CURRICULUM VITAE

Date of Revision: January 15th, 2021

Name: Christopher Leonard Moore MD

Rank: Full Professor in the Department of Emergency Medicine, Clinician-Scientist Track

Term: On a contuinuing basis as of October 1, 2020

School: Yale University School of Medicine

Summary:

Dr. Moore is an international pioneer in the field of point-of-care ultrasound with a research focus on diagnostic imaging. He has over 80 peer-reviewed publications in high impact journals including NEJM, JAMA, BMJ, Radiology and all emergency medicine journals. He has been continuously funded with R level grants by the Agency for Healthcare Research and Quality over the last ten years. Dr. Moore is Chief of the Section of Emergency Ultrasound within the Yale Department of Emergency Medicine and directed the Yale Emergency Ultrasound Fellowship for 15 years, mentoring more than 25 fellows. He founded and directs the Yale Point-of-care Ultrasound Course which has trained hundreds of clinicians from around the world over the last 14 years. He has lectured on six continents and received numerous awards for teaching and research.

Education: B.A. Chemistry, Amherst College, *Magna Cum Laude*, 1992

M.D. University of Virginia School of Medicine, Alpha Omega Alpha, 1998

Career/Academic Appointments:

| 1992-1994 | Teacher, Georgetown Day High School, Washington D.C. |
|--------------|--|
| | |
| 1998-1999 | Intern, Emergency Medicine, Carolinas Medical Center, Charlotte, NC |
| 1999-2001 | Resident, Emergency Medicine, Carolinas Medical Center, Charlotte, NC |
| 2001-2002 | Fellow, Emergency Ultrasound, Resurrection Medical Center, Chicago, IL |
| 2002-2011 | Assistant Professor, Department of Emergency Medicine, Yale University |
| | School of Medicine, New Haven, CT |
| 2011-2014 | Associate Professor, Clinician Educator Track, Department of Emergency |
| | Medicine, Yale University School of Medicine, New Haven, CT |
| 2014-2020 | Associate Professor, Clinician Scholar Track, Department of Emergency |
| | Medicine, Yale University School of Medicine, New Haven, CT |
| 2020-present | Professor, Clinician Scientist Track, Department of Emergency Medicine |

Administrative Positions:

| 2011-present | Chief, Section of Emergency Ultrasound, Department of Emergency |
|--------------|--|
| | Medicine, Yale University School of Medicine, New Haven, CT |
| 2002-2019 | Fellowship Director, Emergency Ultrasound, Section of EM, Department |
| | of Surgery, Yale University School of Medicine, New Haven, CT |

2006-2011 Director, Division of Emergency Ultrasound, Section of EM, Department

of Surgery, Yale University School of Medicine, New Haven, CT

2015-2017 Representative for the Department of Emergency Medicine on the Yale

School of Medicine Faculty Advisory Committee

2017-present Liaison for Yale Medicine ACR Select implementation across YNHH,

SRC, Bridgeport, Greenwich, and L&M EDs.

Board Certification:

American Board of Emergency Medicine, November 2002, recertified November 2012.

Professional Honors & Recognition:

A) <u>International/National/Regional</u>

2013: Fellow, American Institute of Ultrasound in Medicine

2013: Society for Academic Emergency "Best Faculty Presentation", SAEM National Meeting, Atlanta, GA

2009: Society for Academic Emergency Medicine "Ultrasound Achievement Award" (national award for person who has done the most for the specialty)

2007: American College of Emergency Physicians National Teaching Award

2007: Senior Member, American Institute of Ultrasound in Medicine

2006: Connecticut College of Emergency Physicians, Research Award, Best Oral Presentation

2004: Fellow, American College of Emergency Physicians

2001: Best Resident Oral Presentation, Society for Academic Emergency Medicine, Regional Meeting, Charlotte, NC

2001: Outstanding Resident Research Achievement Award, Carolinas Medical Center, Charlotte, NC

1997: Alpha Omega Alpha University of Virginia School of Medicine, Charlottesville, VA

1991: Xigma Chi Honor Society

B) University

2016: Alvin Feinstein Award for Clinical Teaching in the Yale University School

of Medicine

2009: Inducted as honorary fellow, Timothy Dwight College, Yale University

2004: Teaching Award, Section of Emergency Medicine, as selected by

emergency medicine residents

Grant/ Clinical Trials History:

A) Active

Funder: <u>Biomedical Advanced Research and Development Authority</u>

Topic: B-lines in COVID 19

Role: Site Primary Investigator; collaboration with Philips Healthcare

Percent effort: 20% Total costs: \$309,842

Project period: October 2020 – September 2021

Funder: <u>Caption Health Inc.</u>

Topic: Development of automated intelligence for lung ultrasound

Role: Primary Investigator

Percent effort: 10% Total costs: \$100,000

Project period: January 2021-present

Agency: <u>Department of Defense</u>

Grant #: pending

Title: Portable device for rapid vascular access in trauma and

hemorrhage control

PI: James Daley (Yale site PI)

Role: Co-investigator

Percent effort: 5%

Total costs: \$401,474 over three years
Project period: October 2020-September 2023

Funder: <u>Philips Healthcare</u>

Topic: Quantification of automated identification of B-lines

Role: Primary Investigator

Percent effort: 5% Total costs: \$98,899

Project period: August 2018-present

Funder: Gordon and Betty Moore Foundation

Topic: Improving Diagnosis in Pulmonary Embolism

Role: Technical Expert Panel

Project period: 2019-2020

Funder: Gordon and Betty Moore Foundation
Topic: Closing the Loop: Incidental Findings
Role: Technical Expert Panel, Co-Chair

Project period: 2019-2020

B) Past Grants

Agency: Agency for Healthcare Research and Quality

Grant #: R18HS023778

Title: "Minimizing Unnecessary Irradiation from Renal Colic CT Scans in

the United States"

PI: Chris Moore

Role: Primary Investigator

Percent effort: 20%

Total costs: \$1,224,666 over five years
Project period: April 2015-October 2020

Funder: <u>Diagnostica STAGO, Inc.</u>

Topic: Multicenter trial to determine the diagnostic accuracy of STA-

Liastest D-Di XL combined with a clinical pretest probability to

safely exclude PE and DVT

Role: Site Primary Investigator

Percent effort: 5%

Total costs: Net retained funds to department \$70K

Project period: June 2018-October 2020

Agency: Agency for Healthcare Research and Quality

Grant #: 1R113HS025664-01

Title: Challenges and Opportunities for Stewardship of Urological

Imaging

Role: Summit co-chair

Amount: \$24,950

Date/ location: October 21st 2017, American Urological Association, Baltimore MD Description: Multidisciplinary conference convening stakeholders from the

