

FACULTY CURRICULUM VITAE

JEFFREY W. SIMMONS, MD, MSHQS, FASA
UNIVERSITY OF ALABAMA AT BIRMINGHAM SCHOOL OF MEDICINE

PERSONAL INFORMATION

Current as of April 22, 2021

Name: Jeffrey W. Simmons
Citizenship: United States

RANK/TITLE Professor

Department: Anesthesiology and Perioperative Medicine
Business Address: The University of Alabama at Birmingham
804 Jefferson Tower, 619 South 19th Street
Birmingham, AL, 35249
Phone: (205) 934-4696
Fax: (205) 996-3195
Work E-mail: jwsimmons@uabmc.edu
UAB Profile: <http://scholars.uab.edu/display/jeffro>

HOSPITAL AND OTHER (NON-ACADEMIC) APPOINTMENTS

Begin	End	Title
11-2019	Present	Vice President, UAB Health Systems. Lead Physician for Community Practices
10-2018	Present	UAB Medical and Quality Officer for Anesthesia Services
10-2017	01-2020	Co-Chair Operating Room Executive and Perioperative Oversight Committee
10-2016	Present	Medical Director, Preoperative Assessment, Consultation, and Treatment Clinics
10-2016	01-2020	Medical Director, UAB Peri-Anesthesia Care Units
10-2013	Present	Attending Anesthesiologist, UAB Medical Center
10-2014	10-2016	Director, Anesthesiology Simulation, UAB Department of Anesthesiology
10-2015	10-2016	Program Director, Maintenance of Certification in Anesthesia, UAB
06-2012	12-2012	Director, Critical Care Air Transport Missions, Ramstein AFB, Germany
06-2011	10-2013	Attending Anesthesiologist, University of Cincinnati Medical Center
06-2010	10-2011	Medical Director, Moderate Sedation, Eglin Air Force Base Hospital
11-2010	12-2010	Chief of Anesthesia, Craig Joint Theater Hospital, Bagram, Afghanistan
10-2008	10-2010	Medical Director, Anesthesia Department, Eglin Air Force Base
10-2008	10-2011	Medical Director, Critical Care Air Transport, Eglin Air Force Base
06-2006	06-2011	Anesthesiologist, Anesthesia Department, Eglin Air Force Base Hospital

EDUCATION

May 1997	Bachelor of Science Cum Laude	Samford University, Birmingham, AL
June 2002	Doctorate of Medicine	University of Alabama at Birmingham School of Medicine

MILITARY SERVICE

June 1997	Commissioned Officer and Distinguished Graduate, AFROTC, Detachment 012, Samford University	
1997-1998	USAF Active Duty, Personnel Officer, Bolling AFB, Washington, DC	
2006-2013	USAF Active Duty, Medical Corps, Major, Eglin AFB, Florida	
2008 (6 Months)	Critical Care Air Transport Team, Balad, Iraq; Ramstein AFB, Germany	
2010 (6 Months)	Chief of Anesthesia, Craig Joint Theater Hospital, Bagram, Afghanistan	
2012 (3 Months)	Critical Care Air Transport Teams Director, Ramstein AFB, Germany	

ADDITIONAL TRAINING PROGRAMS

2007	USAF Critical Care Air Transport Team Basic Course	
2007	USAF Expeditionary Medical Support Course	
2008, 2010	USAF Critical Care Air Transport Team Advanced Course	
2012	Tactical Combat Casualty Care Course	
2015	Comprehensive Instructor Course, Center for Medical Simulation	
2015	Fundamentals of Critical Care Support	
2017	Perioperative Medicine Summit	
2018	UAB Healthcare Quality and Safety Academy	
2019	UAB Healthcare Leadership Academy	

LICENSURE

State of Alabama Medical License	MD.32528	05/2013-Current
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BOARD CERTIFICATION

October 2007	Diplomat, American Board of Anesthesiology, # 3582-1652	
December 2017	Diplomat, American Board of Anesthesiology MOCA Recertified. Expires 12/31/2027	

POSTDOCTORAL TRAINING

June 2003	Transitional Internship	University of Tennessee Medical Center Knoxville, Tennessee
June 2005	Resident, Anesthesiology	University of Tennessee Medical Center Knoxville, Tennessee

June 2006	Chief Resident, Anesthesiology	University of Tennessee Medical Center Knoxville, Tennessee
April 2018	Graduate Certificate in Healthcare Quality and Safety (GCHQS)	University of Alabama Birmingham School of Health Professions
October 2018	Lean Six Sigma Greenbelt For Healthcare Certificate	Institute of Industrial and Systems Engineers CN#2388-24580
August 2019	Master of Science Healthcare Quality and Safety (MSHQS)	University of Alabama Birmingham School of Health Professions

