

**Curriculum Vitae
University of Alabama at Birmingham
School of Medicine Faculty**

Date: May 30, 2020

PERSONAL INFORMATION

Name: **Keith Michael Wille, MD, MSPH**
Citizenship: United States of America
Foreign Language(s): None
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RANK/TITLE

Department: Professor of Medicine
Division of Pulmonary, Allergy, and Critical Care Medicine
Department of Medicine

Business Address: Lyons Harrison Research Building (LHRB) 412
1530 3rd Ave South
University of Alabama at Birmingham
Birmingham, AL 35294-0006

Campus Location: 1530 3rd Ave. South
LHRB 412

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HOSPITAL AND OTHER (NON ACADEMIC) APPOINTMENTS

Hospital Privileges:

Effective Date	Institution
Jul 1, 2000	University Hospital
Jul 1, 2000	Cooper Green
Aug 3, 2000	Birmingham VA Medical Center

Professional Consultantships:

2000 - 2006 Alabama Health Care

Other Appointments:

Local:

UAB Residency Selection Committee (Internal Medicine)	2001 - 2019
Alabama Respiratory Update Steering Committee	2001 - 2007
Education Committee - Pulmonary Fellowship Training Program	2002 - Present
Medical Director, Pulmonary Thromboendarterectomy Program	Jan 2004 – Present
UAB Organ Donation Task Force	Dec 2005 – Dec 2015
Medical Director, Lung Transplant Program	Apr 2004 – Feb 2013 May 2016 – Sep 2016 Nov 2019 – Dec 2020
Medical Director, Respiratory Therapy (UAB)	Nov 2006 – Present

Recognized as a Best Respiratory Care Department for 2012 and 2013 by *Respiratory Therapy* magazine

UAB Pulmonary, Allergy, and Critical Care Medicine Jan 2008 – Present
Clinical Research Committee

Associate Program Director for Curriculum Development Sep 2009 – Jun 2013
And Education

UAB Ethics Oversight Committee Nov 2012 - Present

UAB Provider Integration Network Aug 2013 - Present

UAB Utilization Management Committee, Ad-hoc member Jan 2014 – Present

Medical Director, Advanced Lung Diseases (ALD) Program Feb 2013 – Present
Responsibilities include protocol development and review, curriculum development and educational activities for fellows and nursing providers, and review of clinical outcomes.

Medical Director, Adult ECMO and ALD Program May 2016 – Present
Program Received the Gold Level Extracorporeal Life Support Organization (ELSO) Award for Excellence in Life Support, Jul 2016, with Drs. Charles Hoopes, S. Chris Bellot, and Enrique Diaz-Guzman.

Committee Member, Blood Utilization Management Committee Jul 2019 – Present

Senior Scientist, UAB Center for Clinical and Translational Science Apr 2020 - Present

National:

American Thoracic Society, Alabama ATS Chapter (President) 2005 – Present

Member, Council of Governors (Alabama), American College of Chest Physicians (ACCP) Nov 2006 – Oct 2010
(ACCP Governors play an important role in leadership through recruitment of new members, approval of member applicants, proposals for educational programs, and in health care advocacy at local and national levels).

Faculty of 1000, Contributor Aug 2008 - Present

United Network for Organ Sharing (UNOS) Lung Review Board Jul 2011 - Jun 2013
Chair, Lung Review Board (UNOS) Jul 2013 – Aug 2014

UNOS Membership and Professional Standards Committee Jul 2014 – Jul 2016
Member at Large

UNOS Organ Perfusion and Membership Standards Workgroup Jul 2014 – Jul 2016

UNOS Performance Analysis & Improvement Subcommittee Jul 2014 – Jul 2016

ACCP Steering Committee Member

Transplant Network Nov 2012 – Oct 2016

Critical Care Network Nov 2012 – Oct 2016

Member, ACCP Scientific Programs and Awards Committee Oct 2015 – Oct 2018

UNOS Region 3 Associate Councilor Jul 2018 – Jun 2020

UNOS Region 3 Councilor Jul 2020 – Jun 2022

Member, UNOS Board of Directors Jul 2020 – Jun 2022

EDUCATION

Year	Degree	Institution
Aug 1985-May 1989	B.S. Biological Chemistry	Tulane University, New Orleans, LA
Aug 1990-May 1994	M.D.	Louisiana State University, New Orleans, LA
Aug 2009 –Dec 2011	M.S.P.H.	University of Alabama at Birmingham School of Public Health (Clinical and Translational Science, Epidemiology), Birmingham, AL
Jan – Apr 2018	Graduate Certificate	Healthcare Quality and Safety

Aug 2018 – Present

University of Alabama at Birmingham
UAB School of Health Professions, Master's
Degree Program, Healthcare Quality and Safety

MILITARY SERVICE: None

LICENSURE

	Year	Number
Medical Licensure State of Alabama	6/30/95 - Present	# 19147
Medical Licensure State of Louisiana	7/01/95 - Present	# 22184
DEA	5/12/98 - Present	# BW 4569539
Advanced Cardiac Life Support	Sep 2012 - Present	
Advanced Trauma Life Support	Feb 1996	

BOARD CERTIFICATION

	Year	Certificate
Internal Medicine	1997 - 12/31/2007	#176043
	2007 - 12/31/2018	Recertified
Internal Medicine-Pulmonary Disease	1999 - 12/31/2009	#176043
	2009 - 12/31/2019	Recertified
	2019 – 12/31/2029	Recertified
Internal Medicine-Critical Care	2000 - 12/31/2010	#176043
	2010 - 12/31/2020	Recertified
Diplomate, American Board Sleep Medicine	4/8/2002	#1938
UNOS Credentialed Transplant Pulmonologist	Jan 2004 - Present	

