12th Moscow International Course on Hybrid Surgery (MICHS-2021)
SCIENTIFIC PROGRAM

10:00 – 11:30 **"Endovascular treatment of lower limb arterial lesions", Part 1**
Presidium: Academician of the Russian Academy of Sciences (Acad.) R.S. Akchurin, Acad. A.V. Gavrilenko, Acad. A.V. Pokrovsky, Prof. A.M. Babunashvili

10:00 - 10:10 Welcoming remarks
A.V. Pokrovsky (Moscow)

10:10 - 10:25 Up-to-date opportunities of vascular surgery in treatment of critical limb ischemia
A.V. Gavrilenko (Moscow)

10:25 - 10:35 Comparative assessment of femoropopliteal bypass patency in patients with preserved lumen and with prolonged stented iliac artery lesions (hybrid procedure)
A.A. Karpenko, O.S. Osipova (Novosibirsk)

10:35 - 10:45 Hybrid surgery for lower limb ischemia
A.M. Babunashvili, K.V. Bylov, I.S. Tishchenko (Moscow)

10:45 – 11:00 Life-in-a-box

11:00 – 11:10 Automatic carboxy-angiography in endovascular interventions in the aorto-iliac segment
V.V. Derkach, V.N. Shipovsky, I.M. Kalitko (Klin)

11:10 – 11:20 Comparative efficiency assessment of recanalization methods for prolonged superficial femoral artery lesions: looped endarterectomy and stenting (randomized study)
Sh.B. Saaya (Novosibirsk)

11:20 – 11:30 Comparative efficiency assessment of aorto-femoral bypass and iliac artery stenting in TASC C and D lesions.
P.V. Ignatenko (Novosibirsk)

11:30 – 11:40 Break

11:40 – 12:20 **RK GROUP satellite symposium "Innovations by Russian manufacturers – Put Niy stent"**
Moderator: A.M. Babunashvili

11:40 – 11:50 Introduction to the product
A.Z. Sharafeyev

11:50 – 12:00 First clinical cases of Put Niy stent application: complex PCI, left main stem stenting
A.Z. Sharafeyev

12:00 – 12:10 First clinical cases of Put Niy stent application: prolonged lesion, STEMI
I.Z. Borukayev

12:10 – 12:20 Original stent OCT results
A.V. Sozykin

12:20 – 12:30 Break

12:30 – 16:10 "Endovascular treatment of constrictive lower limb arterial lesions", Part 2
Moderators: Prof. Z.A. Kavteladze, Prof. A.A. Karpenko

12:30 – 12:40 "True" hybrid surgery of lower limb arterial lesions
Z.A. Kavteladze (Moscow)

12:40 – 12:50 Comparative analysis of open femoropopliteal stenting and endovascular stenting results in patients with prolonged femoropopliteal arterial lesions
A.A. Gostev (Novosibirsk)

12:50 – 13:00 Specifics of treating COVID-19-associated cases of critical lower limb ischemia
A.V. Zholkovsky (Rostov-on-Don)

13:00 – 13:10 Radial access in lower limb ischemia treatment: how, when and why?
K.V. Bylov, I.S. Tishchenko, A.M. Babunashvili (Moscow)

13:10 – 13:20 Hybrid revascularization of the aorto-femoral segment involving the femoral artery: a center's experience
N.N. Zherdev (St. Petersburg)

13:20 – 13:30 SKARESMA: our concept and philosophy of saving limbs from amputation
N.A. Naumov (Yaroslavl)

13:30 – 13:40 Optimizing approaches to reconstructive interventions for chronic limb-threatening ischemia with trophic lesions
P.S. Kuryanov (St. Petersburg)

13:40 – 13:50 Angiosurgery in the setting of the COVID-19 pandemic
D.A. Maitesyan (Moscow)

13:50 – 14:00 Interventions in lower limb arteries with a low contrast medium volume (supported by Philips)
A.G. Mizin, P.B. Kan (Khanty-Mansiysk)

