

## CURRICULUM VITAE AND BIBLIOGRAPHY FORMAT

**DATE:** 09/18/2023

**FULL NAME AND DEGREE/S:** Stefan Alexandrov Ianchulev, MD FASA

**CURRENT ADMINISTRATIVE TITLE:**

Chief Anesthesiologist, Central Virginia VA Healthcare System, Richmond, VA

VISN 6 Lead Anesthesia Consultant

Director IDEAS Center for Innovation CVHCS Richmond VA Medical Center

**CURRENT ACADEMIC APPOINTMENT:** Professor of Anesthesiology, Virginia Commonwealth University

**PAST ADMINISTRATIVE POSITIONS:** Director Quality Improvement, Department of Anesthesiology and Perioperative Medicine, Tufts Medical Center

**CERTIFICATES:**

American Board of Anesthesiology exp. 12/2031

PTEeXAM – TEE exp. 06/2025

Leadership Certificate – Tufts University/Brandeis University

Quality Improvement and Patient Safety Certificate – Institute for Healthcare Improvement (IHI)

**OFFICE ADDRESS:** Department of Anesthesiology, Hunter Holmes McGuire Medical Center 1201 Broad Rock Blvd, Richmond, VA 23249.

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### **EDUCATION**

Medical School and/or Graduate School (for graduate degrees note field or discipline)

<i>Year of Degree</i>	<i>Degree</i>	<i>Institution</i>
1991	MD	Martin Luther Universitaet, Halle-Wittenberg, Germany (Combined Baccalaureate and medical degree program)

### **POSTDOCTORAL TRAINING**

Internship and Residencies:

<i>Date</i>	<i>Specialty</i>	<i>Institutions</i>
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Sept. 1991-February 1993 Germany	Anesthesiology	St. Joseph's Hospital, Potsdam,
March 1993 – March 1994 Wittenberg	Anesthesiology	Martin Luther Universitaet, Halle-
July 1996-June 1997 Boston, MA	Surgery-Internship	St. Elizabeth Medical Center,
July 1997-June 2000 Boston, MA	Anesthesiology	St. Elizabeth's Medical Center,

Fellowships:

<i>Date</i>	<i>Specialty</i>	<i>Institutions</i>
July 2000-June 2001	Cardio-Thoracic Anesthesiology	Barnes-Jewish-Children's Hospital, Saint Louis, MO

**LICENSURE AND CERTIFICATION**

<i>Dates</i>	<i>Locations</i>
2008 - Present	Massachusetts
2020 – Present	Virginia
2000 - 2009	Missouri (expired)

**ACADEMIC APPOINTMENTS** (old and new)

*Date, Title, Department, Institution*

**January 2018 – Present: Professor of Anesthesiology, Virginia Commonwealth University**  
**May 2016 – July 2018, Clinical Associate Professor of Anesthesiology, Tufts University School of Medicine**  
 June 2008 – May, 2016, **Assistant Professor, Tufts University School of Medicine**  
 Apr. 2004 – May 2008, Assistant Professor of Anesthesiology **Saint Louis University School of Medicine**  
 May 2002 - March 2004, Instructor of Anesthesiology, **Washington University School of Medicine**

**HOSPITAL APPOINTMENTS** (list chronologically)

*Date, Title, Department, Institution*

Sept. 2001 – Sept. 2004, Staff Anesthesiologist, **VA Medical Center John Cochran,**  
 Aug. 2001 – April 2004, Faculty, Department of Anesthesiology, **Barnes-Jewish-Children's Hospital,**  
 Sept. 2004 – May 2008, Faculty, Director Vascular Anesthesiology, **Saint Louis University Hospital**  
**June 2008 – June 2017, Clinical Associate Professor of Anesthesiology, Director of Quality assurance and Quality Improvement, Department of Anesthesiology; Co-Chair Hospital Moderate Sedation Committee, Tufts Medical Center, Department of Anesthesiology**  
**July 2017 – May 2020, Adjunct Professor of Anesthesiology, Department of Anesthesiology and Perioperative Medicine, Tufts Medical Center**

## NATIONAL AND REGIONAL APPOINTMENTS AND PARTICIPATION

2015 – 2016 Panel Member and Advisor, Betsy Lehman Center for Patient Safety, Boston, MA  
2017 – 2023 SCA Quality and Safety Leadership Committee  
2017 – 2023 ASA Committee on Cardiovascular and Thoracic Anesthesia