POSTDOCTORAL TRAINING

Year	Degree	Institution
Jul 1994 - Jun 1995	Intern/Internal Medicine	University of Alabama at Birmingham, Birmingham, AL
Jul 1995 - Jun 1997	Resident/Internal Medicine	University of Alabama at Birmingham, Birmingham, AL
Jul 1997 - Jun 2000	Fellow/Pulmonary, Allergy and Critical Care Medicine	University of Alabama at Birmingham, Birmingham, AL
Aug 1999 -Aug 2000	Sleep Disorders Medicine	University of Alabama at Birmingham, Birmingham, AL
Sep 2000 - Jun 2002	UAB Clinical Research Training Program	(NIH K-30 Grant Awardee)
Jun 18-21, 2014	Extracorporeal Life Support (ELSO)	Adult ECMO Training Course Iowa City, IA

ACADEMIC APPOINTMENTS

Oct 1, 2017	Professor of Medicine	University of Alabama at Birmingham Birmingham, AL
Oct 1, 2011	Award of Tenure	University of Alabama at Birmingham

Birmingham, AL

Oct 2009 – Sep 2017	Associate Professor of Medicine	University of Alabama at Birmingham Division of Pulmonary, Allergy, And Critical Care Medicine
Apr 2002 – Sep 2009	Assistant Professor of Medicine	University of Alabama at Birmingham Division of Pulmonary, Allergy, and Critical Care Medicine
Jul 2000 - Mar 2002	Instructor of Medicine	University of Alabama at Birmingham

AWARDS/HONORS

May 1989	Phi Beta Kappa, Tulane University
May 1989	Summa Cum Laude with Departmental Honors, Tulane University
Nov 1993	Alpha Omega Alpha, Louisiana State University, New Orleans, LA
Mar 2000	Honorable Mention, UAB Trainee Symposium Poster Competition, University of Alabama at Birmingham
Nov 2001	Leadership Development Program, American College of Chest Physicians
June 2009	The Glenn Cobbs-Edwin Rutsky Award for Clinical Excellence, University of Alabama at Birmingham (Department of Medicine)
2008-2009	Jack Durand Fulmer Award for Excellence in Teaching, Pulmonary Fellowship Program, University of Alabama at Birmingham
2010	Education Excellence Award, University of Alabama at Birmingham (Department of Medicine)
2009-Present	Selected to Best Doctors in America®
2013-Present	Castle Connolly Top Doctors
2016	Unsung Hero Award, UAB Department of Medicine (Pulmonary Division)
2017-Present	Recognized as a Distinguished CHEST Educator – for maintaining a large volume of high quality CHEST education delivery and design, and participation in faculty development programs, over the past 3 years

PROFESSIONAL SOCIETIES

1997 – 2002	American College of Chest Physicians, Affiliate Member
2002 – Present	American College of Chest Physicians, Fellow
Nov 2006 – Oct 2010	American College of Chest Physicians, Member, Council of Governors (Alabama),
1998 - Present	American Thoracic Society (ATS) - Member
2003 – 2005	ATS, Alabama Thoracic Society (Vice-President)
2005 - Present	ATS, Alabama Thoracic Society (President)
2002 - Present	International Society of Heart and Lung Transplantation
2016 - Present	Extracorporeal Life Support Organization, Member

UNIVERSITY ACTIVITIES

Development of Impact Order Set (Care of the Thromboendarterectomy Patient)
Review and Update of Protocols for the Care of the Lung Transplant Recipient
Protocol Review and Update of Protocols for Respiratory Therapy

Apr 2009 – Present	Member, Antibiotic Stewardship Committee
Nov 2012	Establishment of Transplant Pulmonology Rotation for Fellows at University of South Alabama (via Program Letter of Agreement) and curriculum design and development
Mar 2013 – Present	Member, UAB ECMO Executive Committee
May 2016 - Present	Chair This committee develops and reviews protocols, and evaluates outcomes and quality of care related to delivery of extracorporeal life support.
Mar 2018 – Present	UAB Pulmonary Embolism Response Team (PERT) Consultant

EDITORIAL BOARD MEMBERSHIPS:

Ad Hoc Reviewer:

2001 - Present	<i>CHEST</i>
2003 - Present	<i>Journal of Heart and Lung Transplantation</i>
2006 - Present	<i>American Journal of Hematology</i>
2009 - Present	<i>American Journal of Transplantation</i>
2014 - Present	<i>Lung</i>
2014 - Present	<i>Annals of the American Thoracic Society</i>
2015 - Present	<i>Transplant International</i>
2015 - Present	<i>British Medical Journal – Best Practice</i>
2015 - Present	<i>Journal of Chronic Obstructive Pulmonary Disease</i>
2015 - Present	<i>Transplantation</i>
2017 – Present	<i>European Respiratory Journal</i>
2017 – Present	<i>Annals of Internal Medicine</i>

Advisory Board Member/Editorial Staff

Jan 2007 - Dec 2009 *Chest Physician*

MAJOR RESEARCH and CLINICAL INTERESTS

My current primary research interests are centered on lung transplantation and extracorporeal life support technologies. In lung transplantation, my interests are to optimize donor lung allocation in the United States so that transplant rates may increase and wait-list mortality may improve and to analyze and improve clinical outcomes after lung transplantation. In extracorporeal life support (ECLS), my interests are in optimizing delivery of care for patients.

Venous Thromboembolism:

Comparison of Helical Chest Computed Tomography and Lung Ventilation Perfusion Scanning in the Initial Evaluation of Patients with Suspected Pulmonary Embolism. Sponsor: Institutional Funds. Co-Investigator with Mitchell Olman, 1999-2001.

