**Eugenia B. Quackenbush, MD, FACEP**

**Curriculum Vitae**

**Office Address** UNC Chapel Hill Department of Emergency Medicine

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Chapel Hill, NC 27599-7594

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**Current Position** Clinical Assistant Professor

Clinical Trials Program Director

Department of Emergency Medicine

University of North Carolina at Chapel Hill

**Education**

**Emergency Medicine Residency** 1991-1993

East Carolina University

Greenville, North Carolina

**Emergency Medicine Internship** 1992-1993

East Carolina University

Greenville, North Carolina

**University of North Carolina School of Medicine** 1986-1990

Chapel Hill, North Carolina

**Doctor of Medicine**

**University of North Carolina School of Nursing** 1984-1986

Chapel Hill, North Carolina

**Bachelor of Science in Nursing**

**University of North Carolina** 1979-1983

Chapel Hill, North Carolina

**B.A. French and Zoology**

**Licensure/Certification**

Diplomate, American Board of Emergency Medicine 1994-present

Fellow, American College of Emergency Physicians 1996-present

North Carolina Physician License #34608 1991-present

GCP and Biomedical Human Research Training 2014-present

Provider, Pediatric Advanced Life Support 2013-present

Instructor, Advanced Trauma Life Support 1992-1995

Instructor, Advanced Cardiac Life Support 1990-1996

Registered Nurse, North Carolina Board of Nursing 1986-1990

EMT - Paramedic, Intermediate, Basic 1982-1990

**Employment History**

**Clinical Assistant Professor** 2000-present

Department of Emergency Medicine

University of North Carolina

**Clinical Trials Program Director** 2012-present

Department of Emergency Medicine

University of North Carolina

**Director, Medical Student Education** 2004-2006

Department of Emergency Medicine

University of North Carolina

**Senior Partner** 1994-2000

Wake Emergency Physicians PA

WakeMed Raleigh

**Attending Physician** 1993-2000

Wake Emergency Physicians PA

WakeMed Raleigh

**Clinical Instructor** 1993-2000

Department of Emergency Medicine

University of North Carolina

**Attending Physician** 1991-1993

National Emergency Services

**Registered Nurse** 1986-1990

Emergency Department, Neurology Floor

North Carolina Memorial Hospital

**EMT – Paramedic, Intermediate, Basic** 1982-1990

Orange County Emergency Medical Services

**Honors and Awards**

**UNC Academy of Educators** 2018

**First Place,** UNC EM Resident Research Day Faculty Preceptor 2014

‘Variability in Antivenom Treatment in Snake Envenomations Between Two Major

Tertiary Care Emergency Departments’ Presenter: Kristen N. Ward DO, MS

**Fellow** 1996

American College of Emergency Physicians

**Excellence in** **Customer Service Award** 1994

Wake Emergency Department

**Chief Resident** 1992-1993

Department of Emergency Medicine, Brody School of Medicine

Pitt County Memorial Hospital, Greenville, NC

**Undergraduate Excellence in Emergency Medicine Award** 1990

Society for Academic Emergency Medicine

**Honorary Lifetime Membership** 1990

Orange County Rescue Squad

**Bibliography**

**Book Chapters**

1. **Quackenbush, EB:** Post Repair Wound Care**,** *Tintinalli's Emergency Medicine Man*ual, 8eRita K. Cydulka, Michael T. Fitch, Scott A. Joing, Vincent J. Wang, David M. Cline, O. John Ma, McGraw-Hill, 2018
2. **Quackenbush, EB:** Post Repair Wound Care, in Cline DM, Ma OJ, Tintinalli JE et al (eds): *Emergency Medicine: Just The Facts,* New York, McGraw-Hill, 2004, pp 87-89. New Edition 12/12.
3. **Smith EB**: Post Repair Wound Care, in Cline DM, Ma OJ, Tintinalli JE, et al (eds): *Emergency Medicine: A Comprehensive Study Guide Companion Handbook*, New York, McGraw-Hill, May 1996, pp 180-182.
4. **Smith EB**, Katz LW: General Approach to an Emergency, *Management of Office Emergencies*, Editor Christopher Barton, MD, McGraw-Hill, 1999.