ACADEMIC APPOINTMENTS

October 2020	Professor	Department of Anesthesiology and Perioperative Medicine, UAB
October 2015	Associate Professor	Department of Anesthesiology and Perioperative Medicine, UAB
October 2013	Assistant Professor	Department of Anesthesiology and Perioperative Medicine, UAB
December 2011	Assistant Professor	Department of Anesthesiology University of Cincinnati Medical Center Cincinnati, OH
December 2011	Air Force Instructor	United States Air Force School of Aerospace Medicine, Center for Sustainment of Trauma and Resuscitation Skills, Wright Patterson Air Force Base, OH

ACADEMIC AWARDS/HONORS

1993	Air Force ROTC Full Scholarship for Academic Achievement
1997	Cum Laude, Samford University
2016	UAB Health System Innovation Award: Enhanced Recovery After Surgery (ERAS): From Design to Implementation at UAB. Daniel I. Chu MD (Surgery) and Jeffrey W. Simmons MD (Anesthesiology). First Place.
2017	UAB Medicine Compliance, Annual Do Right Award, PACT Clinic
2019	UAB Dean's Excellence Award for Service

MILITARY AWARDS AND DECORATIONS

1997	Distinguished Graduate, Air Force ROTC, Samford University
1997	AF Training Ribbon
1998	Company Grade Officer of Quarter, Bolling Air Force Base, Washington DC
1998	Air Force Achievement Medal
1998	Small Arms Expert Marksmanship Ribbon (Rifle)

2006	National Defense Service Medal
2008	Global War on Terrorism Service Medal
2008	Air Force Overseas Ribbon Short Tour
2010	Aerial Achievement Medal
2010	Meritorious Unit Award
2010	Afghanistan Campaign Medal
2010	Air Force Overseas Ribbon Short Tour, 1 st Oak Leaf Cluster
2010	Air Force Expeditionary Service Ribbon with Gold Border
2010	NATO Medal
2012	Air Force Longevity Service

NATIONAL RECOGNITION

- 2007 Air Force Medical Service Leadership Conference, Leesburg, VA
One of two Anesthesiologists Selected by Air Force Anesthesiology Consultant to brief Air Force Surgeon General on force shaping trends at Air Force-wide symposium.
- 2008 Air Force Medical Operations Agency Top Site: Operating Room Efficiency. Air Force Smart Operations for 21st Century (AFSO21) Value Stream, Analysis. Eglin AFB, FL
Implemented processes to decrease operating room turnover times and reduce post-operative recovery times. Benchmark processes were implemented throughout Air Force Medical Service.
- 2012 Governor's Award for Outstanding Achievement in Modeling and Simulation
National Training and Simulation Association
Awarded to CSTARS Cincinnati for accomplishments in simulation utilization.
- 2015 American Society of Anesthesiology Committee Member for Patient Blood Management
- 2015 American Society of Anesthesiology Committee Member for Patient Safety and Education
- 2015 American Society of Anesthesiology endorsement of UAB Simulation Center to provide Maintenance of Certification in Anesthesiology
- 2016 SSAT Health Care Disparities Research Reward, Society for Surgery of the Alimentary Tract, "Understanding and Reducing Surgical Disparities Using Enhanced Recovery After Surgery." The research award is \$20,000 per year for two years, for a total of \$40,000.
- 2017 British Journal of Anesthesia: "Acute Traumatic Coagulopathy: Pathophysiology And Resuscitation" was downloaded 2274 times in the first two months of publication making it one of the most popular papers published in 2016, included in the Best of 2016 collection.
- 2019 Fellow of the American Society of Anesthesiology. Selected for service and continued scholarship in the field of anesthesiology.
- 2019 Selected as Faculty for American Society of Enhanced Recovery yearly conference.
- 2019 American Society of Anesthesiologists Social Media Ambassador @ASALifeLine

PROFESSIONAL SOCIETIES

Alabama State Society of Anesthesiologists
 American Society of Anesthesiology
 American Society of Enhanced Recovery
 Enhanced Recovery after Surgery Society
 Society for Education in Anesthesiology
 Society for Perioperative Assessment and Quality Improvement
 Trauma Anesthesiology Society

QUALITY IMPROVEMENT ACTIVITIES

2015	Implementation of Colorectal Surgery Enhanced Recovery after Surgery Process
2015	Implementation of GYN/ONC Enhanced Recovery after Surgery Process
2016	Creation of Fully Electronic Anesthesia Preoperative and Postoperative Orders Powerplan
2016	Implementation of Urology Cystectomy Enhanced Recovery after Surgery Process
2016	Creation and Implementation of a Perioperative Antibiotic Protocol
2017	Implementation of Multimodal Pain Medication Ordering and Day of Surgery Anesthesia Orders
2017	Development of an Online Perioperative Protocol Repository
2017	Implementation of an Inpatient Evaluation Team for Preanesthesia Evaluations
2018	Implementation of UAB Orthopedic Pain Management Program
2018	Implementation of Fully Electronic PACU Sign-Out Process
2018	Creation of Maximum Blood Ordering Schedule for UAB Perioperative Services
2018	Creation of UAB Quality Academy QI Skills Sustainment Program
2018	Implementation of Preoperative Geriatric Care Screening Process
2018	Orthopedic Surgery Perioperative Optimization
2019	Block Utilization and Operating Room Citizenship Metric Creation
2019	Creation and implementation of perioperative hyperglycemia protocol
2019	Preoperative Anemia Optimization
2019	VTE Reduction Strategy
2021	Surgical Oncology Prehabilitation Project

