

CURRICULUM VITAE

Keith A. Horvath, M.D.

Sr. Director, Clinical Transformation

Association of American Medical Colleges
655 K Street NW Suite 100
Washington, DC 20001
Phone: (202) 677- 4006
Fax: (202) 741-0970
Email: khorvath@aamc.org

Education

College	University of Chicago	B.A. Biology	1983
Medical School	University of Chicago Pritzker School of Medicine	M.D.	1987

Postgraduate Training

Resident, General Surgery Brigham and Women's Hospital, Boston, MA	1987-94
Resident Cardiothoracic Surgery Brigham and Women's Hospital, Boston, MA	1994-96

Fellowships

Research Fellow Wellman Laboratories of Photomedicine Massachusetts General Hospital, Boston, MA	1989-91
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Teaching Assistantships

Mammalian Biology	1982-83
Cell and General Pathology	1986
Physical Diagnosis	1987, 1997-04
Animal Surgery	1987
Anatomy Laboratory: Heart & Mediastinum	2003

Board Certification

American Board of Surgery Certification #40042	1995
American Board of Thoracic Surgery Certification #5960	1997
American Board of Thoracic Surgery Recertification	2006
American Board of Thoracic Surgery Recertification	2015

Licensure

Illinois State Medical License #036-093707	1996-04
Maryland State Medical License #D0062283	2004-

Honors and Awards

Olga Bush Scholar	1982
Summa cum Laude	1983
Phi Beta Kappa	1983
Senior Scientific Seminar Honors	1983
Franklin McClean Research Award	1987
Joseph Collins Foundation Scholarship	1984-87
Resident Research Award for Cardiovascular Research, ASLMS	1991-92
John A. Dixon Citation for Research, ASLMS	1992
Francis D. Moore Residency Teaching Award, BWH	1994
American College of Surgeons Faculty Research Fellowship	1999-2001
NHLBI Star Award	2008
Washingtonian’s “Top Doctors”	2009-
US News and World Report, Best Physicians	2010-
SuperDoctors	2010-
Guide to America’s Top Surgeons	2011-
Vitals Compassionate Doctor Award	2014
Vitals.com Patient Choice Award	2015-

Academic Appointments

Director, Cardiothoracic Surgery Research Program, NHLBI	2004-17
Chief, Cardiothoracic Surgery, NIH Heart Center @Suburban Hospital	2004-17
Adjunct Professor, Johns Hopkins University	2015-
Adjunct Associate Professor, Johns Hopkins University	2004-15
Associate Professor, Northwestern University	2002-04
Assistant Professor, Northwestern University	1996-02

Hospital Staff Appointments

Clinical Research Center, NIH	2004-17
Suburban Hospital	2004-17
Johns Hopkins Hospital	2004-17
Northwestern Memorial Hospital	1996-04
VA Lakeside Medical Center	1996-04
Evanston Hospital	1999-04

Committee Service

<u>Maryland Cardiac Surgery Quality Initiative</u>	
Board Member	2013-17
Co-chairman, Quality Committee	2014-17

National Institutes of Health

Surgery and Anesthesia Committee, NHLBI representative 2004-17

Suburban Hospital

Medical Executive Committee 2005-17

Antibiotic Subcommittee of Pharmacy and Therapeutics Committee 2005-09

Operating Room Committee 2005-17

Cardiothoracic Collaborative Committee 2006-17

Northwestern University Medical School

Executive Curriculum Committee 1996-97

Department of Surgery Quality Management Committee 1996-04

Physician's Advisory Group 1996-04

Resident Research Committee 1996-97

Minimally Invasive Surgery Oversight Committee 1998-99

Surgery Residency Advisory Committee 1998-04

Teaching Education Coordinator, Division of Cardiothoracic Surgery 1998-04

Search Committee, Chief of Radiology 2000

Antibiotics and Surgery Committee 2001

Medical Faculty Senate Council - Department of Surgery Representative 2003-04

Department of Surgery - Surgical Research Leadership Council 2003-04

Northwestern Medical Faculty Foundation

Quality Assurance Committee 2001-04

Professional and Scientific ActivityAmerican Heart Association

Board of Directors, Greater Washington Region 2006-11

Leadership Committee for the Cardiothoracic and
Vascular Surgery Scientific Council 2000-03

Assembly Delegate Committee 2002-04

Membership and Communications Committee,
Of the Council on Cardiovascular Surgery and Anesthesia 2003-05

Radiology, Imaging and Surgery Study Group 2005-06

Society of Thoracic Surgeons

Workforce on Nomenclature and Coding 2001-06

Health Policy and Relationships 2002-06

Representative to the RVBRS Utilization Committee 2000-04

Representative to the Practice Expense Advisory Committee 2003

Workforce on National Databases 2004-06, '08-15

Workforce on Research and Clinical Trials 2005-10

Representative to the National ICD Registry Working Group 2005

Workforce on Health Policy, Reform and Advocacy 2010-16

Workforce on Research Development 2011-17

Representative to the Maryland Health Care Commission CAG 2011-16

The Thoracic Surgery Foundation for Research & Education

Research Committee of the Foundation	2002-05
<u>American Board of Thoracic Surgery</u> Examination Consultant Committee – Cardiac Subcommittee	2004
<u>American Medical Foundation for Peer Review & Education</u> Peer Review Consultant	2004-05
<u>American Association for Thoracic Surgery</u> Scientific Affairs and Government Relations Committee Workforce on Health Policy, Reform and Advocacy	2005- 2010-16
<u>National Quality Forum</u> Cardiovascular Surgery Quality Measure Committee	2005
<u>Food and Drug Administration</u> Circulatory Devices Panel Consultant	2015-
<u>Centers for Medicare and Medicaid Services</u> Cardiovascular Disease Management Clinical Subcommittee	2017-

Society Memberships

Associate Fellow, American Society for Laser Medicine and Surgery	1991-96
Fellow, American Society for Laser Medicine and Surgery	1996-04
Association for Academic Surgery	1992-
American Heart Association	1994-
Cardiothoracic and Vascular Surgery Scientific Council, AHA	1994-00
21st Century Cardiac Surgical Society	1996-10
Fellow, American College of Chest Physicians	1998-
Chicago Surgical Society	1998-04
Fellow, American College of Cardiology	1999-
Fellow, American College of Surgeons	1999-
Charter Member, Chicago Minimally Invasive Surgery Society	1999-04
The University of Chicago Surgical Society	1999-
International Society for Minimally Invasive Cardiac Surgery	1999-
The Society of Thoracic Surgeons	1999-
Fellow, American Heart Association	2002-
American Association for Thoracic Surgeons	2002-
The Society of University Surgeons	2003-
Cardiac Surgery Biology Club	2004-
Southern Thoracic Surgical Association	2005-
Washington DC Clinco-Pathological Society	2006-16
Fellow, Int'l Academy of Clinical & Applied Thrombosis/Hemostasis	2007-
American Surgical Association	2009-

Board Memberships

Councilor of the Illinois Chapter of the American College of Cardiology	2000-03
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Editorial Appointments

Guest Editor, Seminars in Thoracic and Cardiovascular Surgery	1999
Editorial Board, Cardiac and Vascular Regeneration	2000-01
Contributing Editor, Cardiovascular Nursing 2 nd ed.	2000
Editorial Board, Heart Surgery Forum	2001-03
Consulting Editor, CT Surgery Coding, Billing & HIPAA Alert	2003-05
Editorial Board, Asian Cardiovascular and Thoracic Annals	2005-09
Editorial Board, Innovations	2005-10
Guest Editor, Seminars in Thoracic and Cardiovascular Surgery	2006
Co-editor, Myocardial Laser Revascularization	2006
Editorial Board, Journal of Cardiac Surgery	2006-14
Editorial Board, American Journal of Medical Quality	2017-

Invited Reviewer

Journal of Thoracic and Cardiovascular Surgery	1995-
The Annals of Thoracic Surgery	1996-
The Journal of Vascular Surgery	1996-
The Journal of Heart and Lung Transplantation	1996-
The Thoracic and Cardiovascular Surgeon	1999-03
The Lancet	1999
Circulation	1999-
Journal of the American College of Cardiology	1999-
Asian Cardiovascular and Thoracic Annals	1999-
Heart Surgery Forum	2001-
Cardiovascular Surgery	2003-
American Heart Journal	2003-
Journal of Cardiac Surgery	2005-
Innovations	2005-
Archives of Surgery	2011-
European Journal of Cardiothoracic Surgery	2013-
Academic Medicine	2017-