# Papers/Articles

# Anderson VE, Gerardo CJ, Rapp-Olsson M, Bush SP, Mullins ME, Greene S, Toschlog EA, Quackenbush E, Rose SR, Schwartz RB, Charlton NP, Lewis B, Kleinschmidt KC, Sharma K, Lavonas EJ. Early administration of Fab antivenom resulted in faster limb recovery in copperhead snake envenomation patients. *Clin Toxicol* (Phila). 2018 Sep 3:1-6. doi: 10.1080/15563650.2018.1491982. [Epub ahead of print] PMID:30175628

1. Gerardo CJ, **Quackenbush EB**, Lewis B, Rose SR, Greene S, Toschlog EA, Charlton NP, Mullins ME, Schwartz R, Denning D, Sharma K, Kleinschmidt K, Bush SP, Ryan S, Gasior M, Anderson VE, Lavonas EJ. The Efficacy of Crotalidae Polyvalent Immune Fab (Ovine) Antivenom Versus Placebo Plus Optional Rescue Therapy on Recovery from Copperhead Snake Envenomation: A Randomized, Double-Blind, Placebo-Controlled, Clinical Trial. *Annals of Emergency Medicine*.2017 Jun 13. PMID: 28601268
2. Beigel JH, et al. IRC002 Study Team incl. [Tebas P](https://www.ncbi.nlm.nih.gov/pubmed/?term=Tebas%20P), [Quinn J](https://www.ncbi.nlm.nih.gov/pubmed/?term=Quinn%20J), [Jiang Y](https://www.ncbi.nlm.nih.gov/pubmed/?term=Jiang%20Y), [Elie-Turenne MC](https://www.ncbi.nlm.nih.gov/pubmed/?term=Elie-Turenne%20MC), [Hoelle R](https://www.ncbi.nlm.nih.gov/pubmed/?term=Hoelle%20R), [Iovine N](https://www.ncbi.nlm.nih.gov/pubmed/?term=Iovine%20N), [Wills RS](https://www.ncbi.nlm.nih.gov/pubmed/?term=Wills%20RS), [Pata S](https://www.ncbi.nlm.nih.gov/pubmed/?term=Pata%20S), [Huggins M](https://www.ncbi.nlm.nih.gov/pubmed/?term=Huggins%20M), [Manukian B](https://www.ncbi.nlm.nih.gov/pubmed/?term=Manukian%20B), [Bajwa E](https://www.ncbi.nlm.nih.gov/pubmed/?term=Bajwa%20E), [Holland C](https://www.ncbi.nlm.nih.gov/pubmed/?term=Holland%20C), [Brait K](https://www.ncbi.nlm.nih.gov/pubmed/?term=Brait%20K), [Hunt T](https://www.ncbi.nlm.nih.gov/pubmed/?term=Hunt%20T), [Stowell C](https://www.ncbi.nlm.nih.gov/pubmed/?term=Stowell%20C), [Slater A](https://www.ncbi.nlm.nih.gov/pubmed/?term=Slater%20A), [Bell TE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Bell%20TE), [Townsends M](https://www.ncbi.nlm.nih.gov/pubmed/?term=Townsends%20M), [Cairns CB](https://www.ncbi.nlm.nih.gov/pubmed/?term=Cairns%20CB), [**Quackenbush EB**](https://www.ncbi.nlm.nih.gov/pubmed/?term=Quackenbush%20EB)**,** et al. Immune plasma for the treatment of severe influenza: an open-label, multicentre, phase 2 randomised study. *The Lancet Respiratory Medicine.* 2017 Jun; 5(6):500-511
3. Tsalik EL, Henao R, Nichols M, Burke T, Ko ER, McClain MT, Hudson LL, Mazur A, Freeman DH, Veldman T, Langley RJ, **Quackenbush EB**, Glickman SW, Cairns CB, Jaehne AK, Rivers EP, Otero RM, Zaas AK, Kingsmore SF, Lucas J, Fowler, Jr. VG, Carin L, Ginsburg GS, and Woods CW. Acute respiratory illness etiology diagnosed by host gene expression classifiers. *Science Translational Medicine.* 2016 Jan 20; 8(322) PMID: 26791949
4. **Smith EB**. Echocardiography in the Evaluation of Blunt and Penetrating Chest Trauma: Abstracts of Recent Articles and Commentary. *Current Surgery* February 1993; 50(2)
5. **Smith EB**: “Code Green, Dr. Blue.” Emergency Paging Euphemisms: Potential for Confusion. *North Carolina Medical Journal.* January 1992; 53(2).
6. **Smith EB**: Case Studies in EMS *Primary Survey* August, November 1990; February, May 1991

