**Curriculum Vitae**

**Alina M. Grigore, M.D., M.H.S., F.A.S.E., F.A.H.A.**

**PERSONAL INFORMATION**

**Education**

School: Duke University School of Medicine Clinical Research

Degree: M.H.S.

Dates: 1999 – 2000

School: University of Medicine and Pharmacy “Carol Davila” – Bucharest, Romania

Degree: M.D.

Dates: 1983 – 1989

**Postgraduate Education and Training**

Institution: Duke University Medical Center – Durham, North Carolina

(Mentor: Dr. Mark Newman)

Position: Fellowship, Cardiothoracic Anesthesiology

Dates: 1998 – 2000

Institution: St. Luke’s – Roosevelt Hospital

 A University Hospital of Columbia University College of Physicians and

Surgeons – New York, New York

Position: Residency Program Anesthesiology

Dates: 1995 – 1998

Institution: State University of New York – Stony Brook, New York, New York

Position: Residency Program (PGY-1, PGY-2), Internal Medicine

Dates: 1994 – 1995

Institution: State University of New York – Stony Brook, New York, New York

Position: Residency Program (PGY-1, PGY-2), Internal Medicine

Dates: 1994 – 1995

Institution: Fundeni Clinical Hospital – Bucharest, Romania

Position: Residency Program, Internal Medicine

Dates: 1989 – 1990

School: University of Medicine and Pharmacy “Carol Davila” – Bucharest, Romania

Degree: Instructor

Dates: 1989 – 1990

**Contact Information**

Home Address: 10919 Octave Drive Apt. 1223

 Zionsville, IN 46077

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**PROFESSIONAL APPOINTMENTS**

Position/Rank: **Chief, Division of Cardiovascular Anesthesiology**

 **Clinical Professor of Anesthesiology**

Institute/Dept.: Indiana University, Indiana

Dates: November 2022 to present

Position/Rank: **Vice-Chair, Anesthesiology**

Institute/Dept.: Charleston Area Medical Center – Charleston, West Virginia

Dates: October 2020 to present

Position/Rank: **Clinical Professor Anesthesiology Adjunct Appointment**

Institute/Dept.: West Virginia University – Morgantown, West Virginia

Dates: March 2020 to present

Position/Rank: **General Anesthesia Services**

Institute/Dept.: Charleston, West Virginia

Dates: April 2019 to present (April 2021 Shareholder)

Position/Rank: **Cardiovascular Anesthesiologist**

Institute/Dept.: Anesthesia Medical Group of Carolina Consultant, Atrium Health of

Carolina Medical Center – Charlotte, North Carolina

Dates: 2018 – 2019

Position/Rank: **Clinical Professor Anesthesiology, Adjunct Appointment**

Institute/Dept.: University of Nevada – Reno, Nevada

Dates: 2015 – 2018

Position/Rank: **Vice-Chair, Anesthesiology**

Institute/Dept.: Desert Springs Hospital – Las Vegas, Nevada

Dates: 2014 - 2016

Position/Rank: **Cardiovascular Anesthesiologist**

Institute/Dept.: Las Vegas, Nevada

Dates: 2013 – 2018

Position/Rank: **Associate Professor of Anesthesiology**

 **Director, Cardiothoracic Anesthesia**

Institute/Dept.: University of Maryland School of Medicine – Baltimore, Maryland

Dates: 2010 - 2013

**PROFESSIONAL APPOINTMENTS (continued)**

Position/Rank: **Associate Professor of Anesthesiology**

 **Director, Cardiac Anesthesiology Residency Curriculum**

Institute/Dept.: Mayo College of Medicine – Scottsdale, Arizona

Dates: 2007 – 2009

Position/Rank: **Associate Professor of Anesthesiology**

Institute/Dept.: Baylor College of Medicine, Texas Heart Institute – Houston, Texas

Dates: 2006 - 2007

Position/Rank: **Associate Professor of Anesthesiology**

Institute/Dept.: Baylor College of Medicine, Texas Heart Institute – Houston, Texas

Dates: 2006 - 2007

Position/Rank: **Director, Operating Rooms**

Institute/Dept.: Texas Heart Institute, St. Luke’s Episcopal Hospital – Houston, Texas

Dates: 2005 – 2007

Position/Rank: **Associate Professor of Anesthesiology**

Institute/Dept.: The University of Texas Health Science Center – Houston, Texas

Dates: 2000 – 2005

Position/Rank: **Director, Cardiovascular Anesthesia Echocardiography**

Institute/Dept.: Texas Heart Institute at St. Luke’s Episcopal Hospital – Houston, Texas

Dates: 2000 – 2007

Position/Rank: **Associate Cardiothoracic Anesthesiologist**

Institute/Dept.: Duke Medical Center – Durham, North Carolina

Dates: 1998 – 2000

**LICENSURE**

* 2020 Georgia Active
* 2019 West Virginia Active
* 2019 South Carolina Active
* 2013 Nevada Active
* 2009 Maryland Inactive
* 2007 Arizona Active
* 2000 Texas Active
* 1998 North Carolina Active Volunteer
* 1996 California Active

**MEMBERSHIP IN PROFESSIONAL SOCIETIES**

* 2013 – Present International Association of Anesthesiologists
* 2010 – Present American Heart Association
* 2009 – Present Association of Cardiac Anesthesiologists
* 2009 – Present Association of University Anesthesiologists
* 2006 – 2007 American Association of Clinical Directors
* 2000 – 2007 Texas Society of Anesthesiologists
* 2000 – 2007 Harris County Medical Society
* 1998 – 2007 Texas Medical Association
* 1998 – 2007 American Stroke Association
* 1998 – Present American Society of Echocardiography
* 1996 – Present Society of Cardiovascular Anesthesiology
* 1996 – Present American Society of Anesthesiologists
* 1996 – Present American Medical Association

**CERTIFICATIONS**

* 2021 American Board of Anesthesiology Recertification

 Diplomate of National Board of Echocardiography

 Perioperative Transesophageal Echocardiography Recertification

* 2008 American Board of Anesthesiology Recertification

 Diplomate of National Board of Echocardiography

 Perioperative Transesophageal Echocardiography Recertification

* 2002 ASA Certificate in Business Administration
* 1999 American Board of Anesthesiology

 Diplomate of National Board of Echocardiography

 Perioperative Transesophageal Echocardiography

* 1993 ECFMG

**AWARDS**

* 2013 – Present Top Doctor, International Association of Anesthesiologists
* 2013 – Present Fellow, American Heart Association
* 2013 – 2015 Editor, Current Opinion in Anesthesiology
* 2011 – Present Editorial Board of the Journal of Cardiothoracic and Vascular Anesthesia
* 2010 – 2012 Patients’ Choice Award
* 2010 – 2012 Compassionate Doctor Award
* 2009 Consumers’ Research Council of America
* 2009 America’s Top Anesthesiologists
* 2009 Association of Cardiac Anesthesiologists
* 2009 Association of University Physicians Member
* 2006 Fellow of American Society of Echocardiography

**AWARDS(continued)**

* 2000 Dick Smith Award

 Duke University Medical Center, Department of Anesthesiology

 “The Association of Rewarming Rate and Neurocognitive Dysfunction After Cardiac Surgery”

* 1999 – 2000 American Heart Association Postdoctoral Fellowship Award

 “Magnesium and Neurocognitive Outcome in Cardiac Surgery”:

 $50,000.00

 National Institute of Health Training Grant Award: $35,000.00

* 1998 “Robert D. Dripps, M.D.”

 Memorial Award to the Outstanding Resident in Anesthesiology

**EXPERTISE**

* Coronary Artery Bypass Graft (CABG) Surgery
* Valve Surgery
* Minimally Invasive Cardiac Surgery
* Diagnostic and Perioperative TEE
* Totally Endoscopic Coronary Artery Bypass Surgery
* Thoracic Aortic Surgery
* Thoracic Surgery
* Heart Transplantation
* Lung Transplantation
* Liver Transplantation
* Mechanical Assist Devices
* Artificial Heart
* 2010 – 2013 Developed the protocol for perioperative management of spinal drains.
* 2010 – 2013 Developed the protocol for the use of perioperative inhaled Flolan in

 surgical patients with pulmonary hypertension.