QUALITY AND LEADERSHIP ACADEMY PROJECTS

2018	Report and Proposal for Quality Academy Graduate Skills Sustainment Program
2019	Improving Diversity Efforts in GME Recruitment

AUTHORED UAB GUIDELINES

- Cardiac and Surgical Location Guidelines Ver 6.2, 7/23/2019
 - Guideline for Preoperative Cardiac Stent Management (Addendum 1 and 2)
 - Guideline for Surgery at UAB Hospital-Highlands (Addendum 3)
 - Guideline for Surgery at UAB Callahan Eye Hospital (Addendum 4)
 - Guideline for Low-Risk Distal Surgery at UAB Hospital-Highlands (Addendum 5)
- Management of Cardiac Implantable Electronic Devices (CIEDs) 9/8/2016

- Maximum Surgical Blood Ordering Schedule (MSBOS) Ver 3.8, 7/12/2019
- Policy on Surgery in Patients Positive for Cocaine
- Preoperative Antibiotic Guideline Ver 4.7, 7/9/2019
- Preoperative Management of Hyperkalemia & Hypokalemia 8/8/2016
- Preoperative Management of Hyponatremia & Hyponatremia 9/17/2017
- Preoperative Medication Management Ver 2.2, 5/17/2019
- Preoperative Hyperglycemia Management Ver 1.0, 9/2018
- PACT Risk Optimization for Modifiable Conditions Ver 3.1, 4/17/2019
- Inpatient Evaluation Team (IPET) Operative Readiness Checklist Ver 2.2, 7/5/2018
- Total Joint Optimization Guideline, Ver 2.0, 3/25/2019
- Preoperative Anemia Optimization Guideline, Ver 1.0, 4/2/2019
- BMP: Basic Metabolic Profile Algorithm 3/15/2019
- HbA1C: Hemoglobin A1C Algorithm Ver 1.1, 3/27/2019
- CBC: Complete Blood Count Algorithm 8/18/2016
- CMP: Comprehensive Metabolic Profile Algorithm 8/18/2016
- Coagulation Study Algorithm 8/18/2016
- ECG: Electrocardiogram Algorithm 10/25/2016
- Pregnancy Testing Algorithm 8/18/2016
- UDS: Urine Drug Screen Algorithm 8/18/2016
- Anesthesia Options
- Upper Extremity Nerve Blocks
- Femoral Nerve Blocks
- Sciatic Nerve Blocks
- Truncal Nerve Blocks
- Intrathecal Opioid Injections
- Spinal Anesthesia
- Epidural Anesthesia
- Sugammadex (Bridion®) Patient Precautions Letter
- Difficult Airway Letter
- Blood Options and Selection Guide Ver 1, 6/01/2018
- Enhanced Recovery Guidelines Ver 5.4, 5/14/2019
- Gender Reassignment Surgery Guidance Ver 1.0, 9/1/2019

COUNCILS AND COMMITTEES

Departmental

2013	Disaster Planning Task Force
2013	Operating Room Efficiency Strategic Planning committee, UAB
2014	Anesthesia Simulation Center Director Search Committee
2014	Trauma Section Curriculum Development
2014	Perioperative Echocardiography Strategic Planning Committee
2014-2015	Residency Recruitment Committee
2016-2017	Residency Selection Committee
2016-2018	Residency Clinical Competency Committee
Current	Perioperative Risk Optimization and Management Planning Tool Steering Committee
Current	Anesthesia Practice Integration and Scheduling Committee
Current	Anesthesia Clinical Practice Committee
Current	Quality and Safety Section and PROMPT Development Committee

Hospital

United States Air Force, Eglin AFB

- 2006-2011 Blood Utilization Committee
- 2006-2011 Pre-deployment Trauma Skills Verification
- 2006-2011 Physician Credentialing Committee
- 2008-2011 Director, Operating Room Efficiency Committee
- 2010 Joint Commission Inspection Planning Committee
- 2010 Blood Utilization Committee, Craig Joint Theater Hospital, Bagram, Afghanistan

The University of Alabama at Birmingham

- 2013 PACES Simulation/MOCA site strategic planning
- 2014 Curriculum and Site Planning, Interprofessional Simulation Curriculum Development, UAB Medical Center
- 2014-2015 UAB CARE: Enhanced Recovery After Surgery for Colorectal Surgery
- 2015-2020 UAB Blood Utilization Management Committee
- 2018 Malignant Hyperthermia Preparedness Committee
- 2018 Perioperative Quality Variance Committee
- 2018-2020 UAB Operating Block and Room Utilization Committee
- 2018-2020 Co-Chair Operating Room Executive Committee
- 2019 VTE Reduction Strategy Committee