A Double-Blind Placebo-Controlled, Parallel Multicenter Study on Extended VTE Prophylaxis in Acutely Ill Medical Patients with Prolonged Immobilization,” Study Protocol XRP4563C/3501, Sub-Investigator with James Johnson, 2002.

Development of the UAB Pulmonary Thromboendarterectomy Clinic for Care of Patients with Chronic Thromboembolic Pulmonary Hypertension, Co-Investigator with David McGiffin, 2004-

present. As of December 2008, approximately 50 patients have been evaluated at UAB and 11 have recovered successfully after endarterectomy surgery.

Clinical Intensive Care Trials (ARDS / Sepsis) and ICU-related Acute Renal Failure:

A Phase II Multicenter, Randomized, Double Blind, Placebo-Controlled, Parallel Group, Dose Ranging Evaluation of the Safety and Efficacy of α -hANP Infusion (Carperitide for Injection: SUN 4936) in patients with Acute Respiratory Distress Syndrome (ARDS). Sponsor: Suntory Pharmaceutical, Inc. Sub-Investigator with John Kennedy, 2001-2002.

An Open-Label Study of Recombinant Human Activated Protein C in Severe Sepsis: A Phase 3b Clinical Trial (LY203638). Sponsor: Lilly. Sub-Investigator with John Kennedy, 2002.

Multi-Center Clinical Trial of the Bard Silver-Coated Endotracheal Tube to Reduce Ventilator Associated Pneumonia, protocol # 5003A. Sponsor: Bard Medical Division. Sub-Investigator with James Johnson, 2003-2006.

A Phase 3, Multicenter, Randomized, Placebo-Controlled, Double-Blind, Three Arm Study to Evaluate the Safety and Efficacy of Tifacogin (Recombinant Tissue Factor Pathway Inhibitor) Administration in Subjects with Severe Community Acquired Pneumonia. Sponsor: Chiron. Primary Investigator, 2004.

A Randomized, Multi-Center, Comparative Trial of Short-Course Empiric Antibiotic Therapy versus Standard Antibiotic Therapy for Subjects with Pulmonary Infiltrates in the Intensive Care Unit (BAMSG 4-02). Sponsor: NIAID/ AstraZeneca. Co-Investigator with John Baddley, 2005.

A Phase 3, Randomized, Double-Blind, Parallel Group, Multinational Trial of Telavancin versus Vancomycin for Treatment of hospital Acquired Pneumonia with a Focus on Patients with Infections due to Methicillin Resistant Staphylococcus Aureus. Sponsor: Theravance, Inc. Co-Investigator with John Baddley, 2005.

Prospective, Randomized, Double-Blind, Placebo-Controlled Dose-Ranging Study of the Safety and Efficacy of Three-Day Continuous Intravenous Infusion of GR270773 in the Treatment of Suspected or Confirmed Gram Negative Severe Sepsis in Adults, Sponsor: Discovery Laboratories, Inc. Sub-Investigator with James Johnson, 2006-present.

A Pivotal, Multi-Center, Multi-National Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Safety and Efficacy of TAK-242 in Adults with Severe Sepsis, Sponsor: Takeda, Co-Investigator with John Kennedy, 2006-2009

Lung Transplantation:

A Study to Characterize Loss of Airflow and Its Treatment Following Lung and Heart/Lung Transplantation: A Review of the UAB Lung and Heart/Lung Transplant Experience. Sponsor: Institutional Funds. Co-Investigator with David McGiffin, 2003 - present.

Development of a Clinical Database for Lung Transplant Recipients at UAB. Sponsor: Institutional Funds. Co-Investigator, 2002-present.

Clinical Outcomes and Infectious Complications following Lung Transplantation, Sponsor: UAB, 2002-present.

Clinical Risk Factors for Primary Graft Dysfunction. Sponsor: NIH / University Of Pennsylvania, Primary Investigator (UAB), 2006 – Present.

Genetics of Primary Graft Dysfunction. Sponsor: NIH / University Of Pennsylvania, Primary Investigator (UAB), 2006 – Present.

Member of the Lung Transplant Outcomes Group, a multi-center, NIH-sponsored research group (PI - J. Christie) investigating the clinical risk factors and genetics of Primary Graft Dysfunction (PGD) following lung transplantation, as well as the effects of PGD on longer-term outcomes.

TEACHING EXPERIENCE (since 2015)

School of Medicine:

Lecturer, Disorders of Pulmonary Circulation, School of Medicine (UAB)

Mar 3, 2015; Mar 1, 2016; Feb 28, 2017; Feb 27, 2018; Mar 6, 2019; Feb 26, 2020

Group Preceptor, Pulmonary Module, MS-1 UAB School of Medicine

Pulmonary Disease Case Studies

Feb 17, Feb 27, Mar 3, and Mar 10, 2015; Feb 16, Feb 26, Mar 1, and Mar 8, 2016; Feb 15, Feb 22, Mar 1 and Mar 8, 2017; Feb 13, Feb 21, and Feb 27, 2018;

Residency:

Discussant, UAB General Medicine Tinsley Harrison Conferences,

“Case Discussion on Immunosuppression” May 11, 2015

“Case Presentation: ECMO for Respiratory Failure” Feb 24, 2016

CPC Conference, Pulmonary Tumor Emboli Dec 8, 2020

Lecturer, MICU Morning Report, University of Alabama at Birmingham

Hypoxemia - A Case-Based Discussion Apr 27, 2015

Outpatient Pulmonary Clinic Preceptor

Olivia Brown (4 clinics) Jan 2015; Han Le (4 clinics) Jul 2015

Jared Cook (4 clinics) Oct 2015; Jessica Kempton (4 clinics) Nov 2015

Olivia Brown (4 clinics) May 2016; Andrew Jones (4 clinics) Aug 2016

Barton Sanders (4 clinics) May 2017; Raymond Wade (4 clinics) Dec 2017

Elena Stuewe (3 clinics) Feb 2018, Zachary Doegg Mar 2018 (4 clinics)

