

-CURRICULUM VITAE-

PART I: General Information

Date prepared: January 09, 2012

Name: Emile Antoine Bacha, M.D.

Place of birth: Beirut, Lebanon

Citizenship: German (permanent US residency “Green Card”)

Family: Married: Gael Bacha (née Donohue)

Children: Christelle, Celine, Charles

Education:

4/1989 M.D. Ludwig-Maximilians-Universität, Munich, Germany

Post-doctoral Training:

7/1989-6/91 Internship and Residency, General Surgery, Klinikum Grosshadern University Hospital and German Heart Center, Ludwig-Maximilians-Universität, Munich

7/1991-6/93 Residency, General Surgery, Massachusetts General Hospital, Harvard Medical School, Boston

7/1993-6/95 Residency, General Surgery, Emory University School of Medicine Affiliated Hospitals, Atlanta

7/1995-6/96 Research Fellowship, Laboratoire de Chirurgie Expérimentale, Hôpital Marie-Lannelongue, Université Paris-Sud, Paris, France

7/1996-12/98 Residency, Cardiothoracic Surgery, Massachusetts General Hospital and Children’s Hospital Boston, Harvard Medical School, Boston

Licensure:

1989 Germany (Federal License)

1991 ECFMG (397-427-6)

1994 Georgia (039039) (inactive)

1995 Massachusetts (152285) (active)

2000 Illinois (036101834) (active)

2009 New York State (255773-1) (active)

Board Certification:

1996 American Board of Surgery (#41704)

2000 American Board of Thoracic Surgery (#6345) - recertified 2009

2009 American Board of Congenital Heart Surgery (Subspecialty) (#14)

Academic Appointments

1/1999-12/99 Harvard Medical School, Instructor in Surgery,

2/2000-6/2002 The University of Chicago, Clinical Associate

7/2002-5/2005 The University of Chicago, Assistant Professor of Surgery and Pediatrics

7/2005- 12/09 Harvard Medical School, Associate Professor of Surgery

1/2010- Columbia University College of Physicians and Surgeons,

1/2010- Professor of Surgery
Weill Cornell Medical College, Adjunct Professor of Surgery

Hospital or Affiliated Institution Appointments:

1/99-12/99 Assistant Surgeon, Cardiac Surgery, The Children's Hospital, Boston
1/2000-5/2005 Director, Pediatric and Congenital Heart Surgery, The University of Chicago Hospitals, Chicago, IL
5/2005-12/09 Senior Associate, Department of Cardiac Surgery, Children's Hospital, Boston
6/2006-12/09 Chief, Adult Congenital Heart Disease Surgery, Children's Hospital Boston
7/2008-12/09 Director, Congenital Heart Valve Disease Center, Children's Hospital Boston
1/2010- Consultant Staff, Cardiac Surgery, Children's Hospital Boston
1/2010-present Chief, Section of Congenital and Pediatric Cardiac Surgery, Morgan Stanley Children's Hospital of New York-Presbyterian and Cornell-Weill Campus
7/2011-present Chief, Division of Cardiothoracic Surgery, Columbia University Medical Center/New York-Presbyterian

Other Professional Positions and Major Visiting Appointments:

6/2001-5/2005 Staff Surgeon (Affiliated Faculty), Division of Cardiothoracic Surgery, Rush-Presbyterian Medical Center
7/2002-5/2005 Staff Surgeon (Voluntary Attending), Pediatric Cardiac Surgery, Cook County Hospital
1/2006-2009 Associate Surgeon, Cardiac Surgery, Brigham and Women's Hospital, Boston
6/2006-2009 Courtesy Staff, Beth Israel-Deaconess Medical Center, Cardiac Surgery, Boston

Professional Societies:

1997- American College of Cardiology (ACC) - Fellow
1997-99 American Association for Respiratory Care (AARC) - Member
1998- Massachusetts General Hospital Surgical Alumni Society - Member
1997- International Society for Heart and Lung Transplantation (ISHLT) - Member
1998- The Society of Pediatric Cardiovascular Surgery Aldo R. Castaneda - Member
2000- The University of Chicago Surgical Society - Member
1999- American International Health Council - Member
2003- The Chicago Cardiothoracic Surgical Society - Founding Member
2003- Rush Surgical Society - Member
2003- The Congenital Heart Surgeon's Society - Member
2004- The Society of Thoracic Surgeons (STS) - Member
2004- The Lunar Society - Member
2005- The American Association for Thoracic Surgery (AATS) - Member
2006- The European Association for Cardio-Thoracic Surgery (EACTS) – Member
2007- The American College of Surgeons - Fellow
2007- World Society for Pediatric and Congenital Heart Surgery – Founding Member

Department and University Committees:

2000-2001 Member, Credentialing Committee for Lap. Procedures, University of Chicago

