Curriculum Vitae

Name:	Sheena M. Weaver
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Education

1998 - 2000	Biological Sciences from Kent State University, Kent, OH, United States
2000 - 2001	B.S. in Biology from Baldwin-Wallace College, Berea, OH, United States
2002 - 2006	M.D. from Case Western Reserve University, Cleveland, OH, United States

Training

07/2006 - 06/2007	Internship in Anesthesiology/Medicine from Vanderbilt University, Nashville, TN
07/2007 - 06/2010	Residency in Anesthesiology from Vanderbilt University, Nashville, TN
08/2010 - 07/2011	Fellowship in Critical Care Medicine from Vanderbilt University, Nashville, TN

Licensure and Certification

09/2008 - Present	Medical, TN Medical License of Tennessee United States (44215)
04/2011 - 12/2021	Board Certification, Anesthesiology of Tennessee United States (Primary Certification)
08/2012 - 12/2022	Board Certification, Critical Care Medicine United States
12/2013 - Present	Board Certification, Neurocritical Care (NCC01240-13)

Academic Appointments

09/2011 - 09/2014	Assistant Professor of Anesthesiology, Vanderbilt University (Nashville, Tennessee)
09/2014 - Present	Assistant Professor of Clinical Anesthesiology, Vanderbilt University (Nashville, Tennessee)
10/2014 - 06/2015	Assistant Professor of Clinical Anesthesiology, Vanderbilt University (Nashville, Tennessee)

Professional Organizations

2002	American Medical Association
2006	American Society of Anesthesiologists
2006	Tennessee Medical Association
2011	Society of Critical Care Medicine
2013	Neurocritical Care Society
2015	Society of Critical Care Anesthesiologists

Professional Activities

Intramural

08/2010 - Present	Intern QI, Anesthesiology, Educating incoming Anesthesiology interns on Quality and Process Improvement techniques and strategies; using the key events presented to form potential QI/PI initiatives., Chair, Educator and Session Scheduling
09/2011 - 06/2014	Residency Admissions Committee, Anesthesiology, Interviewing and selection of candidates for the Anesthesiology Residency Program
	Medication Use & Safety Improvement Committee, Pharmacology, Medication Use and Safety

03/2012 - Present	Improvement Committee, Active member
04/2012 - Present	Utilization Committee, Pathology, Blood product utilization and efficiency in the VUH adult hospital., Active Member
06/2012 - Present	Neuro ICU Quality ImprovementCommittee, Neuroscience, Geared toward patient safety and quality improvement in the Neuro ICU; a multi-disciplinary group involving nursing, CCI/QSRP staff, as well as the Neurosurgery and Neurology departments., Co-Chair, Quality Improvement

