov V.A.*

**Overview:** These sessions aim to provide a comprehensive overview of the organizational and surgical issues of congenital heart disease in adults, including primary and secondary surgery. Operational video presentations as well as live surgeries will be held and discussed.

**Avramenko A.A. (Russia)** Peculiarities of care for adults with congenital heart defects in the Russian Federation

**Grekhov E.V. (Russia)** Reconstruction of the aortic arch in various obstructive lesions

**Abramyan M.A., Shamrin Yu.N., Bedin A.V., Khasanova K.A., Topilin O.G. (Russia)** Problems Surgical treatment of vascular compression of the trachea and esophagus

**Movsesyan R.R. (Russia)** Video presentation «Tricuspid valve cone reconstruction surgery for Ebstein's anomaly»

11:00 – 11:30 Coffee break

11:30 – 13:30 **Change to Hall 1 / Blue 4+5 for PLENARY SESSION**

13:30 – 14:30 Lunch / Exhibition

14:30 – 16:30

**Symposium**

**Surgery for Congenital Heart Disease is a Lifelong Problem. Part 2**

*Moderators: Movsesyan R.R. Arkhipov A.N. Belov V.A.*

**Overview:** These sessions aim to provide a comprehensive overview of the organizational and surgical issues of congenital heart disease in adults, including primary and secondary surgery. Operational video presentations as well as live surgeries will be held and discussed.

**Arkhipov A.N. (Russia)** Adult patients in HPU: problems at the intersection of specialties

**Barbuhatti K.O. (Russia)** Experience in surgical treatment of congenital heart defects in adults

**Belov V.A. (Russia)** Ross operation for congenital aortic valve disease

**Shikhranov A.A., Bazylev V.V., Makogonchuk I.S., Chernogrivov I.E. (Russia)** Clinical and fundamental aspects of the



Ozaki operation in patients older than 10 years

**Kim A.I., Chernogrivov A.E. (Russia)** Video live stream from the operating room of the Bakulev Scientific Center for Cardiovascular Surgery, Ozaki operation

16:30 – 17:00 Break

17:00 – 19:00 **Symposium**  
**Functional Diagnostics in Cardiothoracic Surgery**

*Moderators: Kiryukhina L.D., Gorbunkov S.D.*

**Overview:** features of preoperative cardiorespiratory testing in patients with heart and lung pathology.

**Savushkina O.I., Zaitsev A.A., Malashenko M.M., Aseeva N.A., Astanin P.A., Davydov D.V., Kryukov E.V. (Russia)** Functional disorders of the respiratory system in patients with penetrating lung wounds

**Savushkina O.I., Fokin A.V., Komolova L.Yu., Zaitsev A.A. (Russia)** The role of functional research methods in the diagnosis of diaphragm dysfunction: clinical case (fm Burdenko Hospital)

**Esakov Yu.S. (Russia)** The role of noninvasive stress cardiorespiratory testing in planning anatomical lung resections

**Fedotov P.A., Tarasova O.S., Simonenko M.A., Berezina A.V., Mamontov O.V. (Russia)** Early and separated results of heart transplantation in Almazov National Medical Research Centre. Possibilities of rehabilitation in conditions of vegetative denervation

**Chushkin M.I., Bagirov M.A., Donchenko D. V., Krasnikova E.V., Chashchina M.V. (Russia)** The possibilities of using extrapleural silicone implant filling and valvular bronchoblocation in patients with fibrotic-cavernous pulmonary tuberculosis with impaired respiratory function

**Mishra R.P., Akopov A.L., Kovalev M.G., Zaripova Z.A. (Russia)** Long term prognosis of the respiratory function main parameters after anatomical lung resections

**Gorbunkov S.D. (Russia)** Functional results of surgical treatment of lung emphysema

**Maximova A.Y., Kulagina T.Y. (Russia)** A 6-minute test or a marching test. What to choose for surgical risk assessment (identification of high-risk patients)?

**Davidovskaya E.I., Ruzanov D.Yu. (Republic of Belarus)** Functional monitoring in minimally invasive lung surgery

19:00 Departure of buses (St. Petersburg, Mikhailovskaya st., 2)

20:00 – 22:00 **Opening ceremony at the St. Petersburg Academic Philharmonia**



**Hall 5**  
Red 8+9

Sessions are not accompanied by simultaneous translation

- 09:00 – 11:00 **Training Room**  
**Master-class**  
**Practicing Minimally Invasive Surgery Skills**
- 11:00 – 11:30 Coffee break
- 11:30 – 13:30 **Change to Hall 1 / Blue 4+5 for PLENARY SESSION**
- 13:30 – 14:30 Lunch / Exhibition
- 14:30 – 16:30 **Training Room**  
**Master-class**  
**Practicing Minimally Invasive Surgery Skills**
- 16:30 – 17:00 Break
- 17:00 – 19:00 **Training Room**  
**Master-class**  
**Practicing Minimally Invasive Surgery Skills**
- 19:00 Departure of buses (St. Petersburg, Mikhailovskaya st., 2)
- 20:00 – 22:00 **Opening ceremony at the St. Petersburg Academic Philharmonia**



**Hall 6**  
Red 10



Sessions are accompanied by simultaneous translation  
Live stream of session

09:00 – 11:00

**Symposium**

**Possibilities of Surgical Treatment for Intrathoracic Metastases**

*Modertors: Pikin O.V., Levchenko E.V., Ter-Ovanesov M.D.*

**Overview:** The session is devoted to multimodal treatment of intrathoracic metastases, including the issues of isolated lung chemoperfusion.

**Migliore M. (Italy)** Hyperthermic Intrathoracic Chemotherapy in thoracic surgery

**Van Schil P. (Belgium)** Chemoperfusion for lung cancer

**Levchenko E.V. (Russia)** Isolated lung chemoperfusion with metastasectomy for colorectal cancer

**Pikin O.V., Ryabov A.B., Kolbanov K.I. (Russia)** Modern surgical treatment of patients with pulmonary metastases of colorectal cancer

**Akhmedov B.B., Tryakin A.A., Kononets P.V. (Russia)** Surgical treatment of lung metastases. The oncologist's view.

11:00 – 11:30 Coffee break

11:30 – 13:30 **Change to Hall 1 / Blue 4+5 for PLENARY SESSION**

13:30 – 14:30 Lunch / Exhibition



14:30 – 16:30

### Symposium

#### Staging of Lung Cancer. What Has Changed in the TNM Classification?

*Moderators: Marcello Migliore, Polyakov I.S.*

**Overview:** it is planned to discuss changes in the modern TNM classification and the classical directions of lung cancer staging

**Kolbanov K.I. (Russia)** Basic principles of lung cancer staging based on TNM classification 8

**Ramon Ramy-Porta (Spain)** What has changed in the TNM classification and why?

**Vasiliev I.V. (Russia)** Endoscopic staging of lung cancer

**Petrov A.S. (Russia)** Surgical staging of lung cancer

**Migliore M. (Italy)** Revision of the TNM classification for stage IV lung cancer

16:30 – 17:00 Break

17:00 – 19:00

### Symposium

#### Lung Cancer Surgery Beyond the Standards

*Moderators: Porkhanov V.A., Puja Khaitan, Pikin O.V.*

**Overview:** Only non-standard and complex cases of lung cancer, tactics beyond the prescribed standards

**Nan Wu (People's Republic of China)** Surgical treatment of lung cancer after neoadjuvant immunochemotherapy

**Porkhanov V.A. (Russia)** Out-of-the-box bronchoangioplastic resections for lung cancer

**Migliore M. (Italy)** New possibilities of R1, R2 lung resection against the background of modern immunochemotherapy

**Zamvar V. (UK)** Carcinoid Heart and Lung Disease

**Khaitan P. (USA)** LC Stage III: resection after immunotherapy?

**Bagrov V.A., A.B. Ryabov, O.V. Pikin (Russia)** Lung cancer surgery in non-standard clinical situations

19:00 Departure of buses (St. Petersburg, Mikhailovskaya st., 2)

20:00 – 22:00

#### Opening ceremony at the St. Petersburg Academic Philharmonia



**Hall 7**  
Red 11



Sessions are accompanied by simultaneous translation  
Live stream of session

09:00 – 11:00

**Symposium**

**Sternomediastinitis and Other Infectious Problems in Cardiothoracic Surgery**

*Moderators: Kovalenko A.L., Pechetov A.A.*

**Overview:** The most topical issues for discussion and modern strategies for successful management of infectious problems in cardiothoracic surgery.