* 2010 – 2013 Developed a new perioperative echocardiography curriculum for

cardiothoracic residents and fellows at University of Maryland. The curriculum included comprehensive transesophageal echocardiography lectures, monthly conferences combined with intraoperative teaching and case review sessions. It provides the residents and fellows with the medical knowledge and clinical expertise to facilitate obtaining NBE certification for both Basic and Advanced Perioperative Transesophageal Echocardiography.

* 2008 – 2009 Implemented slow rewarming protocol during cardiopulmonary Bypass at

 Mayo Clinic Arizona.

* 2001 – 2007 Developed the Perioperative Echocardiography Service at Texas Heart

 Institute. Under my guidance, twenty-two cardiac anesthesia fellows

 became certified by NBE.

**INSTITUTIONAL SERVICES**

* 2021 – Present Professional Enhancement Committee

 Charleston Area Medical Center

* 2019 – Present Cardiology Section Committee

 Charleston Area Medical Center

* 2019 – Present Section of CV Thoracic Surgery Committee

 Charleston area Medical Center

* 2019 – Present ECMO Steering Committee

 Charleston Area Medical Center

* 2019 – Present TAVR Committee

 Charleston Area Medical Center

* 2013 – 2016 Curriculum Committee

 UNLV School of Medicine

* 2013 – 2016 Peer Review Committee

 University Medical Center of Southern Nevada

* 2012 – 2013 Alternate Member, Council of School of Medicine Mentoring

 Committee

* 2011 – 2013 Society of Cardiovascular Anesthesiologists Foundation Development
* 2010 – 2013 Member, Blood Salvage Committee

 University of Maryland School of Medicine – Baltimore, Maryland

* 2010 – 2013 Member, Recruitment Committee

 University of Maryland School of Medicine – Baltimore, Maryland

* 2010 – 2013 Member, Internal Advisory Committee, Center for Shock Trauma and

 Anesthesiology Research

 University of Maryland School of Medicine – Baltimore, Maryland

* 2010 – 2013 Member, Cardiac Surgery Improvement Committee

 University of Maryland School of Medicine – Baltimore, Maryland

* 2010 – 2013 Member, Department Appointment Promotions and Tenure Committee

 University of Maryland School of Medicine – Baltimore, Maryland

* 2007 – 2009 Anesthesia Education Committee

 Mayo Clinic Hospital – Scottsdale, Arizona

* 2007 – 2009 Clinical Competence Committee
* Mayo Clinic Hospital – Scottsdale, Arizona
* 2007 – 2009 Patient Safety Subcommittee

 Mayo Clinic Hospital – Scottsdale, Arizona

* 2007 – 2009 Chair Problem Based Learning Discussion

 Mayo Clinic Residency Program – Scottsdale, Arizona

 *\*\* Provided oversight to organizing Problem-Based Learning*

 *Discussions (PBLD)*

* 2006 – 2007 Vice-Chair - Quality of Care and Patient Safety Committee

 St. Luke’s Episcopal Hospital, Texas Heart Institute – Houston, Texas

 *\*\* Provided oversight to quality of care of over 40,000 surgical*

 *procedures per year, oversight of blinded peer-reviews, sentinel events*

**INSTITUTIONAL SERVICES (continued)**

* 2006 – 2007 McDonald Fund Committee

 St. Luke’s Episcopal Hospital – Houston, Texas

* 2004 – 2007 Quality of Care and Patient Safety Committee

 St. Luke’s Episcopal Hospital – Houston, Texas

* 2003 – 2007 Chair of the Blood Conservation Task Force

 St. Luke’s Episcopal Hospital – Houston, Texas

 *\*\* Implemented the blood conservation protocol for Jehovah’s Witness*

 *patients*

* 2002 – 2007 Institutional Review Board

 St. Luke’s Episcopal Hospital – Houston, Texas

* 2001 – 2007 Infectious Disease Committee

 St. Luke’s Episcopal Hospital – Houston, Texas

* 1996 – 1998 Impaired Practitioner Committee

 St. Luke’s-Roosevelt Hospital Center – New York, New York

**NATIONAL SERVICE**

* 2013 – Present Member, International Committee, Society of Cardiovascular

 Anesthesiologists

* 2012 – Present Association of University Anesthesiologists Scientific Advisory Board
* 2011 – 2013 Society of Cardiovascular Anesthesiologists Foundation Development

 Committee

* 2010 – Present American Heart Association Council on Cardiovascular Surgery and

 Anesthesia Membership and Communication Committee

* 2010 – 2013 Member Continuous Medical Education Committee, Society of

 Cardiovascular Anesthesiologists

* 2010 – 2012 Member, American Society of Echocardiography’s By-laws and Ethics

 Committee

* 2009 – Present Reviewer, *Journal of Cardiothoracic and Vascular Anesthesia*
* 2009 – Present Member, Association of University Anesthesiologists
* 2007 – 2010 Member, ASA Committee on Transfusion Medicine
* 2007 – 2012 Member, ASA Committee on PBLD
* 2007 – 2010 Member, Interdisciplinary Professional Practice Committee, Society of Cardiovascular Anesthesiologists
* 2007 – 2010 Reviewer, *Neurobiology of Disease*
* 2007 – 2011 Reviewer, *Medical Science Monitor*
* 2007 – 2010 Reviewer, *Journal of Neurosurgical Anesthesiology*
* 2007 – 2010 Reviewer, *Anesthesiology*
* 2006 – 2013 Reviewer, *Anesthesia and Analgesia*
* 2006 – 2010 Reviewer, *Anesthesiology News*
* 2005 – 2007 Member, Research Committee, Society of Cardiovascular

 Anesthesiologists

**NATIONAL SERVICE (continued)**

* 2004 – 2007 Editorial Board, *Cardiac Anesthesiology Coding Alert*
* 2004 – 2007 Editorial Board, *Cardiology Clinical Alert*
* 2000 – 2007 Member, Council of Healthcare & Biomedical Advisors, Gersom

 Lehrman Group

* 2000 – 2005 Member, Scientific Committee, Society of Cardiovascular

 Anesthesiologists

* 1998 – 2007 Member, Scientific Committee, American Heart Association

**TEACHING ACTIVITES**

**Fellow Teaching**

* 2009 Blood Therapy *(2 hours/year)*
* 2009 Aortic Surgery *(2 hours/year)*
* 2008 Congenital Heart Disease *(2 hours/year)*
* 2008 Anesthesia for Endovascular Procedures *(2 hours/year)*
* 2007 Cardiac Pharmacology *(2 hours/year)*
* 2007 Cardiac Anatomy and Physiology *(2 hours/year)*
* 2001 – 2007 Echocardiographic Evaluation of Patients Undergoing Placement of Left

 Ventricular Assist Device *(9 hours/year)*

* 2001 – 2007 Echocardiographic Evaluation of Right Heart Failure *(6 hours/year)*
* 2001 – 2007 Echocardiographic Evaluation of Cardiomyopathies and Pericardial

 Disease *(7 hours/year)*

* 2001 – 2007 Echocardiographic Evaluation of Ventricular Diastolic Filling and

 Function *(7 hours/year)*

* 2001 – 2007 Diseases of the Aorta: Aortic Dissection, Aortic Aneurysm

 *(5 hours/year)*

* 2001 – 2007 Prosthetic Valves: Classification, Echocardiographic Evaluation,

 Hemodynamic Assessment *(6 hours/year)*

* 2001 – 2007 Aortic Valve: Anatomy, Physiology, Pathology, Echocardiographic

 Evaluation, Hemodynamic Assessment *(4 hours/year)*

* 2001 – 2007 Mitral Valve: Anatomy, Physiology, Pathology, Echocardiographic

 Evaluation, Hemodynamic Assessment *(4 hours/year)*

* 2001 – 2007 Echocardiographic Evaluation and Hemodynamic Assessment of Normal

 Heart *(3 hours/year)*

**Student Teaching**

* 2007 – 2009 Anesthesia for Cardiac Surgery *(12 hours/year)*

**Lectures**

**Indiana University School of Medicine**

* 12/2022 Ventricular Assist Devices
* 02/2023 Temperature Modulation and Brain Protection During CPB