Teaching Activities

06/2010 - 06/2012	Vascular access, anatomy and central line teaching: Intern Bootcamp, Instructor, CELA, Recurring yearly
07/2010 - 06/2011	Matrix Quality Improvement Sessions: Matrix Quality Improvement Sessions, Co-educator, Resident Quality and Process Improvement education.
08/2010 - 02/2011	Diagnosis of Critically Ill: Critical Care Skills Week, Instructor, CELA, Recurring every ~3months; 2-3h sessions.
09/2010 - 10/2010	Trauma & Burn Support: Fundamentals of Critical Care Support, Instructor, CELA, 3hrs - SCCM Course - prepare the non-intensivist for first 24 hours of management of the critically ill patient until transfer or appropriate critical care consultation can be arranged.
09/2010 - 10/2010	Special Considerations Lecture: Fundamental of Critical Care Support, Lecturer, Light Hall, 1hr - SCCM Course - prepare the non-intensivist for first 24 hours of management of the critically ill patient until transfer or appropriate critical care consultation can be arranged.
10/2010 - 10/2010	Bronchoscopy Simulation: Intern Skills sessions, Instructor, CELA, 2hrs - Review of pertinent anatomy, pathology and the approach to simple bronchoscopy and lavage.
10/2010 - 10/2010	Cook catheter instruction: Cook Critical Care Course, Instructor/Evaluator, CELA, Appropriate invasive line insertion instruction/clinical education.
07/2011 - 10/2011	Critical Care Nurse Practitioner Skills Sessions: ACNP Invasive Line Insertion, Instructor, CELA, Review of safe central line and arterial line insertion techniques and skills assessment. 2 sessions: 7/2011, 10/2011. (4hours each)
09/2011 - 05/2011	Anesthesiology: CA-2 Simulation Sessions, Instructor, CELA, 3 hrs - Clinical simulation in the format of MOCA certification on high yield, critical thinking case scenarios, incorporating residency core competencies.
09/2011 - 09/2011	Trauma/Burn Support: Fundamentals of Critical Care Support, Instructor, CELA, 3hrs - SCCM Course - prepare the non-intensivist for first 24 hours of management of the critically ill patient until transfer or appropriate critical care consultation can be arranged.
01/2012 - 10/2012	Surgery/Anesthesiology: Intern Global Assessment, Evaluator, CELA, Two 4-hour sessions - Video evaluation and feedback of mock patient interactions (informed consent and breaking bad news), as well as central line and chest tube insertion clinical skills.
02/2012 - 03/2012	Diagnosis and Management of Shock: Critical Care Skills Week, Instructor, CELA, 4 hrs - Review of the recognition and management of shock, to include approaches to resuscitation and source control in septic shock.
02/2012 - 05/2012	Anesthesiology: CA-2/3 Simulation Session, Instructor, CELA, 3hrs - Clinical simulation in the format of MOCA certification on high yield, critical thinking case scenarios, incorporating residency core competencies.
03/2012 - 03/2012	Ischemia-Reperfusion Injury: Advanced Perioperative Medicine Lecture Series, Instructor, VUMC, 2hr session - interactive lecture
05/2012 - 05/2012	Advanced Trauma Life Support, Instructor, Currently instructor status.
05/2012 - 05/2012	Trauma/Burn Support: Fundamentals of Critical Care Support, Instructor, CELA, 3hrs - SCCM Course - prepare the non-intensivist for first 24 hours of management of the critically ill patient until transfer or appropriate critical care consultation can be arranged.
08/2012 - 2012	Critical Care Fellowship Lecture Series: Post-op Care of Piuitary Tumors, Lecturer, Discussing the critical care management of post-operative pituitary tumor resections.
08/2012 - 05/2012	Trauma/Burn Support: Fundamentals of Critical Care Support, Instructor, CELA, 3hrs - SCCM Course - prepare the non-intensivist for first 24 hours of management of the critically ill patient until transfer or appropriate critical care consultation can be arranged.
08/2012 - 11/2012	Pregnancy: Critical Care Skills Week, Instructor, CELA, 4hrs - Discussing the critical care management of parturients.
10/2012 - 2012	Cardiogenic Shock: Critical Care Immersion Course, Instructor, CELA, 1 hour - Cardiogenic Shock simulation
10/2012 - 2012	ACNP Ultrasound Proficiency teaching, Instructor, CELA, 1 hour - Discussed U/S techniques as well as simulation of arterial and central line insertion.