**Charchyan E.R. (Russia)** Infection of a thoracic aortic prosthesis

**Watzka S. (Austria)** Treatment of mediastinal abscess

**Rubalsky E.V. (Germany)** Use of bacteriophages in the treatment of implant-associated infections

**Kovalenko A.L., Sirota A.A. (Russia)** Variants of re-osteosynthesis of the sternum

**Medvedchikov-Ardia M.A., Korymasov E.A., Benyan A.S. (Russia)** Anatomical justification of the use of vascularized muscle flaps in 'chest wall defects' surgery.

**Pechetov A.A. (Russia)** Algorithm of actions after sternomediastinitis debridement

**Shevchenko A.A., Zhila N.G., Kashkarov E.A., Topalov K.P. (Russia)** Surgical treatment of osteomyelitis of the sternum and sternomediastinitis after cardiac surgery in the Far Eastern Federal District of Russia

**Tatarchenko A.V. (Russia)** NPWT technique and modern dressings as a key to reducing the number of complications after sternotomy

11:00 – 11:30 Coffee break

11:30 – 13:30 **Change to Hall 1 / Blue 4+5 for PLENARY SESSION**

13:30 – 14:30 Lunch / Exhibition

14:30 – 16:30

**Satellite Symposium on Congenital Heart Defects**

Federal State Budgetary Institution "National Medical Research Center for Cardiovascular Surgery named after A.N. Bakulev", MoH of the RF

*Moderators: Golukhova E.Z., Podzolkova V.P., Kim A.I.*

**Shatalov K.V. (Russia)** Current trends in congenital heart defect surgery



**Chernogrivov A.E., Kim A.I. (Russia)** Critical CHDs in newborns and infants

**Podzolkov V.P., Chiaureli M.R., Danilov T.Yu., Kovalev D.V., Minaev A.V., Yurlov I.A. (Russia)** Key issues in the treatment of CHD in adults

**Svobodov A.A. (Russia)** Rare CHDs

**Petrosian K.V. (Russia)** Endovascular techniques in the treatment of CHD

Discussion

16:30-17:00 Break

17:00 – 19:00

### Symposium

#### Surgery of Infectious Destroyed Lung

*Moderators: Korymasov E.A., Subotic D.*

**Overview:** Infectious destruction of the lungs is one more area that is becoming more and more topical as of late. During this session, leading experts in this area will tell about difficulties and complications when treating such patients.

**Subotic D. (Serbia)** Pleural empyema-underlying diseases

**Watzka S. (Austria)** Surgical options in the management of destroyed lung

**Zolotarev D.V., Danielyan Sh.N., Ibadov I.U. (Russia)** Features of the treatment of lung abscesses with sequestration.

**Scriabin S.A. (Russia)** Lung resection versus thoracotomy for lung abscess

**Zeimakh E.A., Shoikhet Ya.N., Levin A.V., Kurtukov V.A., Zimonin P.E. (Russia)** Treatment of pleural empyema

**Matveev V.Yu., Burmistrov M.V., Magomedov B.A., Gaissin R.R., Khissamov R.R. (Russia)** Modern endoscopic technologies in the treatment of pleural empyema

**Avzaletdinov A.M., Vildanov T.D., Nurgudin A.A. (Russia)** Features of surgical treatment of bronchiectasis using the DAVINCI robot-assisted surgical system.

**Plaksin S.A., Farshatova L.I. (Russia)** Postoperative ischemic necrotizing bronchitis as a cause of broncho-pleural fistula and acute pleural empyema

**Avetisyan A.O. (Russia)** Methods of protection of the main bronchial stump after pneumonectomy for destroyed lung

**Ibadov I.U. (Russia)** Lung destruction associated with COVID-19

20:00 – 22:00

**Opening ceremony at the St. Petersburg Academic Philharmonia**



**Hall 1**  
Blue 4+5



Sessions are accompanied by simultaneous translation  
Live stream of session

09:00 – 11:00

**Symposium**  
**Lung and Heart-Lung Transplantation**

*Moderators: Fabio Ius, Gautier S.V., Pashkov I.V.*

**Overview:** The session is devoted to the problems of lung and heart transplantation, including numerous surgical, immunological and pediatric issues.

**Ius F. (Germany)** Lung transplantation in the presence of donor-specific antibodies

**Iablonskii P.P. (Russia)** Lung transplantation in children under 12 years of age: a 16-year single center experience

**Gautier S.V., Pashkov I.V., Poptsov V.N., Akopov G.A., Spirina E.A. (Russia)** Lung and heart-lung transplantation in Russia

**Pashkov I.V., Oleshkevitch D.O. (Russia)** Graft volume reduction in lung transplantation.

**Gautier S.V., Pashkov I.V., Tsiurlikova O.M., Oleshkevitch D.O. (Russia)** Lung transplantation in cystic fibrosis.

11:00 – 11:30 Coffee break

11:30 – 13:30

**PLENARY SESSION:**  
**Russian Achievements in Cardiothoracic Surgery**

*Moderators: Yablonsky P.K., Bockeria L.A. Porkhanov V.A.*

**Overview:** Achievements of the Russian cardiovascular surgery, cardiology, transplantology and thoracic oncology.

**Shlyakhto E.V. (Russia)** The problem of heart failure in real clinical practice: what to do?

**Gautier S.V. (Russia)** Transplantology and artificial organs in Russia 2022: challenges of the time and traditional priorities

**Revishvili A.Sh. (Russia)** Surgical treatment of atrial fibrillation in combined cardiac surgery interventions: state of the art

**Bokeria L.A. (Russia)** Cardiovascular surgery in Russia 2016-2021



13:30 – 14:30 Lunch / Exhibition

14:30 – 16:30 **Symposium**

**Challenges of the Aortic Valve Repair: Tricuspid vs Bicuspid Valve**

*Moderators: I.I. Chernov, Malakh Shrestha*

**Overview:** The symposium focuses on the intricacies of aortic valve repair, including relatively rare reoperations, and the specifics of minimally invasive aortic root surgery.

**Reichenspurner H. (Germany)** Current state of aortic valve repair

**Chernov I.I. (Russia)** David repair after Ross procedure

**Schäfers H. (Germany)** Concepts of bicuspid aortic valve repair

**Shrestha M. (Germany)** Minimally Invasive Reconstruction of Aortic Valve with cerebral protection in aortic surgery

**Bogachev-Prokofiev A.V. (Russia)** Reconstruction of the aortic root in bicuspid aortic valve anatomy

**Komarov R.N., Ismailbaev A.M., Chernyavsky S.V., Alisov B.M., Enginiev S.T. (Russia)** Modified Yakub procedure using the technology of autopericardial neocuspidalization of the aortic valve

**Konovalov N.S., Gamzaev A.B. (Russia)** Neocuspidization versus aortic valve replacement in adult patients with narrow aortic root

16:30-17:00 Break

17:00 – 19:00 **Symposium**

**Miscellaneous in Cardiac Surgery**

*Moderators: Bazylev V.V., Popov V.A.*

**Overview:** The session is devoted to rare diseases and unusual methods of surgical correction in modern cardiac surgery.

**Mikuliak A.I. (Russia)** Experience in left ventricular reconstruction.

**Stephen Clark (USA)** Heart Transplantation

**Shatelen N. (Switzerland)** The rheumatic mitral valve repair

**Gorshkov N.S., Chernaya N.R., Danielyan S.N. (Russia)** Tactics of treatment of thoracic aortic rupture complicated by hemothorax

**Gerasimov S.S. Charchyan E.R., Muratov R.M., Tyurin I.E., Kozlov N.A., Kononets P.V. (Russia)** Modern approaches and



results of treatment of patients with primary malignant tumors of the heart

**Simakova M. A. (Russia)** Treatment of patients with chronic pulmonary embolism: five-year experience of the Almazov National Medical Research Centre

**Popov V.A. (Russia)** Only coronary bypass surgery can prolong life and prevent myocardial infarction in patients with stable coronary artery disease

**Chernyavsky A.M. (Russia)** 15 years of experience in the surgical treatment of CTEPH

19:00 Departure of buses (St. Petersburgskoje highway, 130, K7)

20:00 – 23:45 **GALA RECEPTION IN PETERHOF SUMMER PALACE**

## Hall 2 Green 5+6+7



Sessions are accompanied by simultaneous translation  
Live stream of session

09:00 – 11:00 **ABC of Segmentectomies for Lung Cancer School**

*Moderators: Pischik V.G., Polyakov I.S.*

**Overview:** The school will cover the main aspects of indications, contraindications, techniques and unresolved problems when doing segmentectomy for lung cancer.

