Curriculum Vitae

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Training

08/1987 - 05/1993	B.A. in Biology from University of Southern Maine, Portland, ME
09/1988 - 05/1990	A.S. in Respiratory Therapy from Southern Maine Technical College, Portland, ME
08/1993 - 05/1997	M.D. in Medicine from University of Vermont College of medicine, Burlington, VT
07/1997 - 06/1998	Internship in Preliminary Medicine from Maine Medical Center, Portland, ME
07/1998 - 06/2001	Residency in Anesthesiology from Maine Medical Center, Portland, Maine
07/2001 - 06/2002	Fellowship in Cardiothoracic Anesthesia from Massachusetts General Hospital, Boston, MA

Licensure and Certification

09/2001 - 09/2006	Medical, Maine Medical License
05/2002 - 09/2016	Medical, Tennessee Medical License of Tennessee United States (MD36493)
06/2002 - 06/2012	Certification, National Board of Echocardiography certification in Perioperative Transesophageal Echocardiography United States (2002-094)
04/2003 - 12/2013	Board Certification, Diplomat of American Board of Anesthesiology United States (35627)
01/2014 - 12/2023	Board Certification, Maintenance of Certification in Anesthesiology (35627)
09/2014 - 09/2024	Board Certification, Pediatric Anesthesiology

Academic Appointments

08/2002 - 04/2008	Assistant Professor, Vanderbilt University (Nashville, Tennessee)
05/2008 - Present	Assistant Professor of Clinical Anesthesiology, Vanderbilt University (Nashville, Tennessee)

Hospital Appointments

08/2002 - 12/2006	Assistant Professor of Anesthesiology, Anesthesiology, Adult Cardiothoracic, Vanderbilt University Medical Center (Nashville, Tennessee)

Other Work Experience

04/2010 - Present	Medical Director, Pediatric Cardiac Anesthesiology, Anesthesiology, Monroe Carell Jr. Children's Hospital at Vanderbilt (Nashville, Tennessee)

Professional Organizations

International Anesthesia Research Society
Society of Cardiovascular Anesthesiologists
Congenital Cardiac Anesthesia Society
Tennessee State Society of Anesthesiologists
American Society of Anesthesiologists

Professional Activities

Intramural

06/2003 - 06/2008	VUMC Lifeflight, Surgery, Assistant Medical Director, VUMC Lifeflight
01/2006 - 07/2006	Clinical Competency Committee, Anesthesiology, Member, Clinical Competency Committee
06/2008 - 06/2013	resident education committee, Anesthesiology, Member, resident education committee
06/2010 - Present	Clinical Affairs Committee, Anesthesiology, member
03/2011 - 06/2014	Physician Council for Clinical Service Excellence, Medical Education :ADMINISTRATION, member
01/2012 - Present	Supply and Equipment Committee, Anesthesiology, Department level committee evaluating new equipment and materials proposals, member
06/2013 - Present	Department of Anesthesiology Program Evaluation Committee, Anesthesiology, member