10/2012 - 11/2012	Diagnosis and Management of Shock: Critical Care Skills Week, Instructor, CELA, 4hrs - Review of the recognition and management of shock, to include approaches to resuscitation and source control in septic shock.
11/2012 - 05/2012	CA-2 Simulation Sessions, Instructor, CELA, 2 hours - Clinical simulation in the format of MOCA certification on high yield, critical thinking case scenarios, incorporating residency core competencies.
11/2012 - 05/2012	Diagnosis and Management of Shock: Fundamental Critical Care Support, Instructor, CELA, 4 hours - SCCM Course - prepare the non-intensivist for first 24 hours of management of the critically ill patient until transfer or appropriate critical care consultation can be arranged.
01/2013 - 01/2013	Cardiogentic Shock: Critical Care Immersion, Instructor, CELA, 1hr
02/2013 - 02/2013	Neuromuscular Respiratory Failure: ACNP School of Nursing Lecture, Lecturer, 1hr
02/2013 - 02/2013	Reperfusion Injury: Perioperative Immersion, Instructor, 2hrs
02/2013 - 02/2013	Septic Shock: Critical Care Immersion, Instructor, 1hr
02/2013 - 05/2013	Integrated Hemorrhagic Shock: Fundamental Critical Care Support, Instructor, 3hrs - SCCM Course - prepare the non-intensivist for first 24 hours of management of the critically ill patient until transfer or appropriate critical care consultation can be arranged.
04/2013 - 05/2013	Simulation: CA-2 Resident Simulation, Instructor, CELA, 2hrs - Clinical simulation in the format of MOCA certification on high yield, critical thinking case scenarios, incorporating residency core competencies.
05/2013 - 05/2013	Resident Simulation: CA-3 Resident Simulation, Instructor, CELA, 2hrs - Clinical simulation in the format of MOCA certification on high yield, critical thinking case scenarios, incorporating residency core competencies.
05/2013 - 10/2013	Infections and Special Considerations: Critical Care Skills Week, Lecturer, 1hr - Basics of critical care medicine regarding sepsis/shock and other special considerations including: pulmonary embolism, GI hemorrhage, and abdominal compartment syndrome.
06/2013 - 06/2013	Simulations: PGY-1 Intro to Anesthesia, Instructor, 3hrs
08/2013 - 05/2013	Simulation: CA-3 Resident Simulation, Instructor, CELA, 2hrs - Clinical simulation in the format of MOCA certification on high yield, critical thinking case scenarios, incorporating residency core competencies.
08/2013 - 08/2013	Simulation: VMSIII Anesthesia Simulation, Instructor, CELA, 2hrs
11/2013 - 02/2013	Hemodynamic Monitoring: Critical Care Medicine Basics Elective, Lecturer, 1hr - Lectures, journal review, and case presentations on various CCM topics, to include: shock; hemodynamic monitoring; end of life care in the ICU; and more.
11/2013 - 05/2014	Traumatic Brain Injury Interactive Session: Fundamental Critical Care Support, Instructor, 2.5hrs - SCCM Course - prepare the non-intensivist for first 24 hours of management of the critically ill patient until transfer or appropriate critical care consultation can be arranged.
12/2013 - 02/2013	Simulation: CA-3 Resident Simulation, Instructor, CELA, 2hrs - Clinical simulation in the format of MOCA certification on high yield, critical thinking case scenarios, incorporating residency core competencies.
01/2014 - 02/2014	Case Presentations: Critical Care Medicine Basics Elective, Facilitator, 1hr - Lectures, journal review, and case presentations on various CCM topics, to include: shock; hemodynamic monitoring; end of life care in the ICU; and more.
02/2015 - 02/2015	Neurologic Support: Critical Care Skills Week, Instructor, CELA, Review the neurologic principles, clinical assessment and goals of management of brain insult and the brain injured patient, as well as selected pathophysiologic conditions.

Research Supervision / Mentorship

07/2013 - 06/2014	Meredith Herzog, M.D. Vanderbilt University Medical Center, Current Position: Resident. (Resident, Clinical)

Other Significant Activities

09/2008	Multi-specialty Anesthesiology Curriculum Development: Burn & Trauma Anesthesia Elective Rotation and curriculum development (Faculty Mentor: Shannon Kilkelly, MD)
07/2009	Neuroanesthesia Curriculum Development: Clinical protocol and resident curriculum development (Faculty Mentors - Letha Mathews, MD, Jane Easdown, MD)
07/2009	Cardiothoracic Anesthesia Curriculum Development: Intraoperative TEE Elective rotation and curriculum development (Faculty Mentor: Susan Eagle, MD)
	Intern QI Curriculum Director: Development and revamp of Quality Improvement Curriculum,

08/2010	to include: faculty lectures, guest speakers, intern-led presentations and contributions to an initiative bank, foundation of QI knowledge, completion of IHI Open School modules.
05/2012	Neuroanesthesia Rotation Coordinator: Curriculum development, PBLD-based didactic series, improvements on feedback, and end-of-rotation evaluation systems, as well as online learning platform development.
01/2013	Curriculum 2.0 - Neurosciences Elective - Director: Apply anatomy, physiology, and pharmacology to common neurological disorders via perspectives of neurosurgery, neuroanesthesia, and neurocritical care
09/2013	Neuroanesthesia Rotation Director: Curriculum development, PBLD-based didactic series, improvements on feedback, and end-of-rotation evaluation systems, as well as online learning platform development.
01/2015	Director Curriculum 2.0 Elective - Neuroanesthesia: A 1 month elective focusing on a Neurosurgeon's view of Neuroanesthiology - for medical students going into Neurosurgery. Pre-op, intra-op, and post-op management, as well as positioning and monitoring are the focus.