Internet Activities

Live Webcast of Transmyocardial Laser Revascularization operation, @ www.thevirtualor.com	2000
Editorial Board for CT Digest, @ www.ctdigest.com	2000
TMR Update, @ www.webmd.com	2000
Long term results with TMR, @ www.theheart.org	2000
Research Projects of the Division of Cardiac Surgery, Northwestern University, on eLab @ www.ctsnet.org	2000
FAQ Discussant, PLC Medical Systems Website, @ www.bloodlines.org	2000
ACS Surgery: Principals & Practice, Evaluation of Cardiac Risk @ www.acssurgery.com	2002
Angiogenesis Restores Blood Flow to the Heart 9/6/02 @ www.nmh.org	2002
Cardiac MRI: A New and Improved Way to Look at the Heart 12/3/02 @ www.nmh.org	2002

Northwestern Memorial Testing Novel Therapy to Prevent Blockage in Coronary Artery Bypass Grafts @ www.nmh.org	2003
State of the Art Heart Surgery – Inside the Digital OR at the NIH Heart Center at Suburban Hospital @ www.wusa9.com	2007
Heart Valve Research Advances at the NHLBI – www.youtube.com/watch?v=vFCWzmlz4M0	2012
Heart Valve Disease: Am I a Candidate for Surgery www.suburbanhospital.org/valves	2012
Be Heart Smart – Ask the Expert www.suburbanhospital.org/HealthInfo/AskDoctor.aspx	2013

Postgraduate Education

Harvard University, John F. Kennedy School of Government “Skills for the New World of Health Care”	2004
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Visiting Professorships

University of Toronto, Department of Cardiac Surgery	2009
Chinese University of Hong Kong, Department of Cardiac Surgery	2011
Beijing University Medical School, Department of Cardiology	2015

Research Funding

Principal Investigator: Keith A. Horvath, M.D.
Funding Agency: Roguska-Kyts Award in Cardiology Northwestern Memorial Hospital
Title: Transmyocardial Laser Revascularization
Funding: \$20,000, 1997 to 1998

Principal Investigator: Keith A. Horvath, M.D.
Funding Agency: A. Ward Ford Memorial Institute
Title: Transmyocardial Revascularization by CO₂ Laser
Funding: \$37,600, 1997 to 1999

Principal Investigator: Keith A. Horvath, M.D.
Funding Agency: American Heart Association
Title: Transmyocardial Laser Revascularization
Funding: \$58,360, 1998 to 2000

Principal Investigator: Keith A. Horvath, M.D.
Funding Agency: American College of Surgeons
Title: Collateral Development and Functional Response to TMR in Combination with Angiogenic Growth Factors
Funding: \$60,000, 1999 to 2001

Principal Investigator: Keith A. Horvath, M.D.
Funding Agency: Warner-Lambert
Title: VEGF Mediated Angiogenesis in a Pig Heart
Funding: \$121,400, 1999 to 2000

Principal Investigator: Keith A. Horvath, M.D.
Funding Agency: AHA - Scientist Development Grant
Title: Biologic Bypass with Angiogenic Growth Factors and Transmyocardial Laser Revascularization
Funding: \$250,000, 2000 to 2003

Principal Investigator: Keith A. Horvath, M.D.
Funding Agency: Edwards Lifesciences, Inc.
Title: Efficacy of Excimer TMR
Funding: \$174,450, 2000 to 2003

Principal Investigator: Keith A. Horvath, M.D.
Funding Agency: EMBOL-X
Title: A Multi-Center Clinical Study of the Safety of the EMBOL-X Arterial Cannula and Filter System in Patients Undergoing Cardiopulmonary Bypass
Funding: \$100,000, 2000 to 2001

Principal Investigator: Keith A. Horvath, M.D.
Funding Agency: Illinois Department of Public Aid
Title: Biologic Bypass via Minimally Invasive Cardiac Surgery
Funding: \$100,000, 2001 to 2002

Principal Investigator: Keith A. Horvath, M.D.
Funding Agency: National Institutes of Health: RO1 Grant
Title: Laser Induced Myocardial Angiogenesis
Funding: \$683,819, 2001 to 2005

Co-Investigator: Keith A. Horvath, M.D.
Funding Agency: American Heart Association
Title: Quality-adjusted survival and cost-effectiveness of transmyocardial revascularization using the CO2 laser
Funding: \$225,000, 2002 to 2004

Principal Investigator: Keith A. Horvath, M.D.
Funding Agency: Procter & Gamble Pharmaceuticals, Alexion Pharmaceuticals, and Quintiles, Inc.
Title: A Phase III Randomized, Parallel, Double-Blind, Multi-Center, Placebo-Controlled Study of the Effect of Pexelizumab on All Cause Mortality and Myocardial Infarction I Patients Undergoing Coronary Artery Bypass Graft (CABG) Surgery with Cardiopulmonary Bypass
Funding: \$112,000, 2002 to 2004

Principal Investigator: Keith A. Horvath, M.D.
Funding Agency: Corgentech, Inc.
Title: 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
Funding: \$360,000, 2002 to 2003

Co-Investigator: Keith A. Horvath, M.D.
Funding Agency: NINDS
Title: CLOCS Study, Cerebral Lesions and Outcomes after Cardiac Surgery

Funding: Intramural, 2006 to 2008

Co-Investigator: Keith A. Horvath, M.D.

Funding Agency: Medicare International

Title: Mend CABG II, A Randomized Double-blind, Placebo-controlled, Multi-center Study to Evaluate the Cardioprotective Effects of MC-1 in Patients Undergoing High-Risk CABG Surgery

Funding: \$84,000, 2006 to 2008

Co-Investigator: Keith A. Horvath, M.D.

Funding Agency: NHLBI

Title: Cardiac Ischemia Study Phase II Assessing Proteomics in Cardiac Surgery Patients

Funding: Intramural, 2007 to 2009

Co-Investigator: Keith A. Horvath, M.D.

Funding Agency: NIH Clinical Center, Department of Transfusion Medicine

Title: TRIPS Study, Transfusion Related Infections Prospectively Studied

Funding: Intramural, 2008 to 2017

Co-Investigator: Keith A. Horvath, M.D.

Funding Agency: NHLBI Sponsored Cardiothoracic Surgery Research Network

Title: Surgical Interventions for Moderate Ischemic Mitral Regurgitation, A Randomized Multi-Center Trial to Evaluate the Safety and Efficacy of Mitral Valve Repair for Moderate Ischemic Mitral Valve Regurgitation

Funding: Intramural NHLBI and NINDS, 2008 to 2013

Co-Investigator: Keith A. Horvath, M.D.

Funding Agency: NHLBI Sponsored Cardiothoracic Surgery Research Network

Title: Evaluation of Outcomes Following Mitral Valve Repair/Replacement in Severe Chronic Ischemic Mitral Regurgitation, A Randomized Multi-Center Trial to Evaluate the Safety and Efficacy of Mitral Valve Repair and Replacement for Patients with Severe Ischemic Mitral Valve Regurgitation

Funding: Intramural NHLBI and NINDS, November 2008 to 2012

Co-Investigator: Keith A. Horvath, M.D.

Funding Agency: Schering-Plough, Inc.

Title: RED-CABG, A Randomized Double-blind Placebo-controlled, Multi-center Study to study the Effect of Acadesine on Clinically Significant Adverse Cardiovascular and Cerebrovascular Events in High-risk Subjects Undergoing Coronary Artery Bypass Grafting Surgery Using Cardiopulmonary Bypass

Funding: Extramural, December 2008 to 2010

Co-Investigator: Keith A. Horvath, M.D.

Funding Agency: NHLBI

Title: Pilot Study to Access the Proteome in Human Atrial Tissue

Funding: Intramural, NHLBI, May 2008 to 2017

Co-Investigator: Keith A. Horvath, M.D.