**University of Maryland School of Medicine – Baltimore, Maryland**

* 08/2013 Congenital Heart Disease
* 07/2013 TEE Conference -Concepts/Views
* 07/2013 TEE Conference -Physics
* 07/2013 TEE Conference-Doppler
* 01/2013 Mock Oral Board Review (Authored some of the mock oral questions)
* 01/2013 CA-2 Tutorial - Heart Failure, Cardiomyopathies, Heart Transplant

 (Anesthetic Implications)

* 12/2012 TEE Interesting Cases
* 12/2012 TEE Conference: Doppler Part I
* 11/2012 Special Techniques: Controlled Hypotension, Controlled Hypothermia,

 High Altitude

* 10/2012 Cardiac Anatomy and Physiology- CA1 Resident Lecture
* 09/2012 TEE Conference – Concepts and Views
* 09/2012 Journal Club Moderator- Updates in Cerebral Oximetry
* 06/2012 TEE Conference-Cardiac Masses
* 06/2012 Grand Rounds – Spinal Cord Protection During Open and Endovascular

 Repair of Thoracoabdominal Aortic Aneurysms

* 05/2012 TEE Conference-Congenital Heart Disease
* 04/2012 Grand Rounds - Spinal Cord Protection During Open and Endovascular

 Repair of Thoracoabdominal Aortic Aneurysms

* 01/2012 TEE-Mitral Valve Surgery – Dr. Justin Barack – Mentored
* 01/2012 Novel Therapies for Cardiopulmonary Bypass in Patients with Heparin

 Induced Thrombocytopenia – Dr. Shaka James – Mentored

* 01/2012 Mortality and Morbidity Conference: Cardiac Anesthesia
* 12/2011 TEE Conference-Aortic Valve
* 11/2011 Mock Oral Board Review
* 10/2011 TEE Conference-Doppler
* 09/2011 TEE Conference- Physics
* 09/2011 Thromboelastograph – Dr. Cristalle Cox - Mentored
* 08/2011 TEE Conference – Concepts and Views
* 08/2011 CA1-CA2 Tutorial – Cardiac Anatomy & Physiology
* 08/2011 CA1-CA2 Tutorial – Echocardiography
* 08/2011 Board Review Moderator-Electrical Safety, Hemostasis and

 Hemotherapy

* 07/2011 Journal Club Moderator–A Comparison of the Analgesic Efficacy and

 Side Effects of Paravertebral vs. Epidural Blockade for Thoracotomy-A

 Systematic Review and Meta-Analysis of Randomized Trials

* 05/2011 TEE Conference – Congenital Heart Disease
* 04/2011 TEE Conference – Interesting Cases, Session II
* 03/2011 TEE Conference – Interesting Cases, Session I

**Lectures (continued)**

* 03/2011 Resident Tutorial on Special Techniques: Controlled Hypotension,

 Controlled Hypothermia and High Altitude

* 02/2011 TEE Conference – Endocarditis
* 01/2011 Morbidity and Mortality Conference: Cardiac Anesthesia
* 11/2010 TEE Conference – Doppler
* 10/2010 Mock Oral Board Review
* 09/2010 Grand Rounds-Temperature Management During CPB
* 09/2010 TEE Conference – Concepts and Views
* 08/2010 TEE Conference – Physics
* 07/2010 Weaning from CPB
* 07/2010 Basic TEE Exam
* 07/2010 Coagulation Monitoring During CPB
* 06/2010 Transfusion Related Lung Injury - Dr. Maudy Kalangie - Mentored
* 06/2010 TEE Aortic Valve
* 05/2010 VADs
* 04/2010 TEE Mitral Valve Cases
* 04/2010 TEE Mitral Valve

**Student Lectures**

**University of Maryland School of Medicine – Baltimore, Maryland**

* 09/2012 Medical Student Research Day
* 08/2012 Anatomy Laboratory- Superior Mediastinum
* 08/2012 Anatomy Laboratory- Middle Mediastinum

**Mentoring**

**Mentored Trainees Certified by National Board of Echocardiography**

* 2012 – 2013 Erik Strauss, M.D.
* 2012 – 2013 Katie Goergen, M.D.
* 2011 – 2012 Justin Barack, M.D.
* 2006 – 2007 Phillip Marzolino, D.O.
* 2006 – 2007 Rothith Shirama, M.D.
* 2006 – 2006 Hunter Reynolds, D.O.
* 2006 – 2006 Jason Mensch, M.D.
* 2005 – 2006 Jagdar Heir, D.O.
* 2005 – 2006 Madhavi Earasi, M.D.
* 2004 – 2005 David Joly, M.D.

**Mentored Trainees Certified by National Board of Echocardiography (continued)**

* 2004 – 2005 Jonathan Hughes, D.O.
* 2004 – 2005 Padma Kone, M.D.
* 2003 – 2004 Duncan De Souza, M.D.
* 2003 – 2004 James Brien, M.D.
* 2003 – 2004 Lee Newkirk, M.D.
* 2003 – 2003 Alam Khan, M.D.
* 2002 – 2003 Amanda Fox, M.D.
* 2002 – 2003 Anthony Aramoonie, D.O.
* 2002 – 2003 James Anton, M.D.
* 2001 – 2002 Charles Probert, M.D.
* 2001 – 2002 Sayed Morteza Gharib, M.D.
* 2001 – 2002 Wei Pan, M.D.
* 2000 – 2001 Weng Thong, M.D.

**Mentored Research Fellows**

* 2003 Geir Elgjo, M.D. The University of Texas Health Science

 Center

 Amanda Fox, M.D.

 Shaulnie Mohan, M.D.

 James Anton, M.D.

 Lance Hoover, M.D.

* 2002 Charles Probert, M.D. The University of Texas Health Science

 Center

 Stephan Ziegeler, M.D.

 Tatjana Pintar, M.D.

* 2001 Wei-Ping Cheng, M.D. The University of Texas Health Science

 Center

 Wei Pan, M.D.

 Shu Li, M.D.

* 2000 Weng Y. Thong, M.D. The University of Texas Health Science

 Center

* 1999 Maria Rosa Marino, M.D. Duke University School of Medicine

**Mentored Research Students**

**The University of Texas Health Science Center**

* 2005 Radhika Dinavahi, M.D. (Medical Student)

 Katja Hindler, M.D. (Medical Student)

**Mentored Research Personnel**

**Texas Heart Institute**

* Juliette Dean, R.N., CCRC
* James Chen, R.N.
* Jacques Estephan, R.N.
* Gaile L. Daniels (Research Assistant)
* Trevor Clark (Clinical Research Technician)
* Isabella Candelaria (Research Assistant)
* Lakesha Gamble (Clinical Research Technician)
* Francine Johnson (Administrative Assistant)

**Mentored Junior Facility:**

**Mayo Clinic Arizona**

* 2009 – 2010 Brantely Gaitan, M.D., Instructor of Anesthesiology - Mayo Clinic

 Arizona

* 2008 – 2010 Christopher Thunberg, M.D., Instructor of Anesthesiology - Mayo Clinic

 Arizona

**University of Maryland School of Medicine – Baltimore, Maryland**

* 2010 – 2013 Patrick Odonkor, M.D., Assistant Professor of Anesthesiology
* 2010 – 2013 Seema Deshpande, M.D., Assistant Professor of Anesthesiology
* 2010 – 2013 Molly Fitzpatrick, M.D., Assistant Professor of Anesthesiology
* 2010 – 2013 Ashan Grewal, M.D., Assistant Professor of Anesthesiology
* 2011 – 2013 Philip Roman, M.D., Assistant Professor of Anesthesiology

**Mentored Residents**

**Mayo Clinic**

* 2009 Eapen Mathew, M.D. PGY-1 - University of Arizona
* 2008 Clint Humphrey, M.D. CA-1 - Mayo Clinic, Arizona

**Mentored Medical Students**

**Mayo Clinic**

* 2009 Emily Hatrup - University of Arizona

 Salma Alibhhai - University of Arizona

* 2008 Sonia Shishido - Midwestern University

 Andrew Curtis - University of Toledo College of Medicine

**Mentored Fellows**

**University of Maryland School of Medicine – Baltimore, Maryland**

* 2013 Katie Goerg

 Erik Strauss

* 2012 Justin Barack

 Shaka James

* 2011 Zakiya Lockhart
* 2010 Maudy Kalangie

**Mentored Students**

**University of Maryland School of Medicine**

* 2012 Christine Lim

**Grant Support**

* 01/05/2008 (PI 20%)

 A Phase I, Randomized, Double-Blind, Dose Escalation Trial

of the Safety and Pharmacokinetics of a Single Intravenous Injection of 15NP in Patients at High Risk of Acute Kidney Injury Undergoing Major Cardiovascular Surgery.