2001-2002 Member, Faculty Compliance Advisory Committee, The University of Chicago
2001-2004 Member, Operating Room Steering Committee, The University of Chicago
2005-2006 Member, Program for Patient Safety and Quality Committee (PSQ)-
Measurement Committee, Children's Hospital Boston
2005-2009 Physician Liaison, The International Office, Children's Hospital, Boston
2006-2009 Director, Cardiac Surgery Fellowship, Children's Hospital Boston
2007 Member, Organizing Committee, 5th course on Frontiers in Diagnosis and
Management of Congenital heart Disease, Children's Hospital Boston
2008-2009 Director, Congenital Heart Valve Center, Children's Hospital Boston
2007-2009 Member, Cardiovascular Program Clinical Practice Guidelines Committee,
Children's Hospital Boston
2007-2008 Chair, Surgical Physician Performance Metrics Committee, Children's Hospital
Boston
2008 Member, Search Committee for Chief of Pulmonary Hypertension Service,
Children's Hospital Boston
2008 Member, Search Committee for Chief of Invasive Cardiology, Children's
Hospital Boston
2008 Member, Cardiovascular Program Operating Committee, Children's Hospital
Boston
2008 Member, Children's Hospital Boston Quality and Safety Leadership
Development Program, Harvard Business School (April 28-30, 2008)
2010 Board of Directors, Carmen and John Thain Center for Prenatal Pediatrics,
Columbia University Medical Center
2010 Member, Columbia University, Department of Surgery, Committee on
Appointments and Promotions (COAP)
2010 Member, Columbia University, Department of Surgery, Research Committee
2010 Member, Morgan Stanley Children's Hospital of New York-Presbyterian,
Operating Room Committee

National and International Committees:

The American Association for Thoracic Surgery (AATS)

2003- Research Committee Board Member, The Thoracic Surgery Foundation for
Research and Education (TSFRE)
2007- AHRQ Clinical Review Panel (Surgical Resections and Cardiac Care Panel):
AATS/STS representative
2009-2012 Member, Education Committee
2009-2012 Member-at-Large, Program Committee
2012-13 ad-Hoc congenital abstract reviewer
2011 Chair, combined AATS/STS/EACTS Congenital Heart Disease Symposium (92nd
Annual Meeting of the AATS)

The Congenital Heart Surgeon's Society (CHSS)

2004-2014 Member, Resource and Development Committee, CHSS
2009-2011 Member, Education Committee, CHSS

The Society of Thoracic Surgeons (STS)

2006-2013 Member, Workforce on Patient Safety
Organizer and Chair: STS Patient Safety Symposium 2010 and 2011
2007-2008 Member, STS Congenital Heart Surgery Database Task Force
2007- Member, STS Task Force to develop National Quality Forum (NQF) Indicators
for Pediatric Cardiac Surgery
2008-2012 Member, Workforce on Annual Meeting, Society of Thoracic Surgeons (STS)

- 2010-2013 Co-Chair, Taskforce on Surgical Symposia
Member, Workforce on Surgical Treatment of Adults with Congenital Heart Disease
- 2012 Co-chair, Intraoperative Echo & Decision Making in Cardiovascular Surgery Symposium, STS 48th Annual Meeting, Fort Lauderdale 02/12
- 2012 Co-Chair, Congenital Heart Surgery Symposium, Fort Lauderdale
- 2013 Course Director, “Controversies in Aortic Valve Repair in Congenital Patients”, STS 49th Annual Meeting, Los Angeles

Other:

- 1998-2008 Member, International Society for Heart and Lung Transplantation (ISHLT) Pediatric Council
- 7/2003 Participation as Invited Expert, Senate Governmental Affairs Committee Hearing on Tissue Banks, Washington, DC
- 2003-2005- Medical Advisory Board Member, The Children’s Heart Foundation
Member, The Multi-Societal Database Committee for Pediatric and Congenital Heart Disease
- 2008-2010 Member, American Heart Association (AHA) Scientific Statement Writing Group on “Indications for Catheterization and Intervention in Children with Congenital Heart Disease”
- 2008 Committee member, Data Safety Monitoring Board (Edwards Pulmonic THV Trial)
- 2009 American College of Cardiology (ACC): Adult Congenital and Pediatric Cardiology Council
- 2010- Member and International Liaison, Congenital Heart Surgery Domain, European Association of Cardio-Thoracic Surgery (EACTS)
- 2010-2011 Chair, Patient Safety Symposium, 2010 and 2011, Society of Thoracic Surgeons (STS) meeting
- 2010 Co-organizer, combined AATS-STSEACTS Post-graduate Congenital course, Geneva, 2011
- 2010 Member, Medical Advisory Board, The Children's Heart Foundation, New York chapter
- 2011 co-director, STS Congenital Heart Surgery Symposium, The Society of Thoracic Surgeons 47th Annual Meeting, San Diego, CA and 48th 47th Annual Meeting, fort Lauderdale, FL
- 2012 Chair, Congenital Heart Surgery Post-Graduate course, AATS 2012
- 2012 Member, American Board of Thoracic Surgery Congenital Heart Surgery Consultant Subcommittee
- 2012 Surgeon Scientific Council of the American College of Surgeons (ACC) (Apr 2012 - Mar 2015)

Honors:

- 1989 Doctoral Thesis (*Summa Cum Laude*)
- 1985-1989 Scholar of the German National Scholarship Foundation (“Studienstiftung des deutschen Volkes”)
- 1995 Simone et Cino del Duca Foundation Research Award, Paris, France
- 1998 Finalist, Young Investigators Award, European Association for Cardio-Thoracic Surgery, Brussels, Belgium
- 2009 TSFRE (Thoracic Surgery Foundation for Research and Education) Education Award Recipient