Teaching Activities

07/2008 - 07/2008	Anesthesia for Noncardiac Surgery in Patients with Congenital Heart Diease, Lecturer, VCH, Basic lecture giving overview of common congenital heart disease lesions and their implications for noncardiac surgery
06/2010 - 06/2010	Pharmacology of Neuromuscular Agents, Lecturer, Nashville, TN, Annual Vanderbilt University Medical Center CA-1 Orientation Lecture
08/2011 - 08/2011	Boot Camp for Pediatric Anesthesia Fellows: Cardiac OR preparation/set-up, Presentor, VCH
10/2011 - 10/2011	Pediatric Anesthesia Fellows conference: Shunt lesions, Lecturer, VCH
01/2013 - 01/2013	Pediatric CRNA Education Meeting: A Brief Look Inside the Black Box of Congential Heart Disease, Lecturer, VCH
05/2013 - 05/2013	Practice Oral board exams: Practice Oral Board exams, Examiner, VUMC, Provided/organized/facilitated six evenings of exams for senior residents/fellows
07/2013 - 07/2013	Senior Seminar: Cardiac Issues, Part two, Lecturer, VCH, Senior seminar session covering management of patients with CAD and cardiac rhythm devices
08/2013 - 08/2013	Pediatric Anesthesia residents lecture series: An Introduction to Congential Heart Disease, Lecturer, VCH
09/2013 - 09/2013	Practice Oral board exams: Practice Oral Board exams, Examiner, VUMC, Provided/organized/facilitated six evenings of exams for senior residents/fellows
10/2013 - 10/2013	An Introduction to Congenital Heart Disease, Lecturer, VCH, An introductory lecture regarding congenital heart disease to the pediatric anesthesia fellows
12/2013 - 12/2013	VCH Anesthesia technician lecture series: Inserting and handling invasive lines, Lecturer, VCH, Two sessions covering the indication, preparation, device selection, insertion, and care of arterial and central lines.
01/2014 - 01/2014	Congenital Heart Disease: Pediatric Anesthesia resident lecture, Lecturer, VCH, Introductory lecture on the implications of congenital heart disease in noncardiac surgery
03/2014 - 03/2014	Practice Oral board exams: Practice Oral Board exams, Examiner, VUMC, Provided/organized/facilitated three evenings of exams for senior residents/fellows
03/2014 - 03/2014	Pediatric Anesthesia residents lecture series: Congential Heart Disease and noncardiac surgery, Lecturer, VCH
06/2014 - 06/2014	CA-1 Basic lecture series: Pediatric Anesthesia, Lecturer, VUMC
07/2014 - 07/2014	ABA Advanced Series/Senior Seminar: Oral board practice session, Examiner, VUMC Light Hall
08/2014 - 08/2014	Boot Camp for Pediatric Anesthesia Fellows: An Approach to Understanding Congential Heart Disease Lesions, Lecturer, VCH
08/2014 - 08/2014	VCH pediatric nursing lecture series: Anesthesia in the Patient with Congential Heart Disease, Lecturer, VCH Theater
09/2014 - 09/2014	Pediatric CRNA Lecture Series: Anesthetic Considerations for CHD Patients Undergoing Non-cardiac Surgery, Lecturer, VCH 2104
09/2014 - 09/2014	Pediatric Anesthesia residents lecture series: Congential Heart Disease and Anesthetic Implications, Lecturer, VCH

10/2014 - 08/2014	ABA Advanced Series/Senior Seminar: Oral board practice session, Examiner, VUMC Light Hall
11/2014 - 08/2014	Pediatric Anesthesia Fellows conference: Oral board practice session, Examiner, VCH
11/2014 - 11/2014	Pediatric Anesthesia Fellows conference: Cardiac Physiology, Lecturer
11/2014 - 11/2014	ABA Advanced Series/Senior Seminar: Oral board practice session, Examiner, VUMC Light Hall
12/2014 - 12/2014	ABA Advanced Series/Senior Seminar: Electrical and Fire Safety, Lecturer, VUMC Light Hall
01/2015 - 01/2015	ABA Advanced Series/Senior Seminar: Oral board practice session, Examiner, VUMC Light Hall
02/2015 - 02/2015	Practice Oral board exams: Practice Oral Board exams, Examiner, VUMC, Provided/organized/facilitated four evenings of exams for senior residents/fellows
02/2015 - 02/2015	ABA Advanced Series/Senior Seminar: Oral board practice session, Examiner, VUMC Light hall
03/2015 - 03/2015	Critical Care Skills Week: Management of the Airway, Lecturer, VUMC CELA
04/2015 - 04/2015	Pediatric Cardiology Fellows Conference: Cardiac Anesthesia, Lecturer, VCH
04/2015 - 04/2015	Pediatric Anesthesia Resident lecture series: Congenital Heart Disease and Anesthetic Implications, Lecturer, VCH
04/2015 - 04/2015	ABA Advanced Series/Senior Seminar: Anesthesia and Respiratory Physiology, Lecturer, VUMC Light hall
05/2015 - 05/2015	Practice Oral board exams: Practice Oral Board exams, Examiner, VUMC, Provided/organized/facilitated six evenings of exams for senior residents/fellows
06/2015 - 06/2015	Intern Boot Camp: Practical Airway Management, Lecturer, VUMC CELA
06/2015 - 06/2015	ABA Advanced Series/Senior Seminar: Oral board practice session, Lecturer, VUMC
06/2015 - 06/2015	ABA Basic CA-1 lecutre series: Pediatric Anesthesia, Lecturer, VUMC
08/2015 - 08/2015	Boot Camp for Pediatric Anesthesia fellows: An Approach to Understanding Congential Heart Disease Lesions, Lecturer, VCH

