

UNIVERSITY OF PENNSYLVANIA – SCHOOL OF MEDICINE
Curriculum Vitae

July 2019

Joseph Edward Bavaria, M.D.

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Citizenship:

U.S.A.

Education:

1971-1973	American High School, Paris, France
1973-1975	Indian Hill High School, Cincinnati, Ohio (Diploma)
1975-1979	Tulane University, B.S. CH.E. (Chemical Engineering)
1977-1978	Honors Chemical Engineering Exchange Program, The University of Edinburgh, Edinburgh, Scotland, Great Britain
1979-1983	Tulane University Medical School, M.D. Alpha Omega Alpha (AOA)

Postgraduate Training and Fellowship Appointments:

1983-1984	Intern in Surgery, Hospital of the University of Pennsylvania, PA
1984-1989	Resident in Surgery, Hospital of the University of Pennsylvania, Philadelphia, PA
1989-1990	Chief Resident in Surgery, Hospital of the University of Pennsylvania, Philadelphia, PA
1990-1992	Resident in Thoracic and Cardiovascular Surgery, Hospital of the University of Pennsylvania and Children's Hospital of Philadelphia (CHOP), Philadelphia, PA

Military Service:

None

Faculty Appointments:

1984-1986	Assistant Instructor in Surgery, University of Pennsylvania School of Medicine, Philadelphia, PA
1986-1988	Postdoctoral Researcher in Cardiothoracic Surgery, Harrison Department of Surgical Research, University of Pennsylvania School of Medicine, Philadelphia, PA
1988-1989	Assistant Instructor in Surgery, University of Pennsylvania School of Medicine, Philadelphia, PA

Faculty Appointments (cont'd):

1989-1992	Instructor in Surgery, University of Pennsylvania School of Medicine, Philadelphia, PA
1991-1996	Instructor in Gross Cardiac Anatomy, University of Pennsylvania School of Medicine, Philadelphia, PA
1992-1998	Assistant Professor of Surgery, University of Pennsylvania School of Medicine, Philadelphia, PA
1998-2004	Associate Professor of Surgery, University of Pennsylvania School of Medicine, Philadelphia, PA
2004-present	The Brooke Roberts – William Maul Measey Professor of Surgery, University of Pennsylvania School of Medicine, Philadelphia, PA
3/1/14-Present	Surgical Director of the Heart and Vascular Center, Hospital of the University of Pennsylvania, Philadelphia, PA.

Hospital and Administrative Appointments:

1986-1987	House Staff Representative, University of Pennsylvania Medical Center
1987-1988	President, Housestaff Association, University of Pennsylvania Medical Center
1987-1988	Member of the Medical Board, Hospital of the University of Pennsylvania
1992-2004	Attending Surgeon in Thoracic Surgery, Veteran's Administration Medical Center, Philadelphia, PA
1993-2002	Director, Lung Transplantation Program, University of Pennsylvania Medical Center
1993-present	Director, Thoracic Aortic Surgery Program, University of Pennsylvania Medical Center
1993-2004	Director, Penn Medical Student Rotations, Cardiothoracic Surgery
1996-present	Attending Surgeon in Cardiothoracic Surgery, Presbyterian Medical Center, Philadelphia, PA
1997-present	Attending Surgeon in Cardiothoracic Surgery, Pennsylvania Hospital, Philadelphia, PA
1998-2000	Clinical Director and Chief, Cardiac Surgery, Pennsylvania Hospital, University of Pennsylvania Health System
2002-present	Director, Clinical Research Program, Cardiothoracic Surgery, University of Pennsylvania
2003-present	Vice Chief, Division of Cardiothoracic Surgery, University of Pennsylvania Health System
2002-present	Committee Member on the New Technology Assessment Committee, University of Pennsylvania
2005-present	Attending Surgeon in Cardiothoracic Surgery, Phoenixville Hospital, Phoenixville, PA
2013-present	Surgical Director, Heart and Vascular Center Serviceline, PENN Medicine

Specialty Certification:

1990	Part I	American Board of Surgery
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1991	Part II American Board of Surgery, Certificate #37248
1993	Part I American Board of Thoracic Surgery, Certificate #5308
1993	Part II American Board of Thoracic Surgery, Certificate #5308
2001-2013	Recertification–American Board of Thoracic Surgery, Certificate #5308
2013-2023	Recertification–American Board of Thoracic Surgery, Certificate #5308

Licensure: 1983 Pennsylvania (MD039-845L)

Awards, Honors, and Membership in Honorary Societies:

1977	Tulane University: Honors Engineering, Exchange Program with the University of Edinburgh, Edinburgh, Scotland
1979	Tau Beta Pi (top 10%), Honors Engineering
1979	Omega Chi Epsilon (top 10%), Honors Chemical Engineering
1983	Tulane Medical School: <u>The Gold Scalpel Award for Surgery</u> ; Highest - Surgical Honor in Medical School
1987	Harrison Surgical Research Foundation Award
1998	Health System Award; University of Pennsylvania Med. Ctr., Philadelphia Antique Show Benefit (Complex Aortic Surgery Program), University of Pennsylvania Medical. Center, (\$552,000)
1999-2002	Program Director, Pennsylvania Association for Thoracic Surgery
1999-2002	Editorial Board, The Pennsylvania Association for Thoracic Surgery
2001-2005	Membership Committee, American Association for Thoracic Surgery (AATS)
2002-2006	Society of Thoracic Surgeons (STS), Committee Member for the Workforce on Graduate Medical Education
2003	Society of Thoracic Surgeons (STS), National Nomination for “Best Teacher” of Resident Trainees in Cardiovascular & Thoracic Surgery in the United States
2003	Vice-President, The Pennsylvania Association for Thoracic Surgery (PATS)
2004-2005	President, The Pennsylvania Association for Thoracic Surgery (PATS)
2004-Present	Society of Thoracic Surgeons Endovascular Task Force
2005	Luigi Mastroianni Clinical Innovator Award, University of Pennsylvania Health System
2006-2009	American Association for Thoracic Surgery (AATS) Education Committee
2005-2008	Society of Thoracic Surgeons (STS), Workforce on Annual Meeting (STS University Task Force)
2008-2011	Society of Thoracic Surgeons (STS), Workforce on New Technology

Awards, Honors, and Membership in Honorary Societies (cont’d):

2008	Society of Thoracic Surgeons (STS) Quality Measurement Task Force
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- 2009 Member-at-large on the American Association for Thoracic Surgery Program Committee.2009 Society of Thoracic Surgeons (STS)-American Association for Thoracic Surgery (AATS) Chairman, Task Force on Percutaneous Valves
- 2010 Transcatheter Cardiovascular Therapeutics (TCT), Scientific Program Committee
- 2010–2013 Vice Chair: The SCAI/AATS/ACC/STS Operator and Institutions Qualifications for Percutaneous Heart Valve Repair and Replacement Expert Consensus Statement Writing Committee
- 2010-Present American Association for Thoracic Surgery (AATS) Aortic Symposium Program Committee
- 2011-2014 Society of Thoracic Surgeons (STS), Chairman, Workforce on New Technology
- 2011-2014 Society of Thoracic Surgeons (STS), Council on Education and Member Services Operating Board (pursuant to the role as Chair of the Workforce on New Technology)
- 2013-2017 American Association for Thoracic Surgery, International Advisory Committee
- 2012-2015 The Heart Valve Society, Board of Directors
- 2013-2018 Society of Thoracic Surgeons, Board of Directors
- 2013-Present American College of Cardiology (ACC)/Society of Thoracic Surgeons (STS) TVT Stakeholder Committee (AATS Representative)
- 2014-2018 Society of Thoracic Surgeons, Executive Committee Member
- 2014-2015 Society of Thoracic Surgeons, Second Vice-President
- 2015-2016 Society of Thoracic Surgeons, First Vice President
- 2015-Present American College of Cardiology
- 2016-Present Society of Thoracic Surgery (STS)/American College of Cardiology (ACC) (NCDR) TVT Registry Steering Committee
- 2016-2017 Society of Thoracic Surgeons, President
- 2017-2018 Society of Thoracic Surgeons, Board of Directors (Immediate Past President)
- 2017-2022 Society of Thoracic Surgeons, Nominating Commtee Member
- 2017-2018 Society of Thoracic Surgeons, Standards and Ethics Committee (Ex-Officio)
- 2017-2020 Society of Thoracic Surgeons, Workforce on International Meetings Member
- 2017- 2020 Society of Thoracic Surgeons (STS)/American College of Cardiology (ACC) TVT Registry Steeing Committee, Chair
- 2017 Course Director, Penn Aortic Course, A Multi-Dsciplinary Approach to Conquering Complex Aortic Disease.

Awards, Honors, and Membership in Honorary Societies (cont'd):

- 2018 Fellowship ad hominem of the Royal College of Surgeons of Edinburgh
- 2019-2023 President, The Thoracic Surgery Foundation

2019-2022 Progam Committee Member for ACC/WCC

Memberships in Professional and Scientific Societies:

National/International Societies:

American Surgical Association (ASA)
Society of Thoracic Surgeons (STS)
American College of Cardiology (ACC)
American Association for Thoracic Surgery (AATS)
European Association for Cardio-Thoracic Surgery (EACTS)
American College of Surgeons (ACS)
American Heart Association (AHA)
American Medical Association (AMA)
The Society for Thoracic Surgical Education
21st Century Cardiothoracic Surgical Society
International Society of Endovascular Specialists (ISES)
The Heart Valve Society
Scientific Committee-Magna Graecia Aortic Interventional Project
Montalcino Aortic Consortium
Royal College of Surgeons of Edinburgh
The Florida Society of Thoracic and Cardiovascular Surgeons

Local, State and Regional Societies:

Agnew Surgical Society
Pennsylvania Association for Thoracic Surgery
Pennsylvania Medical Society
Ravdin-Rhoads PENN Surgical Society
Society of Tulane Engineers
Pennsylvania Chapter of the American College of Cardiology
Philadelphia County Medical Society
Delaware Valley Society of Thoracic Surgery

Editorial Positions:

Editorial Board:

European Journal for Cardio-Thoracic Surgery (EJCTS) (2013-2016)
Journal of the Pennsylvania Association for Thoracic Surgery (1999-2008)
INNOVATIONS: Technology and Techniques in Cardiothoracic and Vascular Surgery (2005-Present)

Manuscript Reviewer:

Circulation

Manuscript Reviewer:

Journal of the American College of Cardiology (JACC)
Journal of Thoracic and Cardiovascular Surgery (JTCVS)
Chest
Annals of Thoracic Surgery (ATS)

European Journal for Cardio-Thoracic Surgery (EJCTS)

Academic Committees at the University of Pennsylvania and Affiliated Hospitals:

- 2002-Present New Technology Assessment Committee, University of Pennsylvania
- 2009-Present Finance Committee, Department of Surgery
- 2010 Conflict of Interest Faculty Advisory Committee, Penn Medicine

Major Teaching and Clinical Responsibilities for the University of Pennsylvania:

1. Attending surgeon for heart and heart-lung transplant teams (1993-2002)
2. Director and Chief, Lung Transplant Program (1993-2001)
3. Daily teaching rounds with housestaff and medical students; ICU and Inpatient

Major Teaching and Clinical Responsibilities for the University of Pennsylvania (Cont'd):

4. Direct and daily supervision of Cardiothoracic and General Surgery resident housestaff in the operating room.
5. Monthly lectures on cardiac and thoracic surgery for residents and medical students
6. Monthly lecture on Cardiac Surgery to Penn Nurses.

