

# I G O R B U Z A E V



## CONTACT

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## SOCIAL MEDIA

### Web

- <https://buzaev.com>

### LinkedIn

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### ORCID

- [0000-0003-0511-9345](https://orcid.org/0000-0003-0511-9345)

### Scopus

- [55776765500](https://scopus.com/authid/detail.uri?authorid=55776765500)

### ResearchGate

- [Igor-Buzaev](https://www.researchgate.net/profile/Igor-Buzaev)

### Google Scholar

- [zX5DrRQAAAAJ](https://scholar.google.com/citations?user=zX5DrRQAAAAJ)

### Filmfreeway

- [IgorBuzaev](https://www.filmfreeway.com/users/igorbuzaev)

### Instagram

- [instagram/buzaev](https://www.instagram.com/buzaev)

### Private MRgFUS centre

- <https://buzaevclinic.ru>

I dream of a world where it is easy for people to maintain a long, healthy, and happy life, and all who seek help are healed non-invasively, painlessly and without a single mistake

## PROFESSIONAL PROFILE

22 YEARS | A DOCTOR

13 YEARS | A LEADER AND A MANAGER

12 YEARS | A UNIVERSITY TEACHER

An academic professor, leader, healthcare innovator, and researcher with the mission to do everything known and possible to heal and transform the world into a more humane one.

A co-founder and the chief business development officer of the first in the former Eastern Bloc region non-invasive [neurosurgical MRgFUS](#) centre - [International Medical Centre named after V.S. Buzaev](#). Having learned about a new technology that allows predictable operations on the brain's deep structures without incisions, I decided we should be the [first](#) to introduce it in our country. We made a business plan, found an investor, assembled an incredible team, [launched the project during the epidemic restrictions](#), and promoted this treatment method in the conditions of reimbursement absence, complete the lack of awareness among patients, and the conservatism of doctors. As a result, we have already treated more than 200 patients from [the 20 neighbouring countries](#), and the centre became profitable three months after launch.

From 2012 to 2021, I was the head specialist in interventional cardiology assigned by the Ministry of Health of the Republic of Bashkortostan. I carried out the tasks of its development in the Republic of Bashkortostan, with a population of more than 4 million people, and [achieved two-hour availability of primary percutaneous coronary intervention throughout the Republic](#).

Previously, for 11 years, I held the role of Chief of the Interventional Cardiology department at the [Republican Cardio Centre](#), where my responsibilities included providing [department leadership and strategy formation](#), studying, introducing, performing, and teaching a variety of medical procedures, and overseeing the implementation of new techniques with over 11,000 patients discharged and consistently [high rankings among other top national hospitals](#).

As a Bashkir State Medical University professor, I have extensive experience giving lectures and conducting seminars, regularly appearing at [international congresses](#) and national [TV news broadcasts](#) as an expert, with vast international training and scientific publications in [reputable international journals](#).

## EXPERTIZE

- University teaching
- Business Development
- Interventional Cardiology
- Healthcare
- Leadership
- Management
- Research
- Business Planning
- Innovation Penetration
- Filmmaking
- Data Analysis

## TECH SKILLS

- R Programming
- Neural Networks
- Moodle Platform
- Presentation Design
- Adobe Photoshop
- DaVinci Resolve
- SQL, MS Access, VBA
- HTML, Wordpress

## LANGUAGES

- English (C2 - [Tracktest](#))
- French, B1
- Russian, native

## PROFESSIONAL EXPERIENCE

### PROFESSOR (CARDIOVASCULAR SURGERY)

2011 - Present | [Bashkir State Medical University \(BSMU\)](#) | Ufa, Russia  
also held the roles of associate professor 2016–2020, assistant (2011-2016)  
Delivered lectures, led seminars, participated in final oral exams, conducted research, developed an online course on the Moodle platform, and appeared at international congresses as a moderator and speaker.

### CO-FOUNDER AND CHIEF BUSINESS DEVELOPMENT OFFICER

2019 - Present | [V.S. Buzaev International Medical Centre](#) | Ufa, Russia

- I established the first neuro-MRgFUS centre in Russia.
- I have developed the brand mission and vision. I have led the marketing and penetration of awareness about technology.
- I organised the first in the world launch with remote proctorship guidance (due to COVID travel limitations).