**Sihoie A. (People's Republic of China)** Indications for segmentectomy in lung cancer: modern guidelines

**Barmin V.V., Ryabov A.B., Pikin O.V. (Russia)** Who does not need segmentectomy for lung cancer?

**Kovalenko A.I. (Russia)** Functional results of SE in lung cancer

**Pischik V.G. (Russia)** Technique of simple and complex segmentectomies

**Kononets P.V., Topol K.Yu., Yeltsov I.V., Akhmedov B.B., Tyurin I.E. (Russia)** 3D modeling in planning thoracoscopic anatomical resections in lung cancer

11:00 – 11:30 Coffee break



11:30 – 13:30

**Symposium**  
**Visualization in Cardiothoracic Surgery**

*Moderators: Sinitsyn V.E., Tyurin I.E., Gavrilov P.V.*

**Overview:** How can a radiologist help cardiothoracic surgeon and what a cardiothoracic surgeon should know about radiation diagnostics: the main points of contact.

**Tyurin I.E. (Russia)** Possibilities of radiological methods for small pulmonary nodules

**Vasiliev I.V. (Russia)** How not to lose the focus in the operating room

**Eserval Rocha Junior (Brasil)** 3d reconstruction: a valuable tool for the Thoracic Surgeon

**Gavrilov P.V. (Russia)** Artificial intelligence in thoracic surgery

**Zyablova E.I. (Russia)** The role of ECG synchronization in chest CT angiography in patients with central lung cancer

**Sinitsyn V.E. (Russia)** Tumors of the heart and mediastinum

13:30 – 14:30 Lunch / Exhibition

14:30 – 16:30

**Symposium**  
**Miscellaneous in Thoracic Oncology. Part 1**

*Moderators: Ryabov A.B., Akopov A.L.*

**Overview:** Interesting reports on thoracic oncology, which, due to their originality, could not fit into the main program, but deserve to be heard.

**Shvetsov A.N. (Russia)** Topical issues of pediatric thoracic oncosurgery

**Kazakov N.V. (Russia)** Possibilities of screening and early diagnosis of central lung cancer

**Sokolov S.A., Popov M.I., Sekhniaidze D.D., Ryabov A.B., Pikin O.V. (Russia)** Methods of endoscopic biopsy under ultrasound guidance in thoracic oncology

**Kuteneva N.V., Telegina L.V., Pirogov S.S., Vodoleev A.S., Pikin O.V. (Russia)** The use of endoscopic methods in the combined treatment of stenosing tumors of the trachea

**Atyukov M.A., Petrov A.S., Skhorohod A.A., Zemtsova I.Yu., Novikova O.V., Michsherekov M.S., Zhemchugova-Zelenova O.A., Yablonsky P.K. (Russia)** Simultaneous video-assisted mediastinal lymphadenectomy and thoracoscopic bronchoplastic lobectomy in the treatment of patients with central cancer of the left lung



16:30 – 17:00 Break

17:00 – 19:00 **Symposium**  
**Miscellaneous in Thoracic Oncology. Part 2**  
*Moderators: Bazarov D.V., Avzaletdinov A.M.*

**Overview:** Interesting reports on thoracic oncology, which, due to their originality, could not fit into the main program, but deserve to be heard.

**Bazarov D.V., Grigorchuk A.Yu., Charchan E.R., Belov Yu.V., Nikoda V.V., Eremenko A.A., Kavochkin A.A., Kabakov D.G. (Russia)** Simultaneous and combined operations in thoracic surgery: single center experience

**Kantar M. (Bosnian Serb Republic)** Single-port thoracoscopic access for combined lung resections

**Alexandrov O.A. (Russia)** Giant chondrosarcoma of the chest wall

**Rudenko M.S. (Russia)** Restoration of the frame during surgical treatment of chest wall tumors

**Naryzhny N.V. (Russia)** Hybrid surgical methods for the treatment of costovertebral angle neoplasms

**Maxim I.I. (Молдавия)** Pulmonary hypertension as a predictor of complications after resections in non-small cell lung cancer

19:00 Departure of buses (St. Petersburgskoje highway, 130, K7)

20:00 – 23:45 **GALA RECEPTION IN PETERHOF SUMMER PALACE**



Hall 3  
Green 8

Sessions are not accompanied by simultaneous translation

09:00 – 11:00

**Symposium**  
**Anesthesiology and Intensive Care in Cardiothoracic Surgery.**

**Part 1**

*Moderators: Molchanov I.V., Lebedinsky K.M., Schegolev A.V.*

**Overview:** Leading experts will share their experience and highlight topical issues in the field of cardiothoracic anesthesiology within the framework of the symposium.

**Vyzhigina M.A. (Russia)** Innovative solutions of anesthetic protection in high-tech thoracic surgery

**Poptsov V.N. (Russia)** Anesthesia and intensive care for high-risk heart transplant

**Lebedinsky K.M. (Russia)** Ventilation-perfusion relations: what can we monitor?

**Ovsyannikov R.Yu. (Russia)** Is it possible to replace blood gas analysis with a metabolograph when setting up PEEP?

**Kabakov D.G. (Russia)** Gas exchange efficiency management in thoracic surgical interventions

**Vasiliev Ya.I. (Russia)** Operations on the lungs after contralateral resections: how to carry out one-lung ventilation?

**Farshatov A.G., Ershov E.N., Shchegolev A.V. (Russia)** Methods for correcting hypoxemia during one-lung ventilation. What's new?

11:00 – 11:30 Coffee break

11:30 – 13:30

**Symposium**  
**Anesthesiology and Intensive Care in Cardiothoracic Surgery.**

**Part 2**

*Moderators: Klein G.V., Khoronenko V.E., Shin A.R.*

**Overview:** Leading experts will share their experience and highlight topical issues in the field of cardiothoracic anesthesiology within the framework of the symposium.

**Shin A.R. (Russia)** Anesthesia in thoracoscopic operations

**Klein G.V., Veremeychuk P.V., Lifinsky M.V., Chukseev S.E., Khattunen A.S. (Russia)** Mechanical circulatory support in cardiogenic shock in patients with acute coronary syndrome in a regional hospital

**Khoronenko V.E. (Russia)** Perioperative care in high-risk thoracic oncology



**Zhikharev V.A. (Russia)** Optimization of protective lung ventilation in thoracic surgery

**Pimakhina E.V., Pimakhin A.A., Vishnyakov N.V., Tolkach N.M., Vasin I.V., Okrut O.V., Bizyaeva E.M. (Russia)** Analytical track membranes in the reduction of capillary stasis and the decrease in the intensity of perifocal inflammation with the introduction of 20% smoflipid

13:30 – 14:30 Lunch / Exhibition

14:30 – 16:30 **Symposium**  
**Anesthesiology and Intensive Care in Cardiothoracic Surgery.**  
**Part 3**

*Moderators: Prigorodov M.V., Afonchikov V.S., Shegolev A.V.*

**Overview:** Leading experts will share their experience and highlight topical issues in the field of cardiothoracic anesthesiology within the framework of the symposium.

**Afonchikov V.S. (Russia)** Respiratory support for patients with chest trauma

**Yakovlev A.Yu. (Russia)** Pulmonary contusion or pulmonary fat embolism syndrome? Innovative approaches to differential diagnostics and treatment

**Prigorodov M.V.** Morpho-functional operability

**Gruzdev V.E. (Russia)** A modern approach to the method of providing mechanical ventilation during thoracic operations

**Lee W.F. Serebryansky K.I. Yakubenko E.A., Sokolova O.P. (Russia)** Nitric oxide ventilation in thoracic surgery

16:30 – 17:00 Break



17:00 – 19:00

### **Symposium**

#### **Invasive Diagnostics of Thoracic Cavity Organs' Diseases. Endoscopy vs Thoracic Surgery**

*Moderators: Danilevskaya O.V., Petrov A.S.*

**Overview:** At present, the need for invasive diagnostics in patients with pathology of the chest cavity is no longer a question. However, the choice of a specific method is still determined, as a rule, by the preferences of a specific clinic. The symposium will present the viewpoints of experts on the use of invasive diagnostics in various pathological conditions of the chest organs.