Active Grants:

- 1) Evaluation of the Gore TAG 04-02 Thoracic Endoprosthesis for Treatment of Descending Thoracic Aneurysms
W.L. Gore
Principal Investigator
1/04-present (\$168,000)
- 2) The PARTNER II Trial: Placement of AoRTic TraNscathetER Valves Trial
Edwards Lifesciences
Principal Investigator
06/01/11 – present (\$6,272,500 to date)
- 3) Aortic Valve Operative Outcomes in Marfan Patients
National Marfan Foundation
Principal Investigator
3/1/2005-present (\$50,000)
- 4) Evaluation of the GORE TAG Thoracic Endoprosthesis for the Treatment of Complex Pathology of the Descending Thoracic Aorta (TAG 04-01)
W. L. Gore
Principal Investigator
5/24/05-present (\$120,000)

Active Grants (cont'd):

- 5) Evaluation of the Gore TAG 05-02 Thoracic Endoprosthesis for Treatment of Descending Thoracic Aneurysms
Co-Investigator
W. L. Gore
1/11/06-present (\$50,000)

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- 6) VALOR II: The Valiant Thoracic Stent Graft Clinical Study
Medtronic, Inc.
Principal Investigator
12/2006 – present (\$313,653)
 - 7) Zenith TX2 TAA Thoracic Endovascular Graft Clinical Study
Cook Medical
Co-Investigator
3/4/04-present (\$150,000)
 - 8) A Phase 11 Clinical Study of the Safety and Efficacy of the Relay™ Thoracic Stent-Graft
in Patients with Thoracic Aortic Pathologies
Bolton Medical
Co-Investigator
3/07-present (\$81,100)
 - 9) Evaluation of the GORE TAG Thoracic Endoprosthesis-45mm (TAG 06-02)
W.L. Gore
Principal Investigator
8/9/07-Present (\$60,000)
 - 10) Edwards Lifesciences, Partner I (Placement of Aortic Transcatheter Valves)
Edwards Lifesciences
Principal Investigator
8/07 – Present (\$2,364,950 to date)
 - 11) Clinical Investigation of the Sorin MEMO 3DAnnuloplasty Ring for Mitral Valve Repair
CarboMedics
Co-Investigator
10/07-Present (\$317,683 to date)
 - 12) The International Registry of Acute Aortic Dissection (IRAD)
UMICH
Co-Principal Investigator
1/2005-present (None)
 - 13) Zenith TX2 TAA Endovascular Graft Post-Market Approval Study
Cook Incorporated
Primary Investigator
02/19/10 – present (\$66,700 to date)
 - 14) An Evaluation of the GORE Conformable TAG Thoracic Endoprosthesis for the Primary
Treatment of Aneurysm of the Descending Thoracic Aortic (TAG 08-03)
W.L. Gore & Associates
Primary Investigator
01/06/10 – present (\$83,390 to date)
- Active Grants (cont'd):**
- 15) Transform Trial (Aortic Valve)
Edwards Lifesciences, LLC, Primary Investigator
12/12/2012 – Present (\$1,240,006 to date)
 - 16) SurTAVI (Intermediate risk TAVR Trial)
Medtronic
Primary Investigator

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- 10/21/2013 – Present (\$470, 432 to date)
- 17) COMMENCE Trial (Cardiac Valve Bioprosthesis)
Edwards Lifescience
Primary Investigator
5/16/2014-Present (\$2,250,166 to date)
- 18) An Observational, Prospective Evaluation of the Trifecta™ Valve
St. Jude Medical
Principal Investigator 8/2/07 (\$700,000)
- 19) An Observational, Prospective Evaluation of the Trifecta™ Valve (FDA PMA Trial)
St. Jude Medical
Principal Investigator
8/2/07 – Present (\$780,200)
- 20) Refresh Trial (FDA EFS)
Cytosorbents Corp
Primary Investigator
12/1/2015 – Present (\$97,303 to date)
- 21) Partner III TAVR Trial (Lower risk)
Edwards Lifesciences
Principal Investigator
8/16/2016 to Present (\$396,072 to date)
- 22) Partner III CAP Trial (Low Risk) FDA Continued Access
Edwards Lifesciences
Co-Principal Investigator
7/31/2018 to Present (\$40,947 to date)
- 23) Thoroflex Hybrid Arch Trial (FDA PMA)
Terumo Aortic
Principal Investigator
9/27/2016 – Present (\$35,247 to date)
- 24) Early TAVR Trial
Edwards Lifesciences
Primary Investigator
3/31/2017- Present (\$15,156 to date)
- 25) Refresh II
Cytosorbents Corp
Primary Investigator
5/23/2018 – Present (\$13,185 to date)

Active Grants (cont'd):

- 26) Thoracic Aortic Endograft Graft (TAG-08-01 Trial
W.L. Gore
Co-Primary Investigator
1/6/2010 to Present (\$46,491 – date)
- 27) Thoracic Aortic Endograft Graft (TAG-08-02 Trial
W.L. Gore
Co-Primary Investigator

- 1/6/2010 to Present (\$68,806 – date)
28) Zenith TEVAR dissection 11-007
Cook Inc.
Co-Primary Investigator
9/6/2012 to Present (\$10,177 to date)
29) Zenith TEVAR TX2 blunt injury trans fix trial 11-004
Cook Inc.
Co-Primary Investigator
2/1/2013 to Present (\$13,009 to date)
30) Thoracic Aortic Endograft Graft TAG-SSB 11-02 Trial
W.L. Gore
Co-Primary Investigator
2/27/2014 to Present (\$83,740 – date)
31) PORTICO TAVR FDA PMA trial
St. Jude Medical
Co-Primary Investigator (Steering Committee)
8/24/2014 – Present (\$394,094 to date)
32) Thoracic Aortic Endograft Graft TAG-SSB 11-03 Trial
W.L. Gore
Co-Primary Investigator
3/23/2015 – Present (\$40,907 to date)
33) Valient EVO TEVAR FDA Trial
Medtronic Inc.
Co-Primary Investigator
6/30/2016 – Present (\$59,323 to date)
34) Valient Dissection TEVAR FDA Trial
Medtronic Inc.
Primary Investigator (National)
6/30/2012 – Present (\$162,211 to date)
35) Relay Pro-D TEVAR Trial
Bolton Medical/Terumo Aortic
Co-Primary Investigator
2/27/2018-Present (\$9,475 to date)

Active Grants (cont'd):

- 36) Thoracic Aortic Endograft Graft TAG-SSB 11-02 Pivotal Trial
W.L. Gore
Co-Primary Investigator (Steering and Advisory Committee)
2/6/2017 – Present (\$162,892 – date)
37) Valient Mona LSA FDA EFS Trial
Medtronic
Co-Primary Investigator
6/28/2018 – Present (\$22,660 to date)

- 38) REPRISE TAVR FDA PMA Trial
Boston Scientific Corp.
Co-Primary Investigator
3/17/2015 – Present (\$215,313 to date)
- 39) Bolton Surgery and Endo RELAY Trial
Bolton Medical/Terumo Aortic
Co-Primary Investigator
2/6/2007 – Present (\$89,900 to date)
- 40) Preceval Aortic Valve FDA PMA Trial
Sorin Group USA Inc.
Co-Primary Investigator
11/14/2013 – Present (\$182,779 to date)
- 41) Jenna Valve FDA Trial
JVT Research and Development
Co-Primary Investigator
1/11/2017 – Present (\$22,300 to date)
- 42) Two Branched Bolton Aortic Arch Endograft RELAY EFS (FDA)
Bolton Medical
Co-Primary Investigator
9/5/2017 – Present (\$23,875 to date)
- 43) RELAY PRO A Aneurysm Trial (TEVAR)
Bolton Medical/Terumo Aortic
Co-Primary Investigator
4/21/2017 – Present (\$25,280 to date)

Previous Grants:

- 1) BioGlue Surgical Effectiveness and Safety Trial as a Surgical Adjunct in the Repair of Type A Aortic Dissections ("BEST Trial")
CryoLife, Inc.
Principal Investigator
1//99-6/00 (\$57,000)

Previous Grants (cont'd):

- 2) Clinical Evaluation of the *Shelhigh, Inc.*TM, Model *NR2000 Plus*TM *No-React*[®] Treated Porcine Bioprosthesis for Aortic Valve Replacement
Shelhigh, Inc.
Principal Investigator
08/01-08/02 (\$10,000)
- 3) A Double-Blind, Placebo-Controlled, Multinational Trial To Investigate The Effect Of IV Treatment With The Na⁺/H⁺ Exchange Inhibitor Cariporide (HOE642) On All-Cause Mortality And Non-Fatal Myocardial Infarction In Patients At Risk Of Myocardial

- Necrosis During And After Coronary Artery Bypass Graft (CABG) Surgery:
EXPEDITION Trial
Aventis Pharmaceuticals
Principal Investigator
8/2001-8/2002 (\$11,000)
- 4) BioGlue Surgical Adhesive Effectiveness and Safety Trial as a Surgical Adjunct in Cardiac and Vascular Repair (“BEST Trial” Phase II)
CryoLife, Inc.
National Principal Investigator
01/15/99-12/31/02 (\$50,000)
- 5) Cerebral Optimization by Regionalization of the Aorta: A Randomized Study of Targeted Circulatory Management™ (TCM) -- Cardeon® TCM - Cobra™ FDA/IDE Multisite Clinical Trial Catheter Trial
Cardeon
Principal Investigator
5/2001-2004 (\$200,000)
- 6) A Phase III, Multi-Center Randomized, Double-Blind, Placebo-Controlled Trial of the Ex-Vivo Treatment with CGT003 of Coronary Vein Grafts in Patients Undergoing Coronary Artery Bypass Graft Procedures (Prevent IV Trial)
Corgentech, Inc., Duke Clinical Research Institute (DCRI)
Principal Investigator
08/01/02-2004 (\$20,000)
- 7) Thromboembolic-Related Complications/Randomized Trial of Previous and Current Generation Mechanical Prosthesis (TRC-MP)
Medical Carbon Research Institute, LLC
Principal Investigator
09/01/03-2010 (\$20,000)
- 8) Evaluation of the Medtronic AVE TALENT Thoracic Stent Graft System for the Treatment of Thoracic Aortic Aneurysm
Valor, Medtronic, Inc
Co- Investigator
06/15/03-2011 (\$200,000)

Previous Grants (cont’d):

- 9) EXCLUDER Thoracic Endoprosthesis for Descending Aortic Disease Study – The EXTEND Trial
W.L. Gore & Associates, Inc.
Principal Investigator
11/2001-2006 (\$180,000)
- 10) Intraoperative Transcranial Doppler and Extracorporeal Embolus Monitoring in Aortic Surgery with Deep Hypothermic Circuitry Arrest and Cardiac Surgery
Terumo
Principal Investigator

- 3/15/04-2007 (\$127,128)
- 11) BioGlue® Surgical Adhesive as a Surgical Adjunct in the Repair of Type A Aortic Dissection – A Phase IV Follow Up Study
Cryolife, Inc
Principal Investigator
5/13/06-2007 (\$5,600)
- 12) A Randomized Study to Compare Sizing, Implant Techniques, and Hemodynamic Performance between the Mitroflow and the Carpentier-Edwards Magna Pericardial Tissue Valves in the Aortic Position
Carbomedics, Inc.
Primary Investigator
05/18/09 – present (\$21,079)
- 13) Cardiac Surgery Techniques to Treat Ventricular and Aortic Remodeling
NIH
Co-Investigator
7/1/07 – 06/30/11 (245,845)
- 14) Historical Mortality Rates Following Treatment for Complicated Acute Type B Aortic Dissection
Medtronic, Inc.
Primary Investigator
1/12/1009 – 07/11/2010 (\$48, 412)

Lectures by Invitation (past 5 years):

- February 2012 “Justification of PARTNER 2A: Stupid or Brilliant??”, ACC/STS, Transcatheter Heart Valve Symposium, Chicago, IL.
- February 2012 “Clinical and Procedural Complications of TAVR: A Worldwide Literature Review”, ACC/STS, Transcatheter Heart Valve Symposium, Chicago, IL.
- May 2012 “Open Versus Endovascular Repair of Descending Thoracic Aorta with Subclavian Artery Involvement”, 10th Annual Innovations in Complex Vascular & Endovascular Interventions Emphasis on: Complex Arterial and Venous Vascular Procedures, Management Options for Non-Healing Wound & Advances in Podiatric Wound Management, New York, NY.

Lectures by Invitation (past 5 years) (cont'd):

- June 2012 “Translating the Lessons from the GenTac Study: Are We Getting to the Point of Genetically Directed Elective Aortic repair instead of Simple Diameters?”, 12th Symposium on Aortic Valve Reconstructive Surgery, Aortic Valve Repair: How you can do it. Brussels, Belgium.
- August 2012 “Aortic Surgery in Patients with a Bicuspid Aortic Valve”, Second Thoracic Aortic Disease Summit, GenTac, Chicago, IL.
- August 2012 “Structural Heart Disease – New Directions in the Management of Valvular Heart Disease”, 60th Annual Scientific Meeting of the Cardiac Society of Australia & New Zealand, Brisbane, Australia.