American Urological Association, American College of Emergency

Physicians, and American College of Radiology around

opportunities for collaborative patient safety / quality improvement work around the utilization of advanced imaging for patients with

urological conditions

Funder: <u>Philips Healthcare</u>

Topic: Automated identification of B-lines

Role: Primary Investigator

Total costs: \$34,976

Project period: September 2016 – August 2017

Funder: Janssen Pharmaceuticals

Topic: Outpatient treatment of ED patients with PE using Xarelto

Role: Site Primary Investigator

Total costs: \$30K

Project period: September 2016 – April 2017

Agency: Agency for Healthcare Research and Quality

Grant #: 1R01HS018322-01A1

Title: "Identifying unnecessary irradiation of patients with suspected

renal colic"

PI: Chris Moore

Role: Primary Investigator

Percent effort: 25%

Direct costs: \$1,208,123 over four years Project period: August 2010-May 2014

Agency: Agency for Healthcare Research and Quality

Grant #: 1R01HS018420-01A1

Title: "Emergency department disability diagnostic tool"

PI: Lori Post Role: Co-investigator

Percent effort: 10%

Revised January 15th 2021

Christopher L. Moore MD

Direct costs: \$1,509,023 over five years Project period: August 2010-May 2015

Funder: <u>Academy of Emergency Ultrasound, Society for Academic</u>

Emergency Medicine

Role: Primary Mentor

Costs: \$10,000 Project Period: 7/17-6/18

Mentee/project: James Daley; TAPSE in suspected PE

Funder: <u>Department of Emergency Medicine, Yale SOM</u>

Role: Primary Mentor

Costs: \$15,000 Project period: 9/17-6/18

Mentee/project: Jill Crosby; carotid flow measurement in simulated hypovolemia

Funder: <u>Emergency Medicine Foundation</u>

Title: CRUSH STUDY: Calculating Readmission Risk by Ultrasound for

Heart Failure

Role, mentee: Mentor for Dr. Joseph Pare

Costs: \$79,965 Project Period: 10/16-10/17

Funder: <u>Emergency Medicine Foundation</u>

Title: "Cardiac output in early sepsis as determined by emergency

physician echocardiography".

P.I.: Chris Moore, mentor for resident Jason Chang

Percent effort: 2%

Role on Project: Primary Investigator

Costs: \$5,000

Project period: 7/1/07-6/30/08

Agency: <u>NIH/STTR</u>

ID

Title: "Pre-test probability of pulmonary embolism".

P.I.: Dr. Jeffrey Kline

Percent effort: Site Primary Investigator

Direct cost per year: \$31,500 Total project cost: \$31,500

Project period: 9/1/05-8/31/06

Agency: <u>American College of Emergency Physicians</u>

ID

Title: "Community Ultrasound Survey"

Role: Primary Investigator

Percent effort: 3%
Direct cost per year: \$6565
Total project cost: \$6565

Project period: 9/1/03-8/31/04

Agency: <u>Emergency Medicine Foundation</u>

I.D. #: 200751

Title: "Determination of Left Ventricular Function in Hypotensive

Patients by Emergency Physician Echocardiography"

Role: Primary Investigator

Percent effort: N/A
Direct costs per year: \$2400
Total project cost: \$4800

Project period: 6/1/2000-5/31/2002

Agency: Lifeline Foundation

I.D. #:

Title: "The Effect of L-Arginine in Mediating Cardiac Dysfunction in

Hearts Obtained from Non-Heartbeating Donors"

Role on Project: Investigator (Fellowship)

Percent effort: N/A
Direct cost per year: \$2,000
Total project cost: \$2,000

Project period: 1/1/94-12/31/95

Invited Lectures and Teaching:

2021: Yale Point-of-care Ultrasound Course. Course director and lecturer, September

8-9, 2021, Newport RI.

2020: The Yale Point-of-care Ultrasound Course – Zoom! November 12th-13th 2020.

Course Director and lecturer.

2020: Case Western Ultrasound Section Zoom Grand Rounds. "The Right Ventricle".

October 2nd, 2020.

2020: Evolving Cardiac Dynamics with COVID-19 Patients- Experiences from US and

Europe. Zoom conference attended by 500 people for multidisciplinary

discussion of ultrasound in COVID-19. April 14th, 2020.

2020: Asociacion Colombiana de Especialistas en Medicina de Urgencias (ACEM),

"Impact of Ultrasound on the Quality of Care in the Emergency Department".

March 13th 2020. Cartagena, Colombia.

2020: Universidad Javierna, Grand Rounds "The Role of Ultrasound in Emergencies

– A New World", March 10th, 2020. Bogota, Colombia.

2020: Director, Yale Point-of-Care Ultrasound Course. Fort Lauderdale FL, March 4th-

6th 2020.

2019: New England Point-of-Care Ultrasound Course. Course founder, co-director

and lecturer to sold out ultrasound course. Newport RI, September 4-6th 2019.

2019: New England Point-of-Care Ultrasound Course. Course founder and lecturer to

sold out ultrasound course. Fort Lauderdale FL, March 5th-8th 2019.