## AWARDS AND HONORS

*Date and Organization*

1986 – Scholarship for Medical Education Abroad, Ministry of Health and Education, Bulgaria  
1999 – Chief Resident Department of Anesthesiology, Saint Elizabeth Medical Center, Boston, MA  
2000 – “The Robelen” award for most outstanding resident  
2014 – Scholarship Tufts Medical Center – Brandeis University Leadership Academy

## HOSPITAL, MEDICAL SCHOOL, OR UNIVERSITY COMMITTEE ASSIGNMENTS:

(departmental)

*(Date -Indicate role)*

2008 – May 2009, Department Management and Staffing Committee – **Member**  
2008 – 2017, Surgical Value Analysis Committee - **Member**

2009 – 2017, Human Resource Committee (Benefits, Policies and Procedures) - **Member**

2009 - 2017, **Director** Quality Assurance and Quality Improvement, Department of Anesthesiology – Major current and past quality initiatives include:

1. Multicenter Perioperative Outcome Group Quality Metrics Initiative for National Anesthesia Quality Indicators
2. Extubation time initiative to meet benchmarks by STS
3. Improving Hypothermia in TAVR patients
4. Postoperative Nausea and Vomiting improvement initiative
5. Perioperative Surgical Home
6. Patient Satisfaction monitoring and improvement initiative
7. Perioperative Fluid Management protocol for major orthopedic surgeries
8. Decrease of MRSA associated infections initiative
9. Perioperative Blood Products Transfusion management
10. Hand Hygiene initiative
11. Maintenance of normothermia initiative
12. Perioperative Patient Satisfaction

2010 – May 2014, **Chair**, Workload, Call, Compensation, and Benefits Committee

2012 – June 2017, Faculty Senate - **Member**

2014 – June 2017, **Co-Chair**, Sedation Committee – Tufts Medical Center, Develop guidance and metrics to monitor quality and safety in Tufts Medical Center of areas where moderate sedation is performed by non-anesthesia personnel.

2016 – June 2017, Member Hospital Credentialing Committee

**August, 2017 – Present** – Hunter Holmes McGuire Medical Center:

**Chair Clinical Measures and Outcome Committee**

Member of **Resource Management Committee**

Member **Patient Safety and Quality Committees**

Member **Medical Professional Standard Committee**

### **TRAINING OF GRADUATE STUDENTS/POST DOCTORAL** (list present and past)

Residents in Anesthesiology, Medical Students training during their Anesthesiology rotation

2000 – Present

### **TEACHING RESPONSIBILITIES** (present and past) chronological

*Date, Course, Program, Department/Affiliation*

2008 – September, 2015, **Director Vascular and Thoracic Anesthesiology Rotation**, Tufts Medical Center, Department of Anesthesiology – organizing the lectures and curriculum for anesthesia residents on the vascular and thoracic rotations.

2006 – 2008, **Director Vascular Anesthesiology**, Saint Louis University Medical Center, Department of Anesthesiology – organizing the curriculum and lecture series for anesthesia residents.

2009 – 2017, **Director Quality Assurance and Improvement**: Organization of Quality Improvement and Patient Safety lectures and curriculum, Organization of Grand Rounds Quality Improvement presentations, stressing the process and patient safety measures and focusing on the ACGME/IOM criteria for health care delivery. Education of faculty, residents and SRNAs on quality improvement processes and measure implementation.

June 2017 – Present – **Chief Anesthesiologist**, Hunter Holmes McGuire Medical Center, Richmond, Residents education and curriculum development. **Residents' Curriculum** during their VA rotation. Creation of a **Bronchoscopy simulator education. Difficult airway workshop and simulation curriculum.**