Other Significant Activities

08/2011	Resident/Fellow Mock Oral Boards: Organized/Coordinated Mock Oral Boards 8/23 - 8/24
12/2011	Resident/Fellow Mock Oral Boards: Organized/Coordinated Mock Oral Boards 12/14 - 12/15
04/2012	Resident/Fellow Mock Oral Boards: Organized/Coordinated Mock oral boards 4/10/12 - 4/11/2012
09/2012	Resident/Fellow Mock Oral Boards: Organized/Coordinated Mock oral boards 9/4/12 - 9/6/12
02/2013	Fellow Mock Oral Boards: Organized/Coordinated mock oral boards for fellows preparing for ABA exam
05/2013	Resident Mock Oral boards: Organized/Coordinated mock oral boards for CA-2/CA-3 class
09/2013	Resident/Fellow practice oral boards: Organized/Coordinated practice oral boards for CA-2/CA-3 residents and fellows
03/2014	Resident/Fellow practice oral boards: Organized/Coordinated practice oral boards for CA-2/CA-3 residents and fellows
02/2015	Resident/Fellow practice oral boards: Organized/Coordinated practice oral boards for CA-2/CA-3 residents and fellows
05/2015	Resident/Fellow practice oral boards: Organized/Coordinated practice oral boards for CA-2/CA-3 residents and fellows

Publications

Non-Peer Reviewed Publications

Research Articles

1. Pretorius M, **Hughes AK**, Stahlman MB, Saavedra PJ, Deegan RJ, Greelish JP, Zhao DX. Placement of the TandemHeart percutaneous left ventricular assist device. Anesthesia and analgesia 2006 Dec;103(6):1412-3. PMID: 17122214.

2. Whitney G, Daves S, **Hughes A**, Watkins S, Woods M, Kreger M, Marincola P, Chocron I, Donahue B. Implementation of a transfusion algorithm to reduce blood product utilization in pediatric cardiac surgery. Paediatric anaesthesia 2013 Jul;23(7):639-46. PMID: 23506389.

Presentations

Workshop

1. American Society of Anesthesiologists Annual Meeting. American Society of Anesthesiologists; San Francisco, California. 2003 Oct; Advanced Cardiac Life Support Simulator Faculty.
2. Advanced Airway Management Workshop. Vanderbilt University Medical Center, Anesthesia Department; Nashville, Tennessee. 2004 Oct; Lung Separation Station.
3. American Society of Anesthesiologists Annual Meeting. American Society of Anesthesiologists; Las Vegas, Nevada. 2004 Oct; Advanced Cardiac Life Support Simulator Faculty.
4. Airway Management Course. Vanderbilt University Medical Center, Department of Anesthesiology; Nashville, Tennessee. 2005 Sep; Lung Separation Station.
5. Pediatric and Adult Airway Management Workshop. Vanderbilt University Medical Center, Department of Anesthesiology; Nashville, Tennessee. 2006 Sep; Lung Isolation Station.
6. Pediatric and Adult Airway Management Workshop. Vanderbilt University Medical Center, Department of Anesthesiology; Nashville, Tennessee. 2007 Sep; Lung Isolation Station.
7. Intern Boot Camp. Vanderbilt University Medical Center; Nashville, Tennessee. 2009 Jun; Introduction to Airway Management.
8. CA-1 Airway Course. Vanderbilt University Medical Center, Department of Anesthesiology; Nashville, Tennessee. 2009 Sep; Lung Isolation Station.
9. Society of Cardiovascular Anesthesiologists Annual Meeting. Society of Cardiovascular Anesthesiologists; New Orleans, Louisiana. 2010 Apr; Electrophysiology workshop.
10. Vanderbilt Critical Skills Summit. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 May; Adult Airway Management.
11. Vanderbilt University Medical Center. Intern Boot Camp. Nashville, Tennessee. 2010 Jun; Introduction to Airway Management.