Funding Agency: Johns Hopkins University

Title: Improving the Safety of Care Transitions for Cardiac Surgery Patients

Funding: Johns Hopkins University, December 2009 to October 2013

Co-Investigator: Keith A. Horvath, M.D.
Funding Agency: NHLBI Sponsored Cardiothoracic Surgery Research Network
Title: Surgical Ablation vs. No Surgical Ablation for Patients with Persistent or Longstanding Atrial Fibrillation Undergoing Mitral Valve Surgery
Funding: Intramural NHLBI, January 2010 to September 2013

Co-Investigator: Keith A. Horvath, M.D.
Funding Agency: NHLBI Sponsored Cardiothoracic Surgery Research Network
Title: Management Practices and the Risk of Infections Following Cardiac Surgery
Funding: Intramural NHLBI, January 2010 to October 2010

Co-Principal Investigator: Keith A. Horvath, M.D.
Funding Agency: Johns Hopkins University
Title: Cardiac Surgery Outcomes: Comparing the Comprehensive Unit-Based Safety Program (CUSP) and Translating Evidence into Practice (TRiP) to Passive Reporting
Funding: Johns Hopkins, June 2011 to July 2014

Principle Investigator: Keith A. Horvath, M.D.
Funding Agency: NHLBI
Title: Preliminary Assessment of Direct Intra-myocardial Injection of Autologous Bone Marrow-derived Stromal Cells on Patients Undergoing Revascularization for CAD with Depressed Left Ventricular Function
Funding: Intramural NHLBI, May 2012 to November 2016

Co-Investigator: Keith A. Horvath, M.D.
Funding Agency: Abbvie
Title: AKI Aware Study – A Phase 2b, Randomized Double-Blind Placebo-Controlled, Safety and Efficacy Trial of Multiple Dosing Regimens of ABT-719 for the Prevention of Acute Kidney Injury in Subjects Undergoing High Risk Cardiac Surgery
Funding: Abbvie, May 2013 to January 2017

Co-Investigator: Keith A. Horvath, M.D.
Funding Agency: NHLBI
Title: Cardiovascular Disease Discovery Protocol
Funding: Intramural, NHLBI, October 2013 to January 2017

Co-Investigator: Keith A. Horvath, M.D.
Funding Agency: NHLBI Sponsored Cardiothoracic Surgery Research Network
Title: Rate Control versus Rhythm Control for Postoperative Atrial Fibrillation
Funding: Intramural NHLBI, July 2014 to May 2015

Co-Investigator: Keith A. Horvath, M.D.
Funding Agency: Thrasos, Inc.
Title: A Phase II Multicenter, Parallel Group, Randomized, Double Blind, Proof-of-Concept, Adaptive Study Investigating the Safety and Efficacy of THR-184 Administered via Intravenous Infusion in Patients at Increased Risk of Developing Cardiac Surgery Associated Acute Kidney Injury (CSA-AKI)
Funding: Thrasos, August 2014 to July 2015

Co-Investigator: Keith A. Horvath, M.D.
Funding Agency: NHLBI Sponsored Cardiothoracic Surgery Research Network
Title: Neuroprotection in Patients Undergoing Aortic Valve Replacement
Funding: Intramural NHLBI and NINDS, May 2015 to June 2016

Co-Investigator: Keith A. Horvath, M.D.
Funding Agency: Liva Nova, Inc.
Title: Mitroflow Aortic Pericardial Heart Valve with Phospholipid Reduction Treatment Post Approval Study
Funding: Liva Nova, June 2015 to May 2016

Principal Investigator: Keith A. Horvath, M.D.
Funding Agency: NHLBI
Title: EPOgen and Restrictive Transfusions in Patients Undergoing Cardiac Surgery (EPORT)
Funding: Intramural, NHLBI, January 2016 to November 2016

Co-Investigator: Keith A. Horvath, M.D.
Funding Agency: NHLBI Sponsored Cardiothoracic Surgery Research Network
Title: Evaluating the Benefit of Concurrent Tricuspid Valve Repair during Mitral Valve Surgery
Funding: Intramural NHLBI, January 2016 to January 2017

Patents

Self-Expanding Stent for Aortic Valve Replacement HHS, Reference No. E-337-2008/0, US,
Application No. 61/172,568 filed 24 Apr 2009

Publications

1. **Horvath KA**, Kao NL, Wong TW. Preferential Survival of Leukemic Cells in the Testis during Chemotherapy for Acute Lymphocytic Leukemia. *Fed Proc* 44(4):4291; 1985
2. **Horvath KA**, Udekwu A, Kaplan EL, Straus FH, Ferguson DJ, Skinner DB. Zollinger-Ellison Syndrome- A 37 year Experience at the University of Chicago Medical Center. *Amer Assoc Endo Surg Proc* 7:22; 1985
3. Wong TW, **Horvath KA**, Kao NL. Chromosomal Anomalies and Male-Infertility, In Gondos B, Riddick F (eds.): *Pathology of Infertility*. New York, Thieme-Stratton, pp. 243-63; 1987
4. Wong TW, **Horvath KA**. Pathology of the Testis in Male Infertility, In Gondos B, Riddick F (eds.): *Pathology of Infertility*. New York, Thieme-Stratton, pp. 265-89; 1987
5. Stip FS, Arganini M, Bibbo M, Straus FH, Dytych H, Wied G, **Horvath KA**, Kaplan EL. Nuclear DNA Analysis of Insulinomas and Gastrinomas. *Surgery* 102(6):988-98; 1987
6. **Horvath KA**, DiSesa VJ, Peigh PS, Couper GS, Collins JJ, Cohn LH. Favorable Results of Coronary Artery Bypass Grafting in Patients Older than 75 Years. *J Thorac Cardiovasc Surg* 99(1):92-96; 1990
7. Kaplan EL, **Horvath KA**, Udekwu A, Straus FH, Scharck C, Ferguson DJ, Skinner DB. Gastrinomas: A 42 year Experience. *World J Surg* 14(3):365-75; 1990
8. DiSesa VJ, Kuo PC, **Horvath KA**, Mudge GH, Collins JJ Jr, Cohn LH. HLA Histocompatibility Affects Cardiac Transplant Rejection and May Provide One Basis for Organ Allocation. *Ann Thorac Surg* 49(2):220-24; 1990
9. **Horvath KA**, Cohn LH. Coronary Artery Bypass Grafting in Elderly Patients: Risks vs. Benefits. *J Myocardial Ischemia* 3:13-24, 1991.
10. **Horvath KA**, Granstein RD. PUVA Augments Cyclosporine-Mediated Rat Cardiac Allograft Survival. *J Surg Res* 52 (6):565-70; 1992
11. **Horvath KA**, Torchiana DF, Dagget Wm, Nishioka NS. Monitoring Myocardial Reperfusion Injury with NADH Fluorescence. *Lasers Surg Med* 12(1):2-6; 1992
12. **Horvath KA**, Glasgow AS. Massive Intra-abdominal Hemorrhage from a Hepatic Laceration Caused by Vomiting. *Arch Surg* 127 (11):1361; 1992
13. **Horvath KA**, Burke RP, Collins JJ Jr, Cohn LH. The Surgical Treatment of Adult Atrial Septal Defect: Early and Long Term Results. *J Am Coll Cardiol* 20(5):1156-9; 1992
14. Price, RA, **Horvath KA**, Moore FM, Jr. Surgery for Solitary Thyroid Nodules: Assessment of Methods to Select Patients at Low Risk for Unsuspected Malignancy in the Unaffected Lobe and the Possible Utility of Preoperative Thyroid Ultrasound. *Thyroid* 3(2):87-92; 1993