#### **Mediastinal Lymphadenopathy:**

**Vasiliev I.V. (Russia)** EBUS-TBNA

**Petrov A.S. (Russia)** Mediastinoscopy

#### **Diffuse Parenchymal Diseases:**

**Danilevskaya O.V. (Russia)** Transbronchial lung tissue biopsy

**Kovalenko A.I. (Russia)** VATS procedures

#### **Pulmonary Infiltrate:**

**Mamenko I.S. (Russia)** Transbronchial lung biopsy

**Esakov Yu.S. (Russia)** VATS procedures

**Kovalenko A.I. (Russia)** Videothoroscopic biopsy for peripheral lung neoplasm

19:00 Departure of buses (St. Petersburgskoje highway, 130, K7)

20:00 – 23:45

#### **GALA RECEPTION IN PETERHOF SUMMER PALACE**



**Hall 4**  
Green 9



Sessions are accompanied by simultaneous translation  
Live stream of session

09:00 – 11:00

**Symposium**

**Molecular Medicine: Place and Role in Cardio-Thoracic Pathology**

*Moderators: Kvetnoy I.M., Benberin V.V.*

**Overview:** Signal molecules, molecular mechanisms and biological age is an incomplete list of topics that will be covered by speakers within the framework of this most interesting symposium.

**Kvetnoy I.M. (Russia)** Signal molecules as markers and targets in cardio-thoracic pathology.

**Benberin V.V. (Republic of Kazakhstan)** Heterogeneity of vascular aging - the way to preventive medicine

**Ilitsky A.N., Proshaev K.I. (Republic of Belarus)** Biological age in clinical and molecular screening of heart and lung

**Reiter R. (USA)** Melatonin and Mitochondrial Function in the Context of Cardiovascular Physiology

**Hashimova U.F. (Republic of Azerbaijan)** Melatonin and Sirtuins as Potential Biomarkers of Aging and Age-Related Cardiovascular Pathologies

11:00 – 11:30 Coffee break

11:30 – 13:30

**Symposium**

**Fundamental Science to Cardiothoracic Medicine. Part 1**

*(Satellite symposium of St Petersburg State University)*

*Moderators: Gurevich V.S., Axel Haverich*

**Overview:** Pathogenesis of atherosclerosis, tissue engineering and other fundamental issues related to cardiothoracic pathology.

**Gurevich V.S. (Russia)** Innovative lipid-lowering pharmacotherapy for invasive coronary revascularization

**Haverich A. (Germany)** The role of Vasa Vasorum in atherogenesis: Clinical observations and pathophysiological considerations

**Novitskaya T.A. (Russia)** Pathomorphological changes in vasa vasorum in aortic atherosclerosis

**Shoenfeld I. (Israel)** Autoimmune aspects of atherosclerosis and their significance for immunomodulation

13:30 – 14:30 Lunch / Exhibition



14:30 – 16:30

### Symposium

#### Fundamental Science to Cardiothoracic Medicine. Part 2

(Satellite symposium of St. Petersburg State University)

*Moderators: Gurevich V.S., Axel Haverich*

**Overview:** Pathogenesis of atherosclerosis, tissue engineering and other fundamental issues related to cardiothoracic pathology

**Tennikova T.B., Korzhikov-Vlakh V.A., Korzhikova-Vlakh E.G., Guryanov I.A., Sharoiko V.V., Urtti A. (Russia)** «Smart» design of biomaterials for modern drug delivery systems and tissue engineering

**Chernyavsky A.M., Edemsky A.G. (Russia)** Modulation of the autonomic nervous system to prevent the development of residual CTEPH

**Svetlikov A.V., Galkin P.A., Kebryakov A.V., Ratnikov V.A., Kashchenko V.A. (Russia)** Non-lipid factors in the progression of abdominal aortic aneurysms

**Barsukov A.V., Korovin A.E. (Russia)** The problem of low-intensity systemic inflammation in modern cardiovascular medicine

16:30 – 17:00

Break

17:00 – 19:00

### Symposium

#### Fundamental Science to Cardiothoracic Medicine. Part 2

(Satellite symposium of St. Petersburg State University)

*Moderators: Gurevich V.S., Axel Haverich*

**Overview:** Pathogenesis of atherosclerosis, tissue engineering and other fundamental issues related to cardiothoracic pathology

**Krasavin M.Yu. (Russia)** Strategies for searching for new therapeutic agents with anticancer and antiinfective activity

**Kashchenko V.A. (Russia)** Modern possibilities of intraoperative assessment of tissue perfusion in surgery

**Guryanov M.I., Yablonsky P.K. (Russia)** Experimental modeling of complex cardiac arrhythmias

**Zolotykh V.G., Gvozdetsky A.N., Novitskaya T.A., Stroev Yu.I., Utekhin V.I., Churilov L.P., Shenfeld I., Yablonsky P.K. (Russia)** Silicone breast implants and autoimmunity: results of one year follow-up

**Capuani A. (Italy)** Investigating bioelectrical signals during embryogenesis in chick embryo model: towards Molecular Cardiac Surgery. Preliminary results

19:00 Departure of buses (St. Petersburgskoje highway, 130, K7)

20:00 – 23:45

**GALA RECEPTION IN PETERHOF SUMMER PALACE**



**Hall 5**  
Red 8+9

Sessions are not accompanied by simultaneous translation

- 09:00 – 11:00 **Training Room**  
**Master-class**  
**Practicing Minimally Invasive Surgery Skills**
- 11:00 – 11:30 Coffee break
- 11:30 – 13:30 **Training Room**  
**Master-class**  
**Practicing Minimally Invasive Surgery Skills**
- 13:30 – 14:30 Lunch / Exhibition
- 14:30 – 16:30 **Training Room**  
**Master-class**  
**Practicing Minimally Invasive Surgery Skills**
- 16:30 – 17:00 Break
- 17:00 – 19:00 **Training Room**  
**Master-class**  
**Practicing Minimally Invasive Surgery Skills**
- 19:00 Departure of buses (St. Petersburgskoje highway, 130, K7)
- 20:00 – 23:45 **GALA RECEPTION IN PETERHOF SUMMER PALACE**



**Hall 6**  
Red 10



Sessions are accompanied by simultaneous translation  
Live stream of session

09:00 – 11:00

**Symposium**  
**Surgical Treatment of the Diaphragmatic Disorders**

*Moderators: Burmistrov M.V., Parshin V.D.*

**Overview:** The symposium includes a digest of modern technologies in the treatment of the most relevant diseases of the diaphragm

**Mariani A.W. (Brasil)** Robotic Surgery for Diaphragmatic Diseases

**Vasilevsky D.I. (Russia)** Unresolved issues of hiatal hernia surgery

**Burmistrov M.V. (Russia)** Postoperative relapses of hiatal hernia – causes and features of surgical treatment

**Belokonev V.I., Pushkin S.Yu., Kovaleva Z.V., Abashkin N.Yu., Volkov L.A., Cooper V.D. (Russia)** Problems in the treatment of complicated and recurrent hiatal hernias

**Khoruzhenko A., Parshin V.D. (Russia)** Classification and treatment of the diaphragm relaxation

**Razumovsky A.Yu. (Russia)** Diaphragmatic hernias in children

**Ladygin A.V. (Russia)** Dunbar syndrome

**Bazarov D.V., Grigorchuk A.Yu., Kazaryan G.A. (Russia)** VATS plication of the diaphragm in acquired paralysis of the diaphragm: indications, technique, results

11:00 – 11:30

Coffee break

11:30 – 13:30

**Symposium**  
**Surgery of Mediastinal Tumors**

*Moderators: Pischik V.G., Jens C. Rueckert*

**Overview:** Extended and combined operations for locally advanced mediastinal tumors, thoracoscopic operations for invasive mediastinal tumors, discussion of the role of minimally invasive approaches etc.