National

- 2014-2015 MOCA Certification/ASA Endorsement Committee
- 2015-2018 American Society of Anesthesiologists, Committee on Patient Blood Management
- 2015-2018 American Society of Anesthesiologists, Committee on Patient Safety and Education
- 20019-2022 American Society of Anesthesiologists, Committee on Geriatric Anesthesia

EDUCATIONAL ACTIVITIES

- 2006-2011 Anesthesia Department Clinical Case Review, Quality Improvement
Eglin AFB Regional Hospital
- 2006-2011 Moderate Sedation for Non-Anesthesia Personnel Education
Eglin AFB Regional Hospital
- 2006-2011 Anesthesia and Trauma Readiness Skill Updates
Eglin Anesthesia Department
- 2006-2011 Emergency airway management and intubation skills workshop for Emergency
Medical Technicians, Eglin AFB, FL
- 2011-2013 The United States Air Force Critical Care Air Transport Advanced Course
Center for Sustainment of Trauma and Resuscitation Skills
Objective: Train and certify military providers for deployment
Audience: In-residence students selected from across the Air Force
Staff physicians – Anesthesiology, Emergency Medicine, Cardiology, Critical Care
Medicine, General Surgery.
Clinical case conference: multiple 3-4 hour sessions
Human patient simulation (20 students per class).
Live flight patient simulation –4-hour C-130 flight with patient care

- 2013 UAB Trauma Section Presentation: The Air Force Experience
- 2013-Present Resident simulation creation and crisis resource management training, UAB Department of Anesthesiology and Perioperative Medicine
- 2014 42nd Annual Review Course Simulation Workshop Co-Director, UAB Department of Anesthesiology, and Perioperative Medicine
- 2014-2015 Resident Mock Oral Examiner
- 2015 43rd Annual Review Course Simulation Workshop Director, UAB Department of Anesthesiology
- 2015 Enhanced Recover After Surgery Presentations to Department of Anesthesiology Faculty, Residents, Nurse Anesthetists, Pre-Anesthesia Clinic Staff, and Perioperative Nurses.
- 2016 Damage Control Resuscitation Triggers, Presentation to Special Operation Surgical Squadron, United States Air Force
- 2016 Enhanced Recovery, Presentation to Perioperative Nursing Group, UAB Medical Center
- 2016, 2017 Central Venous Line Workshop Instructor for New Anesthesia Residents in compliance with UAB mandate
- 2013-Present UAB Department of Anesthesiology Resident Lectures
- PACU Lecture: End Points of Resuscitation
 - PACU Lecture: CVP vs. Pulse Pressure Variation
 - Trauma Morning Report: Trauma-Induced Coagulopathy
 - Resident Keyword: CO2 Dissociation Curve
 - CA1 Basics Anesthesiology: Renal Physiology
 - Preoperative Assessment of Myasthenia Gravis
 - Trauma Morning Report: Anesthetic Management of the Septic Patient
 - Trauma Morning Report: Echocardiography in Trauma
 - Trauma Morning Report: Trauma Jeopardy
 - Simulation Center Debriefings
 - Preoperative Assessment and Treatment Clinic Lecture Series
 - CA 1 Boot Camp for Peri-Induction Complications
 - Trauma Morning Report: Abdominal Trauma Management
 - Trauma Morning Report: Massive Transfusion Triggers
 - Anesthetic Management of Patient with Sepsis
- 2016 Maintenance of Certification in Anesthesiology High Fidelity Simulation. Examiner for MOCA Part IV Recertification Process, UAB Office of Interprofessional Simulation.

- 2017-2018 UAB CA-1 Bootcamp for New Anesthesia Residents
- 2016-2019 Instructor for Maintenance of Certification in Anesthesiology: Part IV Simulation
- 2019 UAB MedCast on Preoperative Optimization of the Surgical Patient @UABMedicine