- 12/2004 Visiting Professorship, "Update on Congenital Heart Surgery", The Alexandria Military Hospital, Alexandria, Egypt
- 2/2005 Keynote speaker:
 1. "Hybrid Approaches to HLHS"
 2. "Surgical Approaches to D-TGA"
 The 4th Charleston Mini-Symposium on Congenital Heart Disease, Charleston, SC
- 10/2006 Keynote Speaker: "Recent progress in the management of single ventricle" and "Hybrid procedures in pediatric cardiac surgery"
 Korean Society of Circulation (KSC). Seoul, South Korea
- 11/2007 Visiting Professorship, German Heart Center (Munich), Aortic Translocation procedure (Nikaidoh Procedure)
- 06/2007 Visiting Professor: "Myocardial protection and Cardiopulmonary bypass in the neonate: Issues and best practices".
 Hospital Beneficencia Portuguesa de Sao Paulo, Sao Paulo, Brazil
- 05/2008 Keynote Speaker: "Complex transpositions: what to expect in 2008?"
 Plenary Lecture: "Fontan conversions and arrhythmia treatment"
 1st Joint Meeting of the 18th European Congenital Heart Surgeons Association and 43^d Association for European Pediatric Cardiologist (AEPC), Venice, Italy
- 10/2008 Keynote speaker: 1. "Borderline left ventricle"
 2. "Hybrid Procedures in Congenital Heart Surgery"
 National Meeting of the German Association of Pediatric Cardiologists (Jahrestagung der Deutschen Gesellschaft für Kinderkardiologie), Ulm, Germany
- 10/2009 Visiting Professorship, "Dr. Farouk Idriss Lecture": Human Factors and Prevention in Pediatric Cardiac Surgery, Chicago Children's Memorial, IL
- 11/2009 Honorary Invited Lecture: "Interest of basic science and surgical research for innovative procedures in congenital heart surgery", Pediatric Heart Surgery in Normothermia Workshop, Marie-Lannelongue Hospital, Paris-Sud University, Le Plessis-Robinson, France
- 03/2011 Visiting Professor, Universite de Montreal, Saint-Justine Hospital
- 2011 New York Metro Area's Top Doctors by Castle Connolly
- 10/2012 Visiting Professor, Cleveland Clinic Heart Institute
- 12/2012 14th Anthony R.C. Dobell Visiting Professor to McGill University, Montreal
- 07/2013 3rd Brielle Grace Lackey Visiting Professor in Congenital Cardiac Surgery, Portland Children's Hospital, Portland, OR

Editorial Boards:

- 2004- Surgical Editor, *Pediatric Cardiology*
- 2007-2010 Member, Editorial Board, *The Journal of Thoracic and Cardiovascular Surgery*
 ("Top 10" Reviewer award 2008, 2009, 2010)
- 2011- Associate Editor, *The Journal of Thoracic and Cardiovascular Surgery*
- 2009- Member, Editorial Board, *World Journal for Pediatric and Congenital Heart Surgery*
- 2007-08 Member, Editorial Committee, *Cardiology in the Young* (Supplement)
 "Complications associated with the treatment of patients with congenital heart disease"

- 2012 Guest Editor, *Pediatric Cardiac Surgery Annual* of the Seminars in Thoracic and Cardiovascular Surgery, 2013 edition
- 2012 Associate Editor, "*Frontiers in Pediatric Cardiology*",

Ad Hoc Reviewer: *Circulation*
The Annals of Thoracic Surgery
Journal of the American College of Cardiology (JACC)
Journal of Heart Valve Disease
The Journal of Invasive Cardiology
Expert Review of Cardiovascular Therapy
American Journal of Cardiovascular Drugs
The Journal of Cardiac Surgery
Pediatrics
Congenital Heart Disease
Surgery
Cardiology
World Journal of Surgery
Evaluation & the Health Professions

Grant Support:

- 2001-2006 “Repression of cardiac β -myosin heavy chain gene during heart failure”, Resource Person and Consultant, (RO1 HL68083; total award: \$1.3M), NIH
- 2002-2005 “Human factors and patient safety during infant cardiac surgery”, co-P.I., (0330274N; total award \$200,000), American Heart Association (AHA)
- 2004 “Development of a pediatric percutaneous Ventricular Assist Device”, Consultant, (1 R43 HL078077-01; \$37,000), NIH
- 2006-2007 “Congenital Heart Disease Multi-Societal Database Project to Create a Universal Encyclopedia for Definitions of Preoperative Risk Factors and Postoperative Complications Related to Congenital Heart Surgery and Interventions”(total award: \$100,000), co-P.I., Children’s Heart Foundation
- 2008-2009 “Human Factors and Patient Safety During Congenital Heart Surgery”, P.I., (total award: \$90,000) Children’s Heart Foundation
- 2009-2010 “Improving performance of emergent ECMO cannulation in Pediatric Cardiac Surgery using High-Fidelity Simulation”, P.I., (total award: \$18,000), Thoracic Surgery Foundation for Research and Education (TSFRE)
- 2009-2010 “What defines a safer team in pediatric cardiac surgery? Hazard Prevention vs. Compensation from Adverse Events”, P.I. (total award \$20,000), Program for Patient Safety and Quality (PPSQ), Children’s Hospital Boston
- 2010-2013 “Human Factors and Patient Safety during Pediatric Heart Surgery: An Evidence-based Approach to Improve Patient Outcomes”, co-

- PI, “Chief Investigator D”; University of Sydney (total award \$800,000; project grant 630654) NHMRC
- 2010-2011 Multisite pacing after surgery for single ventricle palliation. \$3,900 (Vinod Havalad, MD), Startup Grant, Department of Surgery, Columbia University, P.I.
- 2011-2012 Multisite pacing after heart transplantation for congenital heart disease \$4,286 (Linda Aponte-Patel, MD) Startup Grant, Department of Surgery, Columbia University, P.I.