Ashley Copeland Apr 2018 (4 clinics); Yassmin Hegazy Dec 2020 (4 clinics)

Extracorporeal Support Technology (lecture – Renal consult house-staff)

April 18, 2017; May 16, 2017; Mar 2018; Apr 2018; Jun 2018; Jul 2018; Sep 2018; Nov 2018; Dec 2018; Jan 2018; Mar 2018; Jun 2019; Jul 2019; Sep 2019; Dec 2019; Jan 2020; Feb 2020, May 2020, July 2020. Sep 2020; Nov 2020

Fellowship:

Outpatient Bronchoscopy Supervisor for Fellows (One Day Weekly) 2000 – Present

Outpatient Pulmonary Clinic Supervisor

Dr. Nirmal Sharma 2013-2014; Dr. Trisha Parekh 2014-2015

Lecturer, ALD/ Lung Transplant Case Conference, UAB	
"Ethical Issues in Lung Transplantation"	Feb 17, 2015
"Cases in Advanced Lung Diseases Management"	Sep 6, 2017
"Socioeconomic Status and Transplantation"	Nov 21, 2017
"The Lung Allocation Score and Geographic Sharing"	May 15, 2018
"Case Studies in Candidate Selection for ECMO"	Nov 27, 2018
"Geographic Disparities in Access to Lung Transplantation"	Jun 25, 2019

Lecturer, Pulmonary Fellow's Conference, UAB	
"Principles of Lung Transplantation – Selection Guidelines"	Jan 19, 2016
"Contemporary ECMO Support – Selection Guidelines"	Sep 13, 2016
"Contemporary ECMO Support – Ambulatory ECMO"	Oct 11, 2016
"Pulmonary Function Testing"	Jul 3, 2019

Other (UAB):

Lecturer, UAB CRRT Academy	
"Case Studies: CRRT with ECMO"	Aug 22, 2015
"Combining CRRT with ECMO Support"	Aug 18, 2016
"Managing CRRT and ECMO in Critical Care"	Sep 29, 2017
"Managing CRRT and ECMO in Critical Care"	Aug 31, 2018

Other (Non-UAB):

Abstract Reviewer, 2015 ACCP International Conference (Lung Transplantation, Critical Care), Montreal, Canada	Apr 24, 2015
Abstract Reviewer (Adult Lung Transplantation) 2016 ISHLT Conference, Washington, DC, USA	Nov 2015
Session Reviewer (Sepsis, Shock, ICU Care, Transplant) 2016 ACCP International Conference, Los Angeles, CA, USA	Jan 2016
Abstract Reviewer (Adult Lung Transplantation) 2017 ISHLT Conference, San Diego, CA, USA	Apr 2017
Moderator (Adult Lung Transplantation Poster Session) ISHLT Conference, San Diego, CA	Apr 6, 2017
Invited Speaker (with Hali Felt), " Post Intensive Care Syndrome and Extracorporeal Membrane Oxygenation," at the Alabama Department of Rehabilitation Services Training Conference, Birmingham, AL	Jan 23, 2018
Session Moderator (Can My Transplant Patient Take This Drug?) ISHLT Conference, Nice, France	Apr 13, 2018
Moderator (Adult Lung Transplantation Poster Session) ISHLT Conference, Nice, France	Apr 13, 2018
Abstract Reviewer, 2019 ACCP International Conference (Lung Transplantation, Critical Care), New Orleans, LA	Apr 2019

COURSES/CONFERENCES

Chair, Planning Committee, Tri-State Thoracic Society Conference Birmingham, AL (Sponsored by the Thoracic Societies of Alabama, Louisiana, and Mississippi, this conference is a postgraduate educational activity for physicians in thoracic medicine and surgery. Clinical topics in thoracic disease are presented using a case-based instructional format. The Chair and Planning Committee perform several duties, including selecting a conference location, organizing the conference, assisting fellows with case selection and preparation, applying and obtaining Continuing Medical Education (CME) accreditation through	Jan 13-14, 2006
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the American Thoracic Society, selecting a Keynote Speaker, and recruiting conference sponsorship).

Course Co-Director, CRRT Academy, Birmingham, AL Sep 6-7, 2007
(Sponsored by UAB and Gambro Renal Products, the first CRRT Academy drew approximately 60 nephrologists, intensivists, and nurses from across the U.S. to learn about the use of continuous renal replacement therapy in the ICU and receive an update on patient management in the ICU setting. The success of the first course has led to further sponsorship for subsequent courses).

Chair, Planning Committee, Tri-State Thoracic Society Conference
New Orleans, LA Jan 16-17, 2009; Jan 14-15, 2012

Chair, Program Committee, Pulmonary Update, Mar 9-10, 2012
Division of Pulmonary and Critical Care, UAB
(Pulmonary Update is an annual CME activity sponsored by the Division of Pulmonary, Allergy, and Critical Care Medicine at UAB. The Program Committee Chair oversees topic and speaker selection, organizes topics and participants for the lunchtime discussion groups (i.e. sleep, pulmonary infections, lung cancer, etc.), and helps select and invite external speakers for 2 sponsored lectures. The target audience is physicians, fellows, nurses, and respiratory therapists in pulmonary, internal medicine, and family medicine. This was a 7 AMA PRA Category 1 credit activity, with 75 registered participants).