 *(Quark)*

 *Annual Direct Cost $115,000*

 *Total Direct Cost $115,000*

* 02/07/2007 (PI 20%)

 A Phase III, Randomized, Double-Blind, Placebo-Controlled,

 Two Arm Parallel, Multicenter Study Evaluating the Efficacy

 and Safety of Dexmedetomidine in the Prevention of Post-

 Operative Delirium in Patients Undergoing Heart Surgery

 with Cardiopulmonary Bypass.

 (*Hospira*)

*Annual Direct Cost $74,000*

 *Total Direct Cost $74,000*

* 01/15/2007 (PI 20%)

 A Multicenter, Randomized, Double-Blind, Placebo-

 Controlled, Dose Escalation Trial on Safety and

 Pharmacokinetics of Recombinant Factor XIII in Patients

 Following First Time Myocardial Revascularization Requiring

 Cardiopulmonary Bypass.

 *(Novo Nordisk)*

*Annual Direct Cost $130,000*

 *Total Direct Cost $130,000*

**Grant Support (continued)**

* 01/10/2007 (PI 20%)

 Multicenter, Double-Blind, Randomized, Placebo-Controlled,

 Parallel Group, Study to Assess the Efficacy, Safety and

 Tolerability of Tezosentan in Patients with Pre-Operative

 Pulmonary Hypertension Undergoing Cardiac Surgery.

 *(Actelion)*

*Annual Direct Cost $148,500*

*Total Direct Cost $148,500*

* 08/15/2006 - 07/01/2007

 (PI 20%)

 Ecallantide for the Prevention of Blood Loss Associated with

 Cardiopulmonary Bypass: A Phase II Randomized, Double-

 Blind, Placebo-Controlled, Multicenter

 Study in Patients Undergoing Primary Coronary Artery

 Bypass Grafting, Single

 Valve Repair, or Single Valve Replacement

 *(Dyax)*

*Annual Direct Cost $200,000*

 *Total Direct Cost $200,000*

* 07/10/2006 - 12/15/2007 (PI 20%)

 A Multicenter, Randomized, Double-Blind, Placebo-

 Controlled, Dose Escalation Trial on Safety and Efficacy of

 Activated Recombinant Factor VII in the Treatment of Post-

 Operative Bleeding in Patients Following

 Cardiac Surgery Requiring Cardiopulmonary Bypass.

 *(Novo Nordisk)*

*Annual Direct Cost $80,000*

 *Total Direct Cost $150,000*

* 02/15/2006 - 06/06/2007 (PI 20%)

 A Multicenter Study of the Practice of Profound Circulatory

 Arrest and Aortic Surgery in the United States

 *Saint Luke’s Episcopal Hospital MacDonald Fund*

 *Annual Direct Cost $48,650*

* 05/10/2005 - 03/12/2006 (Co-PI 3%)

 Platelet Function in Patients Undergoing Elective Coronary

 Artery Bypass Grafting After Receipt of Clopidogrel

 (*Accumetrics Inc.*)

 *Annual Direct Cost: $50,000*

 *Total Direct Cost: $50,000*

**Grant Support (continued)**

* 08/10/2004 - 07/17/2006 (Co-PI 3%)

 A Multicenter, Randomized, Double-Blind, Parallel Group

 Placebo-Controlled Study of 2 mg/kg Bolus Plus 24-hour

 0.05mg/kg/hr Infusion of Pexelizum in Patients Undergoing

 Coronary Artery Bypass Graft (CABG) with

 Cardiopulmonary Bypass (PRIMO-CABG II)

 *(Alexion Pharmaceuticals, Procter and Gamble*

 *Pharmaceuticals)*

 *Annual Direct Cost $120,500*

 *Total Direct Cost $241,000*

* 06/15/2004 (PI 20%)

 A Prospective, Randomized, Double-Blind, Placebo –

 Controlled Study of Clevidipine (CleveloxTM) in the

 Treatment of Pre-Operative Hypertension

 in Patients Scheduled to Undergo Cardiac Surgery Including

 Coronary Artery Bypass Grafting (CABG), Off-Pump

 Coronary Artery Bypass (OPCAB)

* 06/15/2004 Minimally Invasive Direct Coronary Artery Bypass

 (MIDCAB) Surgery and/or Valve Replacement/Repair

 Procedures.

 *(Escape 1)*

*Annual Direct Cost $47,951*

*Total Direct Cost $95,831*

* 02/05/2004 - 09/15/2006 (PI 20%)

 A Randomized, Double-Blind, Placebo-Controlled, Parallel

 Group, Multicenter, Proof of Concept Clinical Study of TI-01

 in Patients Undergoing Major Cardiac Surgery with

 Cardiopulmonary Bypass.

 *(Critical Therapeutics)*

*Annual Direct Cost $100,000*

*Total Direct Cost $200,000*

* 02/05/2004 - 01/15/2004 (Co-PI 3%)

 A Phase I, Double-Blind, Randomized, Placebo-Controlled,

 Multicenter Study of the Safety, Pharmacokinetics, and

 Pharmacodynamics of CAB-2 in Subjects Undergoing Surgery

 with Cardiopulmonary Bypass.

 (*XOMA-current*)

 *Annual Direct Cost: $66,472*

 *Total Direct Cost: $66,472*

**Grant Support (continued)**

* 11/10/2003 - 05/11/2005 (Co-PI 3%)

 A Phase III Comparison of Neutralase to Protamine in Patients

 Undergoing Primary Coronary Artery Bypass Graft (CABG)

 Surgery.

 *(Biomarin)*

 *Annual Direct Cost: $63,710*

 *Total Direct Cost: $63,710*

* 06/10/2003 - 05/30/2005 (Co-PI 3%)

 A Double-Blind Prospective Randomized Comparison of

 Clevidipine Versus Nitroglycerin for Blood Pressure Control

 and Preservation of Renal Function in Patients Undergoing

 Coronary Artery Bypass Grafting Surgery.

 (*The Medicine’s Company-Renal trial*) $95,831

 *Annual Direct Cost $47,915*

 *Total Direct Cost $95,831*

* 05/04/2003 - 11/20/2005 (Co-PI 3%)

 A Double-Blind Placebo-Controlled Ascending Dose Study of

 E5564, a Lipid A Antagonist, in Patients Undergoing Cardiac

 Surgery with Cardiopulmonary Bypass.

 *(Eisai)*

 *Annual Direct Cost $273,812*

 *Total Direct Cost $547,624*

* 04/10/2003 - 06/17/2004 (Co-PI 3%)

 A Phase 2 Randomized, Double-Blind, Placebo-Controlled

 Study of the Safety and Efficacy of Human Recombinant

 Soluble Complement Receptor Type 1 (TP 10) in Adult

 Women Undergoing Cardiopulmonary Bypass Surgery.

 *(Avant-current)*

 *Annual Direct Cost: $58,500*

 *Total Direct Cost: $58,500*

* 03/12/2003 - 04/12/2004 (Co-PI 3%)

 Revised Clinical Protocol for a Double-Blind Multicenter

 Study of the Safety and Efficacy of Parecoxib Followed by

 Valdecoxib Compared to Placebo for Treatment of Post-

 Surgical Pain in Patients Who Have Coronary Bypass Graft

 via Median Sternotomy.