### CONSULTANT (HEART DISEASES)

2021 - Present | [V.S. Buzaev International Medical Centre](#) | Ufa, Russia  
Leading a multidisciplinary team in challenging diagnostic cases, I received 100% positive feedback on patient voting platforms like [ProDoctorov.ru](#).

### REPUBLIC OF BASHKORTOSTAN

#### HEAD INTERVENTIONAL CARDIOLOGIST AND RADIOLOGIST

2012 - 2021 | [Healthcare Ministry](#) | Ufa, Russia  
I accepted the supervision of interventional cardiology departments in all four medical centres of the Bashkortostan Republic. I developed a strategy for interventional cardiology and helped Chief Medical Officers develop this field. I left the service with 15 centres and a two-hour availability of PCI.

### VICE CHIEF MEDICAL OFFICER IN INNOVATIONS

2021 | [Bashkir State Medical University Clinic](#) | Ufa, Russia  
Researched and prepared to implement novel technologies in the clinic.

### CHIEF OF INTERVENTIONAL CARDIOLOGY

2010 - 2021 | [Republican Cardio Centre](#) | Ufa, Russia

- Department leadership. Studied. Introduced. Performed. Taught.
- 15 Healthcare Ministry or Government awards in medicine
- Country-level pioneer (Russia) in the following: OCT (2011), IVUS (2012), FFR (2012), Rotablator (2012), Absorb (2013), RDN (2013), UltraICE (2014), TAVI (2014), PVL Closure (2017), Philips EchoNavigator and HeartNavigator modalities (2019)
- Position in [official ratings](#) in all of Russia in 2020: the third in the number of coronary angiographies, the fourth in the number of interventional treatments, and the fifth in the total number of cathlab patients.
- Trained more than twenty fellows. 5 are successful department chiefs.
- Member of the ISO9001 and EFQM hospital teams

### INTERVENTIONAL RADIOLOGIST

2004 - 2010 | [Republican Cardio Centre](#) | Ufa, Russia

- Performed coronary and structural interventions.
- Developed a paperwork automation software.
- One of the Russian-level pioneers in radial access (2009).

## EDUCATION

### Master's Degree in [Fine Arts](#)

2020 - 2023 | Anaheim University

Akira Kurosawa School of Digital Filmmaking | USA, California (online)

### Doctor of Sciences in Medicine

2007 - 2018 | Bashkir State Medical University | Ufa, Russia

I defended my thesis at the [Federal State Budgetary Scientific Institution "RSCH, named after A.I. Academician B.V. Petrovsky"](#) (Moscow, Russia). Degree document issued by the Higher Attestation Commission (Moscow, Russia)

I developed a continuous feedback system of heart revascularization results for clinical decision support. It gathered important factors, the decision, treatment, and the late result. I used these factors for machine learning. After that, the neural network model has been helpful for clinical decision support in multifactor clinical situations.

### Six Sigma Black Belt

2018 | [Management and Strategy Institute \(USA\)](#)

### PHD

2001 - 2006 | Bashkir State Medical University | Ufa, Russia

I defended my thesis at the [Novosibirsk Research Institute of Circulatory Pathology, named after Academician E.N. Meshalkin](#) (Novosibirsk). Degree document issued by the Higher Attestation Commission (Moscow, Russia)

The topic is the mathematical modeling of hemodynamics and prediction of left ventricle volume after resectioning its aneurysm.

### Lawyer, with honours

2005 - 2008 | Bashkir Academy of Public Administration and Management under the President of the Republic of Bashkortostan | Ufa, Russia

### MD, with honours

2019 | BSMU Primary specialization | Healthcare manager

2005 - 2006 | Novosibirsk State Medical Academy | Cardiologist

2002 - 2004 | BSMU Clinical residence | Surgeon

2001 - 2002 | BSMU Internship | Pediatric surgeon

1995 - 2001 | Bashkir State Medical University | Ufa, Russia. Peadiatrician.

Grant of the Ufa mayor for high achievements in education, scientific research, and active participation in the public and cultural life of the city. I was awarded twice in 2000 and 2001.