15. **Horvath KA**, Smith WJ, Laurence RG, Byrne JG, Schoen FJ, Cohn LH. Improved Short- and Long Term Recovery after an Acute Myocardial Infarct Treated by Transmyocardial Laser Revascularization. *Surg Forum* 44:220-22; 1993
16. **Horvath KA**, Schomaker KS, Lee CC, Cohn LH. Intraoperative Myocardial Ischemia Detection with Laser-induced Fluorescence. *J Thorac Cardiovasc Surg* 107(1):220-25; 1994
17. **Horvath KA**, Mannting FR, Cohn LH. Improved Myocardial Perfusion and Relief of Angina after Transmyocardial Laser Revascularization. *Circulation* 90(4):I-640; 1994
18. **Horvath KA**, Smith WJ, Laurence RG, Schoen FJ, Appleyard RF, Cohn LH. Recovery and Viability of an Acute Myocardial Infarct after Transmyocardial Laser Revascularization. *J Am Coll Cardiol* 25(1):258-63; 1995
19. Berven SG, **Horvath KA**, Brooks DC. The Effect of Topical Intraperitoneal Bupivacaine on Postoperative Pain Following Laparoscopic Cholecystectomy. *Min Invasive Therapy* 4:67-71; 1995
20. Cohn LH, Mannting FR, **Horvath KA**. Transmyocardial Laser Revascularization, *In* Ceranaiu AC, Del Rossi AJ (eds): *Cardiac Surgery: Current Issues 4*, Plenum Publishing Corporation NY, NY; 1995
21. **Horvath KA**, Mannting FR, Cohn LH. Transmyocardial Laser Revascularization, *In* Yacoub M., Pepper J (eds): *Annual of Cardiac Surgery 1995*, Current Science Ltd., Philadelphia, PA; 1995
22. Burke RP, **Horvath KA**, Landzberg M, Hyde P. Collins JJ, Cohn LH. Long-term Follow-up of Surgical repair of Ostium Primum Defects in Adults. *J Am Coll Cardiol* 27(3):696-99; 1996
23. **Horvath KA**, Mannting FR, Cummings N, Shernan SK, Cohn LH. Transmyocardial Laser Revascularization: Operative Techniques and Clinical Results at Two Years. *J Thorac Cardiovasc Surg* 111(5):1047-53; 1996
24. **Horvath KA**, Cohn LC, Cooley DA, Crew JR Frazier OH, Griffith BP, Kadipasaoglu K, Lansing A, Mannting FR, March R, Mirhoseini MR, Smith C. Transmyocardial Laser Revascularization: Results of a Multi-Center Trial Using TLR as Sole Therapy for End Stage Coronary Artery Disease. *J Thorac Cardiovasc Surg* 113(4):645-54; 1997
25. deGuzman BJ, Lautz DB, Chen FY, Laurence RG, Ahmad RM, **Horvath KA**, Cohn LC. Thoracoscopic Transmyocardial Laser Revascularization. *Ann Thorac Surg* 64(1):171-74; 1997
26. **Horvath KA**. Clinical Studies of TMR with the Carbon Dioxide Laser. *J Clin Laser Med Surg* 15(6):281-85; 1997
27. Fullerton DA, Harken AH, **Horvath KA**. Cardiac Insufficiency, *In* Wilmore DW, Cheung LY, Harken AH, Holcroft JW, Meakins JL (eds.): *Scientific American: Surgery*, Scientific American Inc., New York; 1998
28. **Horvath KA**. Thoracoscopic Transmyocardial Laser Revascularization. *Ann Thorac Surg* 65(5): 1439-41; 1998

29. **Horvath KA**, Greene R, Belkind N, Kane B, McPherson D, Fullerton DA. Left Ventricular Functional Improvement after Transmyocardial Laser Revascularization. *Ann Thorac Surg* 66(3): 721-25; 1998
30. **Horvath KA**. Transmyocardial Laser Revascularization, In Karp RB, Laks H, Wechsler AS (eds.): *Advances in Cardiac Surgery*, Vol 10:141-54; Mosby Inc., St. Louis, MO; 1998
31. **Horvath KA**, Cohn LC, Cooley DA, Crew JR, Frazier OH, Griffith BP, Kadipasaoglu K, Lansing A, March RJ, Mirohseini MR. Functional Improvement, Long Term Survival and Angina Relief after Transmyocardial Revascularization with a CO2 Laser. *Circulation* 98:I-217 (suppl); 1998
32. Boyce S, Aranki SA, Cohn LC, Cooley DA, Crew JR, Fontana G, Frazier OH, Griffith BP, **Horvath KA**, Landolfo KP, Lansing A, Lowe J, Lytle B, March RJ, Mirhoseini M, Smith CR. Transmyocardial Laser Revascularization Using the Heart Laser System. In Krabatsch T, Hetzer R (eds.): *Transmyocardial Laser Revascularization: Scientific Basis and Clinical Value*, Ecomed, Landsberg, Germany; 1998
33. **Horvath KA**. Transmyocardial Laser Revascularization: The Next Step? *Semin Thorac Cardiovasc Surg* 11:1-3; 1999
34. **Horvath KA**, Crew JR, Mirhoseini M, Cohn LC, Aranki SA, Cooley DA, Frazier OH, Lansing AM, Griffith BP, Hattler BG, March RJ, Smith CR for the CO2 TMR Study Group: Synergistic Effect of Aspirin and Transmyocardial Laser Revascularization in Treating End-Stage Coronary Artery Disease. *J Amer Coll Cardiol* 33:2, 381A; 1999
35. **Horvath KA**, Kadipasaoglu KA. Transmyocardial Laser Revascularization. *Lancet* 353:1704-5; 1999
36. **Horvath KA**. Transmyocardial Laser Revascularization, ed. Krabatsch T., Hetzer R. *Ann Thorac Surg* 67:1239; 1999
37. **Horvath KA**, Chiu E, Maun DC, Lomasney JW, Greene R, Pearce WH, Fullerton DA. Up-regulation of VEGF mRNA and Angiogenesis after Transmyocardial Laser Revascularization. *Ann Thorac Surg* 68(3):825-9; 1999
38. Hattler BG, Griffith BP, Zenati MA, Crew JR, Mirhoseini M, Cohn LC, Aranki SA, Frazier OH, Cooley DA, Lansing AM, **Horvath KA**, Fontana G, Landolfo KP, Lowe JE, Lytle BW, Boyce SW. Transmyocardial Laser Revascularization in the Patient with Unmanageable Unstable Angina. *Ann Thorac Surg* 68(4):1203-9; 1999
39. **Horvath KA**. Transmyocardial Laser Revascularization, In Verrier E, Franco K (eds.) *Advanced Therapy in Cardiac Surgery*. BC Decker, Inc., Chapter 14:129-34; Ontario, Canada; 1999
40. Frazier OH, March RJ, **Horvath KA**. Transmyocardial Revascularization with a Carbon Dioxide Laser in Patients with End-Stage Coronary Artery Disease. *N Engl J Med* 341(14):1021-8; 1999
41. Kim RJ, Rafael A, Chen E, Wu E, Parker MA, **Horvath KA**, Simonetti O, Finn P, Bonow RO, Klocke FJ, Judd RM. Contrast-Enhanced MRI Predicts Wall Motion Improvement after Coronary Revascularization. *Circulation* 100:I-797(suppl); 1999

42. McMurray J, **Horvath KA**, Kadipasaoglu KA, Lansing AM, Moosdorf R, Hetzer R, Krabatsch T, Schofield PM, Sharples LD, Caine N, Buxton M, Wallwork J. Transmyocardial Laser Revascularization. *Lancet* 353(9165):1704-07; 1999.
43. **Horvath KA**, Kadipasaoglu KA, Lansing AM, March RJ, Frazier OH. A Prospective Randomized Controlled Trial of Transmyocardial Revascularization by CO2 Laser vs. Medical Management. *Circulation* 100:I-248(suppl); 1999
44. Frazier OH, March RJ, **Horvath KA**. Transmyocardial Laser Revascularization Review. *N Engl J Med* 342:437-38; 2000
45. **Horvath KA**. Update on Clinical Trials of Transmyocardial Laser Revascularization. *Cardiac and Vascular Regeneration* 1:63-69; 2000
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Presentations

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37. Horvath KA. What's New in Coronary Artery Surgery? Presented at Medical Grand Rounds, Thorek Hospital, Chicago, IL, October 1998.
38. Horvath KA, Cohn LC, Cooley DA, Crew JR, Frazier OH, Griffith BP, Kadipasaoglu K, Lansing A, March RJ, Mirohseini MR. Functional Improvement, Long Term Survival and Angina Relief after Transmyocardial Revascularization with a CO2 Laser. Presented at the 71st Scientific Session of the AHA. Dallas, TX, November 1998.
39. Horvath KA, Chiu E, Maun DC, Lomasney JW, Greene R, Pearce WH, Fullerton DA. Up-regulation of VEGF mRNA and Angiogenesis after Transmyocardial Laser Revascularization. Presented at the 35th Annual Meeting of the Society of Thoracic Surgeons. San Antonio, TX, January, 1999.
40. Horvath KA. Medicare, The Patient Bill of Rights and You. Presented at the 6th Annual Meeting of the 21st Century Cardiac Surgery Society. San Juan, PR, February 1999.
41. Horvath KA, Crew JR, Mirhoseini M, Cohn LC, Aranki SA, Cooley DA, Frazier OH, Lansing AM, Griffith BP, Hattler BG, March RJ, Smith CR for the CO2 TMR Study Group. Synergistic Effect of Aspirin and Transmyocardial Laser Revascularization in Treating End-Stage Coronary Artery Disease. Presented at the 48th Annual Meeting of the American College of Cardiology. New Orleans, LA, March 1999.
42. Horvath KA. New Surgical Options for End-Stage Coronary Artery Disease. Presented at Medical Grand Rounds, Silver Cross Hospital. Joliet, IL, March 1999.
43. Horvath KA. Molecular Angiogenic Response to TMR. Presented at the 3rd European TMR Meeting, Deutsches Herzzentrum Berlin. Berlin, BRD, May 1999.
44. Horvath KA. Improvement in Myocardial Contractility after TMR. Presented at the 3rd European TMR Meeting, Deutsches Herzzentrum Berlin. Berlin, BRD, May 1999.