### **PROFESSIONAL SOCIETIES**

American Society of Anesthesiology,

2004 – present

Society of Cardiothoracic Anesthesia,

2000 – present

IARS

2000 – present

EACTA

2011 - 2022

## **MAJOR RESEARCH and QUALITY IMPROVEMENT INTERESTS**

### **Quality Improvement in Surgical Patients in the Perioperative Setting:**

- 1. Reducing transfusion requirements in cardiac surgery patients – 2016 – 2017**
- 2. Patient Satisfaction Survey – 2015 – 2017.** Application of measures to improve patient satisfaction by improving processes and applying metrics for evaluation of provider performance.
- 3. Maintenance of normothermia in orthopedic surgical patients** –quality improvement project – led to change in warming strategy for patient during surgical procedures hospital wide. (2015)
- 4. Goal Directed Therapy in Surgical patients** – ongoing quality improvement project in orthopedical and general surgical patients.
- 5. Improving Normothermia in Cardiac surgery patients 2015 – 2017**
- 6. Improving Hypothermia in Transcatheter Aortic Valve Replacement 2014 – 2015** (PI) (extended project to include all cardiac patients. Changed the warming modality of cardiac surgery patients with resulting normothermia in greater than 95% of the cases)
- 7. Postoperative Nausea and Vomiting Improvement Initiative 2014 – 2015**
- 8. Fresh gas Flows in ventilated patients under anesthesia 2014 – 2017**
- 9. Mupirocine in cardiac patients and MRSA load reduction, 2014 – 2017**
- 10. Multicenter Perioperative Outcomes Group (MPOG) database and anesthesia quality metrics development group – 2014 – 2017**
- 11. Blood Conservation initiative in the perioperative setting, 2014 – 2017**
- 12. Improving Postsurgical Extubation Times in Cardiac Surgical Patients 2013 – 2017** (PI)
- 13. Tufts Medical Center – Primary Investigator for the POISE-2 study** 10. 2012 – 07.2014
- 14. Impedance based respiratory monitoring of post median sternotomy in cardiac surgical patients, a validation study, Primary Investigator**

### **RESEARCH SUPPORT** (present and brief summary of past)

*Grant Title:* Chronic Pain and Wellness Mobile Patient Engagement  
*Funding Agency:* Office of Healthcare for Innovation and Learning  
*Period:* July 2022 – ongoing  
*Amount:* \$125,000  
*Role:* PI

*Grant Title:* Augmented Reality in Healthcare  
*Funding Agency:* VA Innovation  
*Period:* December 2020 - 2021  
*Amount:* \$30,000  
*Role:* PI

*Grant Title:* Anesthesia 360<sup>0</sup>  
*Funding Agency:* VA Innovation  
*Period:* March 2018 – September 2019  
*Amount:* \$43,000  
*Role:* PI

*Grant Title:* Perioperative Ischemic Evaluation -2 Trial (POISE – 2)  
*Funding Agency:* Population Health Research Institute  
*Amount:* \$11,560  
*Period:* 10.2012 – 07.2014  
*Role:* Tufts Medical Center PI

*Industry Grant:* Achieving Normothermia in Cardiac Patients – Quality of care, transfusion and financial impact.  
*Industry Funding:* Mennen Medical, Inc  
*Period:* 04/25/2017 – 12/31/2017  
*Amount:* 20,000  
*Role:* Primary Investigator

## **EDITORIAL BOARDS AND ACTIVITY**

**Reviewer Journal Cardiovascular Anesthesia (JCVA),** May 2016 - Present

**Reviewer Egyptian Journal of Cardiac Anesthesia (EJCA),** January 2014 - 2020

**SEE** - Self Education and Evaluation question writer for the American Board of Anesthesiology 04.2014 – 05.2018

## **BIBLIOGRAPHY**

*a) Refereed (i.e., peer-reviewed) papers*

1. Benjamin Rohrer, MD, Brian Kelly, MD, Hocine Tighiouart, Frederick Cobey, MD,FASE, **Stefan Ianchulev, MD**. Prevention of Hypothermia During Transcatheter Aortic Valve Replacement (TAVR). PLOS ONE, accepted for publication.