Planning Committee, Tri-State Thoracic Society Conference Jan 18 -19, 2013
New Orleans, LA

Co-Chair, "Primary Graft Dysfunction" at the International Society for Heart and Lung Transplantation, April 25, 2013, Montreal, Quebec, Canada

Chair, "Optimizing Organs for Lung Transplantation, What Is Known and What's On The Horizon," Oct 27, 2013 ACCP International Conference, Chicago, IL. Planning Committee, Tri-State Thoracic Society Conference Jan 16 -17, 2014
New Orleans, LA

Planning Committee, Tri-State Thoracic Society Conference
New Orleans, LA - Jan 17-18, 2015; Jan 15-16, 2016; Jan 13-14, 2017, Jan 12-13, 2018

Planning Committee, UAB Respiratory Update Birmingham, AL 2015

Co-Lecturer, Pulmonary Physiology Course for Dental / Optometry Students 2013, 2014
Responsibilities include organizing a lecture schedule, preparing lectures, and preparation of questions for students' final exam.

Chair, "Extracorporeal Membrane Oxygenation: Current Practices and Emerging Applications," October 28, 2015, ACCP International Conference, Montreal, Canada

Chair, "Diagnosing and Managing Infectious Complications in the Immunosuppressed Patient – A Case-Based Discussion," October 26, 2015, ACCP International Conference, Montreal, Canada

Session Chair (Plenary Presentation), "Small Airways Disease," Apr 17, 2016

2016 Chest World Congress, Shanghai, China

Curriculum Development – UAB Adult Extracorporeal Life Support Program 2016

Planning Committee, UAB Respiratory Update Birmingham, AL Apr 28-29, 2017

2018 Scientific Symposium Planning Committee Member (Lung Section) Apr 2018
International Society of Heart and Lung Transplantation, Nice, France
Member, Abstract Selection Committee

Co-chair, 1st Asia-Pacific Acute Kidney Injury and Continuous Renal Replacement Therapy 2017 Congress, Kuala Lumpur, Malaysia Aug 20, 2017
“Monitoring, Alarms and Connections to Other Therapies” – Physician Session

Session Chair, American College of Chest Physicians International Conference Toronto, Canada (oral presentations)
“Acute Lung Injury and Respiratory Failure” Oct 29, 2017
“Lung Infections” Oct 31, 2017

Co-chair, 1st UAB Extracorporeal Life Support Symposium Birmingham, AL Feb 16-17, 2018

Chair, Original investigation, “Complications and Co-morbidities in Pulmonary Hypertension” ACCP International Conference, San Antonio, TX Oct 10, 2018

Moderator,
“Outcomes of Respiratory Infections” Oct 21, 2019
“Original investigation, Pulmonary Hypertension – Characteristics and Treatment” Oct 22, 2019
“Abstracts – Award Semi-finalists” Oct 22, 2019
ACCP (CHEST) International Conference, New Orleans, LA

Co-chair, Myositis section (with Rupal Shah), for ISHLT Consensus Document on Lung Transplantation in Patients with Connective Tissue Disease (with Dennis Lyu, Joshua Mooney, Michael Perch) Mar - Oct 2019

Sub-Group Leader (CAD Section), American Society of Transplantation Consensus Conference, Washington DC (Nov 5, 2019): Jul - Nov 2019
“Improving Cardiovascular Disease Care in Solid Organ Transplant Recipients: Controversies, Common Goals and Future Directions”

MENTORSHIP (since 2015)

Fellow Participants in the Transplant / Advanced Lung Diseases Service

Ji Young Lee MD	(University of South Alabama)	Mar 2015
Chris Williams MD	(University of South Alabama)	Mar 2016
William Brad Pitt MD	(University of South Alabama)	Apr 2016
Mohammed Berrou MD	(University of South Alabama)	Mar 2017
Waqar Siddiqui MD	(University of South Alabama)	Apr 2017

Mentor, “Anticoagulation Practices in Extracorporeal Life Support” and “Outcomes for Patients Supported With Prolonged Extracorporeal Life Support,” Jason Fain MD Nov 2016

Mentor, “Analysis of Mortality and Survival following Extracorporeal Life Support” Mar 7, 2019
UAB Trainee Research Symposium, Birmingham, AL, Rebecca Holt, Graduate Student, UAB School of Health Professions

Advanced Lung Diseases / Lung Transplant Mentorship

Aida Venado MD – now a Lung Transplant Assistant Professor at the University of California, San Francisco, 2015 – present.

Nirmal Sharma MD – Lung Transplant Assistant Professor at University of Alabama at Birmingham, 2014 – 2017; Assistant Professor at University of South Florida, Tampa, FL, 2017 – Present.

MAJOR LECTURES AND VISITING PROFESSORSHIPS (since 2015)