Teaching experience and responsibilities:

Clinical teaching:

- 1999 Children’s Hospital, Harvard Medical School. Supervisory and teaching responsibility to residents in the area of pediatric cardiac surgery
- 2000-2005 The University of Chicago Hospitals. Supervisory and teaching responsibility to residents and fellows in the area of pediatric cardiac surgery
- 2005-2009 Children’s Hospital, Harvard Medical School. Supervisory and teaching responsibility to students and residents in the area of pediatric cardiac surgery

Teaching lectures:

- 2000-2004 University of Chicago Pritzker School of Medicine: Core Curriculum lectures “Cardiac Surgery” for 3d and 4th year medical students
- 2000-2004 Neonatology Teaching Rounds, The University of Chicago Hospitals, Cardiac pathophysiology and embryology, Chicago, IL
- 4/2000 Cardiac Seminar, The University of Chicago Hospitals, Invited speaker: “Congenital heart disease in children and adults”. Chicago, IL
- 5/2000 Surgery Grand Rounds, The University of Chicago Hospitals, Invited speaker: “Recent advances in neonatal cardiac surgery”. Chicago, IL
- 5/2000 Pediatrics Grand Rounds, The University of Chicago Children’s Hospital, Invited speaker: “Improving outcomes in neonatal cardiac surgery”. Chicago, IL
- 8/2000 Pediatrics Grand Rounds, St Elizabeth Hospital, Invited speaker: “Improving outcomes in neonatal cardiac surgery”. Chicago, IL
- 9/2001 Perinatology Rounds, Good Samaritan Advocate Hospital, Invited speaker: “Hypoplastic left heart syndrome: clinical and ethical considerations”. Chicago, IL
- 7/2003 Cook County Hospital Neonatology Grand Rounds, Invited speaker: “Advances in Congenital Heart Surgery. Chicago, IL

- 3/2004 Pediatric Grand Rounds, Cook County Stroger Hospital. Invited speaker: “Hybrid Pediatric Cardiac Surgery”. Chicago, IL
- 5/2006 Pediatric Care Summit, South Shore Hospital, Boston. Invited speaker: “The Future of Pediatric Cardiac Surgery.”
- 5/2007 Massachusetts General Hospital Cardiac Surgery Resident weekly conference: “Hybrid Pediatric Cardiac Surgery”
- 04/2008 Children's Hospital Boston Cardiology Residents weekly conference: “The history of Cardiac Surgery”
- 09/2008 Harvard Medical School, Human Functional Anatomy Course: The Pediatric Heart and Congenital Heart Defects”
- 10/2009 Harvard Medical School, Human Functional Anatomy Course: The Pediatric Heart and Congenital Heart Defects”

Continuing Medical Education:

- 2003 Emerging New Technologies in Congenital Heart Surgery (ENTICHS-I) Orlando, FL, Co-Founder
- 2/03 American Association of Critical Care Nursing, 6th Cardiovascular Symposium, Chicago, IL, Invited Lecturer
- 2004 Emerging New Technologies in Congenital Heart Surgery (ENTICHS-II) (in conjunction with PICS-VII), Chicago, IL, Invited Lecturer
- 10/04 90th Annual American College of Surgeons Clinical Congress Postgraduate Course, New Orleans, LA
- 10/04 Great Wall International Congress of Cardiology, Seminar: Symposium on Congenital Heart Disease, Beijing, China
- 2005 abstract grader, American College of Cardiology (ACC) 2006
- 2006 Abstract grader, ACC 2007
- 2006 Abstract grader, AATS 2007
- 2007 Abstract grader, ACC 2008
- 2007 Post-Graduate course in Congenital Heart Surgery, The Society for Thoracic Surgery (STS), San Diego, CA, Lecturer
- 2007 American College of Cardiology (ACC), “Emerging therapies in HLHS”, Session Chair, New Orleans, LA
- 2007 co-Director, PICS 2007
- 2008 Member, Program Committee, 2d World Summit on Pediatric and Congenital Heart Surgery Services, Education and Cardiac Care for Children and Adults with Congenital Heart Disease, June 2008, Montreal
- 2008 SESATS X Writing committee member
- 2008 Abstract grader, AHA 2008
- 2008 Abstracts and Video reviewer, The Society of Thoracic Surgeons (STS) 45th Annual Meeting 2009
- 2008 Ad Hoc Abstract Review Committee, 89th AATS meeting 2009
- 2009 Abstract grader, AHA 2009

03/2008	Chair, Meet-the-Experts Session 223 (VSD: selection of patients for percutaneous vs. perventricular closure), American College of Cardiology (ACC), Chicago, IL
06/2008	Instructor, Hybrid Animal Lab, Ohio State University, International Symposium on Hybrid Approach in Congenital Heart Disease, Columbus, OH
03/2009	Member, SCAI/AATS (Society for Cardiovascular Angiography and Interventions/American Assoc. of Thoracic Surgery) Writing Committee on “Stents for Branch Pulmonary Arteries” (AATS representative)
11/2009	Pediatric Aero-Digestive Disorders: Evaluation and Management, Harvard Medical School, “Trachea and bronchi anomalies” and “Airway Surgery”
2009	Abstracts and Video reviewer, The Society of Thoracic Surgeons (STS) 46 th Annual Meeting 2010
2009	Ad Hoc Abstract Review Committee, 90 th AATS meeting 2010
2009	Abstract grader, ACC 2010
1/2010	Member, Planning Committee and Moderator, STS Parallel Surgical Symposium: Congenital
2010	Abstract grader, AATS 2011
2010	Abstract grader, ACC 2011
2011	Chair, 2012 AATS/STS Congenital Heart Disease Postgraduate Symposium, San Francisco, CA
2011	abstract grader STS 2012 and AATS 2012
2012	abstract grader STS 2013 and AATS 2013