GRAND ROUNDS AND VISITING PROFESSORSHIPS

- 2006 Grand Rounds: Terrorism, Anesthetic Concerns Post Attack. Presented at the University of Tennessee Medical Center, Department of Anesthesiology
- 2012 Grand Rounds: Air Force Critical Care Air Transportation. Presented at the University of Cincinnati Medical Center, Department of Anesthesiology
- 2014 Grand Rounds: Damage Control Resuscitation. Presented at UAB Medicine, Department of Anesthesiology and Perioperative Medicine
- 2016 Enhanced Recovery After Surgery for Major GYN Procedures. Presented at the UAB Medicine, Department of Obstetrics and Gynecology
- 2019 Grand Rounds: Perioperative Blood Management. Presented at the University of Kentucky, Department of Anesthesiology and Perioperative Medicine
- 2019 Grand Rounds: Perioperative Blood Management. Presented at Vanderbilt University, Department of Anesthesiology and Perioperative Medicine
- 2019 Grand Rounds: Precision Optimization in Surgery. Presented at UAB, Department of Anesthesiology and Perioperative Medicine
- 2019 Grand Rounds: Preoperative Optimization. Presented at UAB Medicine. Department of Oral & Maxillofacial
- 2021 Grand Rounds: The UAB PACT: Efforts to Move From Assessment to Optimization Presented at UAB Department of Surgery
- 2021 Invited Lecture: The UAB PACT: Efforts to Move From Assessment to Optimization Presented to Cardiovascular Institute Quality Council
- 2021 Grand Rounds: Cleared vs. Optimized For Surgery? Partnering for Optimization. Presented UAB Department of Cardiology

NATIONAL CONFERENCE LECTURES

- 2016 Benefits of Medical Simulation. Kool-Ade anyone? University of Alabama at Birmingham Department of Anesthesiology, 44th Annual Review Course
- 2016 Enhanced Recovery After Surgery-Implementing Meaningful Change. Anesthesia

And Perioperative Medicine Conference, Vail, CO

- 2016 American Society of Anesthesiology Annual Meeting
- *Clinical Forum*: "Challenges in Implementation of the Perioperative Surgical Home" Perioperative Medicine track. Saturday, Oct 22, 2016
 - *120-Minute Panel*: "Attacking the Ooze! How, Why, and When to Treat the Coagulopathic Patient" Fundamentals of Anesthesiology track. Sunday, Oct 23, 2016
 - *Seminar*: "High Fidelity Simulation: Training for Crisis or Playing With Plastic?" Fundamentals of Anesthesiology track. Monday, Oct 24, 2016
- 2016 Post Graduate Assembly, New York State Society of Anesthesiologists, Acute Traumatic Coagulopathy: Physiology and Transfusion Strategies. December 12, 2016
- 2017 Enhanced Recovery after GYN/ONC Surgery, University of Alabama at Birmingham Department of OB/GYN Review Course, Bruce Harris Symposium, February 9, 2017
- 2019 Perioperative Anemia Management. 2019 Annual Congress of Enhanced Recovery and Perioperative Medicine. Washington, DC. April 26, 2019.
- 2019 Perioperative Blood Management and Optimization. Presented for Penn Medicine. ERAS Improvement Collaborative. University of Pennsylvania Health System. August 30, 2019
- 2020 Perioperative Anemia Management Updates. 2020 Annual Congress of Enhanced Recovery and Perioperative Medicine. Baltimore, MD. April 15, 2020.
- Preoperative Non-Cardiac Testing: What Else Should be Assessed and Optimized? 2020 Annual Congress of Enhanced Recovery and Perioperative Medicine. Baltimore, MD. April 16, 2020.
- How do I Start a Preop Optimization Clinic: Opportunity Assessment and First Steps? 2020 Annual Congress of Enhanced Recovery and Perioperative Medicine. Baltimore, MD. April 17, 2020.
- 2020 American Society of Anesthesiology Annual Meeting. Snap-Talk: Preoperative Optimization: Small Things You Can Do to Make a Big Difference. October 2, 2020. (Excluded due to space limitations in the virtual format-COVID19)
- 2021 How do I Start a Preop Optimization Clinic: Opportunity Assessment and First Steps? 2021 Spring Virtual Meeting. Annual Congress of Enhanced Recovery and Perioperative Medicine.

EDITORIAL BOARD MEMBERSHIPS

- 2014 Trauma Anesthesia Society Publications and Research Board
- 2015-2016 Current Anesthesiology Reports, Trauma Section Editor
- 2016-Present Anesthesia and Analgesia, Reviewer

MAJOR RESEARCH AND CLINICAL INTERESTS

Trauma-induced coagulopathy: early identification using viscoelastic measurements and hemodynamic trigger points. (Manuscript published)

Massive hemorrhage in trauma population: developing and implementing protocols for damage control resuscitation and the efficient and timely use of blood products. (Manuscript published)

Simulation in residency education: developing crisis management plans and objective measurement tools to benchmark resident milestones. (National conference presentation)

Enhanced Recovery and Multimodal Analgesia: Reducing the burden of opiate analgesia to improve PONV, bowel recovery, and shorter PACU stays. (Manuscript published)