**Filosso P.L. (Italy)** Current thymoma classification: what does it give the surgeon?

**Pikin O.V., Ryabov A.B., Kolbanov K.I. (Russia)** Results of treatment of patients with thymic tumors with pleural dissemination



**Porkhanov V.A. (Russia)** Giant tumors of the mediastinum

**Pischik V.G. (Russia)** Thoracoscopic operations for invasive mediastinal tumors

**Rueckert J. C. (Germany)** The role of minimally invasive approaches in the surgical treatment of mediastinal tumors

**Komarov R.N. (Russia)** Surgery of the mediastinal masses with invasion of the main vessels of the heart

**Sleptsov I.V. (Russia)** Thyroidectomy without tension in the treatment of mediastinal goiter

13:30 – 14:30 Lunch / Exhibition

14:30 – 16:30 **Symposium**  
**Surgical Treatment of Pulmonary Tuberculosis: Update**

*Moderators: Yablonsky P.K., Subotic D.*

**Symposium overview:** Migrant issue and MDR TB epidemic renew discussion of the increased role of surgery in the complex treatment of pulmonary TB

**Panteleev A.M. (Russia)** Therapist's view of the surgical treatment of pulmonary tuberculosis

**Yablonsky P.K. (Russia)** What to change in current guidelines on pulmonary TB surgery

**Kudryashov G.G. (Russia)** Prospects for resection surgery in the complex treatment of pulmonary tuberculosis

**Giller D.B. (Russia)** Pneumonectomy for tuberculosis - technical features

**Avetisyan A.O. (Russia)** Is there a place for the surgical method in bilateral pulmonary tuberculosis?

**Sinit syn M.V., Tokaev T.K., Bikbaev A.S. (Russia)** Prospects for the development of the extrapleural filling technique

**Subotic D. (Serbia)** Specificities and evidence gaps in preoperative lung function assessment before anatomical lung resections

**Denisova N.V., Kokorina E.V., Kiryukhina L.D. (Russia)** State of pulmonary gas exchange and external respiration function in patients with pulmonary tuberculosis after surgical treatment

16:30 – 17:00 Break



17:00 – 19:00

### Symposium

#### Surgical Treatment of Complicated and Combined Forms of Pulmonary Tuberculosis

*Moderatorss: Elkin A.V., Sinitsyn M.V.*

**Overview:** The problem of comorbidities and combined pathology in patients with pulmonary tuberculosis is gaining more relevance every year, which does not leave aside the role of surgical methods in the complex treatment of this diverse group of patients.

**Mariani A.W. (Brasil)** Surgical treatment of combined tuberculosis and pulmonary aspergillosis

**Krasnov D.V. (Russia)** Modern possibilities of valvular bronchoblocking in the treatment of patients with destructive pulmonary tuberculosis

**Avetisyan A.O. (Russia)** Surgical tactics for tuberculous empyema of the pleural cavity

**Sinitsyn M.V., Nekrasov E.V. (Russia)** Results of surgical treatment of lung cancer in an antituberculous institution

**Gazdanov T.A., Sinitsyn M.V., Kaminsky G.D., Peregudova A.B. (Russia)** Surgical methods in the diagnosis and treatment of tuberculosis in patients with HIV infection

**Elkin A.V., Basek T.S., Boyarkin G.M., Trunina T.V. (Russia)** Thoracomioplasty in the treatment of complications after lung surgery

19:00 Departure of buses (St. Petersburgskoje highway, 130, K7)

20:00 – 23:45 **GALA RECEPTION IN PETERHOF SUMMER PALACE**



**Hall 7**  
Red 11



Sessions are accompanied by simultaneous translation  
Live stream of session

09:00 – 11:00

**Symposium**

**Surgery of Chest Wall Defects and Deformities. Part 1**

*Moderators: Mushkin A.Y., Komolkin I.A.*

**Overview:** The session is devoted to the issues of surgery for defects and deformities of the chest wall using current technologies and modern approaches, as well as to congenital and iatrogenic deformities of the chest.

**Ryabykh S.O. (Russia)** Application of VEPTR (Vertical Expandable Prosthetic Titanium Rib) instrumentation in surgery of malformations of the chest and spine

**Afanasyev A.P. (Russia)** Chest deformities in children with systemic hereditary diseases. Principles of surgical treatment

**Gubina E.V. (Russia)** Iatrogenic deformities of the chest in the practice of a pediatric orthopedist

**Ilyina N.A. (Russia)** Congenital malformations of the lungs, view of a radiologist

**Mushkin A.Yu. (Russia)** Application of EOS principles in surgery of combined malformations of the sterno-rib-vertebral complex

**Pershin A.A. (Russia)** Chest wall deformity correction in cases of scoliosis surgery  
Coffee break

11:00 – 11:30

**Symposium**

**Surgery of Chest Wall Defects and Deformities. Part 2**

*Moderators: Mushkin A.Y., Komolkin I.A.*

**Overview:** The session is devoted to the issues of surgery for defects and deformities of the chest wall using current technologies and modern approaches, as well as to congenital and iatrogenic deformities of the chest.

**Ade W. (Japan)** History of the Treatment of Chest Wall Deformities with Special Attention to the Sternal Turnover Procedure

**Komolkin I.A. (Russia)** Tactics of surgical treatment for congenital malformations of the sterno-rib-vertebral complex

**Agranovich O.E. (Russia)** Microsurgical autotransplantation of muscle flaps during correction of chest deformity in patients with Poland syndrome.

**Mariani A.W. (Brasil)** Robotic Surgery for Thoracic Outlet Syndrome

11:30 – 13:30



**Milanese de Campos J.R. (Brasil)** Special cases of pectus excavatum

13:30 – 14:30 Lunch / Exhibition

14:30 – 16:30 **RP Canon Medical Systems Satellite Symposium**  
**Challenges in Cardiothoracic Imaging and Surgery and Their Solutions**

*Moderator: Polikarpov A.A.*

**Polikarpov A.A. (Russia)** Welcome address

**Kabin Yu.V. (Russia)** Ultrasound navigation in transthoracic biopsy of lung cancer

**Granovsky A.P. (Russia)** Modern trends in interventional pulmonology

**Akhmerov E.S. (Russia)** Modern technologies from Canon in interventional pulmonology

**Muslimov R.Sh. (Russia)** Diagnostic mistakes and ways to streamline computer tomography for patients with acute aortic syndrome

16:30 – 17:00 Break

17:00 – 19:00 **Symposium**  
**Surgery for pulmonary emphysema**

*Moderators: Stephen Clark, Tarabrin E.A.*

**Overview:** The patient's journey from lung volume reduction to transplantation: therapist and surgeon's view on the current problem of pulmonology and thoracic surgery.

**Clark S. (UK)** Lung transplantation for emphysema

**Gorbunkov S.D. (Russia)** LVRS for emphysema

**Tarabrin E.A. (Russia)** Lung transplantation for emphysema

**Speaker tbc.** Selection of patients for lung transplantation

**Atyukov M.A. (Russia)** Pneumothorax on the background of COPD and emphysema of the lungs

19:00 Departure of buses (St. Petersburgskoje highway, 130, K7)

20:00 – 23:45 **GALA RECEPTION IN PETERHOF SUMMER PALACE**



**Hall 1**  
Blue 4+5



Sessions are accompanied by simultaneous translation  
Live stream of session

09:00 – 11:00

**Symposium**

**Best Abstracts in Thoracic Surgery**

*Moderators: Pishik V.G., Pushkin S.Yu.*

**Overview:** A pre-moderated session of the best abstracts on thoracic surgery.

**Qsous G., Downes A., Carroll B., Rowe S., Manoj S., Tolan M., Healy D.G. (UK)** Differences in postoperative pain between video-assisted and robotic approaches in thoracic surgery

**Kshivets O. (Russia)** Survival of patients with lung cancer after lobectomy in comparison with patients with lung cancer after pneumonectomy

**Razumovsky A., Mitupov Z., Chumakova G., Shominova A. (Russia)** Results of pectus excavatum correction by the modified Nuss technique

**Podobed A. (Republic of Belarus)** Results of minimally invasive operations in the treatment of neurogenic cervicomedial tumors

**Shestakov A.L., Tskhovrebov A.T., Gorshunova A.P., Tarasova I.A., Bitarov T.T., Boeva I.A., Shakhbanov M.E. (Russia)** Minimally invasive esophagectomy for benign diseases of the esophagus.

**Zemtsova I.Yu., Petrov A.S., Atukov M.A., Zhemchugova-Zelenova O.A., Raskin G.A., Yablonsky P.K. (Russia)** Prognostic role of PD-L1, ALDH1, CD8 and CD44 in surgically treated patients with stage I non-small cell lung cancer.

**Ryabov A., Pikin O., Glushko V., Kolbanov K., Bagrov V., Aleksandrov O., Barmin V., Martynova D., Vorobieva U. (Russia)** Surgical treatment of lung cancer in patients older than 75 years

**Grigorchuk A.Yu., Bazarov D.V., Boranov E.V. (Russia)** The first experience of thoracoscopic single-port bronchial reconstructions using an autopericardial flap

**Nagaev A.S., Lozhkina N.V., Novikov V.N., Kholodar A.A., Gainsky A.Yu. (Russia)** Complications of staged treatment of cicatricial stenosis of the trachea

**Drobayazgin E.A., Chikinev Yu.V. (Russia)** Endoscopic interventions in patients with bronchial tumors

**Ryabov A., Pikin O., Glushko V., Kolbanov K., Kolobaev I., Bagrov V., Rudakov R., Barmin V., Aleksandrov O., Smolenov E., Martynova D., Salimov Z. (Russia)** 20-years' experience in the treatment of patients with solitary fibrous tumor of the pleura

**Abu Arkub T.I. (Russia)** Role of Surgery in the Diagnosis of Rare Diseases



11:00 – 11:30 Coffee break

11:30 – 13:30 **Symposium**  
**Innovative Operations on the Trachea and Larynx**

*Moderators: Porkhanov V.A., Parshin V.D., Razumovsky A.Yu.*

**Overview:** Treatment of tracheal diseases is gaining relevance in modern epidemiological conditions. Within the framework of one symposium, the organizers tried to fit the top technologies in this area and discuss a modern treatment strategy for this non-trivial group of patients.