### 2020 [“The Spiral”](#) short film

Festivals: 6 Selected, 6 Award Winner, 2 Semi-Finalist, 1 Honorable Mention

### 2020 Gratitude letter

the medical chamber of the Republic of Bashkortostan

### 2021 Honorary diploma

Kirovsky urban district of Ufa

### 2019 Honorary diploma

Government of the Republic of Bashkortostan

### 2017 Gratitude letter

signed by the Minister of Internal Affairs of the Republic of Bashkortostan

### 2016 Gratitude letter

The Federation Council Committee on Social Policy

### 2016 TOP-30 the most famous people of Ufa

“Science” nomination  
“Sobaka” magazine

### 2016 Governor Letter

Republic Bashkortostan Government certificate of honour for contribution to quality development in Republican Heart Centre (signed by Governor)

### 2013 Minister Letter

Gratitude signed by the Minister of Internal Affairs of the Republic of Bashkortostan

### 2011 Purple Heart

Nominee for the National Award in Cardiology

### 2011 Excellent Healthcare Worker

Order of the Ministry of Health on awarding the highest category of specialist in interventional cardiology

## PROJECTS

### Hospital Information System

2002 - 2018 | Independent | Ufa, Russia

[A 17-year project I led enthusiastically with no investments and 80% independently.](#) A software for automating the work of one doctor has turned into a system for monitoring long-term results of patient treatment and a clinical decision support system with [elements of AI](#). The system worked in the Republican Heart Centre until 2018, and then the [ministry implemented it in the state regional medical information system](#).

### MRgFUS neurosurgery clinical research

2020 - Present | Bashkir State Medical University | Ufa, Russia

I can't imagine treatment without tracking long-term results for all those treated. The follow-up time for some of our patients after MRgFUS has been for more than three years. We use observational data on long-term outcomes in scientific work. We research Parkinson's disease, MRgFUS targets, and dystonia.

### Two-hour PCI availability for patients with acute myocardial infarction in the Republic of Bashkortostan.

2012 - 2021 | Ministry of Health | Republic of Bashkortostan

Working as the Ministry of Health of the Republic of Bashkortostan's head specialist in interventional cardiology, I led the implementation of the two-hour PCI availability for patients with acute myocardial infarction. I developed the strategy with the ministry team, participated in planning and facility construction control, trained medical staff, planned disposal supplies, and created written processes. I performed the launch of these centres and provided long-term support and mentorship after the launch.

### FUNNC-2021 MRgFUS congress

2021 | International Medical Centre named after V.S. Buzaev | Ufa, Russia

[Focused Ultrasound Non-invasive Neurosurgery Congress FUNNC-2021](#)  
This conference aimed to popularise the MRgFUS treatment method worldwide and exchange knowledge of the best practices. We met world-famous leaders and broadcasted a master class from the MRgFUS operating room, where the team demonstrated the treatment in live mode.

### “The Spiral” film

2020 | International Medical Centre named after V.S. Buzaev | Ufa, Russia

I directed an [award-winning film](#) about one brave girl inspired by a fantastic dream. The film is based on a real story. [IMDB](#). [FilmFreeway](#).

### “The New Surgery” film

2021 | International Medical Centre named after V.S. Buzaev | Ufa, Russia

I directed [a short documentary](#) about the MRgFUS breakthrough technology and the opening of our centre. [FilmFreeway](#).

## CONFERENCES

2015 China, Changchun  
[16th Cardiology Congress & 5th International Changbaishan Forum](#), Faculty, presenter

2015 China, Dalian  
[Dalian International Cardiovascular Forum & 2015 Annual Symposium of Dalian Cardiology Committee](#), Faculty, presenter

2015 Korea, Seoul  
[8th Imaging and Physiology Summit IPS-2015](#), Presenter

2016 Korea, Seoul  
[Transcatheter Therapies Asia Pacific \(TCTAP\)](#), Faculty of the Year, presenter

2016 France, Paris  
[EUROPCR-2016](#), Presenter

2016 China, Dalian  
[The 14th China Dalian International Cardiovascular Forum \(DCIF\)](#), Faculty, presenter

2016 China, Harbin  
[Sixth International Conference of heart diseases in cold climate zone](#), Faculty, presenter

2017 China, Changchun  
[18th Scientific Annual Congress of Jilin Society of Cardiology by Cardiovascular centre, the Second Hospital of Jilin University](#), Faculty, presenter

2017 Korea, Seoul  
[Transcatheter Therapies Asia Pacific \(TCTAP\)](#), Faculty of the Year, presenter

2018 China, Changchun  
[The 8th Changbai Mountains International Intervention Forum](#), Faculty, presenter

2018 China, Dalian  
[The 16th China Dalian International Cardiovascular Forum \(DCIF\)](#), Faculty, presenter

2019 China, Guangzhou  
[CSI Asia-Pacific 2019](#), Presenter

2019 Germany, Frankfurt  
[CSI Frankfurt 2019](#),  
[Challenging cases from Russia](#),  
Co-organizer of the session, presenter