Local or Regional

Speaker, “Lung Transplantation for Pulmonary Fibrosis: Current Trends,” Pulmonary Grand Rounds, University of Alabama at Birmingham, AL	Feb 12, 2015
Invited Speaker, “Candidate Selection for Lung Transplantation in 2015,” Pulmonary Update, University of Alabama at Birmingham	Apr 11, 2015
Invited Speaker, “Extracorporeal Membrane Oxygenation and Renal Replacement Therapies,” UAB CRRT Academy, Birmingham, AL	Aug 20, 2015
Invited Speaker, “Extracorporeal Membrane Oxygenation and Renal Replacement Therapies,” UAB CRRT Academy, Birmingham, AL	Aug 17, 2016
Invited Discussant, “Hereditary Hemorrhagic Telangiectasia,” Medical Grand Rounds, University of Alabama at Birmingham	Mar 15, 2017
Invited Speaker, “Extracorporeal Life Support for Respiratory Failure” Pulmonary Grand Rounds, University of Alabama at Birmingham	Mar 23, 2017
Invited Speaker, “Extracorporeal Membrane Oxygenation for Respiratory Failure” Pulmonary and Critical Care Update, University of Alabama at Birmingham	Apr 29, 2017
Invited Speaker, “Extracorporeal Membrane Oxygenation for Respiratory Failure” Princeton Respiratory Update, Birmingham, AL	Jun 21, 2017
Invited Speaker, “Extracorporeal Membrane Oxygenation and CRRT” UAB CRRT Academy, Birmingham, AL	Sep 29, 2017
Invited Speaker, “ARDS, ECMO, and Post ICU Syndrome” with Hali Felt Alabama Department of Rehabilitation Services, Birmingham, AL	Jan 23, 2018
Invited Speaker, “Extracorporeal Membrane Oxygenation for Respiratory Failure” Respiratory Therapy Update, Birmingham, AL	Feb 9, 2018
Accepted Invitation:	
Invited Speaker, “Extracorporeal Membrane Oxygenation - Contemporary Use and Outcomes,” University of Alabama, Tuscaloosa Campus, AL	2018
Invited Speaker, “Extracorporeal Membrane Oxygenation and CRRT” UAB CRRT Academy, Birmingham, AL	Aug 30, 2019
Invited Speaker, “Extracorporeal Membrane Oxygenation and CRRT” UAB CRRT Academy, Birmingham, AL	Nov 5, 2020

National

Invited Speaker, American Thoracic Society International Conference, Denver, CO

“Lung Transplantation For Pulmonary Fibrosis: Referral, Recipient Selection, And Post-Transplant Outcomes” May 19, 2015

Invited Speaker, International Society for Heart and Lung Transplantation International Conference, Washington D.C. “Ambulatory ECMO for Patients awaiting Lung Transplantation” Apr 30, 2016

Invited Speaker, American Thoracic Society International Conference, San Francisco, CA “Current Strategies for Managing the Patient with CTEPH” May 16, 2016

Invited Speaker, “The Future of Extracorporeal Support – A Pulmonologist’s Perspective,” American Society for Artificial Internal Organs (ASAIO), San Francisco, CA (my presentation delivered by Charles Hoopes MD) Jun 17, 2016

Invited Speaker, ACCP International Conference, Los Angeles, CA “ECMO vs Mechanical Ventilation for Severe ARDS: A Critical Appraisal of Contemporary Management” (Moderator) Oct 24, 2016

“Impact of Socioeconomic Status on Access to Thoracic Transplant and Care for Patients with ALD in the Era of Healthcare Reform,” Oct 24, 2016

“Literature Review – Lung Transplant” Oct 26, 2016

Invited Speaker, “Lung Transplantation for Pulmonary Hypertension” in Birmingham Pulmonary Hypertension Symposium (sponsored by Washington University, St. Louis), Birmingham, AL Dec 3, 2016

Invited Speaker, “Socioeconomic Status and Transplantation Outcomes” Mayo Clinic Transplant Grand Rounds, Rochester, MN Sep 25, 2017

Invited Speaker, “The Lung Allocation Score and Geographic Sharing” Tampa by the Bay Transplant Symposium, Tampa, FL Mar 2, 2018

Invited Speaker, “Veno-arterial ECMO Support for Cardio-respiratory Failure” Tampa by the Bay Transplant Symposium, Tampa, FL Mar 2, 2018

Invited Speaker, “Veno-venous ECMO Support: A Case-Based Workshop” Tampa by the Bay Transplant Symposium, Tampa, FL Mar 3, 2018

Invited Speaker, AKI and CRRT Conference 2018, San Diego, CA “Physician Session: Monitoring, Alarms, and Connection with Other Therapies” Mar 6-9, 2018

Invited Speaker, American College of Chest Physicians, San Antonio, TX “The Impact of the 250-Mile Rule on Lung Transplantation” Oct 9, 2018

“Managing the IPF Patient Across the Spectrum of Disease - Introduction” Oct 9, 2018

Extracorporeal Life Support Organization Feb 15-16, 2019

Advanced Veno-Venous ECMO Course - Faculty, San Diego, CA “ECMO Circuit Overview” and “ECMO in Special Patient Populations”

Invited Speaker, AKI and CRRT Conference 2019, San Diego, CA “Physician Session: Monitoring, Alarms, and Connection with Other Therapies” Feb 26, 2019

Invited Speaker, American College of Chest Physicians, New Orleans, LA "Bronchiolitis in 2019: Update - Introduction"	Oct 22, 2019
Extracorporeal Life Support Organization Advanced Veno-Venous ECMO Course - Faculty, Orlando, FL "ECMO Circuit Overview" and "ECMO in Special Patient Populations"	Feb 14-15, 2020
Invited Speaker, AKI and CRRT Conference 2018, San Diego, CA "Physician Session: Monitoring, Alarms, and Connection with Other Therapies" "Extracorporeal Organ Support – Extracorporeal Support for Lung Failure"	Feb 24-25, 2020
Invited Speaker, American Society of Transplantation Cutting Edge of Transplantation: "Making The Most Of What We Have: Extended Donor Criteria and Donor Management"	Mar 5, 2020
Invited Speaker, AKI and CRRT Conference 2021, San Diego, CA "Physician Session: Monitoring, Alarms, and Connection with Other Therapies"	Feb 28, 2021
International	
Invited Speaker, ACCP International Conference, Montreal, Canada "When Does Poor Equal Poor Outcome? Understanding Socioeconomic Factors and Lung Transplant Risk"	Oct 25, 2015
"Emerging bacterial infections in the immunosuppressed patient A Case-Based Discussion"	Oct 26, 2015
"Extracorporeal Membrane Oxygenation: Current Practices and Emerging Applications – Background and Introduction"	Oct 28, 2015
Invited Speaker, Chest (ACCP) World Congress, Shanghai, China "Complications Following Lung Transplantation - Infection and Rejection" "Transplant Related Bronchiolitis"	Apr 16, 2016 Apr 17, 2016
Invited Speaker, CRRT Highlights Conference, Hyderabad, India "Workshop on Use of Extracorporeal Technology in the ICU" "Pathophysiology and management of sepsis: what's new?" "Extracorporeal Support Techniques for Sepsis and Multiorgan Failure: ECMO, ECCOR, and CO2 Removal"	Sep 30, 2016 Oct 1, 2016 Oct 1, 2016
Invited Speaker, 1st Asia-Pacific Acute Kidney Injury and Continuous Renal Replacement Therapy 2017 Congress, Kuala Lumpur, Malaysia "Monitoring, Alarms and Connections to Other Therapies" – Physician Session "Update on ARDS"	Aug 20, 2017 Aug 21, 2017
Invited Speaker, American College of Chest Physicians International Conference Toronto, Canada "Optimizing Candidates for Lung Transplantation: Who Best Benefits from a Limited Resource: Constructing the Proper Support Team for Successful Lung Transplantation"	Oct 29, 2017