Advisees or trainees in research setting:

2002	Ashraf Darwish (Current position: Medical Student, Southern Illinois University)
2003-2004	Cynthia Galvan, (Current position: ER resident, University of Chicago/Pritzker School of Medicine)
2004-2005	Asima Khan (Current position: Medical Student, University of Chicago/Pritzker School of Medicine)
2006-2008	L. Alesandro Larrazabal, MD (Recipient of the Tommy Kaplan Cardiology Fellowship Award, Children's Hospital Boston, 2006-2007)
2008-2009	Lale Hakami, MD (current position: Chief of Pediatric Cardiac Surgery University of Mainz, Germany)
2009	John Karamichalis, MD (current position: staff Pediatric Cardiac Surgeon, UCSF)
2009-2010	Meena Nathan, MD (current position: Attending pediatric cardiac surgeon, Connecticut Children’s Hospital, Hartford, CT), winner: John A. Hawkins, MD, top scoring abstract award, Congenital Heart Surgeon’s Society meeting 2011

- 2010- Vinod Havalad, MD (Scholarship Oversight Committee, American Board of Pediatrics)
- 2010-2011 Rabin Gerrah, MD, currently staff at Portland Oregon
- 2011-2012 Mohammed Nuri, MD
- 2012-2013 Roland Henaine, MD, currently staff pediatric cardiac surgeon at Lyon (France) University Hospital

Other professional activities:

Regional, National, or International Contributions (since 2000):

Regional: Invited presentation

- 10/2002 Plenary presentation: “Patch pulmonary valvuloplasty during primary correction of tetralogy of Fallot.” Midwest Pediatric Cardiology Society, Chicago, IL
- 1/2003 Lecture, “Biventricular repair after prenatal diagnosis” 2d CAPP meeting (Chicagoland Association of Prenatal and Postnatal Professionals), Chicago, IL
- 9/2003 Plenary presentation: “Perventricular Device Closure of Muscular VSDs on the Beating Heart”. 27th Midwest Pediatric Cardiology Meeting, Rochester, MN
- 3/2006 Invited lecture: Hybrid procedures in Pediatric cardiac surgery. Northern New England Pediatric Cardiologists, Boston, MA
- 5/2006 Invited lecture: Temporary and permanent epicardial CRT. “SYNCHRONICITY – A multidisciplinary approach to cardiac resynchronization in congenital heart disease”, Boston, MA
- 10/2007 Invited Lecture: Human Factors in the pediatric cardiac OR. “RISKY BUSINESS”, Boston, MA
- 2/2008 Invited Lecture: “Hybrid Procedure in Congenital heart surgery”, Hasbro Children’s Hospital, Pediatric Heart Center, Providence, R.I.
- 03/2008 Invited Lecture: “Surgical performance in Congenital Heart Surgery: Can we measure it? New England Pediatric Cardiologists Tri-Annual meeting, Boston, MA
- 05/2008 Grand Rounds “Hybrid congenital heart surgery”, Dartmouth Hitchcock Medical Center, Lebanon, NH
- 09/2008 “Measurement and Reduction of Avoidable Adverse Events During Intervention on Children with Congenital Heart Disease?”, 4th Annual Cardiac Leadership Summit on Safety, Partners HealthCare, Boston, MA
- 10/2008 “Human Factors in the Cardiac OR”. Surgery and Anesthesia Grand Rounds, Children's Hospital Boston
- 10/2008 “The Arterial Switch Procedure”, Symposium: Morphology in Congenital Heart Disease with Imaging and Surgical Correlation, MGH, Boston, MA
- 12/2008 Pediatric Grand Rounds Visiting Professorship Series, Baystate Children’s Hospital, Springfield, MA
- 03/2010 “Hybrid procedures in pediatric heart surgery”, Columbia NICU Grand Rounds

- 05/2010 “Impact of Fetal Intervention on Neonatal congenital heart surgery” 1st Annual New York fetal Cardiovascular Medicine Conference, Columbia University Medical Center, NY
- 05/2010 “Surgical Competency and Human Factors in the Pediatric Cardiac OR”, Grand Rounds, Department of Anesthesia, Columbia University Medical Center, New York Presbyterian Hospital
- 05/2010 “Hybrid procedures in pediatric heart surgery”, Pediatrics Grand Rounds, Morristown Memorial Hospital, NJ
- 11/2010 NYP/Columbia 6th Annual Nurses’ Symposium, “Hybrid procedures in pediatric heart surgery”