14:00 – 14:10 Is a "hybrid" necessary for critical lower limb ischemia?
S.A. Papoyan (Moscow)

14:10 – 14:20 Primary retrograde distal access in lower limb endovascular revascularization
S.A. Platonov (St. Petersburg)

14:20 – 14:30 Endovascular arterialization of deep shin and foot veins where it is impossible to revascularize the distant flow in patients with critical lower limb ischemia
A.V. Yeroshenko (Moscow)

14:30 – 14:40 Endovascular recovery of arterial blood flow in case of critical lower limb ischemia in patients with Type 1 and 2 diabetes
I.S. Sitkin (Moscow)

14:40 – 14:50 Hybrid surgery in treatment of obliterating lower limb arterial atherosclerosis
M.B. Temrezov (Cherkessk)

14:50 – 15:00 A clinical case of hybrid revascularization in treatment of COVID-19-associated ischemic CVA
S.V. Shenderov (St. Petersburg)

15:00 – 15:10 Endovascular atherectomy in peripheral interventions: role of technology in treating pelvic limbs chronic ischemia
S.V. Volkov (Moscow)

15:10 – 15:20 Body of evidence on medicine-emitting stents application for peripheral artery lesions
M.A. Chernyavsky (St. Petersburg)

15:20 – 15:30 Drug-coated balloon catheters: latest safety data and prospects of application for pelvic limbs chronic ischemia
N.V. Zakaryan

15:30 – 15:40 Break

15:40 – 16:40 Abbott satellite symposium "Solutions for endovascular interventions in the femoral artery system"

15:40 – 15:45 Welcoming remarks
I.I. Sitkin

15:45 – 16:05 Use of the Supera stent in treating patients with critical lower limb ischemia and diabetes
I.I. Sitkin

16:05 – 16:30 Successful femoral access occlusion with Perclose Proglide
A.G. Koledinsky

16:30 – 16:40 Discussion: speakers and audience
I.I. Sitkin, A.G. Koledinsky

February 8, 2021

Conference opening

10:00 – 11:30 **Plenary session "Cardiovascular surgery in the COVID-19 era"**
Presidium: Acad. R.S. Akchurin, Acad. B.G. Alekyan, Acad. A.V. Pokrovsky, Acad. Yu.V. Belov, Acad. S.A. Boitsov, Acad. I.I. Zatevakhin

10:00 – 10:05 Welcoming remarks by Acad. A.V. Pokrovsky, Honorary President of the Russian Society of Angiologists and Vascular Surgeons

10:05 – 10:10 Welcoming remarks by the Conference Cochairman, Acad. R.S. Akchurin, Deputy CEO for Surgery, Federal State Budgetary Organization National Cardiology Research Center under the Russian Healthcare Ministry

10:10 – 10:30 Issues of endovascular and cardiosurgical aid in a multidisciplinary COVID hospital
N.L. Bayandin (Moscow)

10:30 – 10:50 Aortic aneurysm rupture – ways to overcome the problem
I.I. Zatevakhin (Moscow)

10:50 – 11:10 Transcatheter aortic valve implantation as a gold standard of aortic stenosis treatment
B.G. Alekyan (Moscow)

11:10 – 11:30 Aortic surgery in 21st century realities
Hazim J. Safi (USA)

11:30 – 11:40 Break

11:40 – 13:50 **Session "Mitral valve surgery in 21st century"**
Moderators: Acad. R.S. Akchurin, Acad. B.G. Alekyan

11:40 – 11:50 Patient selection and indications for transcatheter mitral valve replacement
Francesco Maisano (Switzerland)

11:50 – 12:00 Role of echocardiography in patient selection and treatment using edge-to-edge transcatheter mitral valve replacement method
M.A. Sayidova (Moscow)

12:00 – 12:10 Clinical anatomy of mitral and tricuspid valve for transcatheter intervention
Thilo Noack (Germany)

12:10 – 12:20 Transcatheter mitral valve replacement using the Mitraclip device: procedure step-by-step
Rodrigo Estevez Loureiro (Spain)