| 2018: | Turkish Emergency Medicine Congress November 8 th -11 th , 2018, Antalya Turkey. Presented several lectures to an international audience with various ultrasound EM topics. |
|-------|---|
| 2018: | New England Point-of-Care Ultrasound Course. Course founder and lecturer to sold out course. Newport RI, September 5 th -7 th 2018. |
| 2018: | Northwest Anesthesia Seminars, lecturer, Topics in Emergency Medicine, Park City UT, March 2018. |
| 2018: | New England Point-of-Care Ultrasound Course. Course founder and lecturer. Clearwater FL, Feb/Mar 2018. |
| 2018: | Grand Rounds, University of Vermont Department of Emergency Medicine, January 8 th , Burlington VT. |
| 2017: | Grand Rounds, Department of Emergency Medicine, Stonybrook Medicine, November 1 st , Stonybrook NY. |
| 2017: | World Congress of Ultrasound in Medical Education (WCUME), "Developments in Point-of-care Ultrasound", October 13-15 th , Montreal Canada. |
| 2017: | New England Point-of-care Ultrasound Course, September 7-8 th , Newport RI. Course Director and lecturer to this sold out course hosting 80 clinicians. |
| 2017: | Northwest Anesthesia Seminars, Updates in Emergency Medicine, August 14-18 th , Anchorage AK, presented seven lectures to an international audience on various EM topics. |
| 2017: | American Institute of Ultrasound in Medicine (AIUM) Annual Meeting "Point-of-care Ultrasound in Valvular Disease", March 27 th 2017. Orlando FL. |
| 2017: | New England Point-of-Care Ultrasound Course. Course director and keynote lecturer. March 1 st -3 rd 2017. Clearwater FL. |
| 2016: | African Federation of Emergency Medicine Annual Meeting Pre-course on Point-of-care Ultrasound. Course director and lecturer. November 8 th -9 th 2016. Cairo, Egypt. |
| 2016: | American College of Emergency Physicians Scientific Assembly, "Emergency Ultrasound Management Course", October 15 th 2016, Las Vegas NV. |
| 2016: | Grand Rounds, St. Barnabas Hospital Department of Emergency Medicine, "Point-of-care Ultrasound in the 21 st Century", October 5 th 2016, Bronx, NY. |
| 2016: | Course Director and Keynote Lecturer, New England Point-of-care Ultrasound Course, September 8 th -9 th 2016, Newport RI. |
| 2016: | Invited speaker, "Frontiers in Critical Care Ultrasound", American Institute of Ultrasound in Medicine National Meeting, March 14th 2016, New York, NY. |



| 2014: | Grand Rounds, Echo in Emergency Ultrasound, Hutt Hospital, Lower Hutt, New Zealand, February 5, 2014. |
|----------------|---|
| 2014: | Teaching lectures on emergency ultrasound, Wellington Hospital, Wellington New Zealand. |
| 2013: | Keynote Speaker, Simposio Internacional Medicina de Urgencia (3 rd International Symposium on Emergency Medicine), Valdivia, Chile, November 21-22, 2013. |
| 2013: | Speaker and instructor, Pontificia Universidad Catolica de Chile Emergency Ultrasound Course, Santiago, Chile, November 19-20, 2013. |
| 2013: | Course Director, 5 th Annual New England Point-of-care Ultrasound Course, Newport RI, September 12-13, 2013. |
| 2013: | Grand Rounds, Department of Emergency Medicine, Stony Brook University, Stony Brook NY, September 4 th 2013. |
| 2013: | "Evaluation of the Right Heart in the Dyspneic Patient" American Institute of Ultrasound in Medicine National Meeting, New York NY, April 7 th 2013. |
| 2012: | Grand Rounds, University of Connecticut Department of Emergency Medicine. Hartford CT, June 21 2012. |
| 2012: | Society for Academic Emergency Medicine Academy of Emergency Ultrasound. "Academic advancement in emergency ultrasound and emergency medicine". Chicago IL, May 2012. |
| 2012: | Lecturer, AIUM Preconvention Course. "Advanced Cardiac Assessment". Point-of-care ultrasound in the evaluation and treatment of the unstable patient. |
| | Pheonix AZ, March 29 2012. |
| 2012: | Pheonix AZ, March 29 2012. Course Director, New England Emergency and Critical Care Ultrasound Course. Rio Mar Beach Resort, Puerto Rico, March 7-9 2012. |
| 2012: 2012: | Course Director, New England Emergency and Critical Care Ultrasound |
| | Course Director, New England Emergency and Critical Care Ultrasound Course. Rio Mar Beach Resort, Puerto Rico, March 7-9 2012. "Workflow in Emergency Ultrasound". Philips MEGA Conference, Orlando FL, |
| 2012: | Course Director, New England Emergency and Critical Care Ultrasound Course. Rio Mar Beach Resort, Puerto Rico, March 7-9 2012. "Workflow in Emergency Ultrasound". Philips MEGA Conference, Orlando FL, February 2, 2012. Keynote speaker, 2 nd International Conference on Visual Technology in Anesthesia, Pain Management, Critical Care, and Emergency Medicine. |

| 2011: | American Institute of Ultrasound in Medicine national meeting, moderator and organizer "Emergency Medicine Fellowship Director Seminar", New York NY |
|-------|---|
| 2011: | Grand Rounds, University of Massachusetts Department of Emergency Medicine, "Emergency ultrasound: the fourth decade", Worcester MA |
| 2011: | Faculty for hands-on teaching, Society for Simulation in Healthcare national meeting, "Evaluation of procedural competency in a simulated setting", New Orleans LA |
| 2010: | American Institute of Ultrasound in Medicine, "Ultrasound Assessment of Dyspnea", other lectures within "Cutting Edge Applications of Emergency and Critical Care Ultrasound", Orlando FL |
| 2010: | American College of Emergency Physicians (ACEP) Emergency Ultrasound Management Course "Equipment purchase", Les Vegas NV |
| 2010: | The New England Emergency and Critical Care Ultrasound Course, "Emergency echo" and other lectures, Foxwoods resort and casino, Ledyard CT |
| 2010: | Grand Rounds, Department of Emergency Medicine at Hartford Hospital: "Emergency ultrasound: putting it all together", Hartford CT |
| 2009: | American Institute of Ultrasound in Medicine, "Meet the professor: thoracic emergencies in critical care", New York NY |
| 2008: | American College of Emergency Physicians, Emergency Ultrasound Management Course, Chicago IL |
| 2008: | American Institute of Ultrasound in Medicine (AIUM) "Emergency Echocardiography in the Critically III and Injured Patient". San Diego CA |
| 2008: | AIUM, "Procedural Ultrasound in the Critically III and Injured Patient", San Diego CA |
| 2008: | The New England Emergency Ultrasound Course, "Emergency Echocardiograp hy", Foxwoods Resort, Ledyard CT |
| 2008: | Visiting professorship, "Introduction to Bedside Emergency and Critical Care UI trasound" Maribor, Slovenia |
| 2008: | The Heart Course. "Emergency Echocardiography", Boston MA |
| 2007: | "The Emergency Ultrasound Course". St. Francis Hospital, Hartford CT |
| 2007: | American College of Emergency Physicians (ACEP), "Emergency Ultrasound Management Course". Seattle WA |
| 2007: | American College of Emergency Physicians, "Ultrasound for Deep Venous Thr ombosis", Seattle WA |

