

CURRICULUM VITAE

Michael Tracy Zundel MD

Assistant Professor
Department of Anesthesiology
Division of Clinical

OFFICE ADDRESS:

Froedtert Hospital
9200 W Wisconsin Ave
Milwaukee, WI 53226

CITIZENSHIP: United States of America

EDUCATION:

2001 - 2005 Chemistry BA, University of Utah, Salt Lake City, UT
2005 - 2009 MD, Medical College of Wisconsin, Milwaukee, WI

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

2009 - 2010 Medical Internship, Internal Medicine, Medical College of Wisconsin, WI
2010 - 2013 Anesthesiology Residency, Anesthesiology, Medical College of Wisconsin, Milwaukee, WI 53213
2013 - 2014 Critical Care Fellowship, Anesthesiology, Medical College of Wisconsin, Milwaukee, WI 53213

FACULTY APPOINTMENTS:

Assistant Professor, Anesthesiology, Critical Care, Medical College of Wisconsin, Milwaukee, WI 53213

ADMINISTRATIVE APPOINTMENTS:

02/01/2017 - Present CVICU APP Liaison, Anesthesiology, Critical Care, MCW

EDUCATIONAL ADMINISTRATIVE APPOINTMENTS:

03/01/2018 - Present APP Fellowship MD Program Director, Anesthesiology, Critical Care, MCW

HOSPITAL STAFF PRIVILEGES:

07/01/2015 - Present Staff Anesthesiologist and Intensivist, Anesthesiology and Critical Care, Froedtert Hospital
07/01/2015 - Present Staff Anesthesiologist and Intensivist, Anesthesiology and Critical Care, Clement J. Zablocki VA Medical Center

SPECIALTY BOARDS AND CERTIFICATION:

<u>Board Certified</u>	<u>Issue Date</u>	<u>Expiration</u>
Diplomate, American Board of Anesthesiology	2014	2024
Subspecialty Certification- Critical Care Medicine	2014	None

AWARDS AND HONORS:

2010 - 2011 MCW Excellence in Teaching Award, Medical College of Wisconsin Department of Anesthesiology
2010 - 2011 Outstanding Medical Student Teacher Recognition, MCW Curriculum and Evaluation

Committee
2013 T. Michael Bolger Standing Ovation Award Nominee, MCW Student Affairs Committee

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

2010 - Present ASA (member)
2010 - Present WSA (member)
2013 - Present Society of Critical Care Medicine (Member)

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Pending

Peer Review

Title: Effects of Jugular Venous Compression on Orthostatic Tolerance
Role: Principal Investigator
PI: Dr. M. Tracy Zundel, Dr. Tom Chelimsky
Dates: 07/01/2018 - Present

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

Regional

Zundel MT, Riess ML, Pulse Oximetry, Vascular Tone, and Chronic Fatigue, Wisconsin Society of Anesthesiologists Annual Meeting, Milwaukee, WI, 2013

COMMITTEE SERVICE:

Hospital

2014 - Present Member, QA Committee, Anesthesiology Department, Froedtert Hospital

MEDICAL COLLEGE TEACHING ACTIVITIES:

Medical Student Education

08/2013 Junior Medical Student Airway Course
12/17/2014 Small Group Facilitator Topic: Professionalism

Resident and Fellow Education

06/28/2013 Departmental Conference, Topic: Delayed Emergence and Central Anticholinergic Syndrome
07/01/2013 - 07/01/2017 CVL Simulator Instructor (Zablocki VA Hospital)
10/30/2013 Multidisciplinary Critical Care Conference, Topic: Hay Baler Trauma Complicated by Systemic Mucormycosis
04/15/2014 CVICU Lecture Series, Topic: SIRS, Sepsis, and Vasoplegia
11/26/2014 CVICU Lecture Series, Topic: SIRS, Sepsis, and Vasoplegia
03/05/2015 Departmental Conference, Topic: Delayed Emergence and Residual Neuromuscular Blockade
03/27/2015 Departmental M&M Presentation: Intraoperative Awareness, MH Protocol and Equipment Update
06/24/2015 Departmental Morbidity and Mortality Conference: Perioperative Cardiac Events, Undiagnosed Pulmonary HTN
07/25/2015 Departmental Morbidity and Mortality Conference: Reintubation in PACU
09/04/2015 Departmental Conference: Aspiration in the OR
12/11/2015 Departmental Morbidity and Mortality Conference: Refractory Hypoxia in a Trauma Patient
03/11/2016 Departmental Conference: Frailty and Opioid Dosing
07/11/2016 Departmental Conference: Reintubation and NMB
08/12/2016 Departmental Lecture: ECMO as a Rescue Therapy for Pulmonary Embolism
12/09/2016 Departmental Lecture: Blood Pressure and Fluid Management in the Operative Arena
01/13/2017 Departmental Morbidity and Mortality Conference: Heart Failure, Pulmonary Hypertension, and Sedation
03/25/2017 Airway Workshop Lecture: Mask Ventilation
04/28/2017 Departmental Morbidity and Mortality Conference: ABO Mismatch