MENTORSHIP

2014	Resident: Emily Johnson. Senior Project: Simulation
2014	Resident: Jonathan G. Kentros, Faculty Mentor
2014	Resident: John C. Briggs, Faculty Mentor
2014	Resident: Clayton Barhorst, Resident Mentored Research Education Project-Simulation
2015	Resident: Eric Michael Lee, Faculty Mentor Resident: Trey Williams, Senior Project Mentor Resident: Jacob Mills, Resident Mentored Research Education Project-ERAS
2015	Assistant Professor, William Potter, Implementation of Enhanced Recovery After Surgery Pathways-Urology Cystectomy
2016	Assistant Professor, Tekuila Carter, Anesthesiology Simulation
2016	Assistant Professor, Prentiss Lawson, Implementation of Enhanced Recovery After Surgery Pathways-GYN Hysterectomy
2017	Assistant Professor, George Dumas, Creation of Perioperative Pathway for Geriatric Patients
2019	Assistant Professor, Matt Sherrer, Creation of Perioperative Pathway for Bariatric Surgery Patients

MANUSCRIPTS PUBLISHED OR IN PRESS

1. Carroll, RR, Chavez, JJ, **Simmons JW**, Wortham DC, Bresee SJ, Cohen E. Measurement of patients' bivalirudin plasma levels by a thrombelastograph ecarin clotting time assay: a comparison to a standard activated clotting time. *Anesthesia and Analgesia*. May 2006; 102(5): 1316-1319.
2. **Simmons JW**, Pittet JF, Pierce B. Trauma-Induced Coagulopathy. *Current Anesthesiology Reports*. September 2014; 4(3): 189-199
3. **Simmons JW**, Pittet JF. The Coagulopathy of Acute Sepsis. *Current Opinions in Anesthesiology*. April 2015; 28(2): 227-36. <https://www.altmetric.com/details/3787515>
4. **Simmons JW**, Sikorski B, Pittet JF. Tranexamic Acid: From Trauma to Routine Perioperative Use. *Current Opinions in Anesthesiology*. April 2015; 28(2): 191-200. <https://www.altmetric.com/details/3756701>

5. **Simmons JW**, JF Pittet. Revealing the Real Risk of Perioperative Transfusion: Rise of the Machines. *Anesthesiology*. Jan 2015; 122(1): 1-2.
6. Conti B, Villacin MK, **Simmons JW**. Trauma Anesthesia for Traumatic Brain Injury. *Current Anesthesiology Reports* 2016; 6: 95-101 <https://www.altmetric.com/details/7129269>
7. **Simmons JW**, Shapiro FE. Crisis in Remote Areas is Not a Remote Problem. In-situ Crisis Management Training for Procedures outside the Operating Room. *ASA Monitor*. Vol 80. Schaumburg, IL: American Society of Anesthesiologists, INC.; 2016.
8. **Simmons JW**, Powell MF. Acute traumatic coagulopathy: pathophysiology and resuscitation. *Br J Anaesth*. 2016; 117(suppl 3): iii31-iii43. <https://www.altmetric.com/details/15850180>
9. Paiste, J., **Simmons JW**, Vetter TR. Enhanced Recovery after Surgery (ERAS) in the Setting of the Perioperative Surgical Home (PSH). *International Anesthesiology Clinics*. 55(4):135-147, Fall 2017.
10. Wahl TS, Goss LE, Morris MS, Gullick AA, Richman JS, Kennedy GD, Cannon JA, Vickers SM, Knight SJ, **Simmons JW**, Chu DI. Enhanced recovery after surgery (ERAS) eliminates racial disparities in postoperative length of stay after colorectal surgery. *Annals of surgery*. 2018 Dec 1; 268(6):1026-35. <https://www.altmetric.com/details/20925858>
11. Ifeanyi-Pillette IC, **Simmons JW**, Okanlawon OJ, Udoji MA. Lost in Translation: Linking Safety and Value to Better Physician-Patient Communication. *ASA Monitor*. Vol 82, Number 5, Schaumburg, IL: American Society of Anesthesiologists, INC; May 2018.
12. Goss LE, Morris MS, Richman JS, Cannon JA, Kennedy GD, **Simmons JW**, Knight SJ, Chu DI. Achieving health equity in surgery through enhanced recovery after surgery (ERAS): The elimination of racial disparities in post-operative length-of-stay is sustained long-term. *Clinical Nutrition ESPEN*. 2018 Jun 30; 25:178-9.
13. **Simmons, JW**. Preoperative Intravenous Iron to Enhance a Blood Management Program: Is It All in "Vein"? *Anesthesia & Analgesia* 127.5 (2018): 1101-1103. <https://www.altmetric.com/details/50126796>
14. **Simmons JW**, Dobyys J, Paiste. Enhanced Recovery After Surgery: Intraoperative Fluid Management Strategies. *The Surgical clinics of North America* 98.6 (2018): 1185. <https://www.altmetric.com/details/51823486>
15. Harbell MW, Donnelly M, Rastogi R, **Simmons JW**. Impacting the Next Generation: Teaching Quality and Patient Safety. *International Anesthesiology Clinics*. 2019 Jul 1; 57(3):146-57. <https://www.altmetric.com/details/62454902>
16. Boudreaux AM, **Simmons JW**. Prehabilitation and Optimization of Modifiable Patient Risk Factors: The Importance of Effective Preoperative Evaluation to Improve Surgical Outcomes. *AORN journal*. 2019 Apr; 109(4):500. <https://www.altmetric.com/details/59197796>
17. **Simmons JW**. Moving Forward: Cautiously Resuming Elective Cases in a Covid-19 World. *Society for Perioperative Assessment and Quality Improvement Newsletter*, Vol. 14, No. 2, Page 19-22. <https://www.spaqi.org/newsletters/2020-Summer-Newsletter/>
18. Witcher A, Axley J, Novak Z, Laygo-Prickett M, Guthrie M, Xhaja A, Chu DI, Brokus SD, Spangler EL, Passman MA, McGinigle KL, **Simmons JW**, Beck AW. Implementation of an Enhanced Recovery Program for Lower Extremity Bypass. *Journal of Vascular Surgery*. 2020 Jul 16.

