**STANDARDIZED CURRICULUM VITAE**

**University of Alabama at Birmingham**

**School of Medicine Faculty**

Date: October 1, 2020

**PERSONAL INFORMATION:**

Name:Matthew M. Townsley, M.D., FASE

Citizenship: United States of America

Foreign Language(s): N/A

Home Address: 2539 Aspen Cove Drive

Vestavia, Alabama 35243

Phone: (205) 396-7675

**RANK/TITLE:** Professor

Department: Anesthesiology and Perioperative Medicine

Division of Congenital Cardiac Anesthesiology

Business Address: 619 South 19th Street

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Birmingham, Alabama 35249-6810

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**HOSPITAL AND OTHER (NON-ACADEMIC) APPOINTMENTS:**

2010-Present Medical Staff, UAB Health System

2012-2014, 2016-Present Medical Staff, Children’s of Alabama

**EDUCATION:**

1997-2001 Honors B.A. Rollins College

(Biology) Winter Park, FL

2001-2005 M.D. University of South Florida

College of Medicine

Tampa, FL

**LICENSURE:**

Alabama Medical License - #27621, issued 8/16/2006

Alabama Controlled Substances Certificate - #27621, issued 8/16/2006

DEA Controlled Substance Registration Certificate - #BT9971741, issued 9/7/2006

**BOARD CERTIFICATION:**

2010-Present American Board of Anesthesiology, Diplomate

2010-Present National Board of Echocardiography, Diplomate

Advanced Perioperative Transesophageal Echocardiography

**POSTDOCTORAL TRAINING:**

2005-2006 Internship Orlando Health

Internal Medicine Orlando, FL

2006-2009 Residency University of Alabama at

Anesthesiology Birmingham

Birmingham, AL

2009-2010 Fellowship Emory University

Cardiothoracic Anesthesiology Atlanta, GA

**ACADEMIC APPOINTMENTS:**

2020-Present Professor University of Alabama at Birmingham

School of Medicine

Department of Anesthesiology and Perioperative Medicine

Birmingham, AL

2015-2020 Associate Professor University of Alabama at Birmingham

School of Medicine

Department of Anesthesiology and Perioperative Medicine

Birmingham, AL

2010-2015 Assistant Professor University of Alabama at Birmingham

School of Medicine

Department of Anesthesiology and Perioperative Medicine

Birmingham, AL

**AWARDS/HONORS:**

1997-2001 Athletic Scholarship, Men’s Varsity Basketball Team - Rollins College

2001 Omicron Delta Kappa, National Leadership Honor Society

2010-2015 Top Ten Teachers of the Year - UAB Department of Anesthesiology and Perioperative Medicine

2011 Teacher of the Year - UAB Department of Anesthesiology and Perioperative Medicine

2015 Robert Goodloe McGahey Award for Excellence in Medical Student Teaching - UAB Department of Anesthesiology and Perioperative Medicine

2016 Fellow of the American Society of Echocardiography (FASE)

2018 Best Reviewers of 2018, Anesthesia & Analgesia. Letter of

Commendation from the Editor-in-Chief

2019 Best Reviewers of 2019, Anesthesia & Analgesia. Letter of

Commendation from the Editor-in-Chief

**PROFESSIONAL SOCIETIES:**

American Society of Anesthesiologists

Alabama State Society of Anesthesiologists

International Anesthesia Research Society

Society of Cardiovascular Anesthesiologists

American Society of Echocardiography

Society for Pediatric Anesthesia

Congenital Cardiac Anesthesia Society

**COUNCILS AND COMMITTEES:**

Departmental

2010-2013 Anesthesia Coordinators Committee

2010-2017 Residency Applicant Selection Committee

2011-2013 Clinical Competency Committee - Anesthesiology Residency Program

2011-2013 Communications Committee

2011-2019 Clinical Competency Committee - Adult Cardiothoracic Anesthesiology Fellowship Program

2011-2019 Program Evaluation Committee - Adult Cardiothoracic Anesthesiology Fellowship Program

2012-2014 Equipment and Supply Committee

2012-2017 Quality Improvement Committee

2013 At-Risk Compensation Task Force

2013 Nonclinical Time Task Force

2013 Strategic Planning Committee

2014-2016 Co-Chair, Echocardiography Strategic Initiative

2015-2016 Chair, Program Evaluation Committee - Anesthesiology Residency Program

2015-2016 Executive Education Leadership Committee

2016-2017 Executive Committee

2017-Present Clinical Competency Committee - Pediatric Anesthesiology Fellowship Program