2. Eleonora Avenatti, MD, Mark D Iafrati, MD; Stephen H Little, MD; Natesa G Pandian, MD; **Stefan A Ianchulev, MD**; Acute Aortic Syndrome - more in the spectrum, Journal of Cardiothoracic and Vascular Anesthesia, accepted for publication.
3. Fluid Management in the perioperative period, **Stefan Ianchulev, MD**, Charles Plant, MD; Chapter in Basic Essentials of Anesthesia, Bhata, Patel, Kim, Cambridge University Press – in print (2017)
4. **Stefan Ianchulev, MD**, Anesthesiology: Clinical Case Reviews, Linda Aglio and Richard Urman; Chapter: Anesthesia for Open Repair of Abdominal Aortic Aneurysm. **In print.**
5. **Stefan Ianchulev, MD**, Anesthesiology: Clinical Case Reviews, Linda Aglio and Richard Urman; Chapter: Anesthesia for Endovascular Repair of Abdominal Aortic Aneurysm. **In print.**
6. Samantha Tayne, MD, MBA, Christian A Merrill, MD, MBA, Rajeev C Saxena, MD, MBA, Caitlin King, MD, MBA, Karthik Devarajan, MD, MBA, **Stefan Ianchulev, MD**, Jon Chilingirian, PhD ; The Future of Ambulatory Surgery at an Academic Medical Center: Maximizing Operational Efficiency Using an In-House Ambulatory Surgery Model [J Healthc Manag.](#) 2018 Mar-Apr;63(2):118-129. doi: 10.1097/JHM-D-16-00008
7. T. Naseem, M. Song, **S. Ianchulev**, H. Rastegar, F. Cobey, **Echocardiographic Evaluation of Bicuspid Aortic Valve: The effect of Jet Eccentricity and Left Ventricular Outflow Tract Geometry on the Effective Orifice Area**, - Journal of Cardiothoracic and Vascular Anesthesia, 2014; 28, 2: 423-427
8. **Stefan Ianchulev**, Diane Ladd, C. Marshall MacNabb, Lizeng Qin, Nathan Marengi, Jenny Freeman, **Use of a Respiratory Volume Monitor to Assess Respiratory Competence in Cardiac Surgery Patients After Extubation**, Journal of Clinical Medicine Research 9 (1): 17-22. doi:10.14740/jocmr2033w. <http://dx.doi.org/10.14740/jocmr2033w>.
9. Nahel Saied, Baragur S. Ravi, **Stefan A. Ianchulev**, Banke Agarwal, **Parenteral Erythromycin Rapidly Empties Retained Gastric Contents: Potential Role in Outpatient Procedures in the Endoscopy Unit** Gastrointestinal Endoscopy, 2007; 65, 5: AB323)

*b) Other papers presenting primary data*

1. Emily Penick, MD, Henry Rogalin, PhD, Ingrid Moreno-Duarte, MD, Alaa Basura, MBBS, Farhad Zahedi, MD, Benjamin Rohrer, MD, Frederick Cobey, MD FASE **Stefan Ianchulev, MD**, Comparison of Forced-Air vs. Warm Circulating Water Devices on the Risk of Transfusion in Cardiac Surgery Patients. Abstract SCA229, SCA 2017
2. Emily Penick, MD, Henry Rogalin, PhD, Ingrid Moreno-Duarte, MD, Alaa Basura, MBBS, Farhad Zahedi, MD, Visal Patel, MD, Benjamin Rohrer, MD, Frederick Cobey, MD FASE **Stefan Ianchulev, MD** Comparison of Forced-Air and Warm Circulating-Water Warming for Prevention of Hypothermia During Open Cardiac Surgery. SCA221, SCA 2017
3. Preventing Hypothermia in Transcatheter Aortic Valve Replacement. Benjamin Rohrer, MD. Brian Kelly, DO. Hocine Tighiouart, MS. Frederick Cobey, MD, MPH, FASE; **Stefan Ianchulev, MD**, Abstract, SCA Conference, San Diego, 2016.



