

Curriculum Vitae

Name: William Timothy Costello
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Training

2002 B.A. from David Lipscomb University, TN United States
2006 M.D. from University of Tennessee Center for Health Science, TN United States

Licensure and Certification

06/2008 - 11/2013 Medical License, Medical Doctor of Tennessee United States (43881)
09/2011 - 12/2021 Specialty Certification, Anesthesiology United States (47767)
08/2012 - Present Subspecialty Certification, Critical Care Medicine United States (47767)

Academic Appointments

07/2010 - 07/2011 Instructor in Clinical Anesthesiology, Vanderbilt University (Nashville, Tennessee)
08/2010 - 07/2011 Clinical Fellow in Anesthesiology, Vanderbilt University (Nashville, Tennessee)
08/2011 - Present Assistant Professor of Clinical Anesthesiology, Vanderbilt University (Nashville, Tennessee)

Professional Organizations

2002 American Medical Association
2006 Tennessee Medical Association
2006 American Society of Anesthesiologists
2006 Tennessee Society of Anesthesiologists
2007 Society of Critical Care Anesthesiologists

Professional Activities

Intramural

08/2010 - Present Vascular Access Safety, I attend bi-monthly multi-disciplinary meetings to discuss and design policy for improving the safety of vascular access devices at VUH/VCH., Committee member
10/2011 - Present Institutional Critical Care Committee, Anesthesiology, I represent the CVICU in a committee designed to deal with common challenges facing all ICUs in the VUMC system, as well as attempt to standardize best practice across divides in critical care specialties., Member, CVICU representative
10/2011 - Present Integrated Presence Steering Committee, Biomedical Informatics, Active member of a multi-disciplinary work group charged with better implementing virtual "safety net" technology at VUH., Committee member, Project design, execution
12/2012 - Present Vascular Access Safety, Quality Council, Chair of VUMC/VCH committee charged with reviewing and writing policy to maintain quality and safety of vascular access devices and procedures throughout the medical center, Chair

Teaching Activities

10/2 - 10/2 Critical Care Immersion: Critical Illness Simulation, Instructor, CELA MRB IV, Lecture on Critical Illness, followed by 2 SIM sessions, 2X2 Hour sessions
06/15 - Present CA-0 Core Lecture Series: Cardiovascular Physiology, Lecturer, VUH Resident Library
03/2011 - Present ACNP education: Therapeutic Hypothermia, Lecturer, CVICU conference room, One time lecture on current science, approach to therapeutic hypothermia.
07/2011 - Present Critical Care Skills Week: Pulmonary Artery Catheterization, Instructor, Light Hall Simulation Center, Nashville TN, I have lectured on four occasions

	regarding the use of pulmonary artery catheters, including physical demonstrations.
08/2011 - Present	Critical Care Skills Week: Monitors in Anesthesia, Instructor, Light Hall Simulation Center, Nashville TN, Three to four times yearly, I would give a lecture coupled with simulation regarding the use of hemodynamic monitors in anesthesia.
08/2011 - Present	Fundamentals of Critical Care Skills: Advanced Ventilator Modes, Lecturer, Light Hall, Nashville TN, On three separate occasions, I have given lectures regarding the use of advanced ventilator modes.
11/2011 - Present	FCCS: Acute Respiratory Failure, Instructor, Light Hall, This was a 1 hour lecture on the diagnosis and management of acute respiratory failure.
11/2011 - Present	Critical Care Skills Week: Diagnosis and Management of Shock, Instructor, This was two consecutive 2 hour simulator based lectures to VMC medical students re: the diagnosis and management of shock
05/2012 - Present	Critical Care Skills Week: Diagnosis and management of Critical Illness, Lecturer, Director, VUMC Center for medical simulation, This was a series of back to back two hour simulation sessions with VUMC medical students re: the acute management of common life conditions in the ICU.
08/2012 - 08/2012	FCCS: Acute Coronary Syndromes, Instructor, CELA, Over three hours, ran ACS clinical scenarios for four groups of NPs, CCRNs.
10/2012 - Present	Critical Care Immersion: Antibiotic Therapy, Lecturer, MCE Conference Room, 1 hour lecture on antibiotic therapy for Curriculum 2.0 lecture series
10/2012 - Present	Critical Care Fellowship: Valvular pathology, MCE 3, I give a recurring lecture to each fellowship class about management of valve surgery patients
10/2013 - 10/2013	Critical Care Skills Week: Diagnosis and Management of Shock, Instructor, MRB 3, Medical student sim, 2 sessions at 2 hours per session, 10/2/2013.
10/2013 - 10/2013	Critical Care Skills Week: Diagnosis and Management of Shock, Instructor, MRB 3, 2 sessions of 2 hours instructing, 10/3/2013
11/2013 - 11/2013	CCM Fellowship Lecture Series: Non Cardiac Complications of CPB and ECMO, Lecturer, 6T3 Conference Room, One hour evidence based lecture on management of complications related to CPB and ECMO in adults, 11/15/2013
01/2014 - 01/2014	Resident Simulation: OR Emergencies, Instructor, MRB 3, Guided 2 hours of resident simulation of OR emergencies, with debriefing, performance review. 1/31/2014
02/2014 - Present	Internal Medicine Resident Lecture Series: Sedation in the ICU, Lecturer, VUH 5N, 30 minute lecture on risks and benefits of different forms of sedation in the ICU
10/2014 - 10/2104	ECMO Specialist Training Course: ECMO: Ethics Panel, Presenter, VUH, 90 minute multidisciplinary panel discussion on ethics in adult ECMO patients
10/2014 - 10/2104	ECMO Specialist Training Course: ECMO: When to Wean, Lecturer, VUH, 30 minute talk on when to wean and how to wean ECMO
10/2014 - 10/2104	ECMO Specialist Training Course: Post ECMO Care, Lecturer, VUH, 30 minute discussion on post ECMO care
12/2015 - 12/2015	Cardiothoracic Anesthesiology Lecture Series: ECMO Part 1, Lecturer, MCE 5, Presentation and discussion of types of ECMO
02/2016 - 02/2016	Critical Illness ISC Immersion Course: Critical Illness Simulator, Instructor, Light Hall, Lecture and simulation on critical illness to VMS III and IV
02/2016 - 02/2016	Critical Illness ISC Immersion Course: Journal Club, Instructor, Light Hall, Led journal club discussion re: evaluation of brain death
05/2016 - 05/2016	Critical Care Immersion Course: Journal Club, Moderator, Light Hall 437, Guided discussion of primary clinical research article re: norepinephrine vs. Dopamine.
05/2016 - 05/2016	Critical Care Immersion Course: Prevention of ICU Complications, Lecturer, Light Hall 437, PPT talk re: prevention of ICU complications.