07/14/2017 Departmental Conference: Things I Wish I Knew as a CA-1
 10/27/2017 Departmental Morbidity and Mortality Conference: Intraoperative ARDS
 11/10/2017 Departmental Conference: Spaced Learning Topic Review
 12/06/2017 CA-1 Lecture: Respiratory Physiology Part I
 01/31/2018 CA-1 Lecture: Respiratory Physiology Part II
 04/13/2018 Departmental Morbidity and Mortality Conference: Negative Pressure Pulmonary Edema
 06/15/2018 Departmental Conference: Obstructive Shock
 Clinical Lecture: Strategies for Pulmonary Recruitment: APRV, BiLevel Ventilation, Recruitment Maneuvers, and the role of PEEP
 Clinical Lecture: Clinical assessment of cardiovascular status
 Clinical Lecture: Invasive monitoring and assessment of cardiovascular status in cardiac surgery patients
 Clinical Lecture: Atrial Fibrillation in Cardiac Surgery Patients: Risk Factors, Prevention, and Treatment
 Clinical Lecture: Vasoplegia and Distributive Shock: Impairment of vascular system as a mediator of maldistribution despite adequate vital signs in shock states, role of Methylene Blue and B12
 Clinical Lecture: Respiratory Physiology: Shunt, Dead Space, Hypoxic Pulmonary Ventilation, and Supplemental O₂
 Clinical Lecture: Respiratory Drive, Apneic Oxygenation, CO₂, and Effects of Opioids
 Clinical Lecture: Basics of ECMO, blood flow, oxygenation, and management of general cardiopulmonary physiology.

MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:

Residents

Dr. Alex Harrison, MCW, 07/01/2014 - 07/01/2018
 Dr. James Rauschnot, MCW, 07/01/2014 - 07/01/2018
 Dr. Brett Tomlin, MCW, 02/01/2016 - 07/01/2018
 Dr. David Nielsen, MCW, 03/01/2016 - 07/01/2017
 Dr. Nancy Fru, MCW, 01/01/2017 - 07/01/2018
 Dr. Charlie Penn, MCW, 08/01/2017 - Present

LANGUAGES:

English, Mandarin Chinese

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Zundel MT, Michel MA, Schultz CJ, Maheshwari M, Wong SJ, Campbell BH, Massey BL, Blumin J, Wilson JF, Wang D. Comparison of physical examination and fluorodeoxyglucose positron emission tomography/computed tomography 4-6 months after radiotherapy to assess residual head-and-neck cancer. *Int J Radiat Oncol Biol Phys.* 2011 Dec 01;81(5):e825-32.
2. Pagel PS, Zundel MT. An echogenic object in the left atrium: a consequence of end-stage renal disease? *J Cardiothorac Vasc Anesth.* 2013 Dec;27(6):1429-31.
3. Ball JR, Dimaano C, Bilak A, Kurchan E, Zundel MT, Ullman KS. Sequence preference in RNA recognition by the nucleoporin Nup153. *J Biol Chem.* 2007 Mar 23;282(12):8734-40.
4. Zundel MT, Pattyn M, Chelimsky TC, Riess ML. Arterial flow waveforms, vascular tone, and chronic fatigue: a case report. *Auton Neurosci.* 2015 Jul;190:58-60. PMID: PMC4987085
5. Zundel MT, Boettcher BT, Feih JT, Gaglianello N, Pagel PS. Use of Oral Droxidopa to Improve Arterial Pressure and Reduce Vasoactive Drug Requirements During Persistent Vasoplegic Syndrome After Cardiac Transplantation. *J Cardiothorac Vasc Anesth.* 2016 Dec;30(6):1624-1626.
6. Burnes ML, Boettcher BT, Woehlck HJ, Zundel MT, Iqbal Z, Pagel PS. Hydroxocobalamin as a Rescue Treatment for Refractory Vasoplegic Syndrome After Prolonged Cardiopulmonary Bypass. *J Cardiothorac Vasc Anesth.* 2017 06;31(3):1012-1014.
7. Boettcher BT, Woehlck HJ, Reck SE, Hong JC, Zimmerman MA, Kim J, Zundel MT, Freed JK, Pagel PS. Treatment of Vasoplegic Syndrome With Intravenous Hydroxocobalamin During Liver Transplantation. *J Cardiothorac Vasc Anesth.* 2017 08;31(4):1381-1384.
8. Zundel MT, Feih JT, Rinka JRG, Boettcher BT, Freed JK, Kaiser M, Ghadiali HY, Tawil JN, Woehlck HJ, Pagel PS. Hydroxocobalamin With or Without Methylene Blue May Improve Fluid Balance in

Critically Ill Patients With Vasoplegic Syndrome After Cardiac Surgery: A Report of Two Cases. J Cardiothorac Vasc Anesth. 2018 02;32(1):452-457.

Books, Chapters, and Reviews

1. Fleisher: Complications in Anesthesia 3rd Edition (Pre-Publication) Chp 63: Major Organ System Dysfunction after Cardiopulmonary Bypass Zundel, M. Tracy Pagel, Paul