45. Horvath KA. Clinical Results with TMR by CO2 Laser. Presented at the 2nd Angiogenesis and DMR Meeting, Washington, DC, June 1999.
46. Horvath KA. New Options in Coronary Revascularization. Presented at Northwestern Memorial Hospital Cardiovascular Conference. Chicago, IL, June 1999.
47. Horvath KA. Coronary Revascularization in Patients with Heart Failure. Presented at the Chronic Heart Failure: A Manifestation of Coronary Heart Disease Symposium, Northwestern University Medical School. Chicago, IL, July 1999.
48. Horvath KA. Coronary Artery Bypass Grafting. Presented at the Division of Cardiology Fellow's Teaching Conference, Northwestern University Medical School. Chicago, IL, August 1999.
49. Horvath KA. Advances in Minimally Invasive Cardiac Surgery. Mended Hearts Program. Northwestern Memorial Hospital. Chicago, IL, September 1999.
50. Horvath KA. Research Update on Transmyocardial Laser Revascularization. American Heart Association, Midwest Affiliate, Council Meeting. Chicago, IL, September 1999.
51. Horvath KA, Kadipasaoglu KA, Lansing AM, March RJ, Frazier OH. A Prospective Randomized Controlled Trial of Transmyocardial Revascularization by CO2 Laser vs. Medical Management. Presented at the 72nd Scientific Session of the AHA. Atlanta, GA, November 1999.
52. Horvath KA. How-to Session: Selection and Management of Patients for Laser Revascularization. Presented at the 72nd Scientific Session of the AHA. Atlanta, GA, November 1999.
53. Horvath KA. Transmyocardial Laser Revascularization-Why? Presented at Surgical Grand Rounds, Northwestern University Medical School. Chicago, IL, December 1999.
54. Horvath KA. Transmyocardial Laser Revascularization: State of the Art. Presented at the International Society for Optical Engineering Meeting. San Jose, CA, January 2000.
55. Horvath KA. HCFA Reimbursement Update: Presented at the 7th Annual Meeting of the 21st Century Cardiac Surgery Meeting. Palm Beach, FL, February 2000.
56. Horvath KA. Transmyocardial Laser Revascularization. Presented live Internet Webcast of TMR from Providence Medical Center, Seattle, WA, March 8, 2000.
57. Horvath KA. Transmyocardial Laser Revascularization. Presented at the Toledo Hospital. Toledo, OH, May 22, 2000.
58. Horvath KA. Update on Cardiac Surgery. Presented at Cardiology Grand Rounds. Northwestern University Medical School, Chicago, IL, August 4, 2000.
59. Horvath KA, Belkind N, Greene R, Kane B, McPherson DD, Fullerton DA. Laser versus Mechanical Transmyocardial Revascularization: Do You Need a Light? Presented at the 86th Annual Clinical Congress of the American College of Surgeons, Chicago, IL. October 23, 2000.
60. Horvath KA. Cardiothoracic Surgery: New Procedures. Presented at the Mended Hearts Chapter Meeting. Northwestern Memorial Hospital, Chicago, IL. October 24, 2000.

61. Horvath KA. The Case for TMR. Presented at Edwards Lifesciences Symposium, Irvine, CA. November 2, 2000.
62. Horvath KA. Transmyocardial Laser Revascularization: Clinical Use and New Insights on Mechanisms of Action. Presented at Advances in Cardiac Surgery at the 73rd Scientific Sessions of the AHA, New Orleans, LA. November 12, 2000.
63. Horvath KA, Kim RJ, Judd RM, Parker MA, Fullerton DA. Contrast Enhanced MRI Assessment of Microinfarction after Transmyocardial Laser Revascularization. Presented at the 73rd Scientific Sessions of the AHA, New Orleans, LA. November 14, 2000.
64. Horvath KA, Aranki SA, Cohn LH, Frazier OH, Kadipasaoglu KA, Boyce SW, Lytle BW, Lansing AM. Sustained Angina Relief Five Years after Transmyocardial Revascularization with a CO2 Laser. Presented at the 73rd Scientific Sessions of the AHA, New Orleans, LA. November 14, 2000.
65. Horvath KA. Update on Clinical Trials with Surgical Transmyocardial Revascularization. Presented at the AHA Scientific Conference on Therapeutic Angiogenesis and Myocardial Revascularization, Santa Fe, NM. January 27, 2001.
66. Horvath KA, Belkind A, Wu I, Greene R, Lomasney JW, McPherson DD, Fullerton DA. Functional Comparison of Transmyocardial Revascularization by Mechanical and Laser Means. Presented at the 37th Annual Meeting of the Society of Thoracic Surgeons, New Orleans, LA. January 30, 2001.
67. Horvath KA. Political Economic Update. Presented at the 8th Annual Meeting of the 21st Century Cardiac Surgery Society, Marco Island, FL. February 17, 2001.
68. Horvath KA. Clinical Comparison of CO2 vs. Ho:YAG Transmyocardial Laser Revascularization, Presented at Cardiac Surgery Grand Rounds, Prairie Heart Institute, Springfield, IL, February 22, 2001.
69. Horvath KA. Clinical and experimental trials of transmyocardial laser revascularization for chronic myocardial ischemia. Presented at the 65th Annual Meeting of the Japanese Circulation Society, Kyoto, Japan, March 26, 2001.
70. Horvath KA. Update on Clinical Trials of Transmyocardial Laser Revascularization, Presented at Cardiology Grand Rounds, Central DuPage Hospital, Winfield, IL, April 5, 2001.
71. Horvath KA. Clinical Results with Surgical Transmyocardial Laser Revascularization, Presented via teleconference at the International Laser Symposium, Buenos Aires, Argentina, April 19, 2001.
72. Horvath KA. Mechanistic Insights into the Efficacy of Transmyocardial Laser Revascularization, Presented at the AHA Headquarters, Chicago, IL, April 19, 2001.
73. Horvath KA. Long term Outcome of CO2 TMR Treatment, Presented at the CO2 TMR Symposium, San Diego, CA, May 4, 2001.
74. Horvath KA. Clinical Efficacy of TMR, Presented at Cardiology Grand Rounds, Trinity Medical Center, Rock Island, IL, June 13, 2001.

75. Horvath KA. Cardiac Surgery, Presented at Northwestern Memorial Hospital, Cardiology Fellow Orientation Lecture, Chicago, IL, August 16, 2001.
76. Horvath KA. Clinical Update on TMR. Presented at Cardiology Grand Rounds, The University of Oklahoma, Oklahoma City, OK, September 7, 2001.
77. Horvath KA. Clinical Efficacy and Experience with TMR. Presented at American College of Surgeons Post-Graduate Course in Cardiothoracic Surgery. New Orleans, LA, October 9, 2001.
78. Horvath KA. Laser Myocardial Revascularization. Presented at the Edwards Lifesciences sponsored XVI Cardiac Residents Program. Costa Mesa, CA, October 12, 2001.
79. Horvath KA. Laser Induced Angiogenesis. Presented at the Northwestern Memorial Foundation, Chicago, IL, October 23, 2001.
80. Horvath KA. Transmyocardial Laser Revascularization: Current Indications and Results. Presented at the Scientific Sessions 2001 of the American Heart Association Meeting. Anaheim, CA, November 11, 2001.
81. Horvath KA, Lu CJ, Vargas JD, Kim RJ, Judd RM, Doukas J, Pierce GF, Ma C, Greene R, McPherson DD, Fullerton, D. Myocardial Functional Recovery after FGF2 Gene Therapy as Assessed by Echocardiography and MRI. Presented at the Scientific Sessions 2001 of the American Heart Association Meeting. Anaheim, CA, November 12, 2001.
82. Horvath KA, Lu CJ, Belkind N, Lomasney JW, Greene R, McPherson DD, Fullerton DA. Improved Perfusion and Function with Myocardial Gene Therapy. Presented at the 2001 Annual Meeting of the Association for Academic Surgery. Milwaukee, WI, November 16, 2001.
83. Horvath KA. CO₂ TMR: Angina Relief after 5 Years. Presented at the Edwards Lifesciences COE Meeting. Fort Lauderdale, FL, January 27, 2002.
84. Horvath KA, Lu CJ, Vargas JD, Kim RJ, Judd RM, Doukas J, Pierce GF, Ma C, Greene R, McPherson D, Fullerton DA. Myocardial Functional Recovery after FGF2 Gene Therapy as Assessed by Echocardiography and MRI. Presented at the 38th Annual Meeting of the Society of Thoracic Surgeons, Fort Lauderdale, FL, January 28, 2002.
85. Horvath KA. Meet the Expert Sessions: Therapy for Distal Coronary Disease. Presented at the 38th Annual Meeting of the Society of Thoracic Surgeons, Fort Lauderdale, FL, January 29, 2002.
86. Horvath KA. Transmyocardial Laser Revascularization. Presented at Cardiology Grand Rounds, Geisinger Medical Center, Danville, PA, March 4, 2002.
87. Horvath, KA. CO₂ Laser Revascularization "A Hands-On Training Course". Presented at the Cleveland Clinic, Cleveland, OH, April 5, 2002.
88. Horvath, KA. Who is the optimal patient for TMR? Presented at the Edwards Lifesciences Booth at the American Association for Thoracic Surgeons, Washington, DC, May 6, 2002.