| 2007: | Grand Rounds, Stonybrook University "Emergency Echo by the Emergency Physician", Port Jefferson, NY |
|-------|---|
| 2007: | Grand Rounds, Massachusetts General, "Emergency Echo by the Emergency Physician", Boston, MA |
| 2007: | World Congress in Ultrasound, "Bedside Ultrasound in Thoracic Pain", Paris, France |
| 2007: | Course Director and Lecturer, "Emergency Ultrasound in the Critically III and Injured Patient", American Institute of Ultrasound in Medicine pre-congress cours e, New York, NY |
| 2007: | Categorical Course Director and Lecturer, "Ultrasound Guidance for Emergent Procedures in the Critically III Patient". American Institute of Ultrasound in Medicine, New York, NY |
| 2006: | Hands-on instruction in sonographic anatomy, Yale University Medical School Anatomy Course, New Haven CT |
| 2006: | World International Network for Critical Ultrasound (WINFOCUS), 2 nd World Congress in Ultrasound, "Emergency Echo in Critical Care", and "Advanced Echo cardiography", NY, NY |
| 2006: | New York Academy of Medicine, New York Regional Emergency Ultrasound Conference, "Emergency Ultrasound in Acute Dyspnea", NY, NY |
| 2006: | American Institute of Ultrasound in Medicine, National Meeting, "Images in Emergency Ultrasound", Washington, D.C. |
| 2005: | American College of Emergency Physicians Scientific Assembly, "Vascular Ultrasound Skills", Washington, D.C. |
| 2005: | American College of Emergency Physicians Scientific Assembly, "Emergency Ultrasound Management Course", Washington, D.C. |
| 2005: | New York Academy of Medicine, New York Regional Emergency Ultrasound Conference, "Ultrasound For Pneumothorax", NY, NY |
| 2005: | Southern New England Emergency Ultrasound Course, "Emergency Echocardiography", Wallingford, CT |
| 2004: | American College of Emergency Physicians Scientific Assembly, "Venous Ultrasound Skills" San Francisco CA |
| 2004: | American College of Emergency Physicians, "Emergency Ultrasound Management Course", San Francisco, CA |
| 2004: | American Institute of Ultrasound in Medicine, "Evaluation of Dyspnea with Bedside Emergency Ultrasound", Phoenix AZ |

| 2004: | Society for Academic Emergency Medicine, "Ultrasound in Community Emergency Departments", Orlando, FL |
|-------|---|
| 2004: | Connecticut College of Emergency Physicians, Course Director, Southern New England Emergency Ultrasound Course, Wallingford, CT |
| 2003: | Connecticut Emergency Department Director's Meeting, Wallingford, CT "Emergency Physician Ultrasound in Community Emergency Departments" |
| 2003: | Connecticut College of Emergency Physicians Annual Meeting, "Emergency Echocardiography by the Emergency Physician" Mashantucket, CT |
| 2003: | American College of Emergency Physicians, "Introduction to Emergency Ultrasound Workshop", New Orleans, LA |
| 2003: | American College of Emergency Physicians, "Ultrasound in Community Emergency Departments", Boston MA. |
| 2003: | Society for Academic Emergency Medicine "Image Orientation in Bedside Echocardiography", Boston, MA |
| 2002: | American Academy of Emergency Medicine, "Introduction to Emergency Ultrasound", San Francisco, CA |
| 2001: | American College of Emergency Physicians, "Introduction to Pelvic Ultrasound", Chicago, IL |

Web-based teaching

2017-present Lead author for web-based ultrasound lectures at Practical Clinical Skills, www.practicalclinicalskills.com. Currently 10 online narrated lectures, more pending. Averaging 50-100 viewers per day, double from 2018.

Yale lead and site editor, ReelDx (www.reeldx.com); innovative company pursu 2013-present:

ing case based video teaching.

Editor and lecturer, Society for Academic Emergency Medicine web-based ultra 2006-2007:

sound lectures. Currently housed at www.eultrasound.us

Professional Service

Peer Review Groups/Grant Study Sections

| 2017 | NIH NIDDK Study Section ZRG1 DKUS-R (90) Urologic and |
|------|---|
| | Urogynecologic Applications. June 22nd 2017, Dallas TX (phone |
| | participation). |
| 2017 | NIH NHLBI R34 Clinical Pilot R34 Study Section. March 17th 2017. |
| | Bethesda MD (phone participation). |
| 2017 | NIH NIDDK Study Section ZRG1 DKUS-R (90) Urologic and |
| | Urogynecologic Applications. February 23 nd 2017, Alexandria VA. |

2016 NIH NHLBI Clinical Pilot R34 Study Section, October 27th 2016, Chevy

Chase MD.

2007-2012 Steering Committee, Pre-test Probability for Pulmonary Embolism

Database, Jeff Kline PI, Charlotte NC

Advisory Boards:

Technical Expert Panel Co-chair, "Closing the Loop: Incidental Findings", funded by Gordon and Betty Moore Foundation, 2019-2020.

Techenical Expert Panel, "Improving Diagnosis of Pulmonary Embolism", funded by Gordon and Betty Moore Foundation, 2019-2020.

Dia Imaging Analysis Ltd. Board of Directors 2018-present

ReelDx, Advisory Board.

2014-present

Health in Harmony and ASRI Clinic, Sukadana, Borneo, Indonesia. Ultrasound consultant. 2013-present

Nyaya Health, Advisory Board Member 2007-2011

Health Education and Relief Through Teaching (HEARTT)

2007-2012 Advisor, ultrasound implementation and education

Journal Service:

| 2011-2018 | Associate Editor, Academic Emergency Medicine |
|--------------|--|
| 2010-present | Advisory Editorial Board, Journal of Ultrasound in Medicine |
| 2008-present | Reviewer, Journal of Ultrasound in Medicine |
| 2006-present | Reviewer, American Association of Medical Colleges, MedPortal |
| 2005-present | Reviewer, Emergency Medicine Reports |
| 2005-present | Reviewer, Canadian Journal of Emergency Medicine |
| 2004-present | Reviewer, Academic Emergency Medicine |
| 2004-present | Reviewer, Trauma Reports |
| 2002-present | Abstract Reviewer, Society of Academic Emergency Medicine Annual |
| | Meeting |
| 2003-present | Abstract Reviewer, American Institute of Ultrasound in Medicine Annual |
| | meeting |

Professional Service for Professional Organizations:

American Institute of Ultrasound in Medicine

| 2014- 2016 | Annual Convention Committee member |
|--------------|------------------------------------|
| 2014-present | Fellow |
| 2010-2014 | AIUM Board of Governors |
| 2007-2014 | Senior Member |

| Chair, Emergency Ultrasound Section |
|--|
| Vice-Chair, Emergency Ultrasound Section |
| Secretary, Emergency Ultrasound Section |
| Clinical Standards Committee |
| Membership Committee |
| Continuing Education Committee |
| Member |
| |