- September 2012 “Thoracic Aortic Disease – Surgical and Interventional Options“, Aortic Live Innovation Challenges State of the Art, University Duisberg, Essen, Germany.
- September 2012 “Surgeons’ Assessment”, ACC/STS Transcatheter Heart Valve (THV) Symposium: Emerging Technology and Team-Based Care for Optimal Management of Severe Aortic Stenosis. Heart House, Washington, DC.
- September 2012 “Economics of TAVR”, ACC/STS Transcatheter Heart Valve (THV) Symposium: Emerging Technology and Team-Based Care for Optimal Management of Severe Aortic Stenosis. Heart House, Washington, DC.
- October 2012 “TAVR: Should Every Hospital Do It?”, Eastern Cardiothoracic Surgical Society, Naples, FL.
- October 2012 “Aortic Surgery and/or TEVAR”, 65th Annual Scientific Meeting of the Japanese Association for Thoracic Surgery, Fukuoka, Japan.
- October 2012 “Valve Sparing Aortic Root Repair: Techniques, Pitfalls, Results”, Vanderbilt Valve Symposium 21st Century Techniques for Complex Valve Procedures, Nashville, TN.
- October 2012 “Modern Treatment of Aortic Dissection”, Vanderbilt Valve Symposium 21st Century Techniques for Complex Valve Procedures, Nashville, TN.
- November 2012 “Thoracic Endografting”, AATS – Turkish Society for Cardiovascular Surgery 12th Congress, Antalya, Turkey.
- November 2012 “Open or Endovascular Treatment in Thoracoabdominal Aortic Aneurysms Due to Chronic Type B Dissection”, Turkish Society for Cardiovascular Surgery 12th Congress, Antalya, Turkey.
- December 2012 “Future of Transcatheter Mitral Valve Replacement”, Dallas-Leipzig Valve 2012, Dallas, TX.
- December 2012 “The Treatment is Valve-in-Valve”, Debate: Management of Degenerated Homografts, Dallas-Leipzig Valve 2012, Dallas, TX.
- January 2013 "Management of Acute Aortic Dissection and Hypothermic Circulatory Arrest", Duke Resident Symposium at The Society of Thoracic Surgeons 49th Annual Meeting, Los Angeles, CA.

Lectures by Invitation (past 5 years) (cont'd):

- January 2013 "Tabulating Health System Value in Cardiac Surgery Program Development" - Session: Practice Management Summit. At The Society of Thoracic Surgeons 49th Annual Meeting, Los Angeles, CA.
- January 2013 "The Next Wave of Percutaneous Therapy - Replacement" - STS/AATS Tech-Con. At The Society of Thoracic Surgeons 49th Annual Meeting, Los Angeles, CA.
- January 2013 Debate: All Asymptomatic 4/5cm Ascending Aortic Should be Resected in the Setting of a Normal Valve - PRO - Session: Adult Cardiac Session: Aortic. At The Society of Thoracic Surgeons 49th Annual Meeting, Los Angeles, CA.

- January 2013 "Partner II trial: cohort A" - Session: Clinical Trials: Reflections on Old and Plans for New. At The Society of Thoracic Surgeons 49th Annual Meeting, Los Angeles, CA.
- January 2013 "Partner II trial: cohort A" - Session: Clinical Trials: Reflections on Old and Plans for New. At The Society of Thoracic Surgeons 49th Annual Meeting, Los Angeles, CA.
- February 2013 "How to Tailor the Optimal Treatment Modality for the Patient with Aortic Valve Stenosis", Cardiovascular Research Technologies 2013, Valve & Structural Heart Revolution, Washington, DC.
- February 2013 "Is Aortic Valve Repair Superior to Replacement?", Cardiovascular Research Technologies 2013, Valve & Structural Heart Revolution, Washington, DC.
- February 2013 "How TAVR Impacts Cardiac Surgery and What the Credentials for the Surgeon Should Be", Cardiovascular Research Technologies 2013, Valve & Structural Heart Revolution, Washington, DC.
- March 2013 "TAVR in Lower Risk Populations: PARTNER 2", 62nd Annual Scientific Session of the American College of Cardiology 2013, San Francisco, CA.
- March 2013 "TAVR: Central and Apical Access Options", 62nd Annual Scientific Session of the American College of Cardiology 2013, San Francisco, CA.
- March 2013 "Aortic Valve Repair: The American Correction", The Houston Aortic Symposium, Frontiers in Cardiovascular Diseases, The Sixth in the Series, Houston, TX.
- March 2013 "Aortic Remodeling of Aortic Dissection", The Houston Aortic Symposium, Frontiers in Cardiovascular Diseases, The Sixth in the Series, Houston, TX.
- April 2013 "Debate: The Bicuspid Aortic Valve, Con", 9th Current Trends in Aortic and Cardiovascular Surgery and Interventions, Houston, TX
- April 2013 "Financial Support and Impact of a THV Program: An Administrator's Perspective", Society of Thoracic Surgeons/American College of Cardiology Foundation, Transcatheter Heart Valve (THV) Symposium, Dallas, TX.

Lectures by Invitation (past 5 years) (cont'd):

- May 2013 "Transcatheter Aortic Valve Implantations: Where we are and Where We're Going?", Brandywine Valley Cardiology-Cardiovascular Care & Innovations: An Update for the Healthcare Professionals. Exton, PA.
- June 2013 "Open Surgical Techniques for Treatment of Chronic Dissection TAAA", SVS/STS/AATS Symposium: Advances and Controversies in the Contemporary Management of Complex Thoracoabdominal Aneurysmal Disease. San Francisco, CA.
- June 2013 "How We Will We Optimally Train Future Vascular Surgeons to Manage Aortic Disease", SVS/STS/AATS Symposium: Advances and

- Controversies in the Contemporary Management of Complex Thoracoabdominal Aneurysmal Disease. San Francisco, CA.
- June 2013 “Should TAVI be Performed in Medium-Risk Patients?”, Postgraduate 7th Biennial Congress of the Society for Heart Valve Disease/Heart Valve Society of America, Venice, Italy.
- July 2013 “Principles of Aortic Valve Repair”, Advanced Aortic and Mitral Valve Reconstructive Surgery, EACTS House, Windsor, UK.
- July 2013 “Aortic Re-Suspension in Aortic Dissection”, Advanced Aortic and Mitral Valve Reconstructive Surgery, EACTS House, Windsor, UK.
- July 2013 “When not to do: David Procedure”, Advanced Aortic and Mitral Valve Reconstructive Surgery, EACTS House, Windsor, UK.
- September 2013 “Aortic Surgery”, Paoli Hospital Grand Rounds, Paoli, PA.
- September 2013 “AI – New Surgical approaches”, 2013 Heart Valve Summit: Medical, Surgical and Interventional Decision-Making, AATS/ACCF, Chicago, IL.
- September 2013 “How to Set Up a TAVR Program”, Lunch Symposium, 2013 Heart Valve Summit: Medical, Surgical and Interventional Decision-Making, AATS/ACCF, Chicago, IL.
- October 2013 “Malperfusion Syndromes”, 23rd Annual Congress of the Association of Thoracic and Cardiovascular Surgeons of Asia, Singapore.
- October 2013 “Future Perspectives in Thoracic Endografting”, 23rd Annual Congress of the Association of Thoracic and Cardiovascular Surgeons of Asia, Singapore.
- October 2013 “How Does TAVI Fit Into My Surgical Practice”, 23rd Annual Congress of the Association of Thoracic and Cardiovascular Surgeons of Asia, Singapore.
- October 2013 “Aortic Surgery”, The 66th Annual Scientific Meeting of the Japanese Association for Thoracic Surgery, Sendai, Japan.
- October 2013 “A New Revolution in Aortic Valve Repair: Indications, Technique and Results”, CVI’s 20th Anniversary Cardiology Update: Clinical Management of Heart Disease 2013.

Lectures by Invitation (past 5 years) (cont’d):

- October 2013 “The TAVI/TAVR Experience”, Phoenixville Hospital Cardiology presents: Contemporary Approach To Care of the Cardiovascular Patient. King of Prussia, PA.
- November 2013 “TEVAR Versus Open TAAA Repair for Chronic Type B Dissection: Decision Making and Results”, Surgery of the Thoracic Aorta, Bologna, Italy.
- December 2013 “Rerouting of Arch Vessels Are Best”, Vienna Interdisciplinary Symposium on Aortic Repair (VISAR), Vienna.
- December 2013 “Aneurysm Care in the 21st Century”, Vienna Interdisciplinary Symposium on Aortic Repair (VISAR), Vienna.

- December 2013 “DeBakey Type III Chronic Dissecting Aneurysms: Outcomes of TEVAR vs Open TAAA Solutions”, 38th Annual Northwestern Vascular Symposium. Chicago, IL.
- January 2014 “Bicuspid Aortic Valve Repair in Pure Aortic Insufficiency: Following the Mitral Repair Paradigm 15 Years Later. Cardiology Grand Rounds Mass General Hospital, Harvard Medical School, Boston, MA
- January 2014 “Is there a Role for TEVAR in the Ascending Aorta?”, The 26th Annual International Symposium on Endovascular Therapy, Miami, FL.
- January 2014 “Key Factors in Developing Strategies for Dissection Therapy”, The 26th Annual International Symposium on Endovascular Therapy, Miami, FL.
- January 2014 “Aortic Root Surgery in “Syndromic” Aortopathies: Evolution in Therapy and Guidelines for Marfan’s and BAV. Oregon Health & Science University Knight Cardiovascular Institute Grand Rounds, Portland, OR.
- February 2014 “A Paradigm Shift: TAVR vs. Surgery for Intermediate Lesions”, Cardiovascular Research Technology 2014, Valve & Structural Heart Revolution, Washington, DC.
- February 2014 “Key Factors in Developing Strategies for Dissection Therapy: Which One Should We Treat?”, Cardiovascular Research Technology 2014, Valve & Structural Heart Revolution, Washington, DC.
- February 2014 “How TAVR Impacts Cardiac Surgery and What the Credentials Should Be For the Surgeon”, Cardiovascular Research Technology 2014, Valve & Structural Heart Revolution, Washington, DC.
- March 2014 “Sutureless Supra-Aortic Re-Routing”, EACTS, Advanced Module: Open and Endovascular Aortic Therapy Course, EACTS House, Windsor, UK.
- March 2014 “Evidence and lack of Evidence in the Treatment of Type A Aortic Dissection”, EACTS, Advanced Module: Open and Endovascular Aortic Therapy Course, EACTS House, Windsor, UK.

Lectures by Invitation (past 5 years) (cont’d):

- April 2014 “Surgical Strategies in Aortic Root Endocarditis”, American Association for Thoracic Surgery Annual Meeting, Toronto, ON, Canada.
- May 2014 “Percutaneous Aortic Valve Replacement: Should We Move Beyond the Aged and Feeble?”, Valves in the Heart of the Big Apple VIII, Evaluation & Management of Valvular Heart Disease 2014, Sixth Annual Joint Scientific Meeting of the Heart Valve Society of America, New York, NY.
- May 2014 “When to refer the patient with valve disease: Indications, Assessment and Management. – Panel Discussion. Penn Medicine, Chester County Hospital, Current Advances in Cardiovascular Care.

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- June 2014 “Physician’s Perspective on Liaison Program”, American Association of Physician Liaisons Annual Conference. Seattle, WA.
- June 2014 “Evolution of Aortic and Mitral Valve Surgery: Assessing the Transcatheter Tsunami”, Grand Rounds, University of Washington, Seattle, WA.
- September 2014 “Aortic Arch Debranching with new Rapid Supra-Aortic Hybrid Peripheral Grafts”, AATS Cardiovascular Valve Symposium, Istanbul, Turkey.
- September 2014 “David Procedure: The Standard of Care”, AATS Cardiovascular Valve Symposium, Istanbul, Turkey.
- September 2014 “Aortic Dissection: Malperfusion Syndromes and Treatments”, AATS Cardiovascular Valve Symposium, Istanbul, Turkey.
- September 2014 “US Sapien Update: Current Status”, AATS Cardiovascular Valve Symposium, Istanbul, Turkey.
- September 2014 “Reimplantation Procedure for A.I. and Proximal Aneurysm: Bicuspid vs. 3-cusp Outcomes”, AATS Cardiovascular Valve Symposium, Istanbul, Turkey.
- September 2014 “Aortic Arch Repair in the US”, 2nd Aortic Live. Essen, Germany.
- September 2014 “AR-New Surgical Approaches”, 2014 Heart Valve Summit, American College of Cardiology, Chicago, IL.
- September 2014 “Cases of Bicuspid AS and AR”, 2014 Heart Valve Summit, American College of Cardiology, Chicago, IL.
- September 2014 “Innovative Approaches to the Treatment of Thoracic Aortic Aneurysmal Disease: Achievements and Future Directions”, Surgery Grand Rounds, Geisinger Medical Center. Danville, PA.
- September 2014 “Advances in Cardiothoracic Surgery”, CVI’s 21st Annual Cardiology Update: Clinical Management of Heart Disease 2014. Philadelphia, PA.
- October 2014 “Transapical Transcatheter Mitral Valve Replacement: First-in-Human Analysis”, European Association for Cardio-Thoracic Surgery, Techno College, Milan, Italy.

Lectures by Invitation (past 5 years) (cont’d):

- October 2014 “The Treatment of the Chronically Dissected Arch and the Descending Aorta After Previous Type A Repair - The US Perspective”, European Association for Cardio-Thoracic Surgery, Techno College, Milan, Italy.
- October 2014 “Hypothermic Circulatory Arrest”, European Association for Cardio-Thoracic Surgery, Techno College, Milan, Italy.
- October 2014 “Acute Dissection: Strategy of Cannulation”, European Association for Cardio-Thoracic Surgery, Milan, Italy.
- November 2014 “Review of the Current FDA Approved TEVAR Devices”, STS Advanced Thoracic Endografting Symposium, Chicago, IL.