89. Blum MG, Monge M, Wade L, Horvath KA, Fullerton DA. The Human Heart Activates Complement During Cardiac Surgery. Presented at the 28th Annual Meeting of the Western Thoracic Surgical Association, Big Sky, Montana, June 22, 2002.
90. Horvath KA. CO₂ TMR. Presented at the Cleveland Clinic Foundation, Cleveland, OH, July 22, 2002.
91. Horvath KA. CO₂ Heart Laser Clinical and Research Overview. Presented at Massachusetts General Hospital, Cardiac Surgery Grand Rounds, Boston, MA, October 15, 2002.
92. Horvath KA. What is the Optimal Patient Profile for CO₂ Laser Revascularization? Presented at the 39th Annual Meeting of the Society of Thoracic Surgeons, San Diego, CA, January 31, 2003.
93. Banbury MK, Slaughter MA, Kouchoukos NT, Horvath KA, Weissman N, Berry G, Allen KB. The EMBOL-X Intra-Aortic Filter Reduces Morbidity in Cardiac Surgery: A Multi-Center Randomized Trial of 1289 Patients. Presented at the 39th Annual Meeting of the Society of Thoracic Surgeons, San Diego, CA, January 31, 2003.
94. Horvath KA. Gene Activated Matrix: Improved Myocardial Angiogenesis. Presented at the 21st Century Cardiac Surgical Society, Orlando, FL, February 15, 2003.
95. Horvath KA. The Perfect Storm. Presented at 21st Century Cardiac Surgical Society, Orlando, FL, February 16, 2003.
96. Horvath KA. Emboli Capture with the Embol-X Intra-Aortic Filter. Presented at the 9th Annual Cardiothoracic Techniques & Technologies, Miami, FL, March 20, 2003.
97. Horvath KA. Coronary Surgery Potpourri. Presented at Northwestern University Medical School, Department of Surgery Core Curriculum Conference, April 3, 2003, Chicago, IL.
98. Horvath KA. TMR Indications and Results. Presented at Mt. Sinai Hospital, Department of Surgery Grand Rounds, April 17, 2003, Chicago, IL.
99. Horvath, KA, Doukas J, Belkind N, Sosnowski BA, Greene R, Fullerton DA. Restoration of Myocardial Function with Combination Angiogenesis Therapy. Presented at the American Heart Association Second Asia Pacific Scientific Forum, June 9, 2003, Honolulu, HI.
100. Lu CJ, Doukas J, Belkind N, Sosnowski BA, Greene R, Fullerton DA, Horvath KA. Restoration of Myocardial Function with Combination Angiogenesis Therapy. Presented at the International Society for Minimally Invasive Cardiac Surgery, June 18-21, 2003, San Francisco, CA.
101. Horvath, KA, Valvular Heart Disease. Presented at Northwestern Memorial Hospital Department of Surgery Clerkship. Chicago, IL, September 3, 2003.
102. Horvath, KA. Transmyocardial Laser Revascularization. Presented at Resurrection Medical Center, October 8, 2003, Chicago, IL.
103. Maclver R, Stewart R, Frederiksen JW, Fullerton DA, Horvath KA. Topical Antibacterials Decrease Postoperative Mediastinitis. Presented at the American College of Surgeons 89th Annual Clinical Congress, October 22, 2003, Chicago, IL.

104. Horvath KA. Transmyocardial Revascularization: User Workshop. Chair, Edwards Lifesciences Education Program, October 24, 2003, New York, NY.
105. Horvath KA, Lu CJ, Belkind N, Greene R, Fullerton DA. Restoration of Myocardial Function with Combination Angiogenesis Therapy. Presented at the American Heart Association Research Symposium. Orlando, FL, November 8, 2003.
106. Horvath KA. Heart Failure Therapy: Conventional Operations Still Have a Role. Presented at the Scientific Sessions 2003 of the American Heart Association Meeting. Orlando, FL, November 10, 2003.
107. Horvath KA. Laserology – To Be or Not to Be? Use of the CO2 Laser for Ischemic Heart Disease. Presented at the STS/AATS Tech Con 2004. San Antonio, TX, January 25, 2004.
108. Horvath KA. The Society of Thoracic Surgeons Practice Guidelines on Transmyocardial Laser Revascularization. Presented at the 40th Annual Meeting of The Society of Thoracic Surgeons. San Antonio, TX, January 26, 2004.
109. Mouli SK, Fronza J, Greene R, Robert ES, Horvath KA. What is the Optimal Channel Density for Transmyocardial Laser Revascularization. Presented at the 40th Annual Meeting of The Society of Thoracic Surgeons. San Antonio, TX, January 27, 2004.
110. Horvath KA. Valvular Heart Disease. Presented at Northwestern Memorial Hospital Department of Surgery Clerkship. Chicago, IL, February 11, 2004.
111. Horvath KA. Transmyocardial Laser Revascularization for Ischemic Heart Disease. Presented at Cardiology Grand Rounds, Boston University Medical Center. Boston, MA, March 31, 2004.
112. Horvath, KA. New Perspectives on CO2 Laser Revascularization STS Practice Guidelines Review. Presented for Edwards Lifesciences at the 84th Annual Meeting of the American Association for Thoracic Surgery. Toronto, Canada, April 26, 2004.
113. Horvath, KA. The Incidence of Emboli during Cardiac Surgery: A Histopathologic Analysis of 2,297 Patients. Presented at the 84th Annual Meeting of the American Association for Thoracic Surgery. Toronto, Canada, April 28, 2004.
114. Horvath, KA. The Future of Cardiac Surgery. Presented as the Weinstein Lecture, Suburban Hospital, Bethesda, MD. July 11, 2004.
115. Horvath, KA. Current Status of Transmyocardial Laser Revascularization. Presented at Cardiac Surgery Grand Rounds. University of Pennsylvania. Philadelphia, PA. October 1, 2004.
116. Horvath, KA. Cardiothoracic Surgery Network. Presented to the NHLBI, DHVD. Bethesda, MD. November 23, 2004.
117. Horvath, KA. Safety and Efficacy of Intra-aortic Filtration. Presented to the Duke University Division of Cardiothoracic Surgery. Durham, NC. February 7, 2005