American College of Emergency Physicians

| 2017-present | ACEP Emergency Quality Network (eQual) Subcommittee Chair, |
|--------------|--|
| | Multispecialty Panel for Renal Colic Imaging |
| 2010-2016 | ACEP Liaison to the Integrated Healthcare Enterprise (IHE) |
| 2008-2010 | Industry Roundtable Chair, Ultrasound Section, American College of |
| | Emergency Physicians |
| 2005-present | Fellow |
| 2000-present | Member |

Society for Academic Emergency Medicine

| 2014-2015 | Breakout group leader, Comparative Effectiveness in Emergency |
|--------------|--|
| | Medicine Consensus Conference on Diagnostic Imaging |
| 2013-2014 | Breakout group leader, Diagnostic Imaging group for Gender Research in |
| | Emergency Medicine Consensus Conference |
| 2014-2018 | SAEM liaison to ABMS/ACGME Ultrasound Fellowship committee |
| 2012-2014 | Research Officer and Board Member, Academy of Emergency Utrasound |
| 2005-2006 | Chair, Ultrasound Interest Group, Society for Academic Emergency |
| | Medicine |
| 1998-present | Member |
| • | |

World Interactive Network for Critical Ultrasound (WINFOCUS)

2005-present Founding member

Meeting Planning/Participation

| 2020: | Course Director, Yale Point-of-care Ultrasound Course (Zoom). November 12-13, 2020. |
|-------|--|
| 2020: | Course director, Yale Point-of-care Ultrasound Course, March 4-6 $^{\text{th}}$ 2020, Fort Lauderdale FL. |
| 2019: | Course director, Yale Point-of-care Ultrasound Course, September 4-6, 2020, Newport RI. |
| 2019: | Course director, Yale Point-of-care Ultrasound Course. March 5 th -8 th 2019, Clearwater FL. |
| 2018: | Course director, Yale Point-of-care Ultrasound Course. September 5-7, 2018, Newport RI. |

| 2018: | Course director, Yale Point-of-care Ultrasound Course. March 6 th -9 th 2018, Clearwater FL. |
|-------|--|
| 2017: | Co-chair, AHRQ Funded Summit <i>Challenges and Opportunities for Stewardship of Urological Imaging</i> . American Urological Association, Bethesda MD, November 2017. |
| 2017: | Course director, Yale Point-of-care Ultrasound Course. September 8^{th} - 9^{th} , 2017. Newport RI. |
| 2017: | Course director, Yale Point-of-care Ultrasound Course. March 1 st -3 rd 2017, Clearwater FL. |
| 2016: | Course director, Point-of-care Ultrasound Pre-course, African Federation of Emergency Medicine, November 2016, Cairo Egypt. |
| 2016: | Course co-director, "Yale New England Point-of-care Ultrasound Course", September 8-9, 2016, Newport RI. |
| 2016: | Course co-director and lecturer, "Yale Caribbean Point-of-care Ultrasound Course", February 2016, Miami FL. |
| 2015: | Course co-director and lecturer, "The New England Point-of-care Ultrasound Course", September 2015, Newport RI. |
| 2015: | Breakout Group Leader on Comparative Effectiveness Research, Society for Academic Emergency Medicine Consensus Conference on Imaging in the Acute Setting, San Diego CA May 2015 |
| 2015: | Course Co-director, The Yale Caribbean Point-of-care Ultrasound Course. San Juan PR March 2015. |
| 2014: | Course Director, Good Samaritan Medical Center Point-of-Care Ultrasound in Critical Care, Brockton MA |
| 2014: | Course Co-director, "The New England Emergency Ultrasound Course", Newport RI |
| 2014: | Breakout Group Leader on Diagnostic Imaging, Society for Academic Emergency Medicine Consensus Conference on Gender Research, Dallas TX |
| 2013: | Course Director, "The New England Point-of-care Ultrasound Course", Newport RI |
| 2013: | Course Director, "The Yale Caribbean Point-of-care Ultrasound Course" San Juan PR |
| 2012: | Course Director, "The New England Point-of-care Ultrasound Course", Newport RI |

| 2011: | Course Director, "The New England Emergency and Critical Care Ultrasound Course", Newport RI |
|-------|--|
| 2010: | Course Director, "Emerging Applications for Point-of-Care Ultrasound". Sponsored by the American Institute of Ultrasound in Medicine, Orlando, FL |
| 2010: | Course Director, third annual "New England Emergency and Critical Care Ultrasound Course". Foxwoods Resort, CT |
| 2009: | Course Director, second annual "New England Emergency and Critical Care Ultrasound Course". Foxwoods Resort, CT |
| 2008: | American College of Emergency Physicians, Industry Roundtable Meeting (Emergency Ultrasound Section), Chicago IL |
| 2008: | Course Director, "Emergency Ultrasound in the Critically III and Injured Patient". American Institute of Ultrasound in Medicine Annual Meeting, San Diego CA |
| 2008: | Course Director, "Hands-on Procedural Ultrasound in the Critically III and Injured Patient", American Institute of Ultrasound in Medicine, San Diego CA |
| 2008 | Course director, "New England Emergency Ultrasound Course", cosponsored by Yale and the Connecticut College of Emergency Physicians. Foxwoods Casino, Ledyard CT |
| 2007 | Course Director, "Ultrasound in the Critically III and Injured Patient", American Institute of Ultrasound in Medicine, NY NY |
| 2005 | Course director, "Connecticut College of Emergency Physicians Emergency Ultrasound Course", Shoreline Medical Center, Guilford CT |
| 2004 | Course director, "Connecticut College of Emergency Physicians Emergency Ultrasound Course", Wallingford CT |

Yale University Service:

Hospital Boards & Committees

| 2017-present | Lead, Yale Point-of-care Ultrasound Committee (YPUC), multispecialty group within Yale system |
|--------------|---|
| 2017-present | Liaison EPIC and ACR Select ED Imaging |
| 2014-present | Decision support for ED imaging; chair of PE Imaging Committee |
| 2012-present | Member, PE Rapid Response planning committee |
| 2004-2006 | Emergency Department Lynx Implementation Committee |
| 2008-2010 | New Emergency Environment of Care Committees (Concepts, Layout, |
| | Systems, and Interdisciplinary Design Team). |

Public Service:

2009-2017 Member, Guilford Board of Education, Guilford CT 2017-2019 Chair, School Start Times Task Force, Guilford CT

Bibliography:

- 1. Peer-Reviewed Manuscripts
 - 1. Yuan R, Plurde R, Shoemaker MR, **Moore CL**, Hanson DE. A mimic of a torsionally-distorted peptide state and the transition state for peptide bond hydrolysis: synthesis of a spiro[4.4]nonyl derivative. *J Organ Chem* 1995; 60:5360-5364.
 - 2. Cope JT, Mauney MC, Banks D, Binns OA, **Moore CL**, Rentz JJ, Shockey KS, King RC, Kron IL, Tribble CG. Intravenous phenylephrine preconditioning of cardiac grafts from non-heart-beating donors. *Ann Thorac Surg* 1997; 63:1664-1668.
 - 3. **Moore CL**, Rose GA, Arrowood JA, Sullivan DM, Tayal VS, Kline JA. Determination of left ventricular function in hypotensive emergency department patients by emergency physician echocardiography. *Acad Emerg Med* 2002; 9:186-193.
 - 4. **Moore CL**, Lambert MJ. Emergency ultrasound: diagnosis of deep venous thrombosis. *Emerg Med Reports* 2003; 24:11-27.
 - Moore CL, Gregg S, Lambert MJ. Performance, training, quality assurance, and reimbursement of emergency physician-performed ultrasound at academic medical centers. J Ultrasound Med 2004; 23:459-466.
 - 6. **Moore CL**, Promes S. Ultrasound in pregnancy. *Emerg Med Clin N Amer* 2004; 22:697-722.
 - 7. Chen L, Hsiao A, **Moore CL**, Dziura J, Santucci K. Utility of bedside bladder ultrasound before urethral catheterization in young children. *Pediatrics* 2005; 115: 108-111.
 - 8. Monico EB, **Moore CL**, Calise A. The impact of evidence-based medicine and evolvi ng technology on the standard of care in emergency medicine. *J Law Health Ethics* 2 005; 3(2).
 - 9. **Moore CL**, Molina A, Lin H. Ultrasound in community emergency departments in the United States: access to ultrasound performed by consultants and status of emergency physician performed ultrasound. *Ann Emerg Med* 2006; 47:147-153.
 - Moore CL, Todd WM, O'Brien EA, Lin H. Free fluid in Morison's pouch on bedside ultrasound predicts need for operative intervention in suspected ectopic pregnancy. *Acad Emerg Med* 2007; 14: 755-758.
 - 11. Chen L, Kim Y, **Moore CL**. Diagnosis and guided reduction of forearm fractures in children using bedside ultrasound. *Ped Emerg Care* 2007; 23: 528-531.
 - 12. **Moore CL**. Current issues with emergency cardiac ultrasound probe conventions. *Acad Emerg Med* 2008; 15: 278-284.

- 13. Kline JA, Courtney DM, Kabrhel C, **Moore CL**, et al. Prospective multicenter validation of the pulmonary embolism rule-out criteria. *J Thromb Haem*, 2008; 6: 772-780.
- 14. Kotlyar S, **Moore CL**. Assessing the utility of ultrasound in Liberia. *J Emerg Trauma Shock* 2008; 1:1: 10-14.
- 15. **Moore CL**, Holliday SR, Hwang JQ, Osborne MR. Screening for abdominal aortic aneurysm in asymptomatic at-risk patients using emergency ultrasound. *Am J Emerg Med* 2008; 26: 883-887.
- 16. Kabrhel C, Courtney DM, Camargo CA, Moore CL, Richman PB, Plewa MC, Nordenholz KE, Smithline HA, Beam DA, Brown MD, Kline JA. Potential impact of adjusting the threshold of the quantitative D-dimer based on pretest probability of acute pulmonary embolism. Acad Emerg Med, 2009; 16: 325-332.
- 17. **Moore CL**, Meyers AB, Capotasto J, Bokhari J. Prevalence of abnormal CT findings in patients with proven ovarian torsion and a proposed triage schema. *Emerg Radiol* 2009; 16: 115–120.
- 18. Schuster KM, Lofthouse R, **Moore CL**, Lui F, Kaplan LJ, Davis KA. Pulseless electrical activity, focused abdominal sonography for trauma, and cardiac contractile activity as predictors of survival after trauma. J Trauma, 2009; 67: 1154-1157.
- 19. Beam DM, Courtney DM, Kabrhel C, **Moore CL**, Richman PB, Kline JA. Risk of thromboembolism varies, depending on category of immobility in outpatients. *Ann Emerg Med* 2009; 54:147-152.
- 20. Courtney DM, Kline JA, Kabrhel C, Moore CL, Smithline HA, Nordenholz KE, Richman PB, Plewa MC. Clinical features from the history and physical examination that predict the presence or absence of pulmonary embolism in symptomatic emergency department patients: results of a prospective, multicenter study. *Ann Emerg Med* 2010; 55: 307-315.
- 21. Moore CL, Tham ET, Samuels KJ, McNamara RL, Galante NJ, Stachenfeld N, Shelley K, Dziura J, Silverman DG. Tissue Doppler of early mitral filling correlates with simulated volume loss in healthy subjects. *Acad Emerg Med* 2010; 17: 1162-1168.
- 22. Evans LV, Dodge KL, Shah TD, Kaplan LJ, Siegel MD, **Moore CL**, Hamann CJ, Lin ZQ, D'Onofrio GD. Simulation training in central venous catheter insertion: improved performance in clinical practice. *Acad Med* 2010; 85: 1462-1469.
- 23. Maru DS, Schwarz R, Andrews J, Basu S, Sharma A, **Moore CL**. Turning a blind eye: the mobilization of radiology services in resource-poor regions. *Globalization and Health* 2010; 6: 1-8.
- 24. Markowitz JE, Hwang JQ, **Moore CL**. Development and validation of a web-based assessment tool for the extended focused assessment with sonography in trauma examination. *J Ultrasound Med* 2011; 30:371-375.