National: Invited presentation

- 4/2000 “Aortic valve repair for congenital aortic regurgitation: Precise and varying surgical intervention based on preoperative 2-D and 3-D echocardiographic imaging and surgical inspection”, The American College of Cardiology (ACC), Anaheim, CA
- 5/2000 “Long-Term Follow-Up after Early Primary Repair of Tetralogy of Fallot”. The American Association of Thoracic Surgery (AATS), Toronto, Canada
- 9/2000 “Surgical management of peripheral pulmonary stenosis”. The Fourth Pediatric Interventional Cardiac Symposium (PICS-IV), Plenary session: Chicago, IL
- 10/2000 “Comprehensive management of swiss cheese septum: Intraoperative device placement and patch closure”. Congenital Heart Surgeon’s Society Annual Meeting (CHSS), Chicago, IL
- 11/2000 “Valve repair for congenital aortic regurgitation: successful short-term results indicate reduced ventricular size and magnitude of aortic regurgitation and improved left ventricular remodeling”, American Heart Association (AHA), New Orleans, LA
- 2/2003 “Adult congenital heart disease: surgical issues” American Association of Critical Care Nursing, Sixth Cardiovascular Symposium. Chicago, IL
- 5/2003 Lecture, “Perventricular device closure of muscular ventricular septal defects on the beating heart: Technique and results”. The Society of Pediatric Cardiovascular Surgery Aldo R. Castaneda, Boston, MA
- 6/2003 “Hybrid Congenital Cardiac Surgery: New Therapeutic Avenues”. The International Society for Minimally Invasive Cardiac Surgery (ISMICS), San Francisco, CA
- 9/2003 “Peratrial and perventricular device closure of heart defects”, 7th Pediatric Interventional Cardiac Symposium (PICS), Orlando, FL
- 9/2003 “Robotic Pediatric Cardiac Surgery”. The Congenital Heart Surgeon’s Society Annual Meeting (CHSS). Chicago, IL
- 9/2003 “Current status of the Ross Procedure”. Annual Clinical Assembly of Osteopathic Specialists, Chicago, IL

- 11/2003 “Results of perventricular device closure of muscular VSDs on the beating heart”. American Heart Association Meeting (AHA), Orlando, FL
- 1/2004 “Ventricular resynchronization by multisite pacing improves myocardial performance in the post-operative single ventricle patient” The Society of Thoracic Surgeons (STS), San Antonio, TX
- 9/2004 “Hybrid stage I palliation for HLHS”. 8th Pediatric Interventional Cardiac Symposium (PICS), Chicago, IL
- 10/2004 “Update In Congenital Heart Surgery”, 90th Annual American College of Surgeons (ACS) Clinical Congress Postgraduate Course, New Orleans, LA
- 10/2004 “Hybrid Palliation for HLHS”, American Medical Association (AMA) 23rd Science Reporters Conference, Washington, DC
- 4/2005 “Single ventricle palliation in high-risk neonates: the emergence of an alternative hybrid stage I strategy.” 85th Meeting of The American Association of Thoracic Surgery (AATS), San Francisco, CA
- 5/2005 “Changing indications in the use of Allografts”. Cardiac Surgery Fellows Program, Cryolife, Atlanta, GA
- 1/2006 “Homograft Downsizing: how to increase the use of homografts” Cardiac Homograft Meeting, Cryolife, Salt Lake City, UT
- 2/2006 Lectures: 1. “Maintaining safety for the adult with congenital heart disease”
2.” Hybrid procedures for hypoplastic left heart syndrome”
3. “Conduits and prosthetic valves in young infants”
State of the Art Care of the neonate and infant with cardiovascular disease, Scottsdale, Arizona
- 2/2006 “Intraoperative complications and human factors”. STS Congenital Database Taskforce Meeting, Chicago, IL
- 4/2006 “Current Status of Hybrid Procedures in Pediatric Cardiac Surgery”. Post-Graduate Course in Pediatric Cardiac Surgery, Meeting of The American Association of Thoracic Surgery (AATS), Philadelphia, PA
- 6/2006 1. what you need to start a hybrid program: surgeon’s view;
2. Perventricular VSD closure
-Proctor: Hybrid animal Lab (Ohio State University)
International Symposium on the Hybrid Approach to Congenital heart Disease (ISHAC), Columbus, OH
- 1/2007 -Invited Lecture: “Hybrid Procedures”, Post-Graduate course in Congenital Heart Surgery,
-Chairman, “Meet the Experts session”: Hybrid Surgery for HLHS
-Invited presentation: Technical Performance self evaluation methodology, Workforce on Congenital Heart Surgery
43d Meeting of The Society for Thoracic Surgery (STS), San Diego, CA
- 02/2007 “Hybrid Approaches for HLHS”, 7th Annual International Symposium on Congenital Heart Disease. St Petersburg, FL
- 03/2007 “Emerging therapies in HLHS”, and Session Chair, American College of Cardiology (ACC), New Orleans, LA