118. Horvath, KA. MRI Guided Cardiovascular Surgery. Presented at Medical Grand Rounds. Suburban Hospital, Bethesda, MD. February 11, 2005.
119. Horvath, KA. The Future of Cardiac Surgery. Presented at Critical Care Grand Rounds. Clinical Center, NIH, Bethesda, MD. April 6, 2005.
120. Horvath, KA. The Institutes within NIH: NHLBI. Presented at the Grantsmanship Workshop, at the 85th Annual Meeting of the American Association for Thoracic Surgery. San Francisco, CA. April 9, 2005.
121. Horvath, KA. Evolving and Innovative Technologies in Coronary Artery Bypass Grafting Surgery. Presented at the AHA CABG Guidelines Satellite Teleconference. Milwaukee, WI. April 14, 2005.
122. Horvath, KA. The Future of Cardiac Surgery. Presented at Heritage Foundation. Bethesda, MD. April 6, 2005.
123. Horvath, KA. Current Status of Transmyocardial Laser Revascularization. Presented at Cardiothoracic Surgical Critical Care 2005. Washington, DC. June 13, 2005
124. Horvath, KA. Future of Cardiothoracic Surgery. Presented at Peking University Medical School 2005. Beijing, China. September 14, 2005
125. Horvath, KA. Clinical Application of Transmyocardial Revascularization. Presented at Peking University Medical School 2005. Beijing, China. September 17, 2005
126. Horvath, KA. Transmyocardial Laser Revascularization for End-Stage Coronary Artery Disease. Presented at Controversies in the Treatment of Cardiovascular Disease: The Fifth in the Series 2005. Los Angeles, CA. October 6, 2005
127. Horvath, KA. Real Time MRI Guided Aortic Valve Replacement. Presented at the 21st Century Cardiac Surgery Society. San Juan Puerto Rico. February 18, 2006
128. Horvath, KA. The Heart Truth. Presented at Women's Health Seminar Suburban Hospital Community Outreach Group. Bethesda, MD. February 23, 2006
129. Horvath KA. What is New in Cardiac Surgery. Presented to OASIS. Gaithersburg, MD September 20, 2006.
130. Horvath KA. Cardiac Surgery at NIH/Suburban Hospital: Future Directions. Presented at Opening Celebration of NIH Heart Center. Bethesda, MD. September 29, 2006
131. Horvath KA. The Future of Cardiac Surgery. Presented at Current Concepts in Cardiology Conference. Holy Cross Hospital. Silver Spring, MD. October 19, 2006
132. Horvath KA. MRI Guided Cardiac Surgery. Presented at Cardiac Surgery Grand Rounds. Columbia University. New York, NY. November 2, 2006
133. Horvath KA. Transapical Aortic Valve Replacement Using Real-Time Magnetic Resonance Imaging Guidance. Presented at the Scientific Sessions 2006 of the American Heart Association Meeting. Chicago, IL, November 13, 2006.

134. Horvath KA. MRI Guided Cardiac Surgery. Presented at the 5th Annual NHLBI/AHA Interventional MRI Workshop. Chicago, IL, November 14, 2006.
135. Horvath KA. MRI Guided Cardiac Surgery. Presented at the ERC Seminar. Johns Hopkins University School of Engineering. Baltimore, MD, December 8, 2006.
136. Horvath KA. New Advances in Cardiac Surgery. Presented at the Holiday Park Senior Center. Wheaton, MD, December 11, 2006.
137. Horvath KA. Aortic Valve Replacement Using Real-time MRI Guidance. Presented at the 43rd Annual Society of Thoracic Surgeons Meeting. San Diego, CA, January 30, 2007.
138. Horvath KA. The Future of Cardiac Surgery. Presented at the Bethesda/Chevy Chase Rotary Club Chevy Chase, MD, February 13, 2007.
139. Horvath KA. The Future of Cardiac Surgery. Presented at Grand Rounds at Montgomery General Hospital. Olney, MD, February 22, 2007.
140. Horvath KA. MRI Guided Cardiac Surgery. Presented to the Center for Devices and Radiological Health, FDA, Rockville, MD, March 13, 2007.
141. Horvath KA. Real Time MRI Guided Transapical Aortic Valve Replacement. Presented at the Cardiac Surgery Biology Club at the 87th Annual AATS Meeting. Washington, DC May 5, 2007.
142. Horvath KA. Stress and Heart Disease. Presented at the 5th Annual Men's Health Symposium, Suburban Hospital. Bethesda, MD, June 13, 2007
143. Horvath KA. The Future of Cardiac Surgery. Presented at the World Bank Health Seminar, Washington, DC September 11, 2007
144. Horvath KA. Synergistic Effect of Stem Cell Injection and Transmyocardial Laser Revascularization, 7th International Congress on Coronary Artery Disease. Venice, Italy, October 9, 2007.
145. Horvath KA. Intraoperative MRI Guided Cardiac Surgery. Presented at Grand Rounds at Maimonides Medical Center. New York, NY December 20, 2007
146. Horvath KA. Does Laser Wavelength Impact Myocardial Function Following Transmyocardial Laser Revascularization? Presented at the World Society of Cardiothoracic Surgery. Kos, Greece March 5, 2008
147. Horvath KA. MRI Guided Cardiac Surgery. Presented at Annual Meeting of the Association of Physicians of Pakistani-Descent of North America. Washington, DC, June 27, 2008.
148. Horvath KA. Cardiac Stem Cell Therapy, Hype or Hope? Presented at Controversies in the Treatment of Cardiovascular Disease. Los Angeles, CA September 4, 2008.
149. Horvath KA. Update on Cardiothoracic Surgery at the NIH Heart Center. Presented at the Springhouse Community Forum. Bethesda, MD, October 29, 2008.

150. Horvath KA. CABG in the Elderly. Cardiovascular Seminar: Revascularization in High Risk Groups – The Good, The Bad and The Ugly. Presented at the Scientific Sessions 2008 of the American Heart Association. New Orleans, LA, November 10, 2008.
151. Horvath KA. Interventional II – iCMR Applications: MRI Guided Cardiac Surgery. Presented at the 2009 Society for Cardiovascular Magnetic Resonance 12th Annual Scientific Session, Orlando, FL, January 31, 2009.
152. Horvath KA. Beating Heart Aortic Valve Replacement under Real Time MRI Guidance. Presented at the 4th Annual Academic Surgical Congress, Fort Myers, FL, February 4, 2009.
153. Horvath KA. Simulated Heart Surgery. Presented for the Medical Venturing Crew, Suburban Hospital, Bethesda, MD, March 2, 2009.
154. Horvath KA, Mazilu D, Guttman M, Li M. MRI Guided Aortic Valve Replacement. Presented at the 2009 ISMICS Annual Meeting. San Francisco, CA, June 4, 2009.
155. Zhou Y, Wang S, Yu Z, Hoyt RF, Hunt T, Horvath KA. Vascular Endothelial Growth Factor (VEGF) promotes adipogenesis of Bone Marrow- derived Adult Stem Cells. 2009 AHA Cardiovascular Basic Science Meeting, New Orleans, LA, June, 2009
156. Horvath KA. Mid Term Results of Transapical Aortic Valve Replacement via real-time MRI Guidance. Presented at the 35th Annual Meeting of the Western Thoracic Surgical Association, Baniff, AB Canada, June 27, 2009
157. Zhou Y, Wang S, Yu Z, Sachdev V, Arai A, Horvath KA. Functional Improvement Following Direct Injection of Mesenchymal Stem Cells. Presented at the 8th International Congress on Coronary Artery Disease, Prague, Czech Republic, October 13, 2009.
158. Horvath KA. Real Time MRI-Guided Cardiac Surgery. Presented at the Northeast Cardiothoracic Surgical Society 15th Annual Meeting, East Madison, New Hampshire, October 29, 2009
159. Horvath KA, Corcoran PC. Enriching the Lives of Older Adults. Presented at OASIS, Montgomery Mall, Bethesda, MD, November 11, 2009.
160. Horvath KA. Stem Cell Therapy and Transmyocardial Laser Revascularization: Is There Synergy? Visiting Professor University of Toronto, Toronto, Canada, November 20, 2009.
161. Horvath KA. MRI Guided Cardiac Surgery. 46th Annual Society of Thoracic Surgeons Meeting. Orlando, FL January 23, 2010
162. Horvath KA. 2010 Heart of Evolution Educational Symposium. Real Time Guided MRI for Cardiac Surgery. Victoria, British Columbia, February 11, 2010
163. Horvath KA. Cardiac Stem Cell Therapy. American Surgical Association 130th Annual Meeting. Invited Speaker. Chicago, IL, April 8, 2010
164. Horvath KA. Real-time MRI Guided Procedures. 90th Annual Meeting of the American Association for Thoracic Surgery. Invited Speaker. Toronto, Canada, May 4-5, 2010