2019 China, Changchun  
[Northeast Asia Cardiology Forum. Ninth Changbai Mountain International Interventional Forum. 24 August 2019](#), Faculty, presenter

2019 China, Dalian  
[17th International Cardiovascular Forum Dalian](#), Faculty, presenter

2019 Korea, Seoul  
[Transcatheter Therapies Asia Pacific \(TCTAP\)](#), Faculty of the Year, panelist, presenter

2020 China, Dalian  
ONLINE: [The 18th Dalian International Cardiovascular Congress](#), Presenter

2020 Korea, Seoul  
ONLINE: [Transcatheter Therapies Asia Pacific \(TCTAP\)](#), Faculty of the Year, panelist, presenter

2021 Korea, Seoul  
ONLINE: [Transcatheter Therapies Asia Pacific](#), Faculty of the year, panelist, presenter

2022 China, Changchun  
ONLINE: [Jilin University Cardiovascular Disease international forum](#), Presenter

2022 Korea, Seoul  
ONLINE: [Transcatheter Therapies Asia Pacific](#), Faculty of the Year, panelist, presenter

## PUBLICATIONS

Buzaev IV, Galimova RM, Nabiullina DI, Illarioshkin SN, Zagidullin NS, Safin SM. [Magnetic resonance imaging-guided focused ultrasound thalamotomy launch with remote telemedicine international proctorship](#). *Chronic Dis Transl Med*. 2023;1-11. doi:10.1002/cdt3.92

Galimova, R. M., Nabiullina, D. I., Illarioshkin, S. N., Safin, S. M., Sidorova, Y. A., Akhmadeeva, G. N., ... & Buzaev, I. V. [First use of MRI-guided focused ultrasound to treat patients with essential tremor in Russia](#). *Annals of Clinical and Experimental Neurology*, 2022; 16(2), 5-14.

Mustafina, I. A., Ishmetov, V., Zagidullin, N., & Buzaev, I. V. TCTAP A-053 Multilayer Convolutional Neural Network Computer Vision Is Effective in Automatic OCT Image Processing. *Journal of the American College of Cardiology*. 2022; 79(15\_Supplement), S34-S34.

Igor V Buzaev, Vladimir V Plechev, Gulchachak Khalikova, Kristina Khabirova, Irina Evgenievna Nikolaeva, Eustaquio Maria Onorato [Case Report: Coil Occlusion of Two Congenital Coronary Cameral Fistulas Connecting Right and Left Circumflex Arteries to the Right Ventricle: An Innovative Stent-Assisted Technique](#) *Frontiers in cardiovascular medicine*. 2022; 8:769235. doi: 10.3389/fcvm.2021.769235.

Eustaquio Maria Onorato, Francesco Alamanni, Manuela Muratori, Grzegorz Smolka, Wojtek Wojakowski, Piotr Pysz, Aleksejus Zorinas, Diana Zakarkaite, Hélène Eltchaninoff, Pierre-Yves Litzer, François Godart, Patrick Calvert, Christos Christou, Abdurashid Mussayev, Bindo Missiroli, Igor Buzaev, Salvatore Currello, Tullio Tesorio, Antonio Luca Bartorelli. [Safety, Efficacy and Long-Term Outcomes of Patients Treated with the Occlutech Paravalvular Leak Device for Significant Paravalvular Regurgitation](#), *Journal of clinical medicine*, 2022; 11(7).

Buzaev, I. V., Khalikova, G., Plechev, V. V., & Onorato, E. M. [EchoNavigator® technology facilitates transapical mitral paravalvular leak closure: A case report](#), *European Heart Journal-Case Reports*, 2021; 5(6), ytab190

[Artificial intelligence—Developments in medicine in the last two years](#), *Chronic diseases and translational medicine*, 2019; 5(1), 64, Galimova, R. M., Buzaev, I. V., Ramilevich, K. A., Yuldybaev, L. K., & Shaykhalova, A. F.

Buzaev IV, Plechev VV, Nikolaeva IE, Galimova RM. [Artificial intelligence: Neural network model as the multidisciplinary team member in clinical decision support to avoid medical mistakes](#), *Chronic Dis Transl Med*. 2016; 2.

Let's transform the world together!

Thank you for your time,  
Yours faithfully,