**In Press/Submitted**

1. Mullins ME, Gerardo CJ, **Quackenbush EB**, Lewis B, Rose SR, Greene S, Toschlog EA, Charlton NP, Schwartz R, Denning D, Sharma K, Kleinschmidt K, Bush SP, Ryan S, Gasior M, Anderson VE, Lavonas EJ. Hypersensitivity Reactions and other Safety Outcomes in the Efficacy of Crotalidae Polyvalent Immune Fab Antivenom versus Placebo on Recovery from Copperhead Snakebite Trial. *Submitted to Southern Medical Journal*. 11 pages.
2. Duplessis C, Gregory M, Frey K, Bell M, Truong L, Schully K, Lawler J, Langley RJ, Kingsmore SF, Woods CW, Rivers EP, Jaehne AK, **Quackenbush EB**, Fowler VG, Tsalik EL, Clark D. Evaluating the Discriminating Capacity of Apoptotic Biomarkers in Sepsis. *Submitted to PLOS One.* 24 pages.

**Published Abstracts**

1. Ward DN, Wortley AG, **Quackenbush EB**, Gerardo CJ. Variability in Antivenom Treatment in Snake Envenomations Between Two Major Tertiary Care Emergency Departments. *Annals of Emergency Medicine,* Vol. 64, Issue 4, S141

**Posters**

1. Snigdha Peddireddy, B.S., Kevin Chronowski, B.S., Travis Gurney, B.S., Rukesh Chintapatla, Al Bonifacio, RN, BSN, MHA, Daryhl Johnson, M.D., Russell M. Taylor, Ph.D., Jay K. Fisher, Ph.D., Ricky Spero, Ph.D., **Eugenia Quackenbush, M.D.** Evaluating global hemostasis in patients using novel technology May Day Trauma Conference May 3,4 2018
2. Ward DN, Wortley AG, **Quackenbush EB**, Gerardo CJ. Variability in Antivenom Treatment in Snake Envenomations Between Two Major Tertiary Care Emergency Departments. ACEP Scientific Assembly 2014

**Other**

1. Book Review: Something for the Pain by Paul E. Austin, MD. W. W. Norton & Company; September 17, 2008

# Teaching Activities

# Resident Education

Emergency Medicine Residency Core Faculty Member 2016-present

Trauma Module Leader. Residency Interviewer. Examiner, oral boards practicum.

House Parent. ACGME Site visit participant.

Clinical Teaching UNC Emergency Medicine Residents 2000-present

Director, Off-Service Resident Rotators 2005- 2006

Department of Emergency Medicine, University of North Carolina at Chapel Hill

Clinical Instructor, Emergency Medicine Resident Physician Monthly Rotations 1993-2000

Department of Emergency Medicine, WakeMed

# Medical Student Education

# Clinical teaching MS3 and MS4 in the UNC Emergency Department 2000-present

Medical Student Education Director 2004-2006

UNC Department of Emergency Medicine

Development of new MS-IV curriculum and administration of rotation: all courses were revised and 3 new courses created.  EM Faculty representative for White Coat Ceremony, Emergency Medicine Career Day, and Senior Awards Banquet.

Medical Student Academic Advisor 2004-2008

University of North Carolina School of Medicine

8-10 MS-III, IV per year

Faculty Liaison, Emergency Medicine Interest Group 2005-2006

University of North Carolina School of Medicine

International Student/Visiting Scholar Coordinator 2004-2006

Clinical Instructor, Emergency Medicine Medical Student Monthly Rotations 1993-2000

Department of Emergency Medicine, WakeMed

# Additional Teaching Activities

Advanced Cardiac Life Support Instructor, multiple courses 1993-1995

Department of Emergency Medicine, WakeMed

Emergency Nursing Core Curriculum, Instructor, multiple courses 1994-2000

# Department of Emergency Medicine, WakeMed

# Course Director

EDMD411: Emergency Medicine Critical Care Selective 2004-2006

Goal: Student to utilize the skills of patient history and physical diagnosis to diagnose and manage acute care conditions in the undifferentiated ED patients, integrate evidence-based medicine into diagnosis and management of patients in the ED, develop accurate and succinct communication skills for oral presentations and consultations which provide comprehensive information transfer in ED setting.

ACS 411: Ambulatory Care Selective in Emergency Medicine 2004-2006

Goal: Student to perform history and physical, develop differential diagnosis, and determine appropriate disposition for a wide variety of urgent conditions, including minor trauma.