- 25. **Moore CL**, Copel JA. Current concepts: point-of-care ultrasonography. *N Engl J Med* 2011; 364: 749-757.
- 26. **Moore CL**. Credentialing and reimbursement in point-of-care ultrasound. *Clin Ped Emerg Care* 2011. 12: 73-77.
- 27. Manson WC, Bonz JW, Carmody K, Osborne M, **Moore CL**. Identification of Sonographic B-lines with Linear Transducer Predicts Elevated B-Type Natriuretic Peptide Level. *West J Emerg Med* 2011; 12:102-106.
- 28. **Moore CL**. Ultrasound-guided procedures in emergency medicine. *Ultrasound Clin* 2011; 6: 277-289.
- 29. Gilbert JW, Johnson KM, Larkin GL, **Moore CL**. Atraumatic headache in US emergency departments: recent trends in CT/MRI utilisation and factors associated with severe intracranial pathology. *Emerg Med J* 2012; 29:576-581.
- 30. Kotlyar S, Larkin GL, **Moore CL**, D'Onofrio G. S100B Immunoassay: an assessment of diagnostic utility in minor head trauma. *J Emerg Med* 2011; 41: 285-293.
- 31. Taylor RA, Oliva I, VanTonder R, Elefteriades J, Dziura J, **Moore CL**. Point-of-care Focused Cardiac Ultrasound for the Assessment of Thoracic Aortic Dimensions, Dilation, and Aneurysmal Disease. *Acad Emerg Med* 2012; 19: 244-247.
- 32. Dodge KA, Lynch CA, **Moore CL**, Birosack BJ, Evans LV. Use of ultrasound guidance improves central venous catheter insertion success rates among junior residents. *J Ultrasound Med* 2012; 31: 1519-1526.
- 33. Venkatesh AK, Kline JA, Courtney DM, Camargo CA, Plewa MC, Nordenholz KE, **Moore CL**, Richman PB, Smithline HA, Beam DM, Kabrhel C. Evaluation of pulmonary embolism in the emergency department and consistency with a national quality measure: quantifying the opportunity for improvement. *Arch Intern Med* 2012; 1028-1032.
- 34. **Moore CL,** Scoutt Leslie. Sonography first for acute flank pain? *J Ultrasound Med* 2012; 31: 1703-1711.
- 35. **Moore CL** (chair of committee), "AIUM Practice Guideline: Use of ultrasound to guide vascular access procedures" *J Ultrasound Med* 2013; 32: 191-215.
- 36. **Moore CL**, Daniels B, Singh D, Luty S, Molinaro A, Gross C. Prevalence and Clinical Importance of Alternative Causes of Symptoms Using a Renal Colic Computed Tomography Protocol in Patients with Flank or Back Pain and Absence of Pyuria. *Acad Emerg Med* 2013; 20: 470-478.
- 37. Taylor RA, Davis J, **Moore CL**. Point-of-care Focused Cardiac Ultrasound for Prediction of Pulmonary Embolism Adverse Outcomes. *J Emerg Med* 2013; 45: 392-399.

- 38. Hall MK, Spiro DM, Sabbaj A, **Moore CL**, Hopkins KL, Meckler GD. Bedside optic nerve sheath diameter ultrasound for the evaluation of suspected pediatric ventriculoperitoneal shunt failure in the emergency department. *Childs Nerv Syst* 2013; 29: 2275-2280.
- 39. Thomas S, **Moore CL**. The Vanishing Target Sign: Confirmation of Intraluminal Needle Position for Ultrasound Guided Vascular Access. *Acad Emerg Med* 2013; 20: e17-e18.
- 40. Herbst MK, Rosenberg G, Daniels B, Gross CP, Singh D, Molinaro AM, Luty S, **Moore CL**. Clinician performed ultrasound for hydronephrosis in patients with suspected renal colic based on level of provider experience. *Ann Emerg Med* 2013; 20: 470-478.
- 41. Kotlyar S, Nteziyaremye J, Oluput-Oluput P, Akech SO, **Moore CL**, Maitland K. Spleen volume and clinical manifestations of severe *Plasmodium falciparum* malaria in African children. *Trans R Soc Trop Med Hyg* 2014; 108: 283-289.
- 42. Taylor RA, **Moore CL**. Accuracy of emergency physician-performed limited echocardiography for right ventricular strain. *Am J Emerg Med* 2014; 32: 371-374.
- 43. Lukasiewicz A, Bhargavan M, Coombs L, Ghita M, Weinreb J, Gunabushanam G, **Moore CL**. Radiation Dose Index of Renal Colic Protocol CT Scans in the United States: A Report from the American College of Radiology National Radiology Data Registry. *Radiology* 2014; 271: 445-451.
- 44. **Moore CL**, Bomann S, Daniels B, Luty S, Molinaro A, Singh D, Gross CP. Derivation and validation of a clinical prediction rule for uncomplicated ureteral stone the STONE score: retrospective and prospective observational cohort studies. *BMJ* 2014; 348: g2191.
- 45. **Moore CL.** Ultrasound first, second, and last for vascular access. *J Ultrasound Med* 2014; 33:1135-1142.
- 46. Ashurst JV, Cherny AR, Evans EM, Hall MK, Hess EP, Kline JA, Mitchell AM, Mills AM, Weigner MB, **Moore CL.** Research priorities for the influence of gender on diagnostic imaging choices in the emergency department setting. *Acad Emerg Med*, 2014; 21: 1431-1437.
- 47. Samim M, Goss S, Luty S, Weinreb J, **Moore CL**. Incidental findings on CT for suspected renal colic in emergency department patients: prevalence and types in 5,383 consecutive examinations. *J Am Coll Radiol*, 2015; 12:63-69.
- 48. Herbst MK, Camargo CA, Perez A, **Moore CL**. Use of point-of-care ultrasound in Connectictut emergency departments. *J Emerg Med*, 2015; 48: 191-196.
- 49. **Moore CL**, Daniels B, Ghita M, Gunabushanam G, Luty S, Molinaro AM, Singh Dinesh, Gross CP. Accuracy of reduced-dose computed tomography for ureteral stones in emergency department patients. *Ann Emerg Med*, 2015; 65: 189-198.