“Bronchiolitis after Lung Transplantation”	Nov 1, 2017
Invited Speaker, AKI and CRRT Conference, Hyderabad, India	
“ARDS Biotrauma and Effect on the Kidney	Sep 26, 2018
“Workshop: Managing Patients with Sepsis”	Sep 26, 2018
“Monitoring, Alarms and Connections to Other Therapies – with Emphasis on ECMO Support” – Physician Session	Sep 27, 2018
Invited Speaker, 3rd Asia-Pacific Acute Kidney Injury and Continuous Renal Replacement Therapy 2019 Congress, Kuala Lumpur, Malaysia	
“Monitoring, Alarms and Connections to Other Therapies” – Physician Session	Oct 11, 2019
“Connecting with Hybrid Systems – ECMO, ECCO2R, Apheresis”	Oct 11, 2019
“ARDS: An Update on Clinical Trials”	Oct 11, 2019
Invited Speaker, AKI and CRRT Conference, Hyderabad, India	
“Plasma Exchange”	Oct 15, 2019
“ARDS – Clinical Trials Update	Oct 16, 2019
Invited Speaker, AKI Conference, Sao Paulo, Brazil	Nov 13, 2020
“ECMO and ECCO2R for the Failing Lung” (virtual presentation with interactive session)	
Invited Speaker, 4th Asia-Pacific Acute Kidney Injury and Continuous Renal Replacement Therapy 2020 Congress, Bangkok, Thailand	Dec 2020

GRANTS

CURRENT SUPPORT:

NIH 2-R01-HL-087115-06A1 (Christie – Univ Penn) 12/01/06 – 6/30/18 5%

Title: Clinical Risk Factors for Primary Graft Dysfunction \$22,050.00 (year 1)

The goals of the proposed research are to identify mechanistic determinants of the relationship of donor smoking and PGD following lung transplantation. The Lung Transplant Outcomes Group (LTOG) will determine the associations of biochemical measures of cigarette exposure, determine whether alterations in the lung microbiome in donors is associated with the risk of PGD, and determine whether lung resident immune cells contribute to the risk of PGD.

Role: Site Primary Investigator

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 44. Sharma N, **Wille KM**, Bellot SC, Diaz-Guzman E. Modern use of extracorporeal life support in pregnancy and post-partum: single center experience and systematic review of the literature. *ASAIO J*. 2015 Jan-Feb;61(1):110-4. PMID: 25248040
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Contribution Not Acknowledged by Authorship

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Manuscripts in Press:

1. Zouk A, Gulati S, **Wille KM**, Rowe SM, Wells JM. CT-Detected Pulmonary Artery Enlargement is Associated with Pulmonary Hypertension in Severe Cystic Fibrosis. Accepted by *PLOS ONE* (PONE-D-19-24185R1).

Other Publications (since 2015):

20. Sharma N and **Wille K**. Middle Eastern Respiratory Syndrome, Aug 2015, for the American Lung Association / Chest Foundation Patient Education Project.
21. **Wille K**. ISHLT Links Newsletter, June 2016 Session Summary: Ambulatory ECMO – We like to move it.
22. Tolwani A and **Wille K**. Oct 2016. <http://f1000Prime.com/726360654#eval793524287>
23. Tolwani A and **Wille K**. Oct 2016. <http://F1000Prime.com/726374488#eval793524286>
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25. Sharma N and **Wille K**. Alpha-1 Antitrypsin Deficiency, Aug 2015, for the American Lung Association / Chest Foundation Patient Education Project.
26. Tolwani A and **Wille K**. Mar 2017 <https://f1000.com/prime/727247239>.
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Books and Book Chapters:

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1. Tolwani AJ, Wille KM. Anticoagulation for continuous renal replacement therapy. In: UpToDate, Schwab, SJ (Ed), UpToDate, Waltham, MA, 2013.
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5. Krishna VN, **Wille KM**, Tolwani AJ; Chapter 29: Anticoagulation for Continuous Renal Replacement Therapy (CRRT). Handbook of Dialysis Therapy, 5th Edition. Edited by Allen R. Nissenson, MD, FACP and Richard E. Fine, MD. 2017 ISBN 9780323391542
6. Carbone R, Monselise A, **Wille KM**, Bottino G, Puppo F. Lung Transplantation and Interstitial Lung Disease. Under final review.
7. **Wille KM**, Reynolds TR, and Rusanov V. Lung Transplantation for Chronic Lung Disease: Cardiac Considerations, in Chronic Lung Disease and Cardiac Disease: Cardiovascular Complications. Edited by S. Bhatt. Springer Publishing. Pending review and publication.