2017-Present Program Evaluation Committee - Pediatric Anesthesiology Fellowship Program

Institutional (UAB Health System)

2010-2013 Operating Room Coordination Committee

2012 Cardiovascular Patient Safety Task Force

2015-Present Clinical Physician Advisory Group

2016-2017 Cardiovascular Leadership Committee

2016-2017 Blood Utilization and Management Committee

**UNIVERSITY ACTIVITIES AND LEADERSHIP APPOINTMENTS:**

2010-2013 Anesthesia Coordinator - Division of Multispecialty Anesthesia

2011-2013 Associate Program Director - Adult Cardiothoracic Anesthesiology Fellowship Program

2011-2014 Module Director - Echocardiography Resident Rotation

2011-2016 Module Co-Director - Cardiothoracic Anesthesiology Resident Rotation

2011-2016 Course Director - Cardiothoracic Anesthesiology Medical Student Rotation

2013-2016, 2018-2019 Program Director - Adult Cardiothoracic Anesthesiology Fellowship Program

2015-2016 Associate Program Director - Anesthesiology Residency Program

2015-2016 Course Director - Anesthesiology Grand Rounds Conference

2016-2017 Interim Vice-Chair and Director - Division of Cardiothoracic Anesthesia

**EDITORIAL BOARD MEMBERSHIPS:**

2017-Present Editorial Board, Journal of Cardiothoracic and Vascular Anesthesia

Ad hoc reviewer for the following journals

Anesthesia & Analgesia

A&A Practice

Cardiology Research

BMJ Case Reports

American Heart Journal

Cochrane Heart (Cochrane Database of Systematic Reviews)

Journal of Pediatrics and Pediatric Medicine

**MAJOR RESEARCH INTERESTS:**

My primary scholarly interests involve the analysis of perioperative outcomes in congenital heart surgery and the development of educational programs for trainees in pediatric and congenital cardiac anesthesiology.

**TEACHING EXPERIENCE:**

Multiple division and departmental lectures and conferences given to medical students, anesthesiology residents and fellows - complete listing of teaching activities available upon request

Mentorship

*Resident Faculty Advisor*

2010-2013 Rebecca McGoldrick

2011-2015 Travis Steinke

2012-2013 Thomas Street

2012-2015 Tim Reynolds

2016-2020 Michael Carroll

2017-Present Audrey Avila

2017-Present Brandon Seaver

*Resident Senior Academic Project Mentor*

2011-2012 Benjamin Tuck

2012-2013 Calvin Ogden McGowan

2012-2013 Thomas Street

2015-2016 Craig Davis

*Fellows Trained (Adult Cardiothoracic Anesthesiology)*

2011-2012 Michael Shelton

2011-2012 Katarzyna Walosik

2012-2013 Brad Hymel

2012-2013 Benjamin Tuck

2013-2014 Robert Alexander Aitken

2013-2014 Christopher Gilbertson

2013-2014 Benjamin Sutlive

2014-2015 Bradley Coker

2014-2015 Danielle McCall

2014-2015 Uttam Shastri

2015-2016 Stephen Evans

2015-2016 Amelia Fiastro

2015-2016 Jacob Bradley Meers

2018-2019 Dylan Addis

2018-2019 Sean Dossett

2018-2019 Charles Warren

**MAJOR LECTURES AND VISITING PROFESSORSHIPS:**

See ORAL PRESENTATIONS Section

**OTHER:**

Abstract Reviewer

2016, 2019 Reviewer, Complex Case Submissions - Society of Cardiovascular Anesthesiologists Annual Meeting & Workshops (Fellow and Resident Program)

**BIBLIOGRAPHY:**

**MANUSCRIPTS:**

Manuscripts already published

1. **Townsley MM**, Chen EP, Sniecinski RM. Cleft Posterior Mitral Valve Leaflet: Identification Using Three-Dimensional Transesophageal Echocardiography. *Anesth* *Analg*. 2010 Dec;111(6):1366-8

PMID: 20889934

1. Hymel BJ, **Townsley MM**. Echocardiographic Assessment of Systolic Anterior Motion of the Mitral Valve. *Anesth Analg*. 2014 Jun;118(6):1197-201