165. Horvath KA, Paltoo D. Roadmap to a Health Heart: Why your Genes May Not Be Your Destiny. Suburban Hospital. May 25, 2010
166. Horvath KA. Postgraduate Course: Imaging and Surgical Planning Presentation: Real-Time MRI for Valve Implantation. Cardiac Track Presentation: For Transapical Aortic Valve Replacements, Which Stent is Better? International Society of Minimally Invasive Cardiothoracic Surgery. Berlin, Germany, June 16, 2010
167. Horvath KA. Impact of Age on Coronary Artery Disease. Plenary and Special Session. American Heart Association Scientific Sessions, Chicago, IL, November 13-17,2010
168. Horvath KA. 3rd Annual Congress of Regenerative Medicine & Stem Cell – 2010. Theme: From Bench to Bedside. Invited Speaker: Mesenchymal Stem Cells Differentiate Into Vasculature after Transplantation into Ischemic Myocardium and Lead to Improved Cardiac Function. Shanghai, China, December 5-7, 2010
169. Horvath KA. Society for Cardiovascular Magnetic Resonance (SCMR) Euro Cardiovascular Magnetic Resonance (CMR) Scientific Sessions 2011: Invited Speaker: Transapical aortic valve replacement using real-time MRI guidance. Nice, France, February 3-6, 2011
170. Horvath KA. Suburban Hospital's 9th Annual Women's Health Symposium: Invited Speaker: Because a Woman's Heart is Different. Bethesda, MD, February 17, 2011
171. Horvath KA. AATS In Vivo Animal Models Course. Large Animal Models of Acute and Chronic Ischemia. Bethesda, MD, March 3, 2011.
172. Horvath KA. AATS Grant Writing Workshop. The National Heart, Lung, and Blood Institute. Bethesda, MD, March 4, 2011.
173. Horvath KA. The NIH Heart Center @ Suburban Hospital Update. Maryland Association of Hospital Auxiliaries Annual Meeting. March 14, 2011.
174. Horvath KA. Surgical Approaches to Management of Mitral Valve Disease. NIH Clinical Center Grand Rounds, Bethesda, MD, June 1, 2011.
175. Horvath KA. The Future of Imaging in Minimally Invasive Cardiothoracic Surgery. International Society for Minimally Invasive Cardiothoracic Surgery (ISMICS) Meeting, Mayflower Hotel, Washington, DC, June 10, 2011.
176. Horvath KA. Stem Cell Transplantation and Transmyocardial Laser Revascularization: Is There Synergy? Cardiac Surgery Grand Rounds. University of Alabama. Birmingham, AL, September 19, 2011.
177. Horvath KA. 6th Asian Cardiothoracic Surgery Specialty Update Course: Innovations in Cardiac Surgery. Faculty, Chinese University of Hong Kong. Hong Kong, November 25, 2011
178. Horvath KA. Susan and Milton Miller Lecture – Innovations in Cardiac Surgery: From the Files of the NHLBI. Johns Hopkins Department of Surgery. Baltimore, MD, March 21, 2012

179. Horvath KA. Obtaining Research Funding. AATS Leadership Academy. Annual Meeting of the American Association of Thoracic Surgeons. San Francisco, CA, April 8, 2012
180. Horvath KA. Innovation in Cardiac Surgery. Annual Meeting Howard County General Hospital Board of Trustees, May 15, 2012
181. Zhou Y, Wang S, Liu C, Yu Z, Hoyt RF, Xie W, Horvath KA. Induced Pluripotent Stem Cells derived from Adult Porcine Myocardial Fibroblasts. Presented in ISSCR Roddenberry International Symposium on Cellular Reprogramming, October 24-25, 2012.
182. Horvath KA. The STS National Cardiac Database. Maryland Health Care Commission – Clinical Advisory Group Meeting, Baltimore, MD, December 16, 2012.
183. Horvath KA. Stress and Heart Disease. THIS Lecture, Johns Hopkins Medicine International, Washington, DC, January 14, 2013.
184. Horvath K. Mesenchymal Stem Cells and Severe Coronary Artery Disease. Johns Hopkins Medicine Cardiology Grand Rounds, Baltimore, MD, February 26, 2013.
185. Horvath KA. Innovation in Cardiac Surgery. Presented to the Greater Washington Vascular Nursing Chapter of the Society for Vascular Nursing. Washington, DC. March 13, 2013
186. Horvath KA. Do You Need a Basic Science Research Program? AATS Leadership Academy. Annual Meeting of the American Association of Thoracic Surgeons. Minneapolis, MN, May 3, 2013
187. Horvath KA. NHLBI Cardiothoracic Surgery Research Update. Presented to Suburban Hospital Board of Directors. Bethesda, MD. June 10, 2013
188. Horvath KA. Cardiac Stem Cells for Advanced Cardiac Disease. Presented to Suburban Hospital and Johns Hopkins Medicine Cardiovascular Symposium. September 21, 2013
189. Zhou Y, Wang S, Yu ZX, Hoyt RF, Hunt T, Kindzelski B, Shou D, Xie W, Du Y, Liu C, Horvath KA. Induced Pluripotent Stem Cell Transplantation in the Treatment of Porcine Chronic Myocardial Ischemia. Presented at the 49th Society of Thoracic Surgeons (STS) Annual Meeting 1/2014
190. Horvath KA. Post-operative Infections: A Contemporary Reassessment of the Types and Impact, given at the 50th annual STS. January 25, 2014
191. Horvath KA. The Use of Mesenchymal Stem Cells to Improve LV Function as an Adjunct to Surgical Revascularization, given at NIH Clinical Center Grand Rounds. Wednesday, February 19, 2014
192. Horvath KA. Obtaining Research Funding. AATS Leadership Academy. 94th Annual Meeting of the American Association of Thoracic Surgeons. Toronto, ON, Canada. April 25, 2014
193. Zhou Y, Singh AK, Hoyt RF, Wang S, Yu ZX, Mohiuddin MM, Kindzelski B, Horvath KA. Regulatory T Cells Enhance Mesenchymal Stem Cell Survival and Proliferation following Autologous Co-Transplantation in Ischemic Myocardium. Presented at the 94th American Association of Thoracic Surgeons (AATS) Annual Meeting. Toronto, ON, Canada. April 29, 2014.

194. Horvath KA. Real time MRI Guided Cardiac Surgery, Treatment of End Stage Coronary Artery Disease with Mesenchymal Stem Cells. Anzhen Hospital in Beijing. July 2, 2014
195. Horvath KA. Surgical Approaches to Mitral Valve Disease. Suburban Hospital, Bethesda, MD. September 13, 2014
196. Horvath KA. Stem Cell Therapy for Severe Coronary Artery Disease. NCI Intramural Conference, Bethesda MD, December 15, 2014
197. Horvath KA. Heart Health and You. Worth Summit Meeting, Johns Hopkins Medicine, San Francisco CA, March 5, 2015
198. Horvath KA. Cardiac Surgery Research at the NHLBI. Osher Seminar Series, Johns Hopkins University, Rockville MD, April 14, 2015
199. Horvath KA. Advances in Cardiac Surgery: from the Files of the NHLBI. Berquist-Reed Memorial Lectureship, Portland OR, April 28, 2015
200. Horvath KA. What Numbers are Important for Your Heart. Worth Summit Meeting, Johns Hopkins Medicine, Greenwich CT, October 4, 2015
201. Horvath KA. Innovations in Cardiac Surgery: From the Files of the NHLBI. Beijing University Medical School, Beijing CN, August 8, 2015
202. Horvath KA. So You Want to Be a Heart Surgeon? Surgery Interest Group Meeting. Georgetown University Medical School, Washington DC, January 19, 2016
203. Horvath KA. CTSN Trials of Ischemic Mitral Regurgitation. Cardiology Grand Rounds Webinar, Washington Hospital Center, Washington DC, June 22, 2016
204. Horvath KA. Repair, Replace or Ignore: What is the Best Treatment for Ischemic Mitral Regurgitation? Patient Centered Outcomes Research Institute, Washington DC, December 16, 2016.
205. Horvath KA. How to Succeed in Surgery without Really Trying. Student Interest Group. Georgetown University School of Medicine, Washington DC, January 24, 2017.
206. Horvath KA, Orlowksi JM. Designing Innovative Transitions. Group on Resident Affairs Meeting, AAMC, Washington DC, April 24, 2017.
207. Horvath KA. Status of Single Accreditation System – Role of AAMC. Council of Medical Specialty Societies, Chicago, IL, May 12, 2017.
208. Horvath KA. Alternative Payment Models: Controlling Costs and Improving Quality. FPSC Annual Conference, Chicago IL, June 16, 2017.
209. Horvath KA. Mock Hill Visit. STS Advocacy. STS Annual Meeting, Ft. Lauderdale FL, January 29, 2018.

210. Whelan A, Horvath KA. Transition to GME: A Smooth Path or a Rocky Road? ACGME Annual Meeting, Orlando FL, March 2, 2018.