 (*Searle)*

 *Annual Direct Cost $175,000*

 *Total Direct Cost $175,000*

**Grant Support (continued)**

* 03/11/2003 - 10/25/2004 (Co-PI 3%)

 Phase IIIb Randomized, Parallel, Double-Blind, Multicenter,

 Placebo Controlled Study of the Effect of Pexelizumab on all

 Cause Mortality and Myocardial Infarction in Patients

 Undergoing Coronary Artery Bypass Graft (CABG) Surgery

with Cardiopulmonary Bypass”

 *(Alexion Pharmaceuticals, Procter and Gamble*

 *Pharmaceuticals)*

 *Annual Direct Cost: $67,500*

 *Total Direct Cost: $135,000*

* 02/15/2002 - 09/02/2004 (Co-PI 3%)

 A Phase 3, Randomized, Double-Blind, Controlled Clinical

 Trial to Evaluate the Efficacy and Safety of Hemolink™

 (O-Raffinose Cross-Linked Human Hemoglobin) in Patients

 Undergoing Primary Coronary Artery Bypass Grafting

 surgery.

 *(Hemosol)*

 *Annual Direct Cost $203,500*

 *Total Direct Cost $407,000*

* 2001 - 2002 (Co-PI 3%)

 A Double-Blind, Placebo-Controlled, Multinational Trial to

 Investigate the Effect of IV Treatment with the

 Na+/H+Exchange Inhibitor Cariporide (HOE642) on

 All-Cause Mortality and Non-Fatal Myocardial Infarction in

 Patients at Risk of Myocardial Necrosis During and After

 Coronary Artery Bypass Graft (CABG) Surgery.

 *(Aventis Pharmaceuticals)*

 *Annual Direct Cost $67,000*

 *Total Direct Cost $135,000*

* 09/01/2001 - 8/15/2004 (PI 20%)

 The Effect of Ventricular Assist Devices on Beta Adrenergic

 Receptor Density and Myocardial Performance

*Saint Luke’s Episcopal Hospital MacDonald Fund*

*Annual Direct Cost $8,250*

*Total Direct Cost $25,000*

**Grant Support (continued)**

* 04/15/2001 - 02/01/2002 (Co-PI 3%)

 A Study of the Safety and Efficacy of TP10 (SCR1) in the

 Prevention of Post-Cardiopulmonary Bypass Syndrome in

 Adults.

 *(Avant-first trial)*

 *Annual Direct Cost $196,000*

 *Total Direct Cost $196,000*

* 03/12/2001 (Co-PI 3%)

 Cerebral Optimization by Regionalization of the Aorta, a

 Randomized Study of Targeted Circulatory ManagementTM

(TCM), Cardeon® TCM-CobraTM Catheter Trial.

 *(Aortic cannula-2 lumen)*

 *Total Direct Cost $150,000*

* 08/15/2000 - 06/30/2005 (PI 20%)

 Magnesium and Neurologic Outcome after Cardiac Surgery

 With Cardiopulmonary Bypass

 *Saint Luke’s Episcopal Hospital MacDonald Fund*

*Annual Direct Cost $10,000*

*Total Direct Cost $50,000*

*Total Direct Cost $48,650*

**PUBLICATIONS**

**Peer-Review Journal Articles**

1. **Grigore AM**, Brusco L Jr, Kuroda M, Koorn R. Laudanosine and Atracurium Levels in a Patient Receiving Long-Term Atracurium Infusion. Critical Care Medicine 1998; 26:180-183.
2. **Grigore AM**, Brusco L Jr. Temperature Regulation and Manipulation During Surgery. Progress in Anesthesiology 1998; XII: 159-176.
3. **Grigore AM**, Castro J, Swistel D, Thys DM. Nicardipine Infusion for the Prevention of Radial Artery Spasm During Myocardial Revascularization. J Cardiothoracic Vasc Anesth 1998; 12:556-557.
4. Newman MF, Laskowitz DT, Saunders AM, **Grigore AM**, Grocott HP. Genetic Predictors of Perioperative Neurologic and Neuropsychological Injury and Recovery. Seminars in Cardiothoracic Vasc Anesth 1999; 3:34-46.

**Peer-Reviewd Journal Articles (continued)**

1. **Grigore AM**, Castro J, Swistel D, Thys DM. Nicardipine Infusion for Radial Artery Spasm: A Cautionary Note (response). J Cardiothoracic Vasc Anesth 1999; 13:510.
2. **Grigore AM**, Grocott HP. Pro: Epiaortic Scanning Should be Used Routinely During Cardiac Surgery. J Cardiothoracic Vasc Anesth 2000; 14:87-90.
3. **Grigore AM**, Mathew JP. Con: Magnesium Should be Administered to all Coronary Artery Bypass Graft (CABG) Patients Undergoing Cardiopulmonary Bypass. J Cardiothoracic Vasc Anesth 2000; 14(3):339-43.
4. **Grigore AM**, Grocott HP, Newman MF. Anesthetic Management of Patients with a Brain Tumor for Cardiac Surgery. J Cardiothoracic Vasc Anesth 2000; 14(6):702-4.
5. **Grigore AM**, Mathew JP, Grocott HP, Reves JG, Blumenthal JA, White WD, Smith PK, Jones RH, Kirchner JL, Mark DB, Newman MF. Prospective Randomized Trial of Normothermic Versus Hypothermic Cardiopulmonary Bypass on Cognitive Function After Coronary Artery Bypass Graft Surgery. Anesthesiology 2001; 95:1110-1119.
6. **Grigore AM,** Grocott HP, Mathew JP, Phillips-Bute B, Stanley T, Butler A, Landolfo KP, Reves JG, Blumenthal JA, Newman MF. The Rewarming Rate and Increased Peak Temperature Alter Neurocognitive Outcome After Cardiac Surgery. Anesth Analg 2002; 94(1):4-10.
7. Grocott HP, Mackensen GB, **Grigore AM**, Mathew JP, Reves JG, Phillips-Bute B, Smith PK, Newman MF, and the Neurologic Outcome Research Group (NORG) and Cardiothoracic Anesthesiology Research Endeavors (CARE) Investigators of the Duke Heart Center. Postoperative Hyperthermia is Associated with Cognitive Dysfunction

Following Coronary Artery Bypass Graft Surgery. Stroke 2002; 33:537-41.

1. Tsusaki B, **Grigore A**, Cooley DA, Collard CD. Reversal of Delayed Paraplegia with Cerebrospinal Fluid Drainage After Thoracoabdominal Aneurysm Repair. Anesth Analg 2002; 94(6):1674.
2. Amory DW, **Grigore AM**, Amory JK, Gerhardt MA, White WD, Smith PK, Schwinn DA, Reves JG, Newman MF. Neuroprotection is Associated with Beta Andrenergic Receptor Antagonists During Cardiac Surgery: Suggestive Evidence from 2,575 Patients. J Cardiothoracic Vasc Anesth 2002; 16(3):270-277.

14. Bick RJ, Poindexter B, Buja LM, **Grigore A**, Nussmeier N, Radovancevic B, and Frazier.

 Alterations in Cardiomyocytes following Left Ventricular Unloading. Recent Res. Devel

 Membrane Biol., 1(2002):1-10.

15. **Grigore A**, Poindexter B, Vaughn WK, Nussmeier N, Frazier O.H., Cooper JR, Gregoric I,

Buja LM, Bick R. Alterations in Alpha Adrenoceptor Density and Localization After

 Mechanical Left Ventricular Unloading With the Jarvik Flowmaker Left Ventricular Assist

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16. Bick RJ, Bagwell SH, Jones CJ, Poindexter BJ, Buja ML, Youker KA, **Grigore AM**, Clubb

 F, Radovancevic B, Frazier OH. Fluorescence Imaging Microscopy of Cellular Markers in

 Ischemic Versus Non-Ischemic Cardiomyopathy Following Left Ventricular Unloading.

 Journal of Heart and Lung Transplantation 2005; 24(4):454-461.

17. Bick RJ, **Grigore, AM**, Poindexter BJ, Schnee PM, Nussmeier NA, Gregoric ID, Shah NA,

Myers TJ, Buja LM, Frazier OH. Left Ventricular Unloading with an Assist Device Results in Receptor Relocalization as Well as Increased Beta-Adrenergic Receptor Numbers: Are These Changes Indications for Outcome? J Card Surg 2005; 20:332-336.

18. Sethi M, **Grigore AM**, Davison JK. Proceeding with Thoracoabdominal Aortic Aneurysm

Surgery After Encountering a Bloody Tap During CSF Catheter Placement. J Cardiothoracic Vasc Anesth 2006; 20:269-272.