ED 401 and SURS 402 2004-2006

Course direction, revision of course curriculum and lectures, monthly evaluations, grading papers, grade sheets for Dean’s office. 46 students in 2005-2006. Similar numbers thru 2008.

# Course Developer

Pediatric Emergency Medicine through WakeMed Department of Emergency Medicine 2006

Created new course involving coordination and description, curriculum development, recruitment of course directors, submission and approval through the Dean’s office.

**Academic Advisor**

International Student Director 2004-2006 Supervised credit and non-credit rotations for international visiting scholars from Japan and Peru

Medical Student Advisor 2004-2008

Acted as primary advisor for approximately 10 medical students each year

**Other Learners:**

Current: Undergraduate Volunteer Research Assistant, Mentee: Rukesh Chinthapatla, premed student

2015-16 Undergraduate Research Assistant, Mentee: Caroline Fryar (current UNC Med Student)

**Presentations/Lectures**

**Local**

Trauma Module, Trauma Video Review 2/14/2018

Emergency Medicine Resident Conference

Used actual video footage of UNC trauma resuscitations with debriefing as a teaching tool.

Preceptor, Cadaver Lab 7/27/2017

UNC Emergency Medicine Residents

Examiner, Oral Boards Practicum 3/29/2017

UNC and Duke Emergency Medicine Residents

Worst Case Scenarios: Massive Hemoptysis 7/20/2016

UNC EM Resident Conference

Essential Airway Skills for EM Interns 4/20/2016

UNC Emergency Medicine Boot Camp

'Snakebites and Other Stories: Lessons Learned and Clinical Trials Update' 9/25/2014

UNC Emergency Medicine Research Meeting

‘Introduction to Clinical Trials in the UNC-CH Emergency Department’ 6/23/2014

Lecture for UNC EM 2014 Intern Class

Developing a Clinical Research Program 10/24/2013

UNC Emergency Medicine Research Meeting

'Crofab Use and Effectiveness in Copperhead Envenomation: Crofab Study' 4/25/2013

UNC Emergency Medicine Research Meeting

Airway Station 4/23/2013

UNC MS IV Capstone Course

‘Ocular Emergencies’ 12/1/2010

UNC Department of Emergency Medicine Faculty and Residents

‘Drugs of Abuse’ 9/23/2009

UNC Department of Emergency Medicine Faculty and Residents

'Eye Emergencies' 12/2008

UNC Department of Emergency Medicine Faculty and Residents

'Evaluating Acute Abdominal Pain in the ER' 3/2006

MS II Medical Student Intro to Emergency Medicine Course

'Eye Emergencies'

UNC Department of Emergency Medicine Faculty and Residents 2/2005

‘Introduction to Emergency Medicine’ 2004-2006

Multiple Presentations for MS IV Students on EM Rotation

'Early Pregnancy Presentations' 7/2003

UNC Department of Emergency Medicine Faculty and Residents

'Ectopic Pregnancy' 9/19/2001

UNC Department of Emergency Medicine Faculty and Residents

'Emergency Medicine CPC' 1998-2015

UNC Department of Emergency Medicine Faculty and Residents

Multiple Presentations: 1998, 1999, 2001-2003, 2015, 2017

Trauma Intubation Panel Discussion 9/1998

UNC Department of Emergency Medicine Faculty and Residents

'Ectopic Pregnancy' 11/10/1998

UNC Department of Emergency Medicine Faculty and Residents

'Abdominal Pain' 8/12/1997

UNC Department of Emergency Medicine Faculty and Residents

'Toxic Shock Syndrome' 11/19/1996

UNC Department of Emergency Medicine Faculty and Residents

'Ectopic Pregnancy' 10/12/1995

UNC Department of Emergency Medicine Faculty and Residents

'Introduction to Emergency Medicine ' 2/1994

Medical Student Section

North Carolina Medical Society, Raleigh, NC

'Manual Procedural Skills in Emergency Medicine' 6/1993

Research Day, Department of Emergency Medicine

East Carolina University School of Medicine, Greenville, NC

**National**

**'**How to Run a Successful Emergency Department-Based Industry-Sponsored Clinical Trials Program – Personnel' 5/12/2016