- November 2015 “New Technology, Designs and Devices on the Horizon: Will They be Game Changers?”, STS Advanced Thoracic Endografting Symposium, Chicago, IL.
- November 2014 “Management of Simple Aortic Valve Disease and Advanced Surgical Techniques in Aortic Valve Disease”, 2nd Annual Beebe Cardiothoracic Surgery Symposium Aortic Valvular Disease. Dewey Beach, DE.
- December 2014 “New Approaches to Aortic Regurgitation”, Dallas-Leipzig Valve, Dallas, TX.
- December 2014 “Can Surgery or MitraClip Survive Transcatheter Valve Replacement for Secondary Mitral Regurgitation? “Dallas-Leipzig Valve, Dallas, TX.
- January 2015 “Ascending Aorta with Bicuspid Aortic Valve”, 51st Annual Meeting of the Society of Thoracic Surgeons Meeting, San Diego, CA.
- January 2015 “How-I-Do-It: Valve Sparing Aortic Root Replacement in a Bicuspid Aortic Valve”, STS/AATS Tech-Con 2015, 51st Annual Meeting of the Society of Thoracic Surgeons Meeting, San Diego, CA.
- January 2015 “Technical Arch Options for Type A Dissection”. STS/EACTS Session, 51st Annual Meeting of the Society of Thoracic Surgeons Meeting, San Diego, CA.
- January 2015 “Transfemoral TAVR Will Replace AVR in Aortic Stenosis Patients by 2017: Will you be left behind”, 51st Annual Meeting of the Society of Thoracic Surgeons Meeting, San Diego, CA.
- February 2015 “Which Patient Needs a Surgery First approach and With What Procedure?”, 27th International Symposium on Endovascular Therapy, Hollywood, FL.
- February 2015 “Current and Future Devices Available for Endovascular Therapy of Dissections”, 27th International Symposium on Endovascular Therapy, Hollywood, FL.
- February 2015 “Ascending Aorta and Valve: The Future?”, 27th International Symposium on Endovascular Therapy, Hollywood, FL.
- February 2015 “Perspectives on Alternative Access for TAVR”, 27th International Symposium on Endovascular Therapy, Hollywood, FL.

Lectures by Invitation (past 5 years) (cont’d):

- February 2015 “Type B Dissection Following Surgically Corrected Type A”, 27th International Symposium on Endovascular Therapy, Hollywood, FL.
- February 2015 “When and How to Use Spinal Drainage to Improve Outcomes”, 27th International Symposium on Endovascular Therapy, Hollywood, FL.
- February 2015 “Are We Close to a Solution for the Ascending Aorta?”, 27th International Symposium on Endovascular Therapy, Hollywood, FL.
- February 2015 “When are Hybrid Cases Necessary: Debranching for TAA”, 27th International Symposium on Endovascular Therapy, Hollywood, FL.
- February 2015 “Evolving Trends in Cardio-aortic Surgery”, Grand Rounds, University Medical Center of Princeton, Princeton, NJ.

- March 2015 "Evolving Reconstructive Concepts in Bicuspid Aortic Valve Repair", Hospital of the University of Pennsylvania, Cardiology Grand Rounds, Philadelphia, PA.
- March 2015 "Hybrid Repair Is Now Mainstay of Treatment", Critical Issues America Conference, New Orleans, LA.
- March 2015 "Type B Dissections: Optimizing The Treatment Window", Critical Issues America Conference, New Orleans, LA.
- March 2015 "Coarctation: Is Endo The Way To Go? What Are The Results", Critical Issues America Conference, New Orleans, LA.
- March 2015 "Aortic Valve Stenosis with low EF - TAVR vs Replacement", American College of Cardiology 2015, San Diego, CA.
- April 2015 "Determinants and Management of PVL Associated with TAVR", 2015 Australasian Thoracic Aortic Symposium, Melbourne, Australia.
- April 2015 "Will New Generation TAVR Address Unmet Needs of Existing Devices", 2015 Australasian Thoracic Aortic Symposium, Melbourne, Australia
- April 2015 "Re-Implantation Vs Remodeling Vs Bentall's - The Middle Road", 2015 Australasian Thoracic Aortic Symposium, Melbourne, Australia.
- April 2015 "Bicuspid aortic Valve Repair According to Leaflet Morphology", 2015 Australasian Thoracic Aortic Symposium, Melbourne, Australia.
- April 2015 "Prevention and Treatment", 2015 Australasian Thoracic Aortic Symposium, Melbourne, Australia.
- April 2015 "Hybrid Arch Procedure", 2015 Australasian Thoracic Aortic Symposium, Melbourne, Australia.
- April 2015 "Hemiarch with Antegrade TEVAR", 2015 Australasian Thoracic Aortic Symposium, Melbourne, Australia.
- April 2015 "Chronic Type B Dissection: Open Vs TEVAR Decision Making", 2015 Australasian Thoracic Aortic Symposium, Melbourne, Australia.
- April 2015 "Gore LSC Distal Arch Endograft", 2015 Australasian Thoracic Aortic Symposium, Melbourne, Australia.
- May 2015 "Bicuspid Aortic Valves and the Aortic Root: What are our Options", 10th Current Trends in Aortic, Cardiac, and General Thoracic Surgery, Houston, TX.

Lectures by Invitation (past 5 years) (cont'd):

- July 2015 "Aortic Valve: When Not to Repair?", EACTS Advanced Aortic And Mitral Valve Reconstructive Surgery, Windsor, England.
- July 2015 "Aortic Arch Repair Hybrid – Open & Thoracic Endovascular Aortic Repair – Indications and Results", EACTS Advanced Aortic and Mitral Valve Reconstructive Surgery, Windsor, England.
- July 2015 "Interesting Case Discussions", EACTS Advanced Aortic and Mitral Valve Reconstructive Surgery, Windsor, England.
- August 2015 "Review of Balloon-Expandable Randomized Trials", STS Masters in Innovative Structural Heart and Valve Surgery: A Case-Based and Hands-On Symposium, Chicago, IL.

- September 2015 “Is There a Future for Surgical AVR?”, 7th Joint Scandinavian Conference in Cardiothoracic Surgery, Bergen, Norway.
- September 2015 “Indications and Concepts of Thoracic Aortic Stent Grafting”, 7th Joint Scandinavian Conference in Cardiothoracic Surgery, Bergen, Norway.
- September 2015 “Treatment of Bicuspid Aortic Insufficiency”, 7th Joint Scandinavian Conference in Cardiothoracic Surgery, Bergen, Norway.
- September 2015 “The Innovation Imperative in Cardiothoracic Surgery: Lessons from Thoracic Aortic Disease”, Guest Speaker, New Jersey Society of Thoracic Surgery 48th Annual Lecture Meeting, Baltusrol Golf Club, Springfield, NJ.
- October 2015 “Aortic Valve Leaflet Repair”, Heart Valve Summit (ACC/AATS), Chicago, IL
- October 2015 “Porcelain Aorta: Circulatory Arrest vs. TAVR”, Heart Valve Summit, Chicago, IL.
- October 2015 “Is The Cord More At Risk In Open Or Endo Intervention For Extensive Aneurysms?”, Aorta Master Class 2015, London, England
- October 2015 “Surgical and Hybrid Arch Repair, Indications and Technique”, 29th European Association for Cardio-Thoracic Surgery Annual Meeting, Amsterdam, Netherlands
- October 2015 “How to Do a Hybrid Arch Replacement”, 29th European Association for Cardio-Thoracic Surgery Annual Meeting, Amsterdam, Netherlands
- October 2015 “Management of Chronic Type B Dissection”, AATS Aortic Symposium Workshop 2015 Kobe, Kobe, Japan.
- October 2015 “Understanding the Timing of Treatment for Type B Dissection”, The 68th Annual Scientific Meeting of the Japanese Association for Thoracic Surgery Program, Kobe, Japan.
- November 2015 “The Treatment of Malperfusion in Acute Aortic Dissection”, Surgery of the Thoracic Aorta, Eighth Postgraduate Course, Bologna, Italy.
- November 2015 “What Defines Chronic TBAD: When and How Should it Be Treated Conservatively: by Endo Repair: by Open Repair”, 42nd Annual Veith Symposium, New York, NY.

Lectures by Invitation (past 5 years) (cont'd):

- November 2015 Debate: “For Adult Coarctations and Their Complications When is Endo OK and When is Open Surgery Needed: What Are The Best and Safest Procedures”, 42nd Annual Veith Symposium, New York, NY.
- December 2015 “The Surgeon’s View: Aortic Valvular Stenosis, Asymptomatic, Severe, Age 60 Years From Medical Therapy, to Surgical AVR, to Transcatheter AVR/Valvuloplasty”, NY Cardiovascular Symposium, Major Topics in Cardiology Today, New York, NY.
- December 2015 “The Surgeon’s View: Aortic Valvular Stenosis, Symptomatic Severe, Low Flow/Low Gradient, Age 60 Years from Medical Therapy to Surgical AVR to Transcatheter AVR/Valvuloplasty, NY

- Cardiovascular Symposium, Major Topics in Cardiology Today, New York, NY
- December 2015 “The Surgeon’s View: Aortic Valvular Incompetence, Asymptomatic, EF 45%, Age 60 Years from Medical Therapy to Surgical AVR to Transcatheter AVR (?), NY Cardiovascular Symposium, Major Topics in Cardiology Today, New York, NY
- December 2015 “The Surgeon’s View: Aortic Valvular Incompetence, symptomatic, Infective Endocarditis, Age 25 years from Medical Therapy to Surgical AVR to Transcatheter AVR(?), NY Cardiovascular Symposium, Major Topics in Cardiology Today, New York, NY
- January 2016 "Endovascular Arch Repair in Zone 0 and Zone Z Arch Disease", 52nd Annual Meeting, The Society of Thoracic Surgeons, Phoenix, AR
- January 2016 "New Technologies Available/On Horizon", 52nd Annual Meeting, The Society of Thoracic Surgeons, Phoenix, AR
- February 2016 “Isolated Aortic Valve Repair: Technical Options?”, Aortic Valve Repair: A Step-by-Step Approach, Paris, France.
- February 2016 “Bicuspid Aortic Valve Repair for Aortic Insufficiency with (and without) Proximal Aneurysm”. Grand Rounds, University of Texas Health Science Center, San Antonio, TX.
- March 2016 “Current State of Endovascular Management of Aortic Pathology”, 12th International Congress of Update in Cardiology and Cardiovascular Surgery with AHA Days, Antalya, Turkey.
- March 2016 “Valve Sparing Root Replacement: When and How?”, 12th International Congress of Update in Cardiology and Cardiovascular Surgery with AHA Days, Antalya, Turkey.
- March 2016 “Hybrid Arch Replacement – Contemporary Practice and Outcomes”, Society for Cardiothoracic Surgery in Great Britain and Ireland 80th Annual Meeting, Birmingham, England.
- March 2016 “Protecting the Brain During Arch Surgery”, Society for Cardiothoracic Surgery in Great Britain and Ireland 80th Annual Meeting, Birmingham, England.

Lectures by Invitation (past 5 years) (cont’d):

- March 2016 “Type B Aortic Dissection – State of the Art”, Society for Cardiothoracic Surgery in Great Britain and Ireland 80th Annual Meeting, Birmingham, England.
- March 2016 “Valve Sparing Root Surgery”, Tongariro Cardiac Surgery Meeting, Australian & New Zealand Society of Cardiac & Thoracic Surgeons, Taupo, New Zealand.
- March 2016 TAVI in 2016”, Tongariro Cardiac Surgery Meeting, Australian & New Zealand Society of Cardiac & Thoracic Surgeons, Taupo, New Zealand.