ORAL PRESENTATIONS AND PUBLISHED ABSTRACTS (since 2015):

50. **Wille KM**, Edwards LB, Robbins Callahan L, McKoy AR, Cahill BC, Trulock EP, Angel LF, Chan KM. Lung Allocation Score Exception Requests Submitted To The UNOS/ OPTN Lung Review Board: Characteristics And Trends. Poster Presentation at the International Society of Heart and Lung Transplantation Meeting, Nice, France, April 16, 2015.
51. Porteous MK, Lederer DJ, Palmer SM, Cantu E, Shah RJ, Bellamy S, Lama VN, Borhade SM, Crespo MM, **Wille KM**, Localio A, Orens JB, Shah PD, Weinacker AB, Arcasoy S, Wilkes DS, Christie JD, Kawut SM, and Diamond JM. "The Clinical Prediction Model for PGD Among Patients with Pulmonary Hypertension." Poster Presentation at "International Society for Heart and Lung Transplantation," Nice, France, April 2015
52. Kulkarni T, **Wille KM**, Bellot SC, Diaz-Guzman E. Ambulatory Low Blood Flow Extracorporeal Membrane Oxygenation in Obstructive Lung Diseases Refractory to Conventional Therapy. Slide Presentation at ACCP International Conference, Montreal, Canada, 10-27-2015
53. Teerapuncharoen K, Venado A, Acosta Lara P, Diaz-Guzman E, **Wille KM**. Transition From a Low to a High Volume ECMO Center is Associated With Improved Patient Survival. Slide Presentation at ACCP International Conference, Montreal Canada, 10-28-15
54. **Wille KM**, Sharma NS, Wei B, Siric F, Hoopes C, Diaz-Guzman E. "Racial and ethnic differences in pre-transplant panel reactive antibodies and outcome following lung transplantation." Poster Presentation at "International Society for Heart and Lung Transplantation," Washington DC, USA April 2016
55. J.C. Fain, N.S. Sharma, V.G. Valentine, S.C. Bellot, C.R. Baker, V. Rusanov, G. Belopolsky, C. Hoopes, **K.M. Wille**. Anticoagulation For Venovenous Extracorporeal Membrane Oxygenation: An Analysis Of Thrombosis, Hemorrhage, and Survival. Accepted to the American Thoracic Society International Conference May 2017, Washington DC, USA
56. JC Fain, G Belopolsky, SC Bellot, CW Hoopes, **KM Wille**. Near Total resolution of acute respiratory failure due to Granulomatosis with polyangiitis while on ECMO as a bridge to transplant. Accepted to American Thoracic Society International Conference May 2017,

Washington DC, USA.

57. NS Sharma, VG Valentine, CR Baker, R Schwartz, V Rusanov, SC Bellot, CW Hoopes, **KM Wille**. Extracorporeal Membrane Oxygenation Bridge to Lung Transplantation: A Single Center Report. Accepted to International Society of Heart and Lung Transplantation. San Diego, CA Apr 2017
58. DC Mauchley, JK Kirklin, **KM Wille**, KF Cournelius, MA Tresler, MS Blood, ED Zavala, JJ Martinez, RN Brown, WC Erwin, CW Hoopes. Adult ECMO for Acute Cardiorespiratory Failure: Should there be a Formula for Futility? Accepted to International Society of Heart and Lung Transplantation. San Diego, CA Apr 2017
59. Zouk AN, Gulati S, Rowe SM, **Wille KM**, Wells JM. Pulmonary Artery Enlargement Is Associated With Pulmonary Hypertension and Pulmonary Arterial Compliance In Severe Cystic Fibrosis. Accepted to the 2017 Southern Regional American Federation for Medical Research Meeting.
60. Ijaduola E, Cook J, Speer R, **Wille K**, Tolwani A. Early Experience with Phoxillum as Post-Filter Replacement Fluid in AKI Patients treated with CVVHDF. Accepted to the 2017 CRRT Conference, San Diego, CA
61. Rusanov V, Sharma N. Hoopes CW, **Wille KM**, Valentine VG. Atypical Hemolytic Uremic Syndrome: An Intraoperative Complication of Lung Transplantation. Accepted to International Society of Heart and Lung Transplantation. San Diego, CA Apr 2017
62. Rusanov V, **Wille KM**, Hoopes C, Valentine VG, Duncan S. A Novel Protocol for the Management of Antibody Mediated Rejection following Lung Transplantation. Presented at the International Society of Heart and Lung Transplantation. Nice, France Apr 2018
63. Holt RB, Rusanov V, Wille KM, Hoopes C, Valentine VG, Duncan S, **Wille KM**. Analysis of Survival and Mortality following Extracorporeal Membrane Oxygenation: A Single-Center Experience. Poster Presentation at the American Thoracic Society International Conference, 2019, Dallas, TX.
64. Schwalbach K, Wade RC, Rusanov V, Valentine V, Tallaj J, Bellot C, Hoopes C, **Wille KM**. Pulmonary tumor thrombotic microangiopathy in a young woman with tumor emboli from high risk type human papillomavirus (HPV)-associated cervical cancer. Case Presentation (poster) at ACCP International Conference, New Orleans, LA Oct 2019
65. Wade RC, Mkorombindo T, McElwee SM, **Wille KM**. Supportive Care in Fat Embolism Syndrome: A Role for Pulmonary Vasodilators? Case Presentation (slide) at ACCP International Conference, New Orleans, LA Oct 2019

Grant Reviews

1. PSI Foundation (Canada) – April 2013 Clinical Research Application on the Detection of Primary graft Dysfunction following Lung Transplantation
2. US Army Medical Research and Materiel Command – May 2017 Research Application on the use of Extracorporeal Membrane Support