SAEM National Meeting

New Orleans, LA

**International**

‘Eye Emergencies’ 6/23/2010

Porto Conference on Emergency Medicine

Porto, Portugal

‘The Difficult Airway’ 6/22/2010

Porto Conference on Emergency Medicine

Porto, Portugal

‘US Emergency Medicine Residency Programs’ 3/18/2006

Keynote Address: Japanese Association for Acute Care Medicine

Tokyo, Japan

‘A History of Emergency Medicine in the US’ 3/17/2006

Emergency Medicine Seminar: Fukui University

Fukui, Japan

‘The UNC-Chapel Hill Emergency Medicine Residency Program’ 3/17/2006

Emergency Medicine Seminar: Fukui University

Fukui, Japan

**Grand Rounds**

'The Business of Emergency Medicine' 1/1993

Department of Emergency Medicine

East Carolina University School of Medicine, Greenville, NC

'Diagnostic Ultrasonography in Emergency Medicine' 2/1992

Department of Emergency Medicine

East Carolina University School of Medicine, Greenville, NC

**Grants**

A Randomized, Double-Blind, Placebo-Controlled Dose Ranging Study Evaluating the Safety, Pharmacokinetics and Clinical Benefit of FLU-IGIV in Hospitalized Patients with Serious Influenza A Infection

Role: **Site Principle Investigator**

Current start up

Emergent BioSolutions Inc.

$

PETAL- CLOVERS: Crystalloid Liberal or Vasopressors Early Resuscitation in Sepsis

Role: **Co-Investigator**

PI: Shannon Carson

August 18-present

Source: NIH National Heart, Lung, and Blood Institute (NHLBI)

$

Comparison of Heart Failure Risk Prediction Tools in the Emergency Department

Role: **Co-Investigator**

PI: Michelle Meyer

August 2018- present

Source: NIH National Institute of Child Health and Human Development (NICHD)

$

PETAL - Vitamin D to Improve Outcomes by Leveraging Early Treatment (VIOLET)

Role: **Co-Investigator**

PI: Tim Platts-Mills

March 2018-July 2018

Source: NIH National Heart, Lung, and Blood Institute (NHLBI)

$

ASAP Point of Care Pilot Clinical Study

Role: **Principal Investigator**

September 2016-present

Source: NIH National Heart, Lung, and Blood Institute (NHLBI)

$188,000

Prospective, Open-Label Study of Andexanet Alfa in Patients Receiving a Factor Xa Inhibitor Who Have Acute Major Bleeding

Role: Co-Investigator

PI: Stephan Moll, MD

2016-present

Source: Portola Pharmaceuticals

$77,657

SOAR Safety of Oral Anticoagulants Registry: A National, Hospital-Based, Sentinel Surveillance Study of the Clinical and Economic Impact of Bleeding and Bleeding Concerns due to the Use of Oral Anticoagulants

Role: **Site Principal Investigator**

PI: Charles Pollack

November 2016

Source: Hospital Quality Foundation

$33,000

MARC-38: Emergency Department Management of Patients with Food or Insect Sting Allergies: the 38th Multicenter Airway Research Collaboration Study

Role: **Site Principal Investigator**

PI: Carlos Camargo

February 2016

Source: Mylan Specialty LP

$6,000

# Multicenter Trial of Rivaroxaban for Early Discharge of Pulmonary Embolism from the Emergency Department (MERCURY PE)

Role: **Site Principal Investigator**

PI: Peter Wildgoose, MD, PhD

January 2016

Source: Janssen Scientific Affairs

$67,000

IRC-005 A Randomized Double-Blind, Phase 3 Study Comparing the Efficacy and Safety of High-Titer Versus Low-Titer Anti- Influenza Immune Plasma for the Treatment of Severe Influenza A

Role: **Site Principal Investigator**

PI: John Biegel, MD

January 2016

Source: NIH National Institute of Allergy and Infectious Diseases (NIAID)

$105,600

Screening Program for A Multicenter, Randomized, Double-blind, Placebo-controlled Phase III Study to Evaluate the Efficacy, Safety and Tolerability of Serelaxin When Added to Standard Therapy in Acute Heart Failure Patients. (RELAX-AHF-2)

Role: **Site Program Director** and Co-Investigator

PI: Kirkwood Adams, MD

January 2016

Source: Novartis Pharmaceuticals

$40,000

IRC-002 A Randomized, Open-Label, Phase 2, Multicenter Safety and Exploratory Efficacy Study of Investigational anti- Influenza Immune Plasma for the Treatment of Influenza

Role: **Site Principal Investigator**

PI: John Biegel, MD

2015

Source: NIH National Institute of Allergy and Infectious Diseases (NIAID)