- March 2016 “Current Concepts in the Management of Type A Aortic Dissection”, Tongariro Cardiac Surgery Meeting, Australian & New Zealand Society of Cardiac & Thoracic Surgeons, Taupo, New Zealand.
- March 2016 “Contemporary Management for Type B Aortic Dissection”, Tongariro Cardiac Surgery Meeting, Australian & New Zealand Society of Cardiac & Thoracic Surgeons, Taupo, New Zealand.
- April 2016 “Opposing View – the Most Commonly Performed Mitral Intervention for Secondary MR in 10 Years will: Transcatheter Replacement” American College of Cardiology 65th Annual Scientific Session, Chicago, IL.
- April 2016 “ACC-Talk-The Horizon for Acute Type A”, American College of Cardiology 65th Annual Scientific Session, Chicago, IL.
- April 2016 “Are You Crazy – Repair a Bicuspid AV with AR? Evolving Options”, American College of Cardiology 65th Annual Scientific Session, Chicago, IL.
- April 2016 “Aortic Valve Repair During Root Replacement”, The 24th Annual Meeting of Asian Society for Cardiovascular and Thoracic Surgery (ASCVTS) in conjunction with 9th AATS/ASCVTS Postgraduate Course and 4th Asian Single Port VATS Symposium, Taipei, Taiwan.
- April 2016 “The Innovation Imperative in Cardiothoracic Surgery: Lessons From Thoracic Aortic Disease”, Grand Rounds, Hackensack University medical Center, Hackensack, NJ
- May 2016 “New Branched Arch Endografts: A More Complete Solution for DeBakey Type I?”, AATS Aortic Symposium 2016, New York, NY.
- May 2016 "Valve-Sparing Root Replacement for Severe AI of a Trileaflet Valve Requiring Cusp Repair" - Adult Cardiac Skills: Demystifying Complex Cardiac Surgery-Minimizing the Fear Factor - Case Presentation. AATS Annual Meeting, Baltimore, MD.
- May 2016 “Adult Cardiac Surgery Symposium: Debate: Valve Sparing Root Replacement - Pro: Always Spare the Valve. AATS Annual Meeting, Baltimore, MD.
- June 2016 “Surgeons on the Heart Team: Quarterbacks or Water Boys?- Quarterback” 42th Annual Meeting Western Thoracic Surgical Association, Waikoloa, Hawaii.

Lectures by Invitation (past 5 years) (cont'd):

- July 2016 “Debate: 45 Years old Female with BAV, Severe AI and Normal Aorta Dimension: I replace with a biological valve.” 2nd Aortic Valve Repair Summit (AVRS), Brussels, Belgium.
- August 2016 “Contemporary Global Perspective of Cardiothoracic Surgery”, 8th Joint Scandinavian Conference in Cardiothoracic Surgery, Reykjavik, Iceland.
- August 2016 “The Present and Future of Stent Graft Aortic Repair”, 8th Joint Scandinavian Conference in Cardiothoracic Surgery, Reykjavik, Iceland.

- August 2016 “Stent Grafts for Type A Dissection: A Surgeon’s View”, RomAorta, Rome, Italy.
- September 2016 Keynote Address: “The Cardiothoracic Surgeon on the Multi-Disciplinary ICU Team”, 13th Annual CME CVT Critical Care Conference, Washington, DC.
- October 2016 “When Not to Do a Primary Valve Repair/Re-Implantation”, 30th European Association for Cardiothoracic Surgery Annual Meeting, Barcelona, Spain.
- October 2016 “Aortic Arch – Hybrid Type II Arch DeBranching”, 30th European Association for Cardiothoracic Surgery Annual Meeting, Barcelona, Spain.
- October 2016 “The Future of Cardiovascular Surgery”, The 16th Chinese Society for Thoracic and Cardiovascular Surgery Annual Scientific Meeting (CSTCVS), organized by the Chinese Medical Association (CMA), Xi’an, China.
- October 2016 “TAVI Expansion to Intermediate and Low Risk Patients?”, The 16th Chinese Society for Thoracic and Cardiovascular Surgery Annual Scientific Meeting (CSTCVS), organized by the Chinese Medical Association (CMA), Xi’an, China.
- November 2016 “Do You Need a Super Fellowship?”, American Heart Association, Scientific Sessions, New Orleans, LA.
- November 2016 “Aortic Valve Repair Techniques: Leaflet Repair Alone, Annuloplasty Band, or VSARR”, American Heart Association, Scientific Sessions, New Orleans, LA.
- November 2016 “Convergence of Open Surgical and Transcatheter Therapies: How to Train the Valvular Interventionist of the Future?”, American Heart Association, Scientific Sessions, New Orleans, LA.
- November 2016 “Novel Endovascular Approaches for Type B Dissections”, American Heart Association, Scientific Sessions, New Orleans, LA.
- December 2016 “Symptomatic Severe Aortic Valvular Stenosis TVAR in Patients at High, Moderat or Low Risk”, NY Cardiovascular Symposium (ACC), New York, NY.

Lectures by Invitation (past 5 years) (cont’d):

- December 2016 “Symptomatic and Asymptomatic Secondar Mitral Regurgitation from Medical Therapy to Surgical MVR to Transcatheter MVR”, NY Cardiovascular Symposium (ACC), New York, NY.
- January 2017 “Quality and Innovation in Cardiothoracic Surgery: Imperatives Colliding?”, Presidential Address, 53rd Annual Meeting of the Society of Thoracic Surgeons, Houston, TX
- January 2017 “Aortic Valve Repair for Bicuspid Aortic Valve Techniques and Results”, 53rd Annual Meeting of the Society of Thoracic Surgeons, Houston, TX.

- January 2017 “Introduction to the Type B Dissection Treatment Conundrum”, 53rd Annual Meeting of the Society of Thoracic Surgeons, Houston, TX.
- February 2017 “BAV Repair with Reimplantation Root”, Houston Aortic Symposium, Houston, TX.
- February 2017 “Zone 2 Arch Concept with Sequential Branched Graft TEVAR for Definitive Solution to DeBakey 1 Dessection”, Houston Aortic Symposium, Houston, TX.
- March 2017 “2017 Update on TAVR”, Current Advances in Cardiovascular Care 2017, King of Prussia, PA.
- March 2017 “Bicuspid Aortic Valve and Aortopathy”, American College of Cardiology 66th Annual Scientific Session and Expo, Washington, DC.
- March 2017 “Isolated Aortic Valve Repair Valve Sparing Root Replacement for Aortic Dissection: Indications and Tips and Tricks” Live surgery. EACTS Master Class on Aortic Valve Repair: A Step-by-Step Approach, Paris, France.
- March 2017 “Valve Sparing Root Replacement for Aortic Dissection: Indications and Tips and Tricks Alternatives to Aortic Valve Repair in Young Adults”, EACTS – Master Class on Aortic Valve Repair: A Step-By-Step Approach, Paris, France.
- April 2017 “What I Learned About Cardiothoracic Surgery as the 2016 STS President”, Delaware Valley Society of Thoracic Surgeons Meeting, King of Prussia, PA.
- May 2017 “TAVR – New Tools, Traps and Results”, 2017 Australasian Thoracic Aortic Symposium, Melbourne, Australia.
- May 2017 “Reimplantation, Remodeling or Rings”, 2017 Australasian Thoracic Aortic Symposium, Melbourne, Australia.
- May 2017 “Trans-Aortic”, 2017 Australasian Thoracic Aortic Symposium, Melbourne, Australia.
- May 2017 “Extended Hemi-Arch”, 2017 Australasian Thoracic Aortic Symposium, Melbourne, Australia.
- May 2017 “Open TAA Repair for Dissection”, 2017 Australasian Thoracic Aortic Symposium, Melbourne, Australia.
- May 2017 “Total Endovascular Arch Repair”, 2017 Australasian Thoracic Aortic Symposium, Melbourne, Australia.

Lectures by Invitation (past 5 years) (cont'd):

- May 2017 “Update on CardiAQ”, AATS Mitral Conclave 2017, New York, NY.
- May 2017 “STS Adult Cardiac Surgery Database”, Montalcino Aortic Consortium (MAC) Summit, Borgo San Luigi, Monteriggioni, SI, Italy.
- June 2017 “How to Deal with the Dissected Arch”, Aorta Masterclass 2017, London, England.
- June 2017 “Reconstructive Surgery for Bicuspid Aortic Valve and Root Aneurysm with Re-Implantation/Leaflet Repair”, Aorta Masterclass 2017, London, England.

- June 2017 “Bicuspid Aortic Valve Repair and Outcomes”, Aortic Valve Repair Summit, Ottawa, Ontario, Canada.
- September 2017 “Valve Sparing Root Replacement in Patients with BAV: Long-Term Results”, 11th Current Trends in Aortic, Cardiac, and General Thoracic Surgery, Houston, TX.
- September 2017 “Universe of Dissection”, W.L. Gore - Type B Dissection Symposium, Philadelphia, PA
- September 2017 “New Frontiers in Treatment of Type A Dissection: Where are we Headed?”, Favaloro Cardiovascular Symposium, Buenos Aires, Argentina.
- September 2017 “Octogenarian with CAD and Aortic Stenosis Requiring Replacement. My Personal View for Intermediate/Low Risk Patients.”, Favaloro Cardiovascular Symposium, Buenos Aires, Argentina.
- September 2017 “Endovascular Repair for Type B Aortic Dissection”, Favaloro Cardiovascular Symposium, Buenos Aires, Argentina.
- September 2017 “New Approach for Type A Dissection with a Zone 2 Arch and Sequential Arch Branch TEVAR”, Favaloro Cardiovascular Symposium, Buenos Aires, Argentina.
- September 2017 “Quality and Innovation, Imperatives Colliding”, Favaloro Cardiovascular Symposium, Buenos Aires, Argentina.
- September 2017 “STS Going Global”, STS/EACTS Latin America Cardiovascular Surgery Conference, Cartagena, Colombia.
- September 2017 “Debate: SAVR for Low-Risk Patients in 2017: Obsolete?”, STS/EACTS Latin America Cardiovascular Surgery Conference, Cartagena, Colombia.
- September 2017 “Bicuspid Aortic Valve Repair”, STS/EACTS Latin America Cardiovascular Surgery Conference, Cartagena, Colombia.
- October 2017 “Bioprosthesis (or TAVR) is Better”, 2017 Heart Valve Summit, Chicago, IL.
- October 2017 “STS/ACC TVT Registry”, STS – Advances in Quality and Outcomes: A Data Manager’s Meeting, Chicago, IL.
- October 2017 “What is the Optimal Time Point and what are the Criteria for Open Conversion after Endovascular Aortic Repair?”, European Association for Cardio-Thoracic Surgery 31st Annual Meeting, Vienna, Austria.

Lectures by Invitation (past 5 years) (cont’d):

- October 2017 “The Surgical Treatment of the Aortic Arch of the 21st Century”, European Association for Cardio-Thoracic Surgery 31st Annual Meeting, Vienna, Austria.
- October 2017 “Aortic Arch Surgery”, European Association for Cardio-Thoracic Surgery 31st Annual Meeting, Vienna, Austria.
- October 2017 “Hybrid Repair for the Treatment of Acute DeBakey type I Dissection Will be the Gold standard”, European Association for Cardio-Thoracic Surgery 31st Annual Meeting, Vienna, Austria.
- October 2017 “Where is My Cut Off for Repair”, European Association for Cardio-Thoracic Surgery 31st Annual Meeting, Vienna, Austria.

- October 2017 “STS/ACC TVT Registry”, The Society of Thoracic Surgeons, Advances in Quality & Outcomes: A Data Managers Meeting, Chicago, IL.
- October 2017 “State of the Art in BAV Valve Repair with Root Aneurysm and Reimplantation”, Aortic Live, Hamburg, Germany.
- November 2017 “New Approach for Type I Dissection Repair with Zone 2 Arch and Sequential Arch Branched TEVAR”, 2017 Chinese Society for Thoracic and Cardiovascular Surgery Annual Scientific Meeting, Hangzhou, China.
- November 2017 “Bicuspid Aortic Valve (BAV) Repair with/without Reimplantation for Insufficiency (Composite Video Lecture)”, 2017 Chinese Society for Thoracic and Cardiovascular Surgery Annual Scientific Meeting, Hangzhou, China.
- November 2017 “TAVR: Radical and Revolutionary – 2017 Update from the Intermediate Risk Trials and the STS/ACC TVT Registry”, 2017 Chinese Society for Thoracic and Cardiovascular Surgery Annual Scientific Meeting, Hangzhou, China.
- November 2017 “How to Set Up a Retrospective Study Based on Data from a Clinical Registry”, 2017 Chinese Society for Thoracic and Cardiovascular Surgery Annual Scientific Meeting, Hangzhou, China.
- November 2017 “Update on the TBE (Gore) Branched Arch Graft: A Complete Trial Result”, Surgery of the Thoracic Aorta, Ninth Postgraduate Course, Bologna, Italy.
- December 2017 “The Odyssey of Trans-Catheter Aortic Valve Replacement; From Concept to Clinical Reality”, 50th Anniversary of the 1st Heart Transplant, Cape Town, South Africa.
- January 2018 "When do I Replace the Root in Those with Trileaflet and Bi-Leaflet Aortic Valve Disease", Society of Thoracic Surgeons 54th Annual Meeting, Fort Lauderdale, FL.
- January 2018 "The Repairs of the Bicuspid Aortic Valve on the Prognosis of Infected Young Adults", Society of Thoracic Surgeons 54th Annual Meeting, Fort Lauderdale, FL.