**Razumovsky A.Yu. (Russia)** Thoracoscopic tracheal resection with anastomosis in a child in ECMO conditions

**Reshetov A.V. (Russia)** Surgery of recurrent laryngeal cancer

**Pryanikov P. (Russia)** Operations for paralytic laryngeal stenosis

**Bibas B. (Brasil)** Alternative options for tracheal stenosis

**Pischik V.G. (Russia)** Laringotracheal resections for secondary tumor stenosis

**Romanchishen A.F. (Russia)** Intraluminal surgery for tumor and cicatrical stenosis

**Gerasin A.V. (Russia)** Endoscopic treatment of benign tracheal stenosis

**Rusakov, Pikin O.V. (Russia)** The role of endoscopic intraluminal operations in recurrent tracheal stenosis in oncological and non-oncological practice

13:30 – 14:30 Lunch / Exhibition

14:30 – 16:30 **Symposium**  
**Prolonged prolonged air-leak after Pulmonary Resections**

*Moderators: Pischik V.G., Luka Bertolaccini*

**Overview:** The symposium was prepared in order to highlight unresolved issues of prevention and treatment of prolonged prolonged air-leak/ leak after lung resections.

**Maslak O.S., Pishik V.G. (Russia)** Results of a randomized study of risk factors for prolonged air bleed after thoracoscopic lobectomies

**Alan Sihoe (People's Republic of China)** Selecting the chest tube regimen after surgery

**Luca Bertolaccini (Italy)** European consensus on prolonged air leak after lung resections



**Alexandrov O.A., Ryabov A.B., Pikin O.V. (Russia)** Prolonged air leak after thoracoscopic anatomical pulmonary resections: single center experience, Herzen Research Oncology Institute, Moscow

**Scriabin S.A. (Russia)** The use of latex tissue glue for sealing lung tissue during resection (10 years' experience)

**Drobiazgin E.A., Chikinev Yu.V. (Russia)** Endoscopic methods of air bleed treatment

16:30-17:00

**CLOSING OF WSCTS2022 CONGRESS**

**Summing Up, Introduction of the Next WSCTS 2023 Congress**

**Yablonsky P.K. (Russia)** Summary of the 30th Congress of the World Society of Cardio-Vascular and Thoracic Surgeons

**Almeida R. (Brasil)** 31-th Annual Meeting WSCTS



**Hall 2**  
Green 5+6+7



Sessions are accompanied by simultaneous translation  
Live stream of session

09:00 – 11:00

**Symposium**

**Minimally invasive and hybrid cardiac surgery. Part 1**

*Moderators: Shrestha M., Popov V.A.*

**Overview:** The session focuses on new and rapidly developing minimally invasive and catheter methods for repair and replacement of heart valves, treatment of atrial fibrillation and bypass surgery.

**Reichenspurner H. (Germany)** Minimally invasive subannular repair for functional mitral regurgitation

**Tungusov D.S. (Russia)** Application of 3D Imaging for minimally invasive mitral surgery valves

**Imaev T.E. (Russia)** Transcatheter mitral valve replacement

**Taramaso M. (Switzerland)** Transcatheter mitral valve implantation

**Makeev S.A., Chernov I.I. (Russia)** Minimally invasive approach for multi-valve prosthetics

**Malysenko E.S. (Russia)** Thoracoscopic treatment of atrial fibrillation

**Danilov N.M. (Russia)** Balloon angioplasty in the complex treatment of inoperable CTEPH

11:00 – 11:30 Coffee break

11:30 – 13:30

**Symposium**

**Minimally invasive and hybrid cardiac surgery. Part 1**

*Moderators: Bogachev-Prokofiev A.V., Zamvar V.*

**Overview:** The session focuses on new and rapidly developing minimally invasive and catheter methods for repair and replacement of heart valves, treatment of atrial fibrillation and bypass surgery.

**Shneider Yu.A., Tsoi M.D., Fomenko M.S., Pavlov A.A., Shilenko P.A. (Russia)** Surgical treatment of isolated aortic stenosis: where are we going?

**Zamvar V. (UK)** TAVI vs Surgical AVR

**Karadzha A.V. (India)** Reconstruction of the aortic root from a right minithoracotomy

**Glauber M. (Italy)** Right anterior thoracotomy approach for aortic valve replacement

**Bogachev-Prokofiev A.V. (Russia)** Minimally invasive approach for surgery of atrioventricular valves



**Popov V.A. (Russia)** Minimally invasive coronary bypass technologies

**Zhiltsov D.D. (Russia)** Comparison of MIDCAB and PCI in anterior descending artery stenosis

13:30 – 14:30 Lunch / Exhibition

14:30 – 16:30 **Symposium**  
**Vascular surgery**

*Moderators: Sokurenko G.Yu., Soroka V.V., Gavrilenko A.V.*

**Overview: Topical issues of vascular surgery**

**Zainulabidov R.A. (Russia)** Surgical treatment of compression stenosis of the celiac trunk in children.

**Gavrilenko A.V., Vahpatian P.E., Magomedova G.F., Ananjeva M.V., Abdulkadirov M.A. (Russia)** Is it necessary to ablate accessory saphenous veins too?

**Osipova O.S. (Russia)** Multilevel endovascular interventions vs hybrid procedure for treatment of iliac and superficial femoral artery steno-occlusive disease

**Andreychuk K.A. (Russia)** Management of the penetrating aortic ulcer of the abdominal aorta

**Saaya Sh. (Russia)** Results of endovascular revascularization of combined lesions of bifurcation of the aortic and common iliac arteries

**Sharifullin R.M. (Russia)** Aortic allograft - the optimal choice for prosthetic aortic root endocarditis

**Komarov R.N., Chernov I.I., Ismailbaev A.M., Chernyavsky S.V., Dzunja A.N., Enginoviev S.T. (Russia)** Surgery of the aortic root using autologous materials and valve-sparing techniques

**Marchenko A.V. (Russia)** Hybrid surgery of the aortic arch

**Kim G., Piagay V., Stolyarov M., Shmatov D. (Russia)** «Second opinion» expert system. Neural net and treatment tactics of thoracic aorta pathology

**Yudaev S.S., Batrashov V.A., Khamroev S.Sh., Vetshev P.S. (Russia)** Safe carotid endarterectomy from the perspective of a vascular surgeon

16:30-17:00 **Change to Hall 1 / Blue 4+5 to the Closing of the Congress WSCTS2022**



**Hall 3**  
Green 8

Sessions are not accompanied by simultaneous translation

09:00 – 11:00

**Symposium**

**Thoracic Trauma. Part 1**

*Moderators: Zhestkov K.G., Benyan A.S., Danielyan Sh.N.*

**Overview:** Challenges of organizing and providing medical care to patients with thoracic trauma.

**Pushkin S.Yu., Kameev I.R., Belokonev V.I., Aksenova E.V., Airapetova M.P. (Russia)** The effect of chest injuries on the course of traumatic disease in patients with polytrauma.

**Danielyan Sh.N., Tarabrin E.A., Kotanjyan V.G., Khachatryan S.A. (Russia)** Modern tactics of managing mechanical damage to the trachea and bronchi

**Kotanjyan V.G., Tarabrin E.A., Danielyan Sh.N., Ibavov I.U. (Russia)** Early video thoracoscopy as a factor of improving the results of treatment of closed chest injury.

**Korymasov E.A., Benyan A.S., Medvedchikov-Ardia M.A. (Russia)** Thoracoscopy in closed and open chest injury: where is the boundary between the possible and the impossible?

**Plaksin S.A., Kotelnikova L.P. (Russia)** Controversial issues of surgical tactics in hemothorax due to closed chest injury

**Plechev V.V., Fatikhov R.G., Avzaletdinov A.M., Ionis E.Yu., Vildanov T.D., Gibadullin I.A., Kabirov T.Z. (Russia)** Surgical rehabilitation in chest injuries.