12:20 – 12:40 How hybrid visualization methods can help in structural heart diseases interventions?
I.V. Buzayev (Ufa) (supported by Philips)

12:40 – 13:00 Broadcast from operating theater (Mitraclip)

13:00 – 13:10 Outcomes of edge-to-edge transcatheter mitral valve repair
Sergey Leontyev (Germany)

13:10 – 13:20 First experience of transcatheter mitral valve replacement using the Mitraclip device
T.E. Imayev (Moscow)

13:20 – 13:30 Translation of surgical experience in treatment of various types of mitral regurgitation in the era of evolving transcatheter mitral valve surgery
David Holzhey (Germany)

13:30 – 13:40 Tailored approach to surgical treatment of ischemic and degenerative mitral regurgitation
Yu.A. Shneider (Kaliningrad)

13:40 – 13:50 Transcatheter LV remodeling with AccuCinch device in patients with dilated cardiomyopathy
O.L. Polonetsky (Belarus)

13:50 – 14:00 New generation devices for transcatheter treatment of atrioventricular valve insufficiency (MitraClip, G4, TriClip, Tendyne)
Fabien Praz (Switzerland)

14:00 – 14:10 Break

14:10 – 15:30 Session "Transcatheter aortal valve implantation – 19 years of method evolution"
Moderators: Doctor of Medical Sciences T.E. Imayev, Prof. J. Kovac

14:10 – 14:30 Transcatheter aortal valve implantation in the light of evidence-based medicine
Francesco Maisano (Switzerland)

14:30 – 14:40 Acurate Neo transcatheter valve: comparative analysis of the self-expanding bioprosthesis technology
Jan Kovac (UK)

14:40 – 14:50 New self-expanding prostheses for TAVI (Portico valve)
Johannes Blumenstein (Germany)

14:50 – 15:00 Mitral valve annuloplasty with Cardioband: is there evidence of its comparability with open-chest surgery?
Azeem Latib (USA)

15:00 – 15:10 Broadcast from operating theater (TAVI)

15:10 – 15:20 Novel implantation technique for TAVI procedures with self-expanding valves
Arik Finkelstein (Israel)

15:20 – 15:30 Glance at the promising trends in TAVI technology
Lars Sondergaard (Denmark)

15:30 – 15:40 Break

15:40 – 17:40 **Session "Transcatheter treatment of heart valve pathology in clinical practice"**
Moderators: Prof. V.V. Bazylev, PhD P.M. Lepilin

15:40 – 15:50 Experience in Acurate neo valve implantation without predilatation
A.V. Protopopov, K.V. Kochkina (Krasnoyarsk)

15:50 – 16:00 Transcatheter mitral and aortal valve reinterventions. Results of first cases
V.I. Ganyukov (Kemerovo)

16:00 – 16:10 Transcatheter aortal valve replacement with the Acurate neo system: some clinical data and own experience of the Federal Cardiovascular Surgery Center in Krasnoyarsk
D.P. Stolyarov (Krasnoyarsk)

16:10 – 16:20 Left ventricular remodeling after TAVI
O.V. Krestyaninov (Novosibirsk)

16:20 – 16:30 Modern view on the necessity of distal protection during TAVI
Z.A. Kavteladze (Moscow)

16:30 – 16:40 Experience in transcatheter implantation of pulmonary artery valve
P.F. Chernoglaz (Belarus)

16:40 – 16:50 TAVI: salvage strategies in complex cases
D.D. Zubarev (St. Petersburg)

16:50 – 17:00 Long-term results of TAVI with PTFE cusps and surgical bioprosthetic aortic valves
V.V. Bazylev (Penza)

17:00 – 17:10 Acurate neo valve: procedural tips and tricks
A.N. Fedorchenko (Krasnodar)

17:10 – 17:20 TAVI in extremely high-risk patients supported with periprocedural venoarterial extracorporeal membrane oxygenation
R.A. Yakubov, U.U. Akhmedov (Naberezhnye Chelny)