PMID: 24842174

1. Barker AB, **Townsley MM**. Con: Prophylactic Preoperative Use of an Intra-aortic Balloon Pump is Not Indicated in High-Risk Coronary Patients Undergoing Coronary Artery Bypass Grafting. *J Cardiothorac Vasc Anesth*. 2015 Apr;29(2):534-5

PMID: 25791692

1. Thind M, Ahmed MI, Gok G, Joson M, Elsayed M, Tuck BC, **Townsley MM**, Klas B, McGiffin DC, Nanda NC. Incremental Value of Three-Dimensional Transesophageal Echocardiography over the Two-Dimensional Technique in the Assessment of a Thrombus in Transit through a Patent Foramen Ovale. *Echocardiography*. 2015 May;32(5):848-54

PMID: 25827179

1. Cerfolio RJ, Steenwyk BL, Watson C, Sparrow J, Belopolsky V, **Townsley M**, Lyerly R, Downing M, Bryant A, Gurley WQ, Henling C, Crawford J, Gayeski TE. Decreasing the Preincision Time for Pulmonary Lobectomy: The Process of Lean and Value Stream Mapping. *Ann Thorac Surg*. 2016 Mar;101(3):1110-5

PMID: 26602005

1. Kessler A, Coker B, **Townsley M**, Zaky A. Extracorporeal Membrane Oxygenator Rotational Cannula Catastrophe: A Role of Echocardiography in Rescue. *J Cardiothorac Vasc Anesth.* 2016 Jun;30(3):720-4

PMID: 26472179

1. **Townsley MM**, Timpa JG, Davies JE Jr, Marques MB. Do Institution-Level Blood Utilization and Blood Management Initiatives Meaningfully Impact Transfusion Practices in Cardiac Surgery? *Anesth Analg*. 2017 Sep;125(3):731-733

PMID: 28817529

1. Windsor J, **Townsley MM**, Briston D, Villablanca PA, Alegria JR, Ramakrishna H. Fontan Palliation for Single-Ventricle Physiology: Perioperative Management for Noncardiac Surgery and Analysis of Outcomes. *J Cardiothorac Vasc Anesth*. 2017

Dec;31(6):2296-2303

PMID: 29275964

1. **Townsley MM**. Prophylactic Intra-aortic Balloon Counterpulsation - Still Searching for Answers. *J Cardiothorac Vasc Anesth.* 2018 Oct;32(5):2074-2076

PMID: 29525198

1. Cerfolio RJ, Smood B, Ghanim A, **Townsley MM**, Downing M. Decreasing Time to Place and Teach Double-Lumen Endotracheal Intubation: Engaging Anesthesia in Lean. *Ann Thorac Surg*. 2018 Nov;106(5):1512-1518

PMID: 30048631

1. Evans AS, Weiner M, Jain A, Patel PA, Jayaraman AL, **Townsley MM**, Shah R, Gutsche JT, Renew JR, Ha B, Martin AK, Linganna R, Leong R, Bhatt HV, Garcia H, Feduska E, Shaefi S, Feinman JW, Eden C, Weiss SJ, Silvay G, Augoustides JG, Ramakrishna H.

The Year in Cardiothoracic and Vascular Anesthesia: Selected Highlights from 2018. *J Cardiothorac Vasc Anesth.* 2019 Jan;33(1):2-11

PMID: 30472017

1. Tuck BC, **Townsley MM**. Clinical Update in Pericardial Diseases. *J Cardiothorac Vasc Anesth*. 2019 Jan;33(1):184-199

PMID: 29735219

1. **Townsley MM**, Windsor J, Briston D, Alegria J, Ramakrishna H. Tetralogy of Fallot: Perioperative Management and Analysis of Outcomes. *J Cardiothorac Vasc Anesth*. 2019 Feb;33(2):556-565

PMID: 29706570

1. Crawford JH, **Townsley MM**. Steroids for Adult and Pediatric Cardiac Surgery: A Clinical Update. *J Cardiothorac Vasc Anesth*. 2019 Jul;33(7):2039-2045

PMID: 30595483

1. Evans AS, Weiner MM, Shaefi S, Patel PA, **Townsley MM**, Kumaresan A, Feinman JW, Fritz AV, Martin AK, Steinberg T, Renew JR, Gui JL, Radvansky B, Bhatt H, Subramani SS, Sharma A, Gutsche JT, Augoustides JG, Ramakrishna HR. The Year in Cardiothoracic and Vascular Anesthesia: Selected Highlights from 2019. *J Cardiothorac Vasc Anesth.* 2020 Jan;34(1):1-11