Honors / Awards

06/2010	Outstanding Achievement Award in Neuroanesthesia, Vanderbilt Department of Anesthesiology, Resident Achievement Award
06/2010	Oustanding Achievement Award in Cardiothoracic Anesthesia, Vanderbilt Department of Anesthesiology, Resident Achievement Award

Publications

Non-Peer Reviewed Publications

Book Chapters

1. Howson SM, Barwise JA, Parmley CL. Cardiovascular Therapy. Handbook of Neuroanesthesia. Editors: Phillipa Newfield, James E Cottrell. Philedelphia, Pennsylvania, United States: Lippencott Williams & Wilkins; 2012 Jun;5th ed. ISBN: 13: 9781605479651.
2. Allred A; **Weaver S**. Electrolyte Abnormalities. SOCCA ICU Residents' Guide 2014 Edition: Introduction to Learning in the Intensive Care Unit. San Francisco, California, United States: Society for Critical Care Anesthesiologists; 2014; 140-146.

Case Reports

1. 1. Zuckerman SL, Forbes JA, Mistry AM, Krishnamoorthi H, **Weaver S**, Mathews L, Cheng JS, McGirt MJ. Electrophysiologic deterioration in surgery for thoracic disc herniation: impact of mean arterial pressures on surgical outcome. European Spine Journal 2014 Nov;23(11):2279-2290. PMID: 24898311.

Review Articles

1. Howson SM, Weavind L. Major Burns.
2. Howson, SM. PRO: Early Tracheostomy. SOCCA: Interchange 2012 Jan;23(1):19-20.

Letters

1. **Weaver, SM**. Kumar AB. Epithelioid hemangioma of the spine: an uncommon cause of spinal cord compression. Acta Neurologica Belgica 2015 Feb; PMID: 25672266.

Presentations

Other

1. Sheena M. Howson, MD. Critical Care Journal Club. Vanderbilt Anesthesiology Division of Critical Care; Nashville, Tennessee. 2010 Aug; Prone Ventilation.
2. Sheena M. Howson, MD. Combined Critical Care/Cardiothoracic Anesthesia Journal Club. Vanderbilt Anesthesiology Division of Critical Care; Nashville, Tennessee. 2010 Nov; Variation in Use of Blood Transfusion in CABG Surgery.
3. Sheena M. Howson, MD. Critical Care Fellowship Lecture Series. Vanderbilt Anesthesiology Division of Critical Care; Nashville, Tennessee. 2011 Jan; The Basics of Major Burn Care.

4. Sheena M. Howson, MD. Combined Surgical/Anesthesiology Critical Care Journal Club. Vanderbilt Anesthesiology Division of Critical Care; Nashville, Tennessee. 2011 Feb; Early Vs. Late Tracheotomy.
5. Sheena M Howson, MD. Critical Care Fellowship Lecture Series. Vanderbilt Anesthesiology Division of Critical Care; Nashville, Tennessee. 2011 Apr; Quality Improvement Initiative: CVC Complications.
6. Sheena M Howson, MD. Vanderbilt Department of Surgery; Nashville, Tennessee. 2011 Jul; SICU Morbidity and Mortality Conference.

Internal Grand Rounds

1. Raj Gupta, MD, Sheena M Howson, MD. Combined Quarterly Anesthesiology, Surgery, and Surgical Services Morbidity & Mortality Conference. Vanderbilt University Medical Center; Nashville, Tennessee. 2008 Sep; Paraplegia Secondary to Epidural Hematoma.

Medically Challenging Cases

1. Sheena M. Howson, MD; Jason Olinger, MD. Division of Critical Care Anesthesiology Morbidity & Mortality Conference. Vanderbilt Anesthesiology Division of Critical Care; Nashville, Tennessee. 2007 Oct; J.R. - Medically Challenging SICU Patient.
2. Phelps, RA, King, A, Weaver SM. American Society of Anesthesiologists Annual Meeting. Washington, District of Columbia. 2012 Oct; Control-Alt-Delete Gone Awry.