**Peer-Reviewed Journal Articles (continued)**

19. Bracey AW, **Grigore AM**, Nussmeier NA. Impact of Platelet Testing on Presurgical

Screening: Implications for Cardiac and Noncardiac Surgical Procedures. Am J Cardiol 2006;98[suppl]:25N-32N.

20. Levy JH, Macao MY, Gitter R, Kereiakes DJ, **Grigore AM**, Aronson S, Newman MF:

Clevidipine Effectively and Rapidly Controls Blood Pressure Preoperatively in Cardiac Surgery Patients: The Result of the Randomized, Placebo-Controlled Efficacy Study of Clevidipine Assessing its Preoperative Antihypertensive Effect in Cardiac Surgery-1. Anesth Analg 2007; 105:918-925.

21. **Grigore AM.** Surgical Interventions for Heart Failure. Applied Cardiopulmonary

 Pathophysiology 2007; 11:39-40.

22. Marzolino PS, Reynolds JH, Coselli JS, **Grigore AM**. Contained Ascending Aortic Rupture.

 Texas Heart Journal 2008; 35:555-558.

23. Bennett-Guerrero E, Swaminathan M, **Grigore AM**, Roach GW, Aberle LG, Johnston JM,

 Fink MP. A Phase II Multicenter Double-Blind Placebo-Controlled Study of Ethyl Pyruvate in

 High Risk Patients Undergoing Cardiac Surgery With Cardiopulmonary Bypass. J

 Cardiothoracic Vasc Anesth 2009; 23:324-9.

24. **Grigore AM**, Murray Friederich C, Ramakrishna H, Djainai G. Temperature Regimens and

 Neuroprotection During Cardiopulmonary Bypass: Does Rewarming Matter? Anesth Analg

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25. Thunberg CA, Gaitan BD, Arabia FA, Cole DJ, **Grigore AM.** Ventricular Assist Devices

 Today and Tomorrow. Journal of Cardiothoracic and Vascular Anesthesia J Cardiothoracic Vasc

 Anesth 2010; 24:656-680.

26. Wehman B, **Grigore AM**, Griffith B, Bonatti J. Robotic Totally Endoscopic Coronary Artery

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27. Dawood MY, Lehr EJ, deBiasi A, Haque R, **Grigore AM,** Griffith BP, Bonatti JO. Robotically

 Assisted Coronary Endarterectomy. Innovations: Technology & Techniques in Cardiothoracic

 & Vascular Surgery 2011 Nov/Dec; 6(6): 391-394.

28. Gaitan BD, Thunberg CA, Stansbury LG, Jaroszewski DE, Arabia FA, Griffith BP, **Grigore**

 **AM.** Development, Current Status and Anesthetic Management of the Implanted Artificial

 Heart. Journal of Cardiothoracic and Vascular Anesthesia 2011December; 25(6):1179-1192.

29. Deshpande SP, Odonkor P, Lehr E, Bonatti JO, Kalangie M, Zimrin DA, **Grigore AM.**

Anesthetic Management of Robotically Assisted Totally Endoscopic Coronary Artery

 Bypass Surgery. J Cardiothoracic Vasc Anesth. 2013 Jun; 27(3)586-599.

30. Odonkor P, Stansbury LG, Gammie JS, Rock P, Fitzpatrick M, **Grigore AM.** Anesthetic

 Management of Patients Undergoing Aortic Valve Bypass (Apicoaortic Conduit) Surgery.

 Journal of Cardiothoracic and Vascular Anesthesia 2012 Feb; 26(1):148-160.

31. Grewal A, Fitzpatrick M, Stansbury L, **Grigore AM**. Heart as an Endocrine System.

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32. Odonkor P, Stansbury L, Garcia J, Rock P, Deshpande SP, **Grigore AM.**  Perioperative

 Management of Adult Surgical Patients on Extracorporeal Membrane Oxygenation Support. J

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33. Thunberg C, Gaitan B, Grewal A, Ramakrishna H, Stansbury LG, **Grigore AM**. Pulmonary

 Hypertension in Patients Undergoing Cardiac Surgery: Pathophysiology, Perioperative

 Management, and Outcomes. J Cardiothoracic Vasc Anesth. 2013 Jun; 27(3):551-72.

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 the Bioenergetic Consequences of Chronic Glutamate Receptor Stimulation. POLS ONE

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35. Roman P, **Grigore AM**. Pro: Hypothermic Cardiopulmonary Bypass Should be Used

 Routinely. J Cardiothoracic Vasc Anesth 2012 Oct; 26(5):945-8. Epub 2012.

36. Roman P, Battafarano, RJ, **Grigore AM**. Anesthesia for Tracheal Reconstruction and

 Transplantation. Current Opinion in Anesthesiology. 2013 Feb; 26(1):1-5.

37. Deshpande SP, **Grigore AM.** Robotic Surgery is the Preferred Technique for CABG Surgery.

 Journal of Cardiothoracic and Vascular Anesthesia. 2013; 27(4):602-605.

38. Odonkor P, **Grigore A**. Ischemic Heart Disease Med Clin N AM. 2013; 97(6).

39. Fitzpatrick M, Alexander HR, Deshpande SP, McCormick B, Martz DG, Jr, **Grigore, AM**.

 Use of Partial Veno-Venous Cardiopulmonary Bypass in Percutaneous Hepatic Perfusion for

 Patients with Diffuse, Isolated Liver Metastases: A Case Series Journal of Cardiothoracic and

 Vascular Anesthesia. J Cardiothoracic Vasc Anesth.; 2014:28(3);647-651.

40. Engelman R, Baker RA, Likosky DS, **Grigore AM**, Dickinson TA, Shore-Lesserson L,

 Hammon JW. The Society of Thoracic Surgeons, The Society of Cardiovascular

 Anesthesiologists and The American Society of Extracorporeal Technology: Clinical practice

 Guidelines for Cardiopulmonary Bypass-Temperature Management During

 Cardiopulmonary Bypass. Ann Thorac Surg 2015;100:748-57.

**Non-Peer Reviewed Publications**

1. **Grigore AM.** Perioperative Management of Ventricular Assist Device Patients Undergoing Non-Cardiac Surgery. Revista Mexicana de Anestesiologia 2011 Jun; 34(Supp. 1) S288-292.
2. **Grigore AM.** Perioperative Management of Geriatric Patients with Heart Failure. Revista Mexicana de Anestesiologia 2011 June; (Supp. 1) S302-304.
3. **Grigore AM.**  Perioperative Neuroprotection: Past, Present, and Future Role of Anesthesiologists AUA Newsletter Fall 2012.

**Book Chapters**

1. **Grigore AM**, Thys DM. History and Physical Examination. Textbook of Cardiovascular

 Anesthesiology. McGraw-Hill Companies, pp 27-47, 2001.

2. Grocott HP, **Grigore AM**. Cardiopulmonary Bypass in a Patient with a Brain Tumor.

 Problems in Anesthesia: Cardiothoracic Surgery. Arrowsmith JE, Simpson J(Eds).

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3. **Grigore AM**, Joe RR, Savage R, Aronson S, Shanewise WJ, Stewart J. Intraoperative

 Echocardiographic Assessment of Patients Undergoing Procedures for Congestive Heart

 Failure. Comprehensive Review of Perioperative Transesophageal Echocardiography.

 Lippincott Williams and Wilkins, Baltimore MD pp 615-642, 2005.

4. Nussmeier NG, Hauser MC, Sarwar MF, **Grigore AM**, Searles, BE. Anesthesia for Cardiac

 Surgery Miller’s Anesthesia. 7th Edition. Volume 2. Philadelphia: Churchill Livingstone/

 Elsevier; pp 1889-1975, 2010.

5. Djainai G, Ramakrishna H, **Grigore AM,** Bonser RS. Temperature and Brain Protection in

 Cardiac Surgery. London Limited pp 141-157, 2011.

6. **Grigore AM**. Transesophageal Echocardiography-Intraoperative Use. In Faust’s Anesthesia

 Review 4th Edition (in press) 2012.

7. **Grigore AM**, Thunberg CA, Savage RM, Smedira NJ. Surgical Considerations and

 Assessment in Heart Failure Surgery. Comprehensive Textbook of Perioperative

 Transesophageal Echocardiography 2nd Edition. Lippincott Williams & Wilkins, pp 860-861,

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8. **Grigore AM**, Gheorgiu I, Singh-Radcliff N, Gupta A. Five Minute Anesthesiology Consult:

 Thoracic Aneurysm Repair. Lippincott Williams & Wilkins, pp 860-861, 2011.