$142,220

NC Emergency Department Visits due to Snakebites - Demographic and Geographic Patterns and Circumstances of Snakebite Events

Role: Co-Investigator

PI: Anna Waller, MD

2015-2016

Clinical Performance of Elecsys Troponin T Gen 5 in Subjects with Symptoms of Acute Coronary Syndrome (ACS): ACS Collection Study for Serum Claim

Role: Co-Investigator

PI: Abhi Mehrotra, MD

2014-2015

Source: Roche Diagnostics

$237,030

Treprostinil Sodium Inhalation for Early ARDS and At-Risk Patients: Effect on Oxygenation and Disease-Related Biomarkers

Role: Co- Investigator

PI: Jimmy Ford, MD

2014-present

Source: United Therapeutics

$14,937, 10% effort

UNC Emergency Department Research Biorepository

Role: Principal Investigator

2014

IRC-002 A Randomized, Open-Label, Phase 2, Multicenter Safety and Exploratory Efficacy Study of Investigational anti-Influenza Immune Plasma for the Treatment of Influenza

Role: Co-Investigator

PI: Charles Cairns

2013-2014

Source: NIH National Institute of Allergy and Infectious Diseases (NIAID)

$142,220

A Randomized, Double-Blind, Placebo Controlled Study comparing CroFab versus Placebo with Rescue Treatment for Copperhead Snake Envenomation

Role: **Site Principal Investigator**

PI: Eric Lavonas, MD

2013-2015

Source: BTG Intl

$197,180

MicroRNA-29 as a novel biomarker and regulator of aging

Role: Co-Investigator

PI: Mohanish Deshmukh, MD

2013-present

Source: NC TraCS

$10,000

Variability in Treatment of Crotalid Evenomations

Role: Co-Investigator/Faculty Advisor

2013

PI: Kristin Ward, MD

The Surviving Sepsis Campaign: An International Single Day Point Prevalence Study for Severe Sepsis and/or Septic Shock

Role: Co-Investigator

2013

PI: Charles Cairns, MD

A Prospective Multi-Center Matched Design Study Evaluating The Performance Characteristics of the VIDAS NT- proBNP2 assay

Role: Site Program Director

2013

PI: Ian Martin, MD

Source: Biomerieux Inc

$132,000

A 26 week, randomized, double-blind, parallel-group, active controlled, multicenter, multinational safety study evaluating the risk of serious asthma-related events during treatment with Symbicort®, a fixed combination of inhaled corticosteroid (ICS) (budesonide) and a long acting beta2-agonist (LABA) (formoterol) as compared to treatment with ICS (budesonide) alone in adult and adolescent (greater than or equal to12 years of age) patients with asthma

Role: Site Principal Investigator

2013

PI: Ubaldo Martin, MD

Source: Astra Zeneca

$16,000

Clinical Infection and Sepsis Database and Specimen Repository

Role: Co-Investigator

2013

PI: Ian Martin, MD

Source: DARPA

$108,907

Duke University Medical Center Asthma and COPD Research Database

Role: Co-Investigator

2013

PI: Charles Cairns, MD

Source: Institution Sponsored

$31,360

SAEM EMIG Education Grant 2005: The “Skills Lecture Series.”

Role: Faculty Grantee

2005

Source: SAEM

Objective: We developed a new educational methodology for UNC undergraduate medical education that combined a short, introductory lecture with an expanded hands-on skills session.

$500

**Professional Service**

**To Discipline**

2013-present Peer Reviewer, Journal of Emergency Medicine

2015-present State Coordinator, EMNET National ED Survey

2013-present Member, Copperhead Snakebite Recovery Outcome Group

2015-2018 Member, NIAID Hospitalized Influenza Working Group

2005 Member, EM CPOE Task Force

2001-2004 Member, UNC EM Patient Safety Board

1999 Member, WakeMed Express Care Task Force

1998 Member, WakeMed Capital Budget Committee

**Within UNC-Chapel Hill**

2018-present UNC IRB-Institutional Review Board Member

2015-present Transfusion Committee

**Department of Emergency Medicine**

2016-present Performance Review Committee

2013-present Research Committee

2016-present Education Committee

2016-present Residency Core Faculty/Leadership Committee

2016-present Clinical Competency Committee

**Local**

2014-present Volunteer Physician, Samaritan Health Clinic, Durham, NC

See patients individually and supervise residents in clinic.