- 05/2007 “Late right ventricular failure: Right ventricular remodeling surgery and cardiac transplantation.”
1st meeting of the World Society for Pediatric & Congenital Heart Surgery, Washington, DC
- 06/2007 -Invited Lectures: 1. Stents and cardiac surgery
2. Real-Time 3D echo and Septal Defects
-Proctor: Hybrid animal Lab (Ohio State University)
2007 International Symposium on the Hybrid Approach to Congenital Heart Disease (ISHAC), Columbus, OH
- 01/2008 “Aortic valve repair”
44th annual STS meeting, Post-Graduate Course, Congenital Heart Surgery Symposium, Fort Lauderdale, FL
- 02/2008 “Can we measure a congenital heart surgeon’s performance?”
State of the Art Care of the neonate and infant with cardiovascular disease, Scottsdale, AZ
- 05/2008 “Catheter-based and hybrid techniques in Congenital Heart Surgery”.
88th Annual AATS meeting, Post-Graduate Course: Transcatheter Approaches to Structural Heart Disease, San Diego, CA
- 06/2008 “The evolving Surgical Approach to HLHS”.
2008 International Symposium on the Hybrid Approach to Congenital Heart Disease (ISHAC), Columbus, OH
- 07/2008 “Surgical options for the right ventricular outflow tract”.
Debater: “Critical Aortic stenosis”
Pediatric Interventional Cardiology Symposium (PICS-8), Las Vegas
- 01/2009 “Hazard Prevention vs. Compensation from Adverse Events: Safety in the Cardiac OR”. Society of Thoracic Surgeons (STS) Patient Safety Symposium, STS 45th Annual Meeting, San Francisco, CA
- 01/2009 Invited speaker/table instructor, STS University Course #9: Balloons, Stents, Devices and Hybrid Procedures for Pediatric Cardiac Surgeons, STS 45th Annual Meeting, San Francisco, CA
- 03/2009 Invited Lecture, “The Impact of Fetal Intervention on Surgical Outcomes for HLHS”, American College of Cardiology (ACC), Orlando, FL
- 03/2009 Invited Lecture, “Intraoperative Adverse Events in Pediatric Cardiac Surgery”, 12th International Vail Conference, Denver Children’s Hospital
- 05/2009 Invited Lecture, “Hybrid procedures other than for HLHS”, New Technologies and Procedures in Congenital and Acquired Heart Surgery”
The American Association of Thoracic Surgery (AATS), Boston, MA
- 05/2009 Invited Lecture, “Maze Procedure and Surgical Cryoablation Therapy”,
Heart Rhythm Society 30th Annual Scientific Sessions, Boston, MA
- 06/2009 “Minimally-invasive approaches to adult congenital heart disease.”
International Society for Minimally-Invasive Cardiac Surgery (ISMICS),
San Francisco, CA
- 09/2009 Evaluating surgical performance. 5th Annual Meeting of The Multi-Societal Database Committee for Pediatric and Congenital Heart Disease,
Atlanta, GA

- 10/2009 Pediatric Grand Rounds: “Human factors in high risk Pediatric Specialties: Influence on outcomes and patient safety”, Children’s Memorial Hospital, Chicago, IL
- 11/2009 Invited Lecture, “Reinterventions in Coarctation of the Aorta: when and how to intervene with surgical approach.” AHA 2009, Orlando, FL
- 02/2010 Invited Lecture, The Boston approach for HLHS with coronary fistulae. 10th Annual International Symposium on Congenital Heart Disease. St Petersburg, FL
- 04/2010 Invited Lecture, “Surgical repair of tetralogy of Fallot”, Postgraduate Course and 53d Annual Meeting of The Society for Pediatric Radiology, Boston, MA
- 07/2010 Invited Lecture, “Surgery vs. device closure of ASDs in small infants”
 “Surgical competence and human factors in cardiac surgery”
 “When to intervene in aortic stenosis: surgery vs catheter”
 Pediatric and Adult Interventional Cardiac Symposium (PICS and AICS 2010), Chicago, IL
- 09/2010 Invited Lecture, “Perventricular closure of VSDs”, Transcatheter Therapeutics (TCT) 2010 Symposium, Washington DC
- 01/2011 Invited Lecture, “Approaches to Pulmonary Valve Preservation in Tetralogy of Fallot Repair”, STS Congenital Heart Surgery Symposium, Society of Thoracic Surgeons 47th Annual meeting, San Diego, CA
- 02/2011 Invited Lectures: -“How Is “Competence” Determined in Pediatric Cardiac Surgery”
 -“The Arterial Switch Operation – Technique and Early Results”
 -“Debate--Radiofrequency Perforation of Atrietic Pulmonary Valves Should Be the Standard Approach”
 -“The Nikaidoh Procedure”
 Cardiology 2011 – 15th Annual Update on Pediatric and Congenital Cardiovascular Disease, Scottsdale, AZ
- 05/2011 Invited Lecture: AATS/STS Congenital Heart Disease Symposium: “Pulmonary Valve preservation and reconstruction in TOF surgery”, 91th Meeting of the AATS, Philadelphia, PA
- 05/2011 Invited lecture: “Results after the Hybrid Stage I operation”, 7th International Conference on Pediatric Mechanical Circulatory Support Systems & Pediatric Cardiopulmonary Perfusion, Philadelphia, PA
- 05/2011 Visiting Professor: Johns Hopkins Hospital “Hybrid procedures in Congenital Heart Surgery”
- 07/2011 Invited speaker: PICS 2011 – “The role of intraoperative pulmonary valve dilation in TOF surgery”, Boston, MA
- 10/2011 Invited speaker: Modern Day Management of Adults With Congenital Heart Disease (STS symposium)- “The Repeat Offender: Mitral Valve Surgery in Adults With Congenital Heart Disease”.
- 10/2011 Invited Lecture: Performance metrics for pediatric cardiac surgeons. American Academy of Pediatrics (AAP), Boston, MA
- 04/2012 Invited speaker: 1. Current role of the hybrid stage I; 2. RVOT stenting: pro or con, PICS 2012 meeting, Chicago
- 05/2012 Invited speaker: Enlarging the BVF or DKS, Congenital Skills course, AATS, San Francisco