9. Roman PEF, Grewal AS, Bradley ST, **Grigore AM**. Advances in Spinal Cord Protection from

 Perioperative Ischemic Injury. McLoughlin TM, Jr, editor. Advances in Anesthesia. Elsevier-

 Mosby; 2013.

**Audio/Video/CD-ROM**

1. **Grigore AM**, Joe RR, Savage R. Intraoperative Echocardiographic Assessment of Patients

Undergoing Procedures for Congestive Heart Failure. Comprehensive Review of Perioperative

 Transesophageal Echocardiography.DVD, 2007 Lippincott Williams and Wilkins, Baltimore,

 Maryland**.**

2. **Grigore AM**. Cardiovascular Physiology (Session 42). Audio-Digest Anesthesiology Board

 Review Online, 2013. Audio-Digest Foundation - Continuing Medical Education. Glendale,

 California.

**Published Multimedia**

1. Patients get neurologic benefit from perioperative β-blockade. Heartbeat. Anesthesiology News,

 November 1999.

2. The Rewarming Rate and Increased Peak Temperature Alter Neurocognitive Outcome After

 Cardiac Perfusion News, February 2002.

3. Unloading With a Left Ventricular Assist Device May Allow Adrenergic Receptor Recovery.

 Heart Watch, July 2003.

4. In High-Risk Cardiac Surgery Patients. Change in C-Reactive Protein Level Linked to Post-Op

 Outcomes; Comment. Anesthesiology News, December 2004.

5. Slow Rewarming Preserves Mental Function. Heart Failure Surgery, October, 2006.

6. Echo Studies Reinforce Utility of TEE/TTE; Comment. Anesthesiology News, March, 2007.

7. Dyax Corp. Treats the First Patient in Phase 2 Trial for On-Pump Cardiothoracic Surgery. May

 14, 2007.

8. Painkiller Improves Post-CABG Survival; Comment. Anesthesiology News, June 2007.

9. Taking the Pulse Pressure of Pre-op Risk; Comment. Anesthesiology News, October 2007.

10. Hypophosphatemia Awareness: Time for a Paradigm Shift; Comment. Anesthesiology News,

 October 2009.

**National Presentations**

1. Controversies in Case Management and Panel Discussion - Society of Cardiovascular

 Anesthesiologists 24th Annual Meeting and Workshop, April 20-24, 2002, New York, New

 York.

**National Presentations (continued)**

2. Heart Transplantation, Indications and Perioperative Management - Cardiovascular

 Anesthesiologists 25th Annual Meeting and Workshop, April 26-30, 2003.

3. Society of Spinal Cord Injury and Thoracic Aorta Surgery - Society of Cardiovascular

 Anesthesiologists 25th Annual Meeting and Workshop, April 26-30, 2003, Miami, Florida.

4. Left Heart Bypass: What’s the Data and When is It Indicated? American Society of

 Anesthesiologists 2004 Annual Meeting, October 23-27, 2004, Las Vegas, Nevada.

5. Echocardiography for Heart Failure: Echo for Assist Devices and the Total Artificial Heart –

 Clinical Decision Making in the Cardiac Surgery Patient, Society of Cardiovascular

 Anesthesiologists 8th Annual Comprehensive Review and TEE Update, February 14-19,

 2005, San Diego, California.

6. Echocardiography for Heart Failure: You are the Intraoperative Echocardiography

 Consultant: Case Discussions With the Experts – Society of Cardiovascular

 Anesthesiologists, Clinical Decision Making in the Cardiac Surgery Patient, February 14-19,

 2005, San Diego, California.

7. Left Ventricular Devices Now and Tomorrow – Society of Cardiovascular Anesthesiologists,

 10th Annual Update on Cardiopulmonary Bypass, March 13-18, 2005, Snowmass, Colorado.

8. Pulmonary Hypertension: Etiologies, Therapies, and Case Studies; Moderator– Society of

 Cardiovascular Anesthesiologists, 27th Annual Meeting and Workshop, May 14-18, 2005,

 Baltimore, Maryland.

9. Perioperative Care of Congestive Heart Failure Patients. Cardiac Anesthesia Learning Track,

 Clinical Forum- American Society of Anesthesiology Annual Meeting, October 22-26,2005,

 Atlanta.

10. Deep Hypothermic Circulatory Arrest, Problem-Based Learning Discussion, Society of

 Cardiovascular Anesthesiologists, 28th Annual Meeting and Workshop, April 29-May 3,

 2006, San Diego, California.

11. Intraoperative Echocardiography for Ventricular Assist Devices, Third Annual You Are the

 Transesophageal Echocardiography Workshop, MD Anderson Cancer Center, August 19-20,

 2006, Houston, Texas.

12. You Are the Intraoperative Echocardiography Consultant: Case Presentations, Fourth

 Annual Intraoperative Transesophageal Echocardiography Workshop, MD Anderson Cancer

 Center, August 19-20, 2006, Houston, Texas.

13. Ventricular Assist Devices, Grand Rounds, February 28, Baylor College of Medicine, 2007,

 Houston, Texas.

14. Intraoperative Echocardiography for Ventricular Assist Devices, Third Annual

 Intraoperative Transesophageal Echocardiography Workshop, MD Anderson Cancer Center,

 November 4-5, 2007, Houston, Texas.

15. Transesophageal Echocardiography and Vascular Access Workshop. Cardiac Anatomy

 Imaging and Hemodynamics Workshop. American Society of Anesthesiology. Pointe

 Hilton Squaw Peak Resort, November 10-11, 2007, Phoenix, Arizona.

16. Transesophageal Echocardiography and Vascular Access Workshop. Case Presentation.

 American Society of Anesthesiology. Pointe Hilton Squaw Peak Resort, November 10-11,

 2007, Phoenix, Arizona.

17. Intraoperative Imaging of Ventricular Assist Devices and Total Artificial Heart. 21st Annual

 State-of-the-Art Echocardiography. March 2-6, 2008, Phoenix, Arizona.

18. Temperature Management during Cardiopulmonary Bypass. International Anesthesia

 Research Society, March 31, 2008, San Francisco, California.

**National Presentations (continued)**

19. Temperature Management During Cardiopulmonary Bypass. Grand Rounds, Mayo Clinic

 Hospital, August 11, 2008, Phoenix, Arizona.

20. Spinal Cord Protection during Thoracic Aortic Procedures. Problem Based Learning

Discussion, American Society of Anesthesiologists Annual Meeting, October 18-23, 2008,

Orlando, Florida.

21. Intraoperative Echocardiography for Ventricular Assist Devices, Fifth Annual

 Transesophageal Echocardiography Workshop, MD Anderson Cancer Center, February 21-

 220, 2009, Houston, Texas.

22. You Are the Intraoperative Echocardiography Consultant: Case Presentations, Fifth Annual

 Intraoperative Transesophageal Echocardiography Workshop, MD Anderson Cancer

 Center, February 21-22, 2009, Houston, Texas.

23. Patient with Hypercoagulable Disorder has Problems With Bleeding and Clotting.

 American Society of Anesthesiologists Annual Meeting, October 17-21, 2009, New

 Orleans, Louisiana.

24. Medically Challenging Cases; Moderator. American Society of Anesthesiologists Annual

 Meeting, October 17-21, 2009, New Orleans, Louisiana.

25. Intraoperative Echocardiography for Ventricular Assist Devices, Sixth Annual Intraoperative

 Transesophageal Echocardiography Workshop, MD Anderson Cancer Center, March 6-7,

 2010, Houston, Texas.

26. You Are the Intraoperative Echocardiography Consultant: Case Presentations, Sixth Annual

 Intraoperative Transesophageal Echocardiography Workshop, MD Anderson Cancer ,

 March 6-7, 2010, Houston, Texas.

27. Perioperative Management of Pulmonary Hypertension. Problem Based Learning

 Discussion, Society of Cardiovascular Anesthesiologists, 32nd Annual Meeting, April 27,

 2010, New Orleans, Louisiana.