19. Sherrer M, **Simmons JW**, Dobyns J. Preoperative Risk Stratification Tools: Identifying Modifiable Risks for Optimization. *Current Anesthesiology Reports*. Volume 3. 2021 September.

Submitted: Nanavati HD, Dillon C, **Simmons JW**, Williams III LA, Brown TM, Beasley MT, Limdi NA. Management of Direct Oral Anticoagulant Related Major Bleeds. 2019 Oct 11 to Pharmacotherapy.

BOOK CHAPTERS

Simmons JW and Murray MJ. Moderate Sedation. *Faust's Anesthesiology Review*. Fourth edition. Ed. Philadelphia, PA: Elsevier Saunders; 2014.

Simmons JW and Dobyns J. Anesthesiology for the Non-Anesthesiologist. *Decision Making in Perioperative Patient Care: Clinical Pearls*. New York, NY: McGraw Hill; 2020.

Simmons JW and Sahai S. Enhanced Recovery After Surgery. *Decision Making in Perioperative Patient Care: Clinical Pearls*. New York, NY: McGraw Hill; 2020

POSTER EXHIBITS

1. **Jeff Simmons**, Robert Craft. Integrating ACGME Competencies: A Novel Approach Undertaken in the Preoperative Assessment Clinic. *Poster Presentation*. Society for Education in Anesthesiology, June 3-5, 2005, Washington, D.C.
2. **Jeff Simmons**, Jack Chavez. Modified Thrombelastography for Measuring Platelet Reactivity Preoperatively in Cardiopulmonary Bypass Patients. *Poster Presentation*. Society of Cardiovascular Anesthesiology, 27th Annual Meeting, May 2005, Baltimore, MD.
3. Tyler Wahl, Jacob Mills, Jamie Cannon, Melanie Morris, **Jeff Simmons**, Dan Chu. Enhanced Recovery After Surgery Reduces Disparities in Length-of-Stay for Colorectal Patients. *Abstract and Poster Presentation*. 11th Annual Academic Surgical Congress, February 3, 2016, Jacksonville, FL.
4. Lauren E. Goss MSPH, Melanie S. Morris MD, Joshua S. Richman MD Ph.D., Jamie A. Cannon MD, Gregory D. Kennedy MD Ph.D., **Jeffrey W. Simmons MD**, Sara J. Knight Ph.D., Daniel I. Chu. Achieving Health Equity in Surgery through Enhanced Recovery after Surgery (ERAS): The Elimination of Racial Disparities in Post-Operative Length-of-Stay is Sustained Long-Term. *Abstract and Poster Presentation*. 6th World Congress of Enhanced Recovery after Surgery. May 24, 2018. Stockholm, Sweden.
5. Oral anticoagulant and Antiplatelet therapy Related Bleeds. Hely Nanavati, Chrisly Dillon, Anna Price, Charles Rivers, Todd M. Brown, Lance A. Williams, III., **Jeffrey Simmons**, Nita A. Limdi Department of Epidemiology, Neurology, Medicine, Pathology and Anesthesiology Internship Dates: May 07, 2018 to August 03, 2018
6. The Incorporation of the Six Item Cognitive Screening Measures in the Anesthesia Preoperative Assessment, Consultation, and Treatment Clinic. Jeffrey Dobyns, DO, MSHQ, **Jeffrey Simmons, MD, MSHQ**, Daniel Sherrer, MD, Dale Parks, PhD, Joshua Hagood, David Benz, Amandiy Liwo, MD, MSPH. March 11, 2020. 15th Annual Perioperative Medicine Summit, Orlando, FL.

MEDICAL AND ANESTHESIA SIMULATIONS

1. **Simmons, JW**. Carter, T. *Oxygen Contamination to the Operating Room and Anesthesia Machine*. UAB Maintenance of Certification in Anesthesiology (MOCA). Created 9/30/2014.