Lectures by Invitation (past 5 years) (cont'd):

- January 2018 "Introduction: BAV Repair with Proximal Aortic Aneurysm: Essential Controversies Revealed", Society of Thoracic Surgeons 54th Annual Meeting, Fort Lauderdale, FL.
- January 2018 "Fundamental Controversies in BAV Repair with Root Aneurysm", Society of Thoracic Surgeons 54th Annual Meeting, Fort Lauderdale, FL.
- February 2018 “Complex Aortic Valve Repair”, Penn Aortic Course, A Multi-Disciplinary Approach to Conquering Complex Aortic Disease, Philadelphia, PA.

- February 2018 “Management of Complicated and Non-Complicated thoracic Dissections”, Vascular Surgical Grand rounds, Winthrop University Hospital, Mineola, NY.
- February 2018 “Bavaria Approach to Type A Dissection”, The Houston Aortic Symposium-Frontiers in Cardiovascular Disease, the Eleventh in the series, Houston, TX.
- February 2018 “Innovative therapies for the Treatment of Aortic Disease (TEVAR & EVAR). Heart & Lung Institute Symposium, Southern Symposium on Cardiac Innovation, Chattanooga, TN.
- March 2018 “The Conceptual Type B Aortic Dissection universe: Order Out of Chaos”, Surgical Grand Rounds, Department of Surgery, New York Medical Center/Westchester Medical Center, Valhalla, NY.
- March 2018 “A View from the STS/ACC TVT Steering Committee”, CRT 2018, Washington DC.
- March 2018 “Bicuspid Aortic Valve Repair for AI (+/- Root Aneurysm)”, CRT 2018, Washington DC.
- April 2018 “State of the Field: Bicuspid Valve Repair for AR”, The Heart Valve Society Annual Scientific Meeting, New York, NY.
- April 2018 “Reimplantation of the Bicuspid Aortic Valve”, AATS Aortic Symposium, New York, NY.
- April 2018 “Type A Dissection”, AATS Aortic Symposium, New York, NY.
- April 2018 “Should Live Surgical Broadcasts Still be Considered Unethical?”, Surgical Ethics Course, AATS 98th Annual Meeting, San Diego, CA.
- May 2018 “Outcomes with Conventional Repair of Complicated Type A Dissections with Malperfusion”, AATS/STS Adult Cardiac Surgery Symposium,
- May 2018 “Innovation in Cardiovascular Surgery: Lessons from Thoracic Aortic Disease—achievements and future directions”, Cardiovascular Medicine Grand Round, Penn Medicine, Philadelphia, PA
- June 2018 “Bicuspid Valve Repair Debate: Symmetrical or Asymmetrical Repair to Ensure Long Term Stability?”, EACTS Aortic Valve Repair Summit, Paris, France.
- June 2018 “Innovation in Cardiac Surgery: Lessons from the Thoracic Aorta”, Festschrift Program for Tomas L. Spray, MD, Philadelphia, PA.

Lectures by Invitation (past 5 years) (cont'd):

- July 2018 “Acute Type A Dissection: A Life’s Work”, 51st Annual Scientific Program of the Florida Society of Thoracic & Cardiovascular Surgeons. Key Largo, FL.
- September 2018 “A Surgeons Perspective on BAV Treatment: Why Surgery is Preferred in Many Most BAV Patients. Transcatheter Cardiovascular Therapeutics (TCT) 2018, San Diego, CA.
- October 2018 “Status of Minimally Invasive Valve Technology and Endovascular Stent Grafts in the Genetically Triggered Aortopathy Patient”, The 5th GenTAC Thoracic Aortic Disease Summit, Portland, OR.

- October 2018 “TAVR: New Insights and Perspective from the National STS/ACC TVT Registry. The 18th Annual Scientific Meeting of Chinese Society for Thoracic and Cardiovascular Surgery, Shenyang, China.
- October 2018 “A New Paradigm for Repair of Type A Dissection: Zone 2 Arch Reconstruction with Sequential Branched LSA Graft TEVAR”. The 18th Annual Scientific Meeting of Chinese Society for Thoracic and Cardiovascular Surgery, Shenyang, China.
- October 2018 “Bicuspid Aortic Valve Repair in AI and Root Aneurysm”. The 18th Annual Scientific Meeting of Chinese Society for Thoracic and Cardiovascular Surgery, Shenyang, China.
- October 2018 “Development of Joint Guidelines in Type B Dissection: Why Do We Need It?”. 32nd European Association for Cardio-Thoracic Surgery Annual Meeting, Milan, Italy.
- October 2018 “When Not To Repair and What To Do When The Repair Falls – Live-In-A-Box”. 32nd European Association for Cardio-Thoracic Surgery Annual Meeting, Milan, Italy.
- October 2018 “TAVR Results, Trends, and Adoption In The US (2018): A Report From the STS/ACC TVT Steering Committee Chairman”. 32nd European Association for Cardio-Thoracic Surgery Annual Meeting, Milan, Italy.
- October 2018 “Quo Vadis Thoracic Aortic Surgery: The Role of Open and Endovascular Techniques in the Future (21st Century)”. 32nd European Association for Cardio-Thoracic Surgery Annual Meeting, Milan, Italy.
- October 2018 “The Dark Side of the Full Endovascular Arch Approach”. 32nd European Association for Cardio-Thoracic Surgery Annual Meeting, Milan, Italy.
- November 2018 “CMS Changes”. Michigan TAVR Collaborative Meeting, Novi, Michigan.
- November 2018 “How the STS National Database Impacts a Cardiothoracic Surgery Division”. STS/EACTS Latin America Cardiovascular Surgery Conference, Cartagena, Colombia.
- December 2018 “Case-in-Box: Bicuspid Aortic Valve Repair”. Dallas-Leipzig Meeting, Dallas, TX.

Lectures by Invitation (past 5 years) (cont'd):

- November 2018 “Is the Availability of New Aortic Devices Going to Change Our Index Operation for Type A Dissection?”. STS/EACTS Latin America Cardiovascular Surgery Conference, Cartagena, Colombia.
- November 2018 “To Do or Not to Do a Root in an Aortic Dissection”. STS/EACTS Latin America Cardiovascular Surgery Conference, Cartagena, Colombia.
- December 2018 “Case in a Box: Bicuspid Aortic Valve Repair”, Dallas-Leipzig Meeting, Dallas, TX

- January 2019 “Options and Dilemmas at the Arch in Type A Repair: Present and Future Considerations.”, The Society of Thoracic Surgeons, 55th Annual Meeting, San Diego, CA.
- January 2019 “Is the Availability of New Aortic Devices Going to Change Our Index Operation for Type A Dissection.”, The Society of Thoracic Surgeons, 55th Annual Meeting, San Diego, CA.
- March 2019 “TAVR: New Insights and Perspective from the National STS/ACC TVT Registry”, 2019 ATAS (Australasian Thoracic Aortic Symposium), Melbourne, Australia.
- March 2019 “Bicuspid Aortic Valve Repair in AI and Root Aneurysm”, 2019 ATAS (Australasian Thoracic Aortic Symposium), Melbourne, Australia.
- March 2019 “A New Paradigm for Repair of Type A Dissection Zone 2 Arch Reconstruction with Sequential Branched LSA Graft TEVAR”, 2019 ATAS (Australasian Thoracic Aortic Symposium), Melbourne, Australia.
- March 2019 “Quo Vadis thoracic Aortic Surgery: The Role of Open and Endovascular Techniques in the Future (21st)”. 2019 ATAS (Australasian Thoracic Aortic Symposium), Melbourne, Australia.
- March 2019 “Reconstructive Options at the Aortic Root During Type A Dissection Repair: Decision Making and Outcomes”, The Houston Aortic Symposium, Houston, TX.
- March 2019 “Zone 2 Arch for Type A Dissection with Sequential Branched TEVAR Completion: Recent Results from the FDA TBE Pivotal Trial”, The Houston Aortic Symposium, Houston, TX.
- April 2019 “There Should Be No Age Limit for TAVR vs SAVR”, The Heart Valve Society Annual Meeting, Sitges (Barcelona), Spain.
- May 2019 “Academic Conference: Live Surgery is Valuable”, American Association for Thoracic Surgery (AATS) 99th Annual Meeting, Toronto, Canada.
- May 2019 “Reoperative Aortic Valve and root Surgery: Tips and Tricks”, American Association for Thoracic Surgery (AATS) 99th Annual Meeting, Toronto, Canada.

Lectures by Invitation (past 5 years) (cont'd):

- May 2019 “The US National STS/ACC TVT Registry: Trends, Outcomes, and Insights (report from TVT Steering Committee Chairman), China Forum of Asian Academy of Heart Valve Disease 2019, Jinan, China.
- May 2019 “Challenges in the Arch: Hybrid Techniques in DeBakey Type I Dissections”, Simposio Aorta Norte 2019, Pamplona, Spain.
- June 2019 “Hybrid Approaches in Surgery for Acute Aortic Dissection”, Honored Lecture, Aortic Diseases in Naples 2nd International Meeting, Naples, Italy.

June 2019 “TEVAR in Acute Type A”, Liverpool Aortic Surgery Symposium VIII, Liverpool, England.

Invited Endowed Professor Lectures/Addresses

- March 2006 “Endovascular Repair of the Descending Thoracic Aortic Disease: Lessons Learned”. Visiting Professor, Annual John Templeton Lecturer, Jefferson Hospital, Department of Surgery, Philadelphia, PA.
- March 2006 “Proximal and Distal Thoracic Aortic Surgery: “New Stuff”. 1st Joseph Craver Visiting Professor Grand Rounds, Emory University Hospital, Atlanta, GA.
- May 2006 “Evolving Concepts in Aortic Root and Proximal Thoracic Aortic Surgery: New Stuff”, Visiting Professor, The 16th Annual Frank Randolph Johnston Lecture in Cardiothoracic Surgery, Wake Forest University School of Medicine, Winston-Salem, NC.
- August 2006 Concepts and Results of the Aortic Valve Sparing (Reimplantation) Operation: The Beginning of a Revolution.” 2006 Agustin Arbulu, M.D., PhD, Keynote Lecture of the Michigan Society of Thoracic & Cardiovascular Surgeons, Bellaire, MI.
- April 2007 “New Radical and Revolutionary: Concepts in Cardio-Aortic Root Reconstruction”. Visiting Professor, Duke University Medical Center.
- May 2009 “Radical and Revolutionary Transcatheter Aortic Valve Surgery: The Good, Bad, and Ugly”, Pellegrini Visiting Professor, University of Pittsburgh Medical Center, Pittsburgh, PA.
- May 2009 “Radical and Revolutionary Transcatheter Aortic Valve Surgery: The Good, Bad, and Ugly”, University of Toronto, Toronto General Hospital, Toronto, Canada.
- May 2010 “Radical and Revolutionary Transcatheter Valve Therapy: The Good, The Bad and the Ugly”, Stikeman Visiting Professor, Cardiovascular and Thoracic Surgery McGill University, Montreal, Quebec, Canada.
- September 2011 “Advances in Aortic Root Surgery Including Reparative Bicuspid Aortic Valve Techniques”, Visiting Professor, Annual Research Day, University of Western Ontario, Division of Cardiac Surgery, London Health Sciences Centre, London, Ontario, Canada.

Invited Endowed Professor Lectures/Addresses (cont'd)

- September 2011 “Advanced Aortic Root Surgery”, Invited Lecture, 4th Annual Alberta Cardiac Resident Workshop, Cardiac Surgery Training Program, University of Calgary, University of Alberta, Calgary, Canada.
- January 2012 “Transcatheter Aortic Valve Implantation (TAVI): Lessons Learned... The Good, The Bad, and the Ugly.”, Masters of Surgery – Lari Attai Visiting Professor, Department of Surgery, Montefiore The University Hospital, Bronx, NY.