**Benyan A.S. (Russia)** Stabilization of the thoracic cage in closed chest trauma: whom, when and why?

**Porkhanov V.A., Bogdanov S.B., Polyakov I.S., Kovalenko A.L., Zyablova E.I., Barbukhati K.O., Basankin I.V., Straub V.V. (Russia)** Assistance to patients with chest injuries of various etiologies

11:00 – 11:30 Coffee break

11:30 – 13:30

**Symposium**

**Thoracic Trauma. Part 2**

*Moderators: Porkhanov V.A., Bryusov P.G., Kotiv B.N., Torba A.V., Chuprina A.P.*

**Overview:** Challenges of organizing and providing medical care to patients with thoracic trauma.

**Bryusov P.G. (Russia)** Problems of treating gunshot penetrating wounds of the chest in the context of modern types



of weapons

**Chuprina A.P., Trishkin D.V. (Russia)** Surgery of gunshot penetrating wounds of the chest: history and nowadays

**Kotiv B.N., Kryukov E.V., Samokhvalov I.M., Dzidzava I.I., Barinov O.V., Fufaev E.E., Yasyuchenya D.A. (Russia)**  
Organization of specialized surgical care for patients with chest wounds in conditions of strategic evacuation

**Shatalov A.D., Stupachenko O.N., Wegner D.V., Sidorenko Yu.A., Filakhtov D.P. (Russia)** Therapeutic and diagnostic tactics for mine-explosive and bullet wounds of the chest

**Markevich V.Yu., Kryukov E.V., Sa-mokhvalov I.M., Badalov V.I., Petrov A.N., Kaznacheev M.V., Petukhov K.V. (Russia)**  
High-tech specialized assistance to the wounded with gunshot penetrating chest wounds in the military medical organization of the Center (5th level)

**Torba A.V., Pyzin A.K., Tadevosyan A.A., Pyzin A.K., Daineko A.V. (Russia)** Diagnostics and treatment nuances of mine-explosive thoracoabdominal wounds

13:30 – 14:30 Lunch / Exhibition

14:30 – 16:30 **Symposium**  
**Thoracic Trauma. Part 3**

*Moderators: Markevich V.Yu., Perekhodov S.N., Stupachenko D.O., Samokhvalov I.M., Dzidzava I.I.*

**Overview:** Challenges of organizing and providing medical care to patients with thoracic trauma.

**Torba A.V., Pyzin A.K., Valuisky V.V., Filatov D.A., Evus M.V. (Russia)** Treating mine-blast injury of the mediastinum.

**Goncharov A.V., Kasimov R.R., Pichugin A.A., Kuraev P.I., Belyaev A.A., Markevich V.V., Suvorov V.V. (Russia)**  
Problems of providing specialized surgical care for combat penetrating chest wounds in civilian trauma centers used as multidisciplinary military hospitals (3rd level)

**Stupachenko D.O., Stupachenko O.N., Ve-gner D.V., Makarov V.Yu., Filakhtov D.P. (Russia)** The use of video thoracoscopy in mine-blast and bullet wounds of the chest

**Vasyukevich A.G., Fokin A.V. (Russia)** Surgical care of blind gunshot penetrating wounds of the chest

**Zalyubovskaya L.V., Plakhotnikov I.A., Moshkin S.V., Kuznetsov A.S. (Russia)** First experience of removing foreign bodies in conditions of artificial blood circulation

**Reva V.A., Pochtarnik A.A., Potemkin V.D., Shchegolev A.V., Samokhvalov I.M. (Russia)** Traumatic cardiac arrest in the wounded. Modern resuscitation protocol and promising opportunities

16:30 – 17:00 **Change to Hall 1 / Blue 4+5 to the Closing of the Congress WSCTS2022**



**Hall 4**  
Green 9



Sessions are accompanied by simultaneous translation  
Live stream of session

09:00 – 11:00

**Symposium**

**«Nightmares» in Cardiothoracic Surgery.**

**Part 1**

*Moderators: Yablonsky P.K., Alan Sihoe*

**Overview:** One of the most popular sessions at each cardiothoracic Congress, no extra promotion needed.

**Petrov A.S., Zhukovsky D.O., Atyukov M.A., Stepanenko T.A., Petrova M.S., Zemtsova I.Yu., Mazurov V.A., Yablonsky P.K. (Russia)** A rare, unusual cause of recurrent life-threatening pulmonary hemorrhage in a young patient

**Alexandrov O.A., Pikin O.V., Glushko A.A. (Russia)** A rare lethal complication of sternotomy for thymic cancer

**Khanoyan A.S. (Armenia)** Multidisciplinary work of a thoracic and cardiac surgeon when treating giant mediastinal malignancies

**Serezvin I.S., Avetisyan A.O., Zverev O.G., Kudryashov G.G., Chausov A.V., Shepichev E.V., Tabanakova I.A., Yablonsky P.K. (Russia)** «Nightmare» of a TB surgeon: what to expect from a thoracic aortic aneurysm?

**Bazarov D.V. (Russia)** Bleeding from brachiocephalic trunk during tracheal reconstruction: is there a chance for the patient?

11:00 – 11:30 Coffee break

11:30 – 13:30

**Symposium**

**«Nightmares» in Cardiothoracic Surgery.**

**Part 2**

*Moderators: Yablonsky P.K., Alan Sihoe*

**Overview:** One of the most popular sessions at each cardiothoracic Congress, no extra promotion needed.

**Polyakov I.S., Kovalenko A.L., Porkhanov V.A. (Russia)** Gangrene of the left lung, LGB self-amputation... What next?

**Yablonsky P.K., Avetisyan A.O., Chausov A.V., Kudryashov G.G., Serezvin I.S. et al. (Russia)** Out-of-the-box approach to surgical treatment of a patient with a combination of locally advanced lung cancer and respiratory tuberculosis

**Porkhanov V.A., Rosseikin E.V., Kovalenko A.L., Kobzev E.E., Gornostaev A.A. (Russia)** Treatment of a patient with



suppuration of the descending aortic prosthesis, aortopulmonary fistula, hemoptysis, intrapulmonary hematoma of the left lung and a history of three rethoracotomies.

**Maxim I.I. (Moldova)** Recurrent echinococcosis... What to do?!

**Nokhrin A. V. Topuzov E. E. Anosov N. A. Gavrilov P. S. Khasanova E. R. (Russia)** Clinical case of long-term survival of a patient after aggressive surgical tactics for recurrent intra-thoracic neurogenic sarcoma

**Gavrilenko A.V., Al-Yusef H.H. Bulatova L.R. (Russia)** Profundoplasty is the last chance to save the lower limb

13:30 – 14:30 Lunch / Exhibition

14:30 – 16:30 **Symposium**  
**Rare Clinical Cases in Thoracic Surgery**  
*Moderators: Yablonsky P.K., Pikin O.V.*

**Overview:** Rare clinical cases requiring out-of-the-box solutions and a multidisciplinary approach.

**Alexandrov O.A., Pikin O.V., Rerberg A.G. (Russia)** A rare complication of endovascular procedure

**Nikulin A.V. (Russia)** The first experience in the Russian Federation of VATS hernioplasty for intercostal pulmonary hernia

**Khanoyan A.S. (Armenia)** Multidisciplinary work of a thoracic and cardiac surgeon in the treatment of giant mediastinal masses

**Serezvin I. S., Avetisyan A. O., Kudryashov G. G., Skorokhod A. A., Chausov A.V., Davydenkova E. A., Yablonsky P. K. (Russia)** Staged approach to surgical treatment of patients with destructive pulmonary tuberculosis complicated by chronic pleural empyema

**Kononets P.V., Charchyan E.R., Tararykova A.A., Valiev R.K. (Russia)** Surgical treatment of a patient for solitary metastasis of osteogenic sarcoma in the heart.