PMID: 31759862

1. Crawford JH, **Townsley MM**. Analyzing the Data for Steroids in Cardiac Surgery. *J Cardiothorac Vasc Anesth.* 2020 Jan;34(1):106-107

PMID: 31500982

1. **Townsley MM**,Crawford JH. Steroids for Pediatric Cardiac Surgery: Can We Put the Discussion to Rest? *J Cardiothorac Vasc Anesth.* 2020 Jun;34(6):1548-1549

PMID: 31837962

1. Meers JB, **Townsley MM**. Aortic Stenosis and Noncardiac Surgery in the Era of Transcatheter Aortic Valve Replacement. *J Cardiothorac Vasc Anesth.* 2020 Aug;34(8):2234-2244

PMID: 31791856

1. Addis DR, **Townsley MM**. Implications of Congenital Coronary Anomalies for the Cardiothoracic Anesthesiologist: An Overview of the 2020 American Society of Echocardiography Recommendations for Multimodality Assessment of Congenital Coronary Anomalies. *J Cardiothorac Vasc Anesth.* 2020 Sep;34(9):2291-2296

PMID: 32540244

1. Addis DR, **Townsley MM**. Imaging Considerations for the Athletically Conditioned Heart: An Echocardiography-Focused Overview of the 2020 American Society of Echocardiography Recommendations on the Use of Multimodality Cardiovascular Imaging in Young Adult Competitive Athletes. *J Cardiothorac Vasc Anesth.* 2020 Nov;34(11):2867-2870

PMID: 32711936

1. **Townsley MM**, Soh IY, Ramakrishna H. Endovascular Versus Open Aortic Reconstruction: A Comparison of Outcomes. *J Cardiothorac Vasc Anesth.* 2020 July 6. Online ahead of print

PMID: 32741610

1. **Townsley MM**. Regional Anesthesia in Pediatric Cardiac Surgery: A Road to Enhanced Recovery. *J Cardiothorac Vasc Anesth.* 2020 Aug 26. Online ahead of print

PMID: 32952001

Manuscripts in Press – none currently

Manuscripts submitted but not yet accepted

1. **Townsley MM**, Panse PM, Carlo WF, Ramakrishna H. Cardiac Magnetic Resonance Imaging for the Cardiac Anesthesiologist. Submitted to *Journal of Cardiothoracic and Vascular Anesthesia*
2. The Year in Cardiothoracic and Vascular Anesthesia: Selected Highlights from 2020. Submitted to *Journal of Cardiothoracic and Vascular Anesthesia*

Manuscripts in preparation

1. SARS-COV-2: The Cardiac Perspective (Review Article)
2. Point of Care Ultrasound for the Cardiac Anesthesiologist (Review Article). Planned submission to *Journal of Cardiothoracic and Vascular Anesthesia*

Other Publications

1. Teo EYL, **Townsley MM**, Nyman CB, Sniecinski RM. Anesthesia and Imaging for Advanced Circulatory Support. *Advances in Anesthesia* 33 (2015) 17-37

**BOOK CHAPTERS:**

1. **Townsley MM**, Martin DE. Anesthetic Management for the Surgical Treatment of Valvular Heart Disease. In: Hensley FA, Martin DE, Gravlee GP, eds. A Practical Approach to Cardiac Anesthesia. 5th edition. Philadelphia, PA: Wolters Kluwer/Lippincott, Williams & Wilkins; 2013:319-358
2. **Townsley MM**, Shelton ML. Anesthetic Considerations for Patients with Pericardial Disease. In: Hensley FA, Martin DE, Gravlee GP, eds. A Practical Approach to Cardiac Anesthesia. 5th edition. Philadelphia, PA: Wolters Kluwer/Lippincott, Williams & Wilkins; 2013:571-586
3. **Townsley MM**, Zaky A. Anesthesia for Percutaneous Mechanical Assist Devices. In: Banks D, Zaky A, eds. Everything You Need to Know: Out of the Operating Room and Minimally Invasive Cardiothoracic Procedures. 1st edition. New York, NY: Nova Science Publishers, Inc.; 2018:135-150
4. Tuck BC, **Townsley MM**. Anesthetic Management for the Surgical and Interventional Treatment of Aortic Valvular Heart Disease. In: Gravlee GP, Shaw AD, Bartels K, eds. Hensley’s Practical Approach to Cardiothoracic Anesthesia. 6th edition. Philadelphia, PA: Wolters Kluwer; 2019:312-344
5. Hull MS, **Townsley MM**. Anesthetic Considerations for Patients with Pericardial Disease. In: Gravlee GP, Shaw AD, Bartels K, eds. Hensley’s Practical Approach to Cardiothoracic Anesthesia. 6th edition. Philadelphia, PA: Wolters Kluwer; 2019:575-591