- August 2012 “Aortic Surgery: A Lifetimes Work”, Victor Chang Memorial Lecture, 60th Annual Scientific Meeting of the Cardiac Society of Australia & New Zealand, Brisbane, Australia.
- May 2013 “An Evolving Revolution in Proximal Aortic Surgery: From Valve Sparing Root Reconstruction to TAVI”, Hubbard Visiting Professor in Cardiac Surgery, Brigham & Women’s, Boston, MA.
- May 2013 “Innovative Approaches to the Treatment of Aortic Aneurysmal Disease”, The Mortimer J. Buckley Lecture in Cardiac Surgery, Massachusetts General Hospital, Boston, MA.
- June 2013 “Integrating Innovation by Changing Culture”, Keynote Address, International Society for Minimally Invasive Cardiothoracic Surgery. Prague, Czech Republic.
- January 2014 “Innovative Approaches to the Treatment of Thoracic Aortic Disease: Achievements and Future Direction, A broad perspective of four new procedures that highlight innovation in cardio-aortic surgery. 2014 Dougan Family Lectureship Guest Speaker, Knight Cardiovascular Institute Oregon Health & Science University, Portland, OR.
- March 2014 “Long Term Results of Bicuspid Aortic Valve Repair”, Aortic Valve Repair: A Step by Step Approach, Paris, France.
- March 2014 “Innovative Approaches to the Treatment of thoracic Aortic Aneurysmal Disease: Achievements and Future Direction” Hugh E. Stephenson Jr., M.D., Department of Surgery, Grand Rounds, University of Missouri, Columbia, MO.
- November 2014 “Hospital of the University of Pennsylvania Experience with TAVR: The Efficacy of Hybrid Operating Rooms”, 2nd Annual Beebe Cardiothoracic Surgery Symposium Aortic Valvular Disease. Dewey Beach, DE.
- October 2015 “The Innovation Imperative in Cardiothoracic Surgery: Lessons from Thoracic Aortic Disease”, The 11th Annual Alan R. Hopeman Lectureship in Cardiothoracic Surgery, Denver, CO.
- October 2015 “The Innovation Imperative in Cardiothoracic Surgery: Lessons from Thoracic Aortic Disease”, John H. Gibbons, Jr., Lecture at the American College of Surgeons 101st Clinical Congress, Chicago, IL
- June 2016 “Thoracic Aortic Surgery: A Life’s Work”, The Forty-Fourth Annual Fergusson-Burford Lectureship in Cardiothoracic Surgery, Washington University School of Medicine, St. Louis, MO.
- August 2016 “Future of Cardiothoracic and Vascular Surgery”, 2016 Sir Magdi Yacoub Lecture, The Michigan Society of Thoracic & Cardiovascular Surgeons, 51st Annual Summer Meeting. Boyne Falls, MI.

Invited Endowed Professor Lectures/Addresses (cont’d)

- October 2016 “Bicuspid Valve Repair for Aortic Insufficiency: Cusp Repair and Root Reconstruction”, The 27th Annual Arthur DeBoer, MD Visiting Professor Lectureship, Northwestern Memorial Hospital, Chicago, IL.
- October 2016 “Fate of Dissected Aortic Arch After Ascending Replacement in Acute Type A Aortic Dissection”, Keynote Lecture, The 16th Chinese Society

- for Thoracic and Cardiovascular Surgery Annual Scientific Meeting (CSTCVS), organized by the Chinese Medical Association (CMA), Xi'an, China.
- August 2017 "Innovation and Quality in Surgery: Imperatives Colliding?", Julian Johnson Lectureship, Department of Surgery Grand Rounds, Hospital of the University of Pennsylvania, Philadelphia, PA.
- November 2017 "Cardiovascular Outcomes Reporting: An Informed Public, Naked Practitioners, and Unintended Consequences", Philadelphia Cardiovascular Summit 2017, Philadelphia, PA.
- October 2017 "Type A Dissection: New and Evolving Conceptual Adjustments to a Classically Inspired Operation", 2nd Annual Dana and Albert "Cubby" Broccoli Lecture in Aortic Disease, Johns Hopkins University School of Medicine, Department of Surgery Grand Rounds, Baltimore, MD.
- October 2017 "Type A Dissection: New and Evolving Adjustments to a Classical Inspired Operations", 28th Annual John W. Kirklin Visiting Professor in Cardiac Surgery and Related Problems, Mayo Clinic, Department of Cardiovascular, Rochester, MN.
- October 2017 "Quo Vadis Cardiovascular Surgery: The Role of Open and Endovascular Techniques in the Future", Keynote Lecture, Aortic Live, Hamburg, Germany.
- January 2018 "Aortic Dissection: A life's Journey", The Inaugural Grant and Shirille Herron Chair Visiting Professor Lecture in Thoracic and Cardiovascular Surgery, University of Florida College of Medicine, Gainesville, FL.
- May 2018 "The Innovation Imperative in Cardiovascular Surgery: Lessons from Thoracic Aortic Disease", 1st Annual Paul J. Corso Visiting Professorship, Medstar Washington Hospital Center, Washington, DC.
- May 2018 "Quality and Innovation in Cardiothoracic Surgery: Imperatives Colliding?", Cardiovascular Medicine Grand Rounds Cleman Lecture Series, Yale University School of Medicine.
- April 2019 "Quo Vadis Thoracic Aortic Surgery", Grand Rounds, Claude Craighead Visiting Professorship, New Orleans, LA.

Organizing Roles in Scientific Meetings:

- 2002 American Heart Association, Session Builder
- 2000-2003 Program Chairman for The Pennsylvania Association for Thoracic Surgery Meetings
- 2000-2003 Moderator for the American Heart Association Scientific Sessions

Organizing Roles in Scientific Meetings (Cont'd):

- 2004 Program Director, Penn Cardiac Valve Symposium, University of Pennsylvania
- 2004 Program Director, CarboMedics AVSI "Art of Ascending Aortic Surgery", University of Pennsylvania Health System
- 2005 Program Director, STS University (Adult Valve Course)
- 2005 Program Director, Redo Cardiac Surgery in Adults, San Francisco, CA

- 2005 Program Director, CarboMedics AVSI “Art of Ascending Aortic Surgery”, University of Pennsylvania Health System
- 8/2005 Program Director, The Society of Thoracic Surgeons, Thoracic Endografting Symposium
- 12/2005 Program Director, The Society of Thoracic Surgeons, Thoracic Endografting Symposium
- 2006 Program Director, STS University (Adult Valve Course)
- May 2006 Program Director, Society of Thoracic Surgeons, Thoracic Endografting Symposium
- 2006-2011 Program Director, CarboMedics AVSI “Art of Ascending Aortic Surgery”, University of Pennsylvania Health System
- July 2007 Program Director, Society of Thoracic Surgeons, Thoracic Endografting Symposium
- 2010 Councilor and Program Committee, Society of Heart Valve Disease, “Valves in the Heart of the Big Apple VI, Evaluation and Management of Valvular Heart Diseases 2010, Second Annual Joint Scientific Meeting of the Heart Valve Society of America and Society of Heart Valve Disease
- 2010 Program Committee, Co-Course Director, Aortic Symposium
- 2010 Scientific Committee, Transcatheter Cardiovascular Therapeutics Annual Meeting
- 12/2010 Course Director, the Society of Thoracic Surgeons, Transcatheter
- 3/2011 Course Director, the Society of Thoracic Surgeons, Transcatheter Heart Valve Therapies Symposium.
- 6/2011 Course Director, the Society of Thoracic Surgeons, Transcatheter Heart Valve Therapies Symposium.
- 10/2011 Program Director, ACCF/STS Transcatheter Heart Valve (THV) Symposium
- 12/2011 Program Director, ACCF/STS Transcatheter Heart Valve (THV) Symposium
- 1/2012 Course Director, STS Transcatheter Heart Valve (THV) Symposium
- 4/2013 Course Director, STS Transcatheter Heart Valve (THV) Symposium
- 5/2013 Course Director, Cardiovascular Care & Innovations: An Update for the Healthcare Professional, Brandywine Valley Cardiology and Hospital of the University of Pennsylvania.
- 10/2013 Co-Course Director, CVI’s 20th Anniversary Cardiology Update: Clinical Management of Heart Disease 2013

Organizing Roles in Scientific Meetings (Cont’d):

- 4/2014 Co-Director, AATS Aortic Symposium
- 5/2014 Program Executive Committee, Valves in the Heart of the Big Apple VIII
- 5/2015 Course Director, 1st North American Aortic Valve Repair Symposium
- 5/2016 Program Co-Chair, AATS Aortic Symposium
- 9/2016 Course Director, 1st North American Aortic Valve Repair Symposium

Bibliography:

Research Publications, Peer-Reviewed:

1. **Bavaria JE**, Ratcliffe MB, Gupta KB, Wenger RK, Bogen DK, Edmunds LH Jr. Changes in left ventricular systolic wall stress during biventricular circulatory assistance. *Ann Thorac Surg* 45(5):526-532, May 1988.
2. Wenger RK, **Bavaria JE**, Ratcliffe MB, Bogen D, Edmunds LH Jr. Flow dynamics of peripheral venous catheters during extracorporeal membrane oxygenation with a centrifugal pump. *J Thorac Cardiovasc Surg* 96(3):478-484, Sept. 1988.
3. Gupta KB, **Bavaria JE**, Ratcliffe MB, Edmunds LH Jr, Bogen DK. Measurement of end-systolic pressure-volume relations by intra-aortic balloon occlusion. *Circulation* 80(4):1016-1028, Oct. 1989.
4. Markovitz LJ, Savage EB, Ratcliffe MB, **Bavaria JE**, Kreiner G, Iozzo RV, Hargrove WC, Bogen DK, Edmunds LH Jr. Large animal model of left ventricular aneurysm. *Ann Thorac Surg* 48(6):838-845, Dec. 1989.
5. Kreiner G, Gottlieb CD, I-Tien Yeh, Furukawa S, Miller JM, Edmunds LH Jr, **Bavaria JE**, Hargrove WC, Tyson GS: Ventricular tachycardia in an ovine model of left ventricular aneurysm. *Surgical Forum* 219-221, 1989.
6. **Bavaria JE**, Furukawa S, Kreiner G, Gupta KB, Streicher J, Edmunds LH, Jr. Effect of circulatory assist devices on stunned myocardium. *Ann Thorac Surg* 49(1):123-128, Jan. 1990.
7. Furukawa S, **Bavaria JE**, Kreiner G, Edmunds LH Jr. Relationship between total mechanical energy and oxygen consumption in stunned myocardium. *Ann Thorac Surg* 49(4):548-549, Apr. 1990.
8. **Bavaria JE**, Furukawa S, Kreiner G, Ratcliffe MB, Bogen DK, Edmunds LH Jr. Myocardial oxygen utilization after reversible global ischemia. *J Thorac Cardiovasc Surg* 100(2):210-220. Aug. 1990.
9. **Bavaria JE**, Miller JM, Josephson ME, Hargrove WC III. Endocardial resection in the treatment of ventricular tachycardia secondary to cardiac trauma. *J Cardiovasc Surg* 32(1):50-52, Jan./Feb. 1991.
10. Ratcliffe MB, **Bavaria JE**, Wenger RK, Bogen DK, Edmunds LH Jr. Left ventricular mechanics of ejecting, post-ischemic hearts during left ventricular circulatory assistance. *J Thorac Cardiovasc Surg* 101(2):245-255, Feb. 1991.
11. Furukawa S, Kreiner G, **Bavaria JE**, Streicher J, Edmunds LH Jr. Recovery of oxygen utilization efficiency after global myocardial ischemia. *Ann Thorac Surg* 52(5):1063-1068, Nov. 1991.

Research Publications, Peer-Reviewed (cont'd):

12. Kahn MJ, Luginbuhl W, Gaines I, Bratschi J, **Bavaria JE**, Kaiser L, Treat J. Leukocytosis associated with all trans-retinoic acid therapy in metastatic non-small cell lung cancer. *J Natl Cancer Inst* 84(21):1669-1671, Nov. 1992.
13. Kaiser LR, **Bavaria JE**. Complications of thoracoscopy. *Ann Thorac Surg* 56(3):796-798, Sept. 1993.
14. Smythe WR, **Bavaria JE**. Tetracycline pleurodesis - associated acute renal failure. *Chest* 104(4):1274-1276, Oct. 1993.