- 05/2012 Chair and speaker: "Individual approach for stage I procedure", AATS Post-graduate symposium, AATS, San Francisco
- 06/2012 Visiting Professor, Pediatric Grand Rounds, Texas Children's Hospital, Houston, TX
- 10/2012 "Distinguished Visiting Professor', Cleveland Clinic, Cleveland, OH, "Hybrid Procedures in Congenital Heart Surgery"
- 11/2012 Invited speaker, AHA 2012, "Long-Term Outcomes: Is a Good Fontan Better than a Bad 2-Ventricle Repair?"
- 07/2013 3rd Brielle Grace Lackey Visiting Professor in Congenital Cardiac Surgery, Portland Children's Hospital, Portland, OR

International:

- 3/2000 Lecture, "Neonatal cardiac surgery". The 2nd Annual Conference of the Pediatric Cardiac Society of India, Lecture, Cochin, India
- 9/2002 "Dual Site Pacing Improves Hemodynamics after pediatric cardiac surgery", 16th Annual Meeting of the European Association of Cardio-Thoracic Surgery (EACTS), Monaco
- 10/2004 "Results of the hybrid stage I operation". First Joint Meeting of the Congenital Heart Surgeons Society (CHSS) and the European Congenital Heart Surgeons Association (EACTS), Montreal, Canada
- 10/2004 "Multi-site pacing after surgery for congenital heart disease". The Great Wall International Congress of Cardiology, Beijing, China
- 9/2005 Lectures: 1. "Hybrid techniques for HLHS". (Congenital Heart Surgeons Society Forum)
2. "Hybrid pediatric cardiac surgery". (Hybrid Seminar)
4th World Congress of Pediatric Cardiology and Cardiac Surgery, Buenos Aires, Argentina
- 9/2005 Plenary Lectures: 1. "Results after Hybrid stage I palliation"
2. "Between a rock and a hard place: Congenital heart surgery in the presence of stents"
9th Pediatric Interventional Cardiac Symposium (PICS), Buenos Aires, Argentina
- 11/2005 Invited Lectures: 1. "Results after surgical repair of aortic coarctation"
2. "Neonatal repair of tetralogy of Fallot"
Annual International Cardiovascular Conference (ICC 2005), Jeddah, Saudi Arabia
- 05/2006 Invited lectures: 1. "Single ventricle palliation"
2. "Hybrid therapy for muscular VSDs"
5th Pan-Arab Congenital Heart Disease Association (PACHDA) Meeting, Amman, Jordan
- 06/2006 "Hybrid Procedures in Congenital Heart Surgery" Children's Hospital La Timone, Marseille, France.
- 11/2006 Guest speaker: 1. "Tetralogy of Fallot: transannular patch or not?"
2. "Current results with HLHS therapy"
Chairman: HLHS session and TGA session

- 5th Annual International Cardiovascular Conference (ICC 2006), Jeddah, Saudi Arabia
- 12/2006 Invited Lectures: 1. "Current results with HLHS therapy"
2. "Infantile aortic coarctation"
Chairman: Session II, Infantile Cardiac Surgery
Al Bassel Heart Institute Cardiac Symposium, Damascus, Syria
- 09/2007 Invited Lecture: "Hybrid approaches for management of single ventricle"
Postgraduate Course, European Association of Cardio-Thoracic Surgeons (EACTS) meeting, Geneva, Switzerland
- 04/2008 Keynote Speaker: 1. "Ebstein's Disease"
2. "Status of single ventricle repair in 2008"
9th International Conference of the Jordan Cardiac Society, Amman, Jordan
- 06/2008 Invited Lecture: "The Importance of Basic Science Research in Congenital Heart Disease – From Bench to Bedside", 1st World Summit, The World Society for Pediatric and Congenital Heart Surgery, Montreal, Canada
- 10/2009 Invited presentation: "Hybrid procedures in Congenital Heart Surgery" European Association of Cardio-Thoracic Surgery (EACTS), Vienna, Austria
- 11/2009 Invited Lectures: -Hybrid procedures in Congenital Heart Surgery
-State-of-the-Art management of HLHS in 2009
19th World Society of Cardio-Thoracic Surgeons, Buenos Aires, Argentina
- 05/2010 Invited Lecture: AATS/STS Congenital Heart Disease Symposium: "The impact of fetal intervention on neonatal cardiac surgery", 90th Meeting of the AATS, Toronto, Canada
Discussant and session moderator, AATS 2010
- 09/2010 Chair, and invited Speaker, Post-Graduate Course Congenital Heart Disease, 24th Annual Meeting of the EACTS, 11-15 September 2010, Geneva, Switzerland
- 05/2011 Visiting Professor, 6th Kratz–Stanley Conference, Sainte Justine Hospital, Universite de Montreal, Montreal, Canada
- 10/2011 Chair, and invited Speaker, Post-Graduate Course Congenital Heart Disease, 25th Annual Meeting of the EACTS, October 2011, Lisbon, Portugal
- 10/2012 Invited speaker, The Beirut International Congress of Pediatric and Congenital Cardiology 2012, The American University of Beirut (AUB), Lebanon
- 12/2012 14th Anthony R.C. Dobell Visiting Professor to McGill University, Montreal

Part III. BIBLIOGRAPHY

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