**Komolkin I.A. (Russia)** Experience of using 3 D prototyping technology in a patient with exostatic chondrodysplasia (Ollier's disease) in order to restore the skeletal function of the sternocostal complex

**Ursov M.A., Parshin V.D., Parshin A.V., Parshin V.V. (Russia)** A clinical case of a giant solitary fibrous tumor complicated by consumption hypoglycemia syndrome

16:30 – 17:00 **Change to Hall 1 / Blue 4+5 to the Closing of the Congress WSCTS2022**



**Hall 5**  
Red 8+9

Sessions are not accompanied by simultaneous translation

09:00 – 11:00

**Training Room**  
**Master-Class**  
**Practicing Minimally Invasive Surgery Skills**

11:00 – 11:30

Coffee break

11:30 – 13:30

**Training Room**  
**Master-Class**  
**Practicing Minimally Invasive Surgery Skills**

13:30 – 14:30

Lunch / Exhibition

14:30 – 16:30

**Training Room**  
**Master-Class**  
**Practicing Minimally Invasive Surgery Skills**

16:30 – 17:00

**Change to Hall 1 / Blue 4+5 to the Closing of the Congress WSCTS2022**



**Hall 6**  
Red 10



Sessions are accompanied by simultaneous translation  
Live stream of session

09:00 – 11:00

**Symposium**

**Repeated Thoracic Surgery**

*Moderators: Porkhanov V.A., Giller D.B.*

**Overview:** Don't Do operations for "school graduates": tips, tricks and pitfalls.

**Porkhanov V.A. (Russia)** Repeated operations in lung cancer

**Avetisyan A.O. (Russia)** Repeated lung resections for tuberculosis

**Giller D.B. (Russia)** Final pneumonectomies

**Pischik V.G. (Russia)** Repeated thoracoscopic pulmonary resections

**Martynova D.E., Pikin O.V. (Russia)** Re-thymectomy in patients with myasthenia gravis and thymic tumors

**Parshin V.D. (Russia)** Repeated operations for the relapse of cicatricial tracheal stenosis

11:00 – 11:30 Coffee break

11:30 – 13:30

**Symposium**

**Miscellaneous Non-Oncology Thoracic Surgery**

*Moderators: Avzaletdinov A.M., Korymasov E.A.*

**Overview:** Original ideas for the diagnostics and treatment of benign thoracic diseases.

**Polyakov I.S., Kovalenko A.L., Gilevich I., Porkhanov V.A. (Russia)** Cellular surgery for a bronchial fistula... will a monkey help a man?

**Lishenko V.V., Zolotarev D.V., Gladyshev D.V., Vasilashko V.I. (Russia)** Experimental replacement of a circular defect of the trachea with a segment of the intestine

**Pismennii A.K., Korymasov E.A. (Russia)** Evolution of surgical differential diagnostics of interstitial lung diseases

**Avzaletdinov A.M. (Russia)** Comparative assessment of the diagnosis of pulmonary fibrosis using: CT-controlled TTP, TTP with Artik Hen robotic installation and VATS biopsy

**Shcherbina K.I., Drobyazgin E.A., Chikinev Yu.V. (Russia)** Method for closing extensive chest defects with prolene mesh in patients with intercostal pulmonary hernias



**Atyukov M.A., Martynikhina M.S. (Russia)** Diagnostics and treatment of decompensated tracheal and main bronchial stenosis due to Hunter syndrome

**Akopov A.L. (Russia)** Intraoperative fluorescent imaging in thoracic surgery

**Molodtsova V.P., Ilyin A.A. (Russia)** Tracheobronchial amyloidosis

13:30 – 14:30 Lunch / Exhibition

14:30 – 16:30 **Symposium**

**Robot-Assisted Thoracic Surgery in Russia**

*Moderators: Yablonsky P.K., Vetshev P.S.*

**Overview:** Implementation of the program of robot-assisted operations in thoracic surgery in Russia – the experience of leading centers.

**Danilov V.V. (Russia)** Robot-assisted surgery for lung cancer

**Yablonsky P.K., Kudryashov G.G. (Russia)** Application of a robotic surgical system in TB surgery

**Vetshev F.P. (Russia)** Robot-assisted esophageal surgery: pro et contra

**Avzaletdinov A.M. (Russia)** Robot-assisted interventions for mediastinal formations

16:30 – 17:00 **Change to Hall 1 / Blue 4+5 to the Closing of the Congress WSCTS2022**



**Hall 7**  
Red 11



Sessions are accompanied by simultaneous translation  
Live stream of session

09:00 – 11:00

**Symposium**

**Best Abstracts in Cardiovascular Surgery**

*Moderators: Shneider Yu.A., Shmatov D.V.*

**Overview:** A pre-moderated session of the best abstracts in cardiovascular surgery.

**Chellasami R.T. (India)** Thrombosis of valve prostheses: a retrospective analysis

**Khafizov T. (Russia)** Fenestrated TEVAR in acute aortic syndrome

**Marchenko A.V. (Russia)** Hybrid stent graft in aortic surgery

**Nuzhdin M. (Russia)** Prosthetics of the tricuspid valve with a mitral homograft. Experience of two centers

**Bazylev V.V. (Russia)** Five-year results of using a transcatheter valve with PTFE leaflets

**Ermolaev P.A. (Russia)** New extracorporeal perfusion system for cardiac transplant preservation

**Shneider Yu.A. (Russia)** Bimammary coronary artery bypass grafting in women: a retrospective analysis

**Sorkomov M.N. (Russia)** Medium-term results of cardiac surgery after radiation therapy

**Balan S.S., Eves P., Fransis J. Zamvar V. (UK)** Long-term outcomes of aortic valve replacement with bioprosthetic and mechanical valves

**Balan S.S., Eves P., Fransis J. Zamvar V. (UK)** 5 Year-follow-up of outcomes in patients undergoing elective isolated Mitral Valve Surgery in Edinburgh between 2011-2020

11:00 – 11:30 Coffee break

11:30 – 13:30

**Symposium**

**Modern Strategy for Treatment of Patients with Esophageal Tumors**

*Moderators: Levchenko E.V., Khaitan P., Aydemirov A.N.*

**Overview:** Options for intraluminal and traditional surgical methods for the treatment of tumors of the esophagus.

**Levchenko E.V. (Russia)** The role of minimally invasive approaches in the surgical treatment of esophageal cancer

**Kononets P.V., Abu-Haidar O.B., Tryakin A.A., Chernykh M.V. (Russia)** Immediate results of treatment of the thoracic esophageal cancer

**Ryabov A.B., Khomyakov V.M., Pikin O.V., Kamalov A.K. (Russia)** Strategy for treatment of patients with non-epithelial



tumors of the esophagus

**Smirnov A.A. (Russia)** Endoscopic intraluminal removal of esophageal leiomyomas

**Allahverdyan A.S., Anishchenko A.N., Anishchenko N.N. (Russia)** Comparative evaluation of immediate and long-term results of laparoscopic and traditional Lewis-type operations for esophageal cancer

**Aidemirov A.N., Bayramkulov M.D., Delibaltov K.I., Mnatsakanyan E.G., Roy S.V., Malanka M.I. (Russia)** Plastic Surgery of the Esophagus for Cicatricial Stenosis and tumor-induced stenosis, experience of Stavropol Regional Clinical Hospital

**Kshivets O. (Russia)** Cancer of the esophagus: accurate prediction

13:30 – 14:30 Lunch / Exhibition

14:30 – 16:30 **Symposium**

### **Surgery of Esophageal Lesions and Non-Tumor Esophageal Diseases**

*Moderators: Allahverdyan A.S., M.B. Burmistrov M.V., Chikinev Yu.V.*

**Overview:** review of leading technologies in the treatment of non-tumor diseases of the esophagus.

**Khaitan P. (USA)** Robotic Oesophageal Surgery for Benign Disease

**Danielyan Sh.N. (Russia)** Perforation of the esophagus: a modern view of a complex problem.

**Pushkin S.Yu., Belokonev V.I., Shcherbakov D.A., Solokha I.Yu., Volkov L.A. (Russia)** Justification and choice of treatment methods for esophageal damage

**Kononets P.V. (Russia)** Abdullaev A.G. Staged surgical treatment of a patient for esophageal fistula after right pneumonectomy

**Aidemirov A.N., Bayramkulov M.D., Mnatsakanyan E.G., Delibaltov K.I., Mashurova E.V. (Russia)** Immediate and Long-Term Results of Surgical Treatment of Cardiospasm

**Allahverdyan A.S., Anipchenko A.N., Anipchenko N.N. (Russia)** Comparative evaluation of laparo-thoracoscopic esophagectomy with intrapleural esophagogastroplasty and laparoscopic transhiatal resection of the distal esophagus at the terminal stage of achalasia.

**Teplov V.O., Stepanenko N.S., Razumovsky A.Yu. (Russia)** Surgical treatment of burns of the esophagus from batteries in children

**Razumovsky A.Yu., Stepanenko N.S., Kislenko A.A. (Russia)** Treatment of congenital stenosis of the esophagus

16:30 – 17:00 **Change to Hall 1 / Blue 4+5 to the Closing of the Congress WSCTS2022**