4. Use of Transesophageal Echocardiography for the Prediction of Severe Right Heart Failure Following LVAD Implantation, Brian Gebhardt MD, MPH, Ankit Jain MBBS, **Stefan Ianchulev MD**, Janis Breeze, MPH2, Frederick Cobey, MD, MPH, FASE, Abstract, SCA Conference, San Diego, 2016.
5. Foote, John MD Cand, **Ianchulev, Stefan MD**, “**Comparison of Stryker© Mistral-air Forced Air Warming System Vs. Conventional 3M© Bair-hugger therapy devices on temperature maintenance in hip and knee arthroplasty procedures**”. 2015 Asian Pacific American Medical Student Association (APAMSA) National Conference on September 26-27 in Irvine, California.
6. Michael Fabbro · Jordan Goldhammer · John G T Augoustides · Prakash A. Patel · Jonathan Frogel · **Stefan Ianchulev** · Frederic C. Cobey **CASE 0—2015 Problem-Solving in Transcatheter Aortic Valve Replacement: Cardiovascular Collapse, Myocardial Stunning, and Mitral Regurgitation**, Journal of Cardiothoracic and Vascular Anesthesia 03/2015; DOI:10.1053/j.jvca.2015.03.015
7. Schumann R, George E, Gupta A, Ladd D, Bonney I, **Ianchulev S**, Pivalizza E. Objective postoperative ventilator assessment algorithms in obese patients for PACU monitoring. Anesth Analg 2014;118:S-234 Presented at the 88th Annual Meeting of the IARS, May 17 - 20, 2014, Montreal, Canada
8. B. Kelly, F. Cobey, D. Pham, **S. Ianchulev Predictors of Postoperative Time to Extubation on the Cardiac Intensive Care Unit** – Poster Presentation- Cardiovascular Center, Tufts Medical Center Presentation - 2013

*e) Case Reports, if appropriate*

1. **Stefan Ianchulev, MD**, Anypriya Gupta, MBBS, Roman Schuman, MD; When being good is missing the point: Closing the loop., Letter to the editor, J Anaesthesiology and Clinical Pharmacology 2016 Jul-Sep; 32(3): 396–397
2. Alexander Cohen, MD, Penny Liu, MD, **Stefan Ianchulev, MD**, **Acute Cardiovascular Collapse in a Down Syndrome Patient Following Prone Positioning for Cervical Laminectomy and Fusion**, Poster Presentation at ASA 2015
3. Song M, Marengi N, Cobey F, Dave B, England M, **Ianchulev S**, **Jet Eccentricity Influences Effective Orifice Area in Bicuspid Aortic Valve Stenosis: A Case Report**. SCA 2013: SCA-76
4. R. Govinda, MD, **S. Ianchulev, MD**, **A Right Atrial Mass in a Patient Undergoing Redo Coronary Artery Bypass Graft Surgery**, Journal of Cardiovascular and Thoracic Anesthesia, 2012; 26, 6: 1145-1149
5. **Stefan A. Ianchulev, MD**, **Through the LMA Fiberoptic Intubation of the Trachea in a Patient with an Unexpected Difficult Airway**, letter to the editor, Anesth Analg 2005 101: 1882-1883.
6. **Stefan A. Ianchulev, MD**, **To Do or Not to Do Pre-induction Anesthesia Machine Check-up**, Anesth Analg 2005 101: 774-776

*Published abstracts*

1. *Marengi N, Brayonov J, England M, MacNabb CM, Campana L, Pham DT, Ianchulev, S., Use of a Continuous Non-Invasive Respiratory Volume Monitor in Postoperative Cardiac Surgery Patients Before and After Endotracheal Extubation.* *Anesth Analg* 2013; 116; S-289
2. **Stefan Ianchulev, MD, Emil Bogdanov, MD, Comparison Trial of Nearinfrared Cerebral Oximeters Invos 5100 and ForeSight in patients undergoing cardiac surgery.** Abstract, Annual update on Cardiopulmonary Bypass, 3.2012

*Invited lectures*

1. Cerebral Oximetry, What we know and what we would like to know – **Grand Rounds Lecture** Anesthesia Department, Metro West Hospital – 09.2012
2. Advances in neurological monitoring in cardiac surgery – **Grand Rounds Lecture** Cardiac Surgery Department – 02.2012
3. Ultrasound Physics – MSA – Course of Regional Anesthesia, Nov. 1, 2014
4. Use of Ultrasound for placement of central lines and arterial catheters, MSA Course of Regional Anesthesia, Nov. 1, 2014
5. Invited lecture at the Bulgarian Congress of Anesthesiology and Intensive Medical Care , Nessebar, Bulgaria, - **Improving Quality in Healthcare in the United States.** 10/2017
6. Invited lecture at the Bulgarian Congress of Anesthesiology and Intensive Medical Care, Nessebar, Bulgaria - **Right Ventricular Performance Evaluation during LVAD Implantation.** 10/2017

*j) Non-print publications (films, videos, etc.)*

1. Perioperative Patient Education Video – What to expect when you are going to have anesthesia, Saint Louis University, Department of Anesthesiology 2007