Invited Presentation - Local

1. Vanderbilt University Lifeflight EMS night out. Vanderbilt University Lifeflight; Clarksville, Tennessee. 2005 Apr; Practical Prehospital Airway Management.
2. MTEC Annual EMS Conference. MTEC/Vanderbilt University Lifeflight; Dickson, Tennessee. 2005 May; Practical Prehospital Airway Management.
3. Airway Management Workshop. Vanderbilt University Medical Center, Department of Anesthesiology; Nashville, Tennessee. 2005 Sep; Predicting and Assessing the Difficult Airway.

Invited Presentation - Regional

1. Pediatric and Adult Airway Management Workshop. Vanderbilt University Medical Center, Department of Anesthesiology; Nashville, Tennessee. 2006 Sep; Anatomy of the Difficult Airway.
2. Pediatric and Adult Airway Management Workshop. Vanderbilt University Medical Center, Department of Anesthesiology; Nashville, Tennessee. 2007 Sep; Assessment of the Airway, Avoiding Difficulties.
3. Pediatric and Adult Airway Management Workshop. Vanderbilt University Medical Center, Department of Anesthesiology; Nashville, Tennessee. 2008 Sep; Avoiding Misadventure, a Practical Approach to Adult and Pediatric Airway Management.

Invited Presentation - National

1. Society of Cardiovascular Anesthesiologists Annual Meeting. Society of Cardiovascular Anesthesiologists; New Orleans, Louisiana. 2010 Apr; Whatâ€™s New in Atrial Fibrillation and Ventricular Tachycardia Ablations.
2. Society of Cardiovascular Anesthesiologists Annual Meeting. Society of Cardiovascular Anesthesiologists Annual Meeting; New Orleans, Louisiana. 2010 Apr; The Adult Patient with Fontan Physiology.
3. Annual meeting of Congenital Cardiac Anesthesia Society. Congenital Cardiac Anesthesia Society; San Diego, California. 2011 Mar 31; The Sickest of the Sick, a 3 yr old with Williams syndrome, severe AS/PS for catheterization.

Other

1. Anesthesia Faculty Academic Development Seminar. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Mar; Becoming a Better Oral Board Examiner, Some Doâ€™s and Donâ€™ts.
2. Alexander Hughes. Faculty Development Seminar. VUMC Department of Anesthesiology; Nashville, Tennessee. 2011 Nov 18; Focusing on the Examiner to Improve the Mock Oral Board Experience.

Internal Grand Rounds

1. Alexander Hughes. Vanderbilt University Department of Anesthesiology Grand Rounds. Vanderbilt University Department of Anesthesiology; Nashville, Tennessee. 2012 Mar 30; The Impact of QI Initiatives on a Small Anesthesia Division.

External Grand Rounds

1. Alexander Hughes. Pediatric Grand Rounds. T.C. Thomspon Children's Hospital at Eralnger; Chattanooga, Tennessee. 2011 Sep 14; Neurologic Outcomes in Children After Cardiac Surgery.
2. Alexander Hughes. Department of Anesthesiology Grand Rounds. Maine Medical Center; Portland, Maine. 2011 Dec 27; The Impact of QI Initiatives on a Small Anesthesia Division.

Presentations at Scientific Meetings

1. Alexander Hughes. Society for Pediatric Anesthesia/Congenital Cardiac Anesthesia Society Annual Meeting. SPA/CCAS; Las Vegas, Nevada. 2013 Mar 16; Abstract: Evaluation of Dynamic Ultrasound in Arterial Access for Children Undergoing Surgery.