2. **Simmons, JW.** Carter, T. *Unresponsive Patient in the Post Anesthesia Recovery Unit.* UAB Maintenance of Certification in Anesthesiology (MOCA). Created 8/31/2014
3. **Simmons, JW.** Carter, T. *Trocar Mishap during Laparoscopy/Major Bleeding in the Jehovah's Witness Patient.* UAB Maintenance of Certification in Anesthesiology (MOCA). Created 4/17/2014
4. **Simmons, JW.** Carter, T. *Atypical Presentation of Malignant Hyperthermia: Delayed Presentation in the PACU.* UAB Maintenance of Certification in Anesthesiology (MOCA). Created 8/31/2014
5. **Simmons, JW.** Carter, T. *Bronchospasm in the Morbidly Obese Patient.* UAB Maintenance of Certification in Anesthesiology (MOCA). Created 3/10/2017
6. **Simmons, JW.** Carter, T. *Pulmonary Embolism in the Obstetric Patient Having General Surgery.* UAB Maintenance of Certification in Anesthesiology (MOCA). Created 9/9/2014
7. **Simmons, JW.** Carter, T. *Local Anesthetic Toxicity during Paracervical Nerve Block and Monitored Anesthesia Care.* UAB Maintenance of Certification in Anesthesiology (MOCA). Created 9/30/2014
8. **Simmons, JW.** Carter, T. *Managing Disrespectful Conversations by OR Staff.* Add on or component module.
9. **Simmons, JW.** Hunter, J., Carter, T. *Cardiac Tamponade after Central Line Insertion aka The Hickman from Hell.* UAB Maintenance of Certification in Anesthesiology (MOCA). Created 10/5/2011
10. **Simmons, JW.** Carter, T. *Patient Abuse.* Add on or component module.

RESEARCH

Enhanced Recovery After Surgery Reduces Disparities in Length-of-Stay for Colorectal Patients. Abstract submitted to AAS Academic Surgical Congress 2015.

Resident Mentored Research Education Project: Enhanced Recovery After Surgery Reduces Total Perioperative Opioid Consumption in Elective Colorectal Surgery Patients. Presented to UAB Department of Anesthesiology, June 2016.

Resident Mentored Research Education Project: High Spinal Anesthetic In Ambulatory Pain Clinic. Simulation developed to train staff in crisis management in remote locations. Presented to UAB Department of Anesthesiology, June 2016.

Local Clinical Investigator, Regional vs. General Anesthesia for Promoting Independence after Hip Fracture Surgery (REGAIN) clinical research trial to determine whether one type of standard care anesthesia given to patients undergoing surgery for a hip fracture leads to better outcomes in the recovery of walking, overall health and disability, pain, and survival.

Frailty, Elder Care, and best practices in Geriatric perioperative care. Cognitive Impairment. McKnight Brain Research Foundation. Primary Investigator Roy Martin, MD. Co-Investigator Jeff Simmons MD.

Personalization of Anticoagulation Reversal. IRB 300001660. Primary Investigator Nita A. Limdi, Pharm.D, Ph.D. Co-Investigator Jeff Simmons MD.

Preoperative Evaluation of High-Risk Patients Prior to Spine Surgery: An Assessment of Perioperative Timing Metrics. IRB 300001996. Primary Investigator Steven Theiss, MD. Co-Investigator Jeff Simmons MD.

Patient Experience With Preoperative Cardiac Testing. IRB 300001696. Primary Investigator Kevin Riggs, MD. Co-Investigator Jeff Simmons MD.

Systemic Lidocaine Infusion or Quadratus Lumborum Block, in Addition to Intrathecal Morphine, versus Intrathecal Morphine alone as part of a Gynecology-Oncology Surgery Early Recovery Protocol. IRB-300001590. Approval April 9, 2019. Sub-investigator Jeff Simmons MD.

Outpatient Minimally Invasive Hemicolectomy. IRB-300002694. Approved June 13, 2019. Sub-investigator Jeff Simmons MD/

Presurgery Cognitive Status as a Predictor of Post-Operative Delirium in Older Adults Undergoing Elective Surgery. IRB-300003175. Approved June 25, 2020. Sub-investigator Jeff Simmons MD.

GRANTS AND AWARDS

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| November 2015 | Standardized Patient Center Re-Boot for 21 st Century Health Professional Students. \$368,326, submitted July 2015-Accepted |
| July 2016 | Society for Surgery of the Alimentary Tract Health Care Disparities Research Reward, "Understanding and Reducing Surgical Disparities Using Enhanced Recovery After Surgery (ERAS)." The research award is \$20,000 per year for two years, for a total of \$40,000. Support will begin on July 1, 2016. |
| 2018-2020 | Improving surgical outcomes and experience with patient-centered technology. Sponsor: UAB Health Services Foundation (HSF) General Endowment Fund. Direct Cost: \$210,000. Role: Co-Investigator. In this study, we will integrate patient-centered technology into four major surgical service lines (colorectal, cardiac, thoracic and gynecology oncology) and analyze its impact on surgical outcomes and patient experiences. We will further conduct cost-benefit analyses to demonstrate the long-term benefits of using such technology. |