- 50. Hall MK, Coffey D, Herbst M, Liu R, Pare J, Taylor RA, Thomas S, **Moore CL**. The "5Es" of Emergency Physician-performed Focused Cardiac Ultrasound: a Protocol for Rapid Identification of Effusion, Ejection, Equality, Exit, and Entrance. *Acad Emerg Med*, 2015; 22: 583-593.
- 51. Hall MK, Rizzollo L, **Moore CL.** The student's dilemma, liver edition: Incorporating the sonographer's language into clinical anatomy education. *Anat Sci Education* 2015; 8: 283-288.
- 52. **Moore CL**, Broder, J, Gunn M, et al. Comparative Effectiveness Research: Alternatives to "Traditional" CT Use in the Acute Care Setting. *Acad Emerg Med* 2015; 22: 1465-1473.
- 53. Kanzaria HK, Hall MK, **Moore CL**, Burstin H. Emergency Department Diagnostic Imaging: The Journey to Quality. *Acad Emerg Med* 2015; 22:1380–4.
- 54. Pare JR, **Moore CL**. Intravenous Infiltration Resulting in Compartment Syndrome: A Systematic Review. *J Patient Saf* 2015; 00:1–3.
- 55. **Moore CL**. Does Ultrasound Improve Clinical Outcomes? Prove It. *Crit Care Med* 2015; 43: 2682–3.
- 56. Russell FM, **Moore CL**, Courtney DM, et al. Independent evaluation of a simple clinical prediction rule to identify right ventricular dysfunction in patients with shortness of breath. *Am J Emerg Med* 2015; 33: 542–7.
- 57. Daniels B, Gross CP, Molinaro A, Singh D, Luty S, Jessey R, Moore CL. STONE PLUS: Evaluation of Emergency Department Patients With Suspected Renal Colic, Using a Clinical Prediction Tool Combined With Point-of-Care Limited Ultrasonography. *Ann Emerg Med* 2016; 67: 439–48.
- 58. Pare JR, Liu R, **Moore CL**, et al. Emergency physician focused cardiac ultrasound improves diagnosis of ascending aortic dissection. *Am J Emerg Med* 2016; 34: 486–92.
- Hall MK, Omer T, Moore CL, Taylor RA. Cost-effectiveness of the Cardiac Component Trauma Examination in Blunt Trauma. Acad Emerg Med 2016; 23: 415– 23.
- 60. **Moore CL**, Daniels B, Singh D, Luty S, Gunabushanam G, Ghita M, Gross CP. Implementation of a Reduced Dose CT Protocol in ED Patients with Moderate to High Likelihood of Ureteral Stone. *Radiology* 2016; 280: 743-751.
- 61. Hall MK, Taylor RA, Luty S, Allen IE, **Moore CL**. Impact of point-of-care ultrasonography on ED time to disposition for patients with nontraumatic shock. *Am J Emerg Med* 2016; 34: 1022-30.
- 62. Hall MK, Hall J, Gross CP, Harish NJ, Liu R, Maroongroge S, **Moore CL**, Raio CC, Taylor RA. Use of Point-of-care Utlrasound in the Emergency Department. *J Ultrsound Med* 2016; 35: 2467-2474.

- 63. Gaspari R et al. Emergency department point-of-care ultrasound in out-of-hospital and in-ED cardiac arrest. *Resuscitation* 2016; 109: 33-39.
- 64. Pare JR, Liu R, **Moore CL,** Safdar B. Corrected flow time: a noninvasive ultrasound measure to detect preload reduction by nitroglycerin. *Amer J Emerg Med* 2016; 34: 1859-1862.
- 65. Daley J, Grotberg J, Pare J, Medoro A, Liu R, Hall MK, Taylor RA, **Moore CL.** Emergency physician performed tricuspid annular plane systolic excursion in the evaluation of suspected pulmonary embolism. *Amer J Emerg Med* 2017; 35: 106-111.
- 66. Liu RB, Donroe JH, McNamara RL, Forman HP, **Moore CL**. The Practice and Implications of Finding Fluid During Point-of-Care Ultrasonography. *JAMA Intern Med* 2017; 177: 1818-25. https://doi.org/10.1001/jamainternmed.2017.5048
- 67. Daniels B., Schoenfeld E, Taylor A, Weisenthal K, Singh D, **Moore CL**. Predictors of Hospital Admission and Urological Intervention in Adult Emergency Department Patients with Computerized Tomography Confirmed Ureteral Stones. *Journal of Urology* 2017; 198: 1359–1366. https://doi.org/10.1016/j.juro.2017.06.077
- 68. Gaspari R, Weekes A, Adhikari S, Noble V, et al.. (2017). A retrospective study of pulseless electrical activity, bedside ultrasound identifies interventions during resuscitation associated with improved survival to hospital admission. A REASON Study. *Resuscitation* 2017; 120: 103–107. https://doi.org/10.1016/j.resuscitation.2017.09.008
- 69. Revzin MV, Scoutt LM, Garner JG, **Moore CL**. Right Upper Quadrant Pain: Ultrasound First. *Journal of Ultrasound in Medicine* 2017; 36: 1975–1985. https://doi.org/10.1002/jum.14274
- Wang, RC, Addo N, Chi T, Moore CL, et al. (2017). Medical expulsive therapy use in emergency department patients diagnosed with ureteral stones. *American Journal of Emergency Medicine* 2017; 35: 1069–1074. https://doi.org/10.1016/j.ajem.2017.02.040
- 71. Malhotra A, Wu X, Forman HP, Grossetta Nardini HK, Matouk CC, Gandhi D, **Moore CL**, Sanelli P. Growth and Rupture Risk of Small Unruptured Intracranial Aneurysms: A Systematic Review. *Ann Intern Med* 2017; 167: 26-33.
- 72. Weisenthal K, Karthik P, Shaw M, Sengupta D, Bhargavan-Chatfield M, Burleson J, Mustafa A, Kalra M, **Moore CL**. (2018). Evaluation of Kidney Stones with Reduced-Radiation Dose CT: Progress from 2011-2012 to 2015-2016- Not There Yet. Radiology. 2018 Feb;286(2):581-589. https://doi.org/10.1148/radiol.2017170285.
- 73. **Moore CL**, McNamara K, Liu R. (2018) Challenges and Changes to the Management of Pulmonary Embolism in the Emergency Department. *Clin Chest Med*. 2018;39: 539-547. https://doi.org/10.1016/j.ccm.2018.04.009.
- 74. Pare JR, **Moore CL.** Intravenous Infiltration Resulting in Compartment Syndrome: A Systematic Review. *J Patient Safety* 2018; 14: e6-e8. PMID: 26241617

- 75. Taylor RA, **Moore CL**, Cheung KH, Brandt C: Predicting urinary tract infections in the emergency department with machine learning. *PLoS One* 2018; e.0194085. PMID: 29513742
- 76. Kotlyar S, Olupot-Olupot P, Nteziyaremye J, Akech SO, Uyoga S, Muhindo R, Moore CL, Maitland K: Assessment of Myocardial Function and Injury by Echocardiography and Cardiac Biomarkers in African Children With Severe Plasmodium falciparum Malaria. Pediatr Crit Care Med 2018