28. Spinal Cord Protection During Thoracic Aortic Procedures. Problem Based Learning

 Discussion, American Society of Anesthesiologists Annual Meeting, October 15-19, 2010,

 Orlando, Florida.

29. Rewarming and Temperature Management. American Society of Anesthesiologists Annual

Meeting, October 15-19, 2010, Orlando, Florida.

30. Anesthetic Challenges in the Hypercoagulable Patient. American Society of

 Anesthesiologists Annual Meeting, October 15-19, 2010, Orlando, Florida.

31. Pulmonary Embolism During Liver Transplantation in a Patient with Fulminant Hepatic

 Failure (2), Problem-Based Learning Discussion, American Society of Anesthesiologists

 Annual Meeting, October 16-20, 2010, San Diego, California.

32. Spinal Cord Protection During Thoracic Aortic Procedures (2), Problem-Based Learning

 Discussion, American Society of Anesthesiologists Annual Meeting, October 16-20, 2010,

 San Diego, California.

33. Management of Patient for Pulmonary Embolectomy, Panel, American Society of

 Anesthesiologists Annual Meeting October 17, 2010, San Diego, California.

34. Medically Challenging Cases, Poster Moderator (2), American Society of Anesthesiologists

 Annual Meeting October 17, 2010, San Diego, California.

35. Rewarming and Temperature Management, American Society of Anesthesiologists Annual

 Meeting October 20, 2010, San Diego, California.

**National Presentations (continued)**

36. Spinal Cord Protection During Thoracic Aortic Procedures (2), Problem-Based Learning

 Discussion. American Society of Anesthesiologists Annual Meeting, October 16, 2011,

 Chicago, Illinois.

37. Medically Challenging Cases, Poster Moderator (2), October 17, 2011. American Society of

 Anesthesiologists, Annual Meeting Chicago, Illinois.

38. Advanced Perioperative Echocardiography Workshop American Society of

 Anesthesiologists, Annual Meeting Chicago, Illinois.

39. Spinal Cord Protection During Thoracic Aortic Procedures (2), Problem-Based Learning

 Discussion, American Society of Anesthesiologists Annual Meeting, October 15-16, 2012,

 Washington, DC. 40.

40. Recent Advances in Ventricular Assist Device. Society of Cardiovascular Anesthesiologists

 Annual Meeting, October 13, 2021, Washington, DC.

41. Sudden-onset Pericardial Tamponade During Femoral Venous Cannulation. American

 Society of Anesthesiologists Annual Meeting, October 13-17, 2021, Washington DC.

42. Recent Advances in Ventricular Assist Devices. Society of Cardiovascular

 Anesthesiologists, April 6-10, 2013, Miami, Florida.

43. Spinal Cord Protection During Thoracic Aortic Procedures (2), Problem-Based Learning

 Discussion, American Society of Anesthesiologists Annual Meeting, October 12-16, 2013,

 San Francisco, California.

44. Basic TEE Workshop, American Society of Anesthesiologists Annual Meeting, October 12-

 16, 2013, San Francisco, California.

45. Echocardiography for Veno-Venous and Veno- Arterial ECMO: Can we wean? American

 Society of Echocardiography June 18-22, 2021, Virtual Scientific Meeting.

**International Presentations**

1. High Dose Magnesium and Platelet Function in Patients Undergoing CABG.

 Society of Cardiovascular Anesthesiologists 23rd Annual Meeting and Workshop, May 5-9,

 Vancouver, Canada.

2. Ventricular Assist Devices: Classification, Selection and Perioperative Management – Society

 of Cardiovascular Anesthesiologists 26th Annual Meeting and Workshop, April 24-28, 2004,

 Honolulu, Hawaii.

3. Economics of Fast Tracking: Are Expensive Drugs Necessary? Society of Cardiovascular

 Anesthesiologists 29th Annual Meeting and Workshop, April 22-25, 2007, Montreal, Quebec,

 Canada.

4. Poster Discussion Moderator. Society of Cardiovascular Anesthesiologists 29th Annual

 Meeting and Workshop, April 22-25, 2007, Montreal, Quebec, Canada.

5. Surgical Interventions for Heart Failure, Mount Sinai School of Medicine, 26th Annual

 Symposium: Clinical Update in Anesthesiology, Surgery, and Perioperative Medicine.

 January 21-25, 2008, Acapulco, Mexico.

6. Management Considerations for Axial Flow Device Implantation. How Are These Devices

 Different From Pulsatile Ventricular Assist Devices? Problem-Based Learning Discussion

 Society of Cardiovascular Anesthesiologists, 30th Annual Meeting and Workshop, June 21,

 2008, Vancouver, Canada.

**International Presentations (continued)**

7. Echocardiographic Assessment of Ventricular Assist Devices 47th Romanian Congress of

 Cardiology, September 20, 2008, Sinaia, Romania.

8. Surgical Interventions for Heart Failure. Mount Sinai School of Medicine 27th Annual

 Symposium: Clinical Update in Anesthesiology, Surgery, and Perioperative Medicine.

 January 18-23, 2009, Fajardo, Puerto Rico.

9. Surgical Options for Heart Failure. Mount Sinai School of Medicine, Czech Society of

 Anesthesiology and Intensive Care Medicine June 14-16, 2009 Prague, Czech Republic.

10. The Geriatric Patient with Heart Failure. Mount Sinai School of Medicine, 27th Annual

 Symposium: Clinical Update in Anesthesiology, Surgery, and Perioperative Medicine.

 January 17-22, 2010 Paradise Island, Bahamas.

11. Ventricular Assist Devices. 12th International Congress of Cardiothoracic and Vascular

 Anesthesia, September 21-24, 2010, Beijing, China.

12. Periop Management of Hypercoagulable States. 29th Annual Symposium: Clinical Update

 in Anesthesiology, Surgery and Perioperative Medicine, January 16-21, 2011, French West

 Indies.

13. Perioperative Management of VAD Patients Undergoing Non-Cardiac Surgery. Mexican

 College Meeting, June 4, 2011, Mexico City, Mexico.

14. Perioperative Management of Geriatric Patients with Heart Failure. Mexican College

 Meeting, June 4, 2011, Mexico City, Mexico.

15. Spinal Cord Protection During Open and Endovascular Repair of Thoracoabdominal Aortic

 Aneurysms, 2nd International Congress: Anesthesia for Seniors, June 6-9, 2012, Prague

 Czech Republic.

16. Temperature Regimens during Cardiac Surgery, Department of Anesthesiology Grand

 Round, Hebrew University and Hadassah Medical Center, May 2, 2013, Jerusalem, Israel.

**Visiting Professorships**

1. Echocardiographic Evaluation of Patients with Ventricular Assist Devices, Mayo Clinic

 College of Medicine, February 20-21, 2006, Scottsdale, Arizona.

2. Surgical Interventions for Heart Failure, University of Texas Medical School at Houston,

 March 27, 2008, Houston, Texas.

3. Ventricular Assist Devices Today and Tomorrow, University of Miami, August 21, 2008,

 Florida.

4. Temperature Management During Cardiopulmonary Bypass, Resident Lecture, Yale

 University, October 7, 2008, New Haven.

5. Surgical Options for Heart Failure, Grand Rounds, Yale University, October 8, 2008, New

 Haven, Connecticut.

6. Surgical Options for Heart Failure, Grand Rounds, University of Maryland School of

 Medicine, July 23, 2009, Baltimore, Maryland.

7. Temperature Management During Cardiac Surgery, West Virginia University,

 November 14, 2012, Morgantown, West Virginia.

**Academic Career Development**

09/20/2007 Crucial Conversations

 Arizona Career and Leadership Development

 Mayo Clinic Arizona

10/25/2007 Patient Centered Seminar

 Arizona Career and Leadership Development

 Mayo Clinic Arizona

11/20/2007 Faculty Development

 St. Joseph Hospital

 Phoenix, Arizona

04/24/2008 Three Shields Alignment

 Arizona Career and Leadership Development

 Mayo Clinic Arizona

09/10/2009 Insight Into Medical Philanthropy

 Arizona Career and Leadership Development

 Mayo Clinic Arizona

08/17 - 19/2011 Accreditation Council for Continuous Medical Education Workshop

 Chicago, Illinois

**References Available Upon Request**