Research Supervision / Mentorship

10/2013 - Present	Brian O'Hara, M.D. Vanderbilt University Medical Center, Current Position: Resident physician. (Faculty, Clinical)
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Other Significant Activities

01/2012	Associate Medical Director, CVICU: Attend unit leadership meetings and assist in the development of unit specific policy and guidelines.
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Honors / Awards

- 06/2010 Excellence in Cardiothoracic Anesthesiology,, VA Hospital Department of Anesthesiology, Nashville TN, Award given to the one outstanding senior anesthesiology resident at VUMC during their rotations in cardiovascular anesthesia at the VA hospital.

Publications

Peer Reviewed Publications

Review Articles

1. **Costello WT**, Weavind L. Costello WT, Weavind L. Dabigatran vs. Warfarin in Atrial Fibrillation. . SOCCA Interchange 2011 Jun;22(2):10-11.

Research Articles

1. Maltais S, **Costello WT**, Billings FT IV, Bick JS, Byrne JG, Ahmad RM, Wagner CE. Episodic monoplane transesophageal echocardiography impacts postoperative management of the cardiac surgery patient. Journal of Cardiothoracic and Vascular Anesthesia 2013 Aug;4:665-669. PMID: 23849522.
2. Haglund NA, Maltais S, Bick JS, **Costello W**, Keebler M, Davis ME, Tricarico NM, Wagner CE. Hemodynamic Transesophageal Echocardiography After Left Ventricular Assist Device Implantation. Journal of Cardiothoracic and Vascular Anesthesia 2014 Aug;28(5):1184-1190. PMID: 25104081.

Non-Peer Reviewed Publications

Book Chapters

1. William T. Costello, MD. Gastric Tonometry. Monitoring Technologies in Acute Care Environments. Editors: Ehrenfeld J; Cannesson, M. New York, New York, United States: Springer; 2013 Dec;1 317-320. ISBN: 978-1-4614-8557-5.

Presentations

Internal Grand Rounds

1. Will Costello, Liza Weavind. VUMC Dept of Anesthesiology; Nashville, Tennessee. 2007 Aug; Hemodynamic Collapse After Bone Cement.
2. Vanderbilt Department of Anesthesiology; Nashville, Tennessee. 2014 Sep 26; ECMO: When ACLS is not all we have to offer.

Presentations at Scientific Meetings

1. Will Costello. Society of Critical Care Anesthesia National Meeting. SOCCA; Chicago, Illinois. 2011 Oct 14; The Contribution of TEE to the postoperative management of post operative cardiac surgical patients.
2. Will Costello. ASA National Meeting. American Society of Anesthesiologists; Chicago, Illinois. 2011 Oct 18; Costello WT, et al. Transesophageal Echocardiography as a Hemodynamic Monitor in Post Operative Cardiac Surgery Patients.

Medically Challenging Cases

1. Will Costello. ASA National Meeting. American Society of Anesthesiologists; Orlando, Florida. 2008 Oct; Cardiovascular Collapse During Total Hip Arthroplasty.
2. Will Costello. ASA National Meeting. American Society of Anesthesiologists; New Orleans, Louisiana. 2009 Oct; Fulminant Coronary Vasospasm leading to cardiac arrest.
3. Will Costello. American Thoracic Society National Meeting. American Thoracic Society; Denver, Colorado. 2011 May; Hemodynamic TEE monitoring in burn patient undergoing therapeutic hypothermia.

Invited Presentation - International

1. William T. Costello. Society of Thoracic Surgery Annual Meeting. Society of Thoracic Surgery; San Diego, California. 2015 Jan 25; ECMO: When to Wean?.

Visiting Professor

1. William Costello, MD. Imacor, Inc; Washington, District of Columbia. 2012 Mar 20; hTEE in Cardiac Surgery Patients.