**POSTER EXHIBITS:**

1. Sutlive BJ, **Townsley MM**. Percutaneous Closure of a Left Ventricular Pseudoaneurysm. Society of Cardiovascular Anesthesiologists 36th Annual Meeting & Workshops. New Orleans, LA (April 2014)
2. Shastri UK, **Townsley MM**. Repair of Type A Aortic Dissection in a Patient with Severe Left Ventricular Dysfunction as a Bridge to Left Ventricular Assist Device. Society of Cardiovascular Anesthesiologists 37th Annual Meeting & Workshops. Washington, DC (April 2015)

**ORAL PRESENTATIONS:**

Invited workshops, etc. at national postgraduate courses and meetings and at other universities

1. Grand Rounds. Emory University Department of Anesthesiology. Atlanta, GA (April 2010): Hypertrophic Cardiomyopathy
2. Society of Cardiovascular Anesthesiologists 38th Annual Meeting & Workshops. San Diego, CA (April 2016): Problem Based Learning Discussion (Fellow and Resident Program) - Lung Transplantation
3. Society of Cardiovascular Anesthesiologists 38th Annual Meeting & Workshops. San Diego, CA (April 2016): Moderator, Complex Case Presentations (Fellow and Resident Program)
4. Society of Cardiovascular Anesthesiologists 39th Annual Meeting & Workshops. Orlando, FL (April 2017): Problem Based Learning Discussion (Fellow and Resident Program) - Ventricular Assist Device Management

Invited lectures at local and regional courses and meetings

1. Anesthesiology Grand Rounds. UAB Department of Anesthesiology and Perioperative Medicine. Birmingham, AL (August 2011): Introduction to Basic TEE
2. Anesthesiology Grand Rounds. UAB Department of Anesthesiology and Perioperative Medicine. Birmingham, AL (January 2013): Hypertrophic Cardiomyopathy
3. Anesthesiology Grand Rounds. UAB Department of Anesthesiology and Perioperative Medicine. Birmingham, AL (February 2013): Cardiac/Respiratory Board Review
4. Anesthesiology Grand Rounds. UAB Department of Anesthesiology and Perioperative Medicine. Birmingham, AL (June 2013): TEE Assessment of Systolic Function
5. 42nd Annual Anesthesiology Review Course. UAB Department of Anesthesiology and Perioperative Medicine. Birmingham, AL (April 2014): Transthoracic Echocardiography for the Anesthesiologist
6. Anesthesiology Grand Rounds. UAB Department of Anesthesiology and Perioperative Medicine. Birmingham, AL (February 2015): Echocardiography Review
7. 43rd Annual Anesthesiology Review Course. UAB Department of Anesthesiology and Perioperative Medicine. Birmingham, AL (February 2015): Transthoracic Echocardiography Workshop
8. 44th Annual Anesthesiology Review Course. UAB Department of Anesthesiology and Perioperative Medicine. Birmingham, AL (February 2016): Transthoracic Echocardiography Workshop
9. Internal Medicine Education Conference. Brookwood Baptist Health. Birmingham, AL (November 2018): Extracorporeal Membrane Oxygenation
10. Anesthesiology Grand Rounds. UAB Department of Anesthesiology and Perioperative Medicine. Birmingham, AL (November 2019): Key Concepts in Congenital Heart Disease

**MISCELLANEOUS:**

Curriculum Development

1. **Townsley MM**, “Cardiovascular System: Physiology: Venous Return: Vascular Compliance/Venous Capacitance; Controlling Factors, Muscle Action; Intrathoracic Pressure; Body Position, Blood Volume and Distribution” in START Prep Online Basic Anesthesia Curriculum, edited by LF Chu and AJ Fuller, 2013
2. **Townsley MM**, “Cardiovascular System: Physiology: Venous Return: Vascular Compliance/Venous Capacitance; Controlling Factors, Muscle Action; Intrathoracic Pressure; Body Position, Blood Volume and Distribution” in START Prep Online Basic Anesthesia Curriculum, edited by LF Chu and AJ Fuller, 2014