17:20 – 17:40 Value of modern visualization methods based on CT/ultrasound/angiography data integration for TAVI planning (supported by Philips)
T.E. Imayev (Moscow)

17:40 – 19:00 **Session "Hybrid and multidisciplinary approach to treat "complex" forms of atrial fibrillation"**
Moderators: Doctor of Medical Sciences O.V. Sapelnikov, Doctor of Medical Sciences T.M. Uskach

17:40 –17:50 Optimal strategy for persistent atrial fibrillation: thoracoscopic or catheter approach?
E.A. Artyukhina

17:50 –18:00 Hybrid approach to atrial fibrillation treatment: latest data and long-term results
O.V. Sapelnikov

18:00 – 18:10 Minimally invasive approach to atrial fibrillation and mitral pathology treatment
O.Yu. Pidanov

18:10 – 18:20 Minimally invasive epicardial ablation of atrial fibrillation: techniques and results
A.S. Zhigalkovich

18:20 – 18:30 Chronic heart failure and atrial fibrillation: what shall we do?
D.F. Ardus

18:30 – 18:40 Cardiac contractility modulation therapy in patients with atrial fibrillation and chronic heart failure
T.M. Uskach, A.A. Safiullina

18:40 – 19:00 Discussion and Q&A session

February 9, 2021

10:00 – 11:30 **Session "Hybrid surgery on ascending aorta"**
Moderators: Acad. R.S. Akchurin, Acad. Yu.V. Belov

10:00 – 10:20 Ascending aorta and aortic arch diseases: evolution of surgical approaches and treatment strategies
Yu.V. Belov (Moscow)

10:20 – 10:40 Modern view on treatment of ascending thoracic aorta pathology
A.M. Chernyavsky (Novosibirsk)

10:40 – 10:50 Endovascular repair of ascending aorta: myth or reality?
T.E. Imayev (Moscow)

10:50 – 11:00 Outcomes of surgical treatment of acute and chronic type 1 aortic dissection
V.V. Bazylev (Penza)

11:00 – 11:10 Long-term results in patients operated on from minimally invasive approach to the aortic root
A.V. Yanushko (Belarus)

11:10 – 11:30 Broadcast from operating theater

11:30 – 11:40 Break

11:40 – 13:10 **Session "Surgical treatment of aortic arch disease"**
Moderators: Academician of the National Academy of Sciences Yu.P. Ostrovsky, Candidate of Medical Sciences P.M. Lepilin

11:40 – 12:00 Controversials and gaps of aortic arch surgery
Yu.P. Ostrovsky (Belarus)

12:00 – 12:20 Endovascular and hybrid treatment of aortic arch aneurysms and dissections
Chang Shu (China)

12:20 – 12:30 Frozen elephant trunk elongation – early prevention of negative thoracic aorta remodeling
B.N. Kozlov, D.S. Panfilov (Tomsk)

12:30 – 12:40 First long-term results of f-TEVAR surgeries with in situ and on table fenestrations
M.R. Sharafutdinov (Naberezhnye Chelny)

12:40 – 12:50 Endovascular aortic arch and descending aorta replacement: options for flow preservation in brachiocephalic arteries
T.N. Khafizov (Ufa)

12:50 – 13:00 Our experience of aortic arch endodebranching using different options
D.V. Salichkin (Moscow)

13:00 – 13:10 Hybrid and endovascular aortic arch surgery
M.A. Chernyavsky (St. Petersburg)

13:10 – 13:20 Break

13:20 – 15:20 Session "Thoracoabdominal aortic aneurysm treatment"
Moderators: RAS Corresponding Member E.R. Charchyan, Prof. A.S. Abugov

13:20 – 13:40 Thoracoabdominal aortic aneurysm treatment
E.R. Charchyan (Moscow)

13:40 – 14:00 Impact of collateral spinal cord vascularization on spinal neurological complications of thoracic and thoracoabdominal aortic surgery
V.S. Arakelyan (Moscow)

14:00 – 14:20 Endovascular treatment of thoracoabdominal aneurysms using up-to-date visualization systems
Stephan Haulon (France)