15. Edmunds LH, Herrmann HC, DiSesa VJ, Ratcliffe MB, **Bavaria JE**, McCarthy DM. Left ventricular circulatory assistance without thoracotomy: Clinical experience with the Dennis Method. *Ann Thorac Surg* 57(4):880-885, Apr. 1994.
 16. van Hoesen KH, Kellogg K, **Bavaria JE**. Pulmonary metastasis from histologically benign giant-cell tumor of the bone. Report of a class diagnosed by fine needle aspiration cytology. *Acta Cytol* 38(3):3:410-414, May/June 1994.
 17. Smythe WR, **Bavaria JE**, Hall RA, Kline G, Kaiser LR. Thoracoscopic removal of mediastinal parathyroid adenoma. *Ann Thorac Surg* 59(1):236-238, Jan. 1995.
 18. Hall RA, Salhany KE, LaBel E, **Bavaria JE**, Kaiser LR. Fungal pulmonary abscess in an adult secondary to hyperimmunoglobulin E (Job's) Syndrome. *Ann Thorac Surg* 59(3):759-761, Mar. 1995.
 19. Downing SW, **Bavaria JE**. Intraperitoneal migration of an AICD generator placed in a poster rectus pocket. *Ann Thorac Surg* 59(3):786-787, Mar. 1995.
 20. Pilewski JM, Engelhardt JF, **Bavaria JE**, Kaiser LR, Wilson JM, Albelda SM. Adenovirus-mediated gene transfer to human bronchial submucosal glands using xenografts. *Am J Physiol* 268(4 Pt 1):L657-665, Apr. 1995.
 21. Levy WJ, Levin SK, **Bavaria JE**. Cerebral oxygenation during retrograde perfusion. *Ann Thorac Surg* 60(1):184-186, July 1995.
 22. **Bavaria JE**, Woo YJ, Hall RA, Carpenter JP, Gardner TJ. Retrograde cerebral and distal aortic perfusion during ascending and thoracoabdominal aortic operations. *Ann Thorac Surg* 60(2):345-353, Aug. 1995.
 23. Smythe WR, LeBel E, Pilewski J, **Bavaria JE**, Kaiser LR, Albelda SM. Integrin expression in non-small cell carcinoma of the lung. *Cancer Metastasis Rev* 14(3):229-239, Sept. 1995.
 24. Deboer DA, Margolis ML, Livornese D, Bell KA, Livolsi VA, **Bavaria JE**. Pulmonary venous aneurysm presenting as a middle mediastinal mass. *Ann Thorac Surg* 61(4):1261-1262, Apr. 1996.
 25. Montone KT, Litzky LA, Wurster A, Kaiser L, **Bavaria JE**, Kotloff R, Palevsky H, Pietra GG, Tomaszewski JE. Analysis of Epstein-Barr virus-associated post-transplant lymphoproliferative disorder after lung transplantation. *Surgery* 199(5):544-551, May 1996.
 26. Mittal S, Berko B, **Bavaria JE**, Herrmann HC. Radiation-induced cardiovascular dysfunction. *Am J Cardiol* 78(1):114-115, July 1996.
 27. DiPierro FV, **Bavaria JE**, Lankford EB, Polidori DJ, Acker MA, Streicher J, Gardner TJ. Triiodothyronine optimizes sheep ventriculoarterial coupling for work efficiency. *Ann Thorac Surg* 62(3):662-669, Sept. 1996.
- Research Publications, Peer-Reviewed (cont'd):
28. Stecker MM, Cheung AT, Patterson T, Savino JS, Weiss SJ, Richards RM, **Bavaria JE**, Gardner TJ. Detection of stroke during cardiac operations with somatosensory evoked responses. *J Thorac Cardiovasc Surg* 112(4):962-972, Oct. 1996.
 29. **Bavaria JE**, Woo YJ, Hall RA, Wahl PM, Acker MA, Gardner TJ. Circulatory management with retrograde cerebral perfusion for acute type A aortic dissection. *Circulation* 94{9 Suppl}:II173-176, Nov. 1996.

30. Treat J, Friedland D, Luginbuhl W, Meehan L, Gorman G, Miller W, **Bavaria JE**, Kaiser L. Phase II trial of all-trans retinoic acid in metastatic non-small cell lung cancer. *Cancer Invest* 14(5):415-420, 1996.
 31. Kotloff RM, Tino G, **Bavaria JE**, Palevsky HI, Hansen-Flaschen JH, Wahl P, Kaiser LR. Bilateral lung volume reduction surgery for advanced emphysema: A comparison of median sternotomy and thoracoscopic approaches. *Chest* 110(6):1399-1406, Dec. 1996.
 32. **Bavaria JE**, Kotloff R, Palevsky H, Rosengard B, Roberts JR, Wahl PM, , Blumenthal N, Archer, C, Kaiser LR. Bilateral versus single lung transplantation for chronic obstructive pulmonary disease (COPD). *J Thorac Cardiovasc Surg* 113(3):520-528, Mar. 1997.
 33. Stecker MM, **Bavaria JE**, Barclay DK, Weiss SJ, Pochettino A, Cheung AT. Carotid dissection with acute aortic dissection. *J Neurovasc Dis* 2(4):166-171, July/Aug. 1997.
 34. **Bavaria JE**, Pochettino A. Retrograde Cerebral Perfusion (RCP) in Aortic Arch Surgery: Efficacy and Possible Mechanisms of Brain Protection. *Semin Thor Cardiovasc Surg* 9(3):222-232, July 1997.
 35. Tuchman M, Lichtenstein GR, Rajagopal BS, McCann MT, Furth EE, **Bavaria JE**, Kaplan PB, Gibson JB, Berry GT. Hepatic glutamine synthetase deficiency in fatal hyperammonemia after lung transplantation. *Ann Intern Med* 127(6):446-449, Sept. 15, 1997.
 36. Edelman JD, **Bavaria JE**, Palevsky HI, Litzky LA, Kaiser L, Kotloff RM. Bilateral sequential lung transplantation for pulmonary alveolar microlithiasis. *Chest* 112(4):1140-1144, Oct. 1997.
 37. Smythe WR, Wasfi D, **Bavaria JE**, Albelda SM, Kaiser LR. Loss of alpha-V integrin expression and recurrence in node-negative lung carcinoma. *Ann Thorac Surg* 64(4):949-953, Oct. 1997.
 38. Golden, MA, Vaughn DJ, Crooks GW, Holland GA, **Bavaria JE**. Aortic dissection in a patient receiving chemotherapy for Hodgkin's Disease. *Angiology* 48(12):1063-1065, Dec. 1997.
 39. Pochettino A, **Bavaria JE**. Anterior axillary muscle-sparing thoracotomy for lung transplantation. *Ann Thorac Surg* 64(6):1846-1848, Dec. 1997.
 40. Kotloff RM, Tino G Hansen-Flaschen J, Palevsky H, Wahl P, Manaker S, Kaiser L, **Bavaria J**. Short-term functional outcomes following unilateral versus bilateral lung volume reduction surgery. *Am J Resp Crit Care Med* 155:1602, 1997.
 41. **Bavaria JE**, Pochettino A, Kotloff R, Rosengard BR, Wahl PM, Palevsky H, Kaiser LR. Effect of volume reduction on lung transplant timing and selection for chronic obstructive pulmonary disease. *J Thorac Cardiovasc Surg* 115(1):9-18, Jan. 1998.
 42. Roberts JR, **Bavaria JE**, Abbott PS, Friedberg JS, Lanutti ME, Smythe WR, Kaiser LR. Resection of a pulmonary malignancy invading the intrapericardial inferior vena cava. *Ann Thorac Surg* 65(1):263-265, Jan. 1998.
- Research Publications, Peer-Reviewed (cont'd):
43. Kotloff RM, Tino G, Palevsky HI, Hansen-Flaschen J, Wahl PM, Kaiser LR, **Bavaria JE**. Comparison of short-term functional outcomes following unilateral and bilateral lung volume reduction surgery. *Chest* 113(4):890-895, Apr. 1998.
 44. Stewart AS, Smythe WR, Aukburg S, Kaiser LR, Fox KR, **Bavaria JE**. Severe acute extrinsic airway compression by mediastinal tumor successfully managed with extracorporeal membrane oxygenation. *ASAIO J* 44(3):219-221, May/June 1998.

45. Cheung AT, **Bavaria JE**, Weiss SJ, Patterson T, Stecker MM. Neurophysiologic effects of retrograde cerebral perfusion used for aortic reconstruction. *J Cardiothorac Vasc Anesth* 12(3):252-259, June 1998.
 46. Christie J, **Bavaria JE**, Palevsky HI, Litzky L, Blumenthal N, Kaiser LR, Kotloff R. Primary graft failure following lung transplantation. *Chest* 114(1):51-60, July 1998.
 47. Smythe WR, **Bavaria JE**, Kaiser LR. Mediastinoscopic subtotal removal of mediastinal cysts. *Chest* 114(2):614-617, Aug. 1998.
 48. Roberts JR, **Bavaria JE**, Wahl P, Wurster A, Friedberg JS, Kaiser LR. Comparison of open and thoracoscopic bilateral volume reduction surgery: complications analysis. *Ann Thorac Surg* 66(5):1759-1765, Nov. 1998.
 49. Stecker MM, Cheung AT, Barclay DK, Berlin JA, Grossman RI, Hurst R, Hirsch J, **Bavaria JE**, Gardner TJ, Savino JS: Timing and laterality of strokes associated with cardiac operations. *J Neurovasc Dis* 3(5):203-218, 1998.
 50. **Bavaria JE**, Pochettino A, Wahl PM, Hall RA, Acker M, Gardner TJ. Aortic arch reconstruction with retrograde cerebral perfusion. *J PA Ass'n Thorac Surg* 6:16-25, 1998.
 51. Cheung AT, **Bavaria JE**, Pochettino A, Weiss SJ, Barclay DK, Stecker MM. Oxygen delivery during retrograde cerebral perfusion in humans. *Anesth Analg* 88(1):8-15, Jan. 1999.
 52. Naunheim KS, Kaiser LR, **Bavaria JE**, Hazelrigg SR, Magee M, Landreneau RJ, Osterloh J, Keller CA. Long-term survival following thoracoscopic lung volume reduction: A multi-institutional review. *Ann Thorac Surg* 68(6):2026-2032, Dec. 1999.
 53. Velazquez OC, **Bavaria JE**, Pochettino A, Carpenter JP. Emergency repair of thoracoabdominal aortic aneurysms with immediate presentation. *J Vasc Surg* 30(6):996-1003, Dec. 1999.
 54. Lichtenstein GR, Yang YX, Nunes FA, Lewis J, Tuchman M, Tino G, Kaiser LR, Palevsky HI, Kotloff R, Furth EE, **Bavaria JE**, Stecker MM, Kaplan P, Berry GT. Fatal hyperammonemia after orthotopic lung transplantation. *Ann Intern Med* 132(4):283-287, Feb. 15, 2000.
 55. Lowdermilk GA, Keenan RJ, Landreneau RJ, Hazelrigg SR, **Bavaria JE**, Kaiser LR, Naunheim KS. Comparison of clinical results for unilateral and bilateral thoracoscopic lung volume reduction. *Ann Thorac Surg* 69:1670-1674, June 2000.
 56. Keane MG, Wiegers SE, Yang E, Ferrari VA, St. John Sutton MG, **Bavaria JE**. Structural determinants of aortic regurgitation in Type A dissection and the role of valvular resuspension as determined by intraoperative transesophageal echocardiography. *Am J Cardiol* 2000 Mar. 1;85(5):604-10.
 57. Bridges CR, Gorman RC, Stecker MM, **Bavaria JE**. Acute Type A aortic dissection: retrograde perfusion with left superior vena cava. *Ann Thorac Surg* 69(6):1940-1941, June 2000.
 58. Naunheim KS, Hazelrigg SR, Kaiser LR, Keenan RJ, **Bavaria JE**, Landreneau RJ, Osterloh J, Keller CA. Risk analysis for thoracoscopic lung volume reduction: a multi-institutional experience. *Eur J Cardiothorac Surg* 17(6):673-679, June 2000.
- Research Publications, Peer-Reviewed (cont'd):
59. Keane MG, Wiegers SE, Plappert T, Pochettino A, **Bavaria JE**, St. John Sutton MG. Bicuspid aortic valves are associated with aortic dilatation out of proportion to coexistent valvular lesions. *Circulation*. 102(19 suppl 3):III35-39, Nov. 7, 2000.

60. Pochettino A, Kotloff RM, Rosengard BR, Arcasoy SM, Blumenthal NP, Kaiser LR, **Bavaria JE**. Bilateral versus single lung transplantation for chronic obstructive pulmonary disease: intermediate-term results. *Ann Thorac Surg* 70(6):1813-1819, Dec. 2000.
 61. Stecker MM, Cheung AT, Pochettino A, Kent GP, Patterson T, Weiss SJ, **Bavaria JE**. Deep hypothermic circulatory arrest: I. Effects of cooling on electroencephalogram and evoked potentials. *Ann Thorac Surg* 71(1):14-21, Jan. 2001.
 62. Stecker MM, Cheung AT, Pochettino A, Kent GP, Patterson T, Weiss SJ, **Bavaria JE**. Deep hypothermic circulatory arrest: II. Changes in electroencephalogram and evoked potentials during rewarming. *Ann Thorac Surg*. 71(1):22-28, Jan. 2001.
 63. Cheung AT, Weiss SJ, Kent G, Pochettino A, **Bavaria JE**, Stecker MM. Intra-operative seizures in cardiac surgical patients undergoing deep hypothermic circulatory arrest monitoring with EEG. *Anesthesiology* 94(6):1143-1147, June 2001.
 64. Shrager JB, Kozyak BW, Roberts JR, **Bavaria JE**, Friedberg JS, Kaiser LR, Rosengard BR. Successful experience with simultaneous lung volume reduction and cardiac procedures. *J Thorac Cardiovasc Surg* 122(1):196-197, July 2001.
 65. Arcasoy SM, Christie JD, Pochettino A, Zisman DA, Rosengard BR, Blumenthal NP, Palevsky HI, **Bavaria JE**, Kotloff RM. Characteristics and outcomes of patients with sarcoidosis listed for lung transplantation. *Chest*. 120(3):873-880, Sept. 2001.
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Patents:

Two patents nested within the Penn Center for Innovation: 1. Patent on a combined TAVR and TEVAR device for endo Bentall procedure, 2. Patent on a screening blood study for aortic aneurysms in genetically triggered conditions using S-RAGE.