14:20 – 14:30 Highlights in TEVAR in 2020 year
S.A. Abugov (Moscow)

14:30 – 14:40 Acute aortic syndrome: opportunities of endovascular treatment
D.P. Gaponov (Astrakhan)

14:40 – 15:00 Use of fusion navigation systems in hybrid aortic interventions
P.M. Lepilin (supported by Philips)

15:00 – 15:20 Aortic dissection in elderly: ethical dilemmas of treatment
Viacheslav Bobovnikov (USA)

15:20 – 15:30 Break

15:30 – 17:00 Session "Abdominal aorta endoprosthetics"
Moderators: Acad. I.I. Zatevakhin, Doctor of Medical Sciences T.E. Imayev

15:30 – 15:50 Juxtarenal aortic aneurysm: open surgery or EVAR? New treatment paradigms
A.V. Chupin (Moscow)

15:50 – 16:10 Treatment of complex abdominal aortic aneurysms
Chang Shu (China)

16:10 – 16:20 Comparative efficiency of EVAR and surgical repair of abdominal aortic aneurysm in the Krasnoyarsk territory cardiovascular center
K.V. Kochkina (Krasnoyarsk)

16:20 – 16:30 Penetrating abdominal aortic ulcer as a predictor for false aneurysm development and subsequent rupture
N.R. Chernaya (Moscow)

16:30 – 16:40 Endovascular treatment of iliac artery aneurysm
R.S. Polyakov (Moscow)

16:40 – 16:50 EVAR with use of "chimney"-technique
A.S. Kolegayev (Moscow)

16:50 – 17:00 Experience in surgical treatment of infrarenal abdominal aortic aneurysms in Karachayevo-Cherkessian republican hospital
M.B. Temrezov (Cherkessk)

17:00 – 17:10 Conference closing

February 9 PARALLEL BROADCAST

11:00 – 12:00 Symposium supported by Cardiomedix "Structural heart pathology – new technologies and clinical experience"
Moderators: Prof. Eustaquio Maria Onorato, Candidate of Medical Sciences T.E. Imayev

11:00 – 11:15 Endovascular occlusion of patent foramen ovale at the present stage: overview of 2019 and 2021 European recommendations
Eustaquio Onorato (Italy)

11:15 – 11:30 Complex and non-standard cases of occluder devices application
T.E. Imayev (Moscow)

11:30 – 11:45 Paravalvular leaks: complex clinical issue and its resolution by the endovascular occlusion method
S.A. Piskunov (Chelyabinsk)

11:45 – 12:00 Intracardiac ultrasound in structural heart disease interventions
I.V. Buzayev (Ufa)

12:00 – 13:05 Medtronic symposium "New implantation technique for improving results of TAVI (Cusp Overlap Technique). Key principles and practical use"
Moderators: T.E. Imayev, D.A. Zverev

12:00 – 12:05 Welcoming remarks
T.E. Imayev

12:05 – 12:30 New technique of Evolut valve implantation for decreasing permanent pacemaker rate after TAVI
D.A. Zverev

12:30 – 12:45 Measurement and sizing
D.A. Zverev

12:45 – 12:55 Procedure discussion
D.A. Zverev

12:55– 13:00 Q&A session
D.A. Zverev

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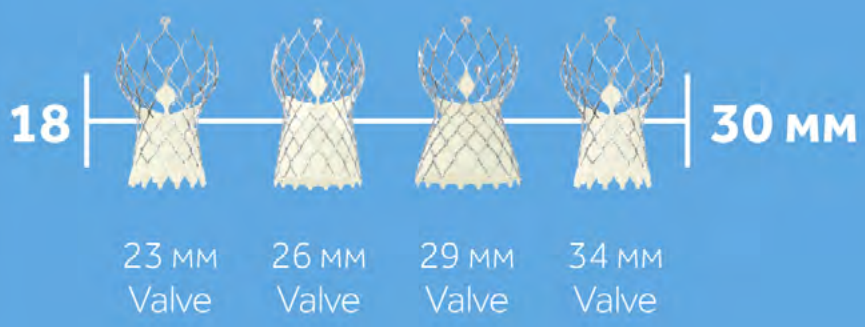
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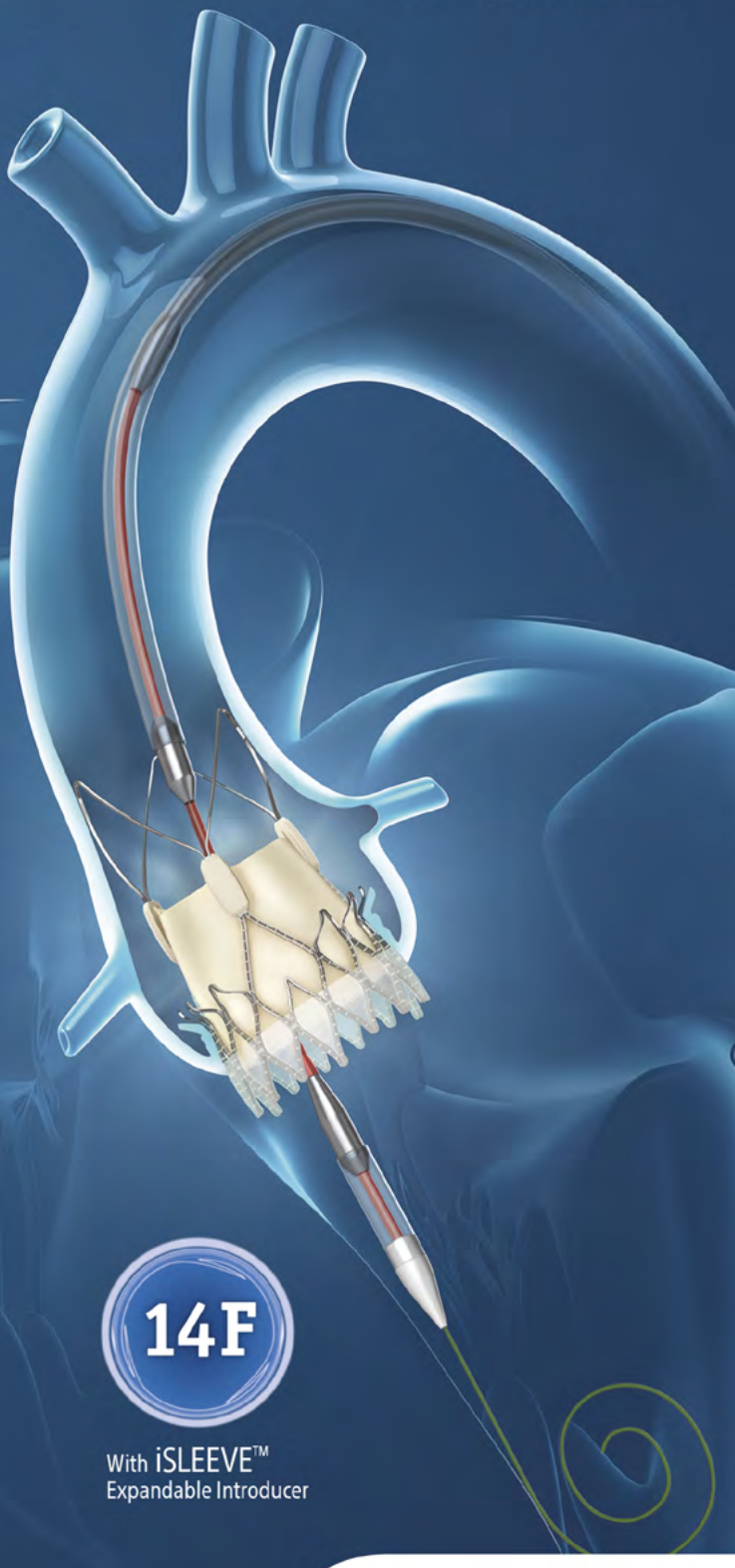
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1. Möllmann H, Hengstenberg C, et al. Real-world experience using the ACURATE neo prosthesis: 30-day outcomes of 1,000 patients enrolled in the SAVI-TF registry. *EuroIntervention*. 2018;13:e1764-e1770.
2. Kim W, MD, et al. 1-year outcomes of the European post-market registry using the ACURATE neo transcatheter heart valve under real-world conditions in 1,000 patients. *JACC: Cardiovasc Interv*. Vol. 11, no. 14, 2018; July 23, 2018: 1368-74.

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• Возможность **установить С-дугу практически в любое положение**, обеспечивая оптимальное положение бригады, стола пациента и анастезиологического оборудования

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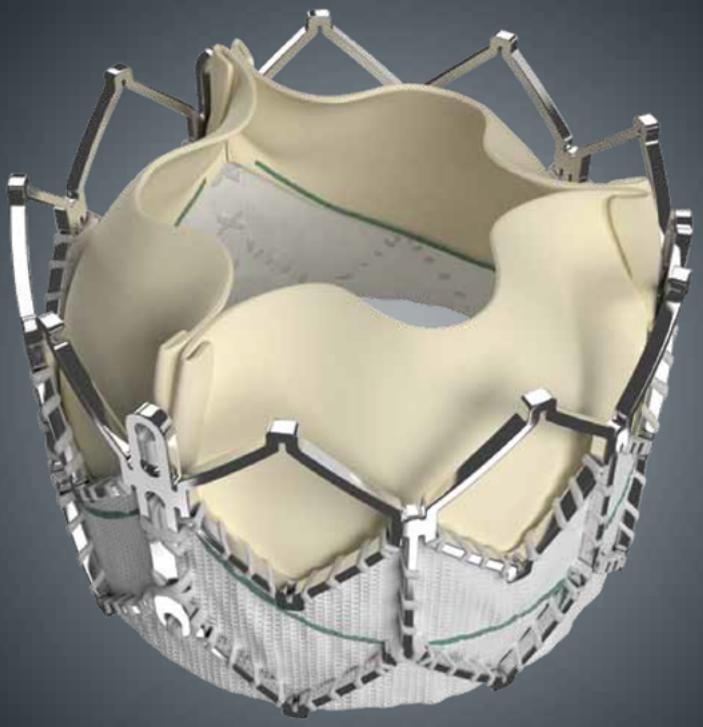
- **EchoNavigator Rel.3**[2] - точная и быстрая навигация при лечении структурных заболеваний сердца – совмещение 3D-изображения чреспищеводной эхокардиографии и «живой» рентгеноскопии.

- **HeartNavigator Rel.3**[3] - совмещение с КТ-данными для точного планирования и online -навигации при **TAVI**, включая выбор клапана из предустановленной базы.

- **Vessel Navigator**[4] - быстрое и точное планирование **EVAR** даже в самых сложных случаях, в т.ч. с применением **фенестрированных графтов**. Автосегментация всех анатомических структур и установка кольцевых меток за счет совмещения с КТ и МРТ-данными. Сокращение расхода рентгеноконтрастного вещества более, чем на 70%[5], а времени процедуры - более, чем на 2 часа[6].

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2. Программное обеспечение Philips EchoNavigator Rel.3 доступно для ангиографических систем Philips Azurion (РУ №РЗН 2018/7035) и Philips Allura (РУ №ФСЗ 2010/06732) и совместимо с ультразвуковой системой Philips EPIQ, вариант исполнения EPIQ (РУ №РЗН 2014/2234)
3. Программное обеспечение Philips HeartNavigator Rel.3 доступно для ангиографических систем Philips Azurion (РУ №РЗН 2018/7035) и Philips Allura (РУ №ФСЗ 2010/06732)
4. Программное обеспечение Philips VesselNavogator доступно для ангиографических систем Philips Azurion (РУ №РЗН 2018/7035) и Philips Allura (РУ №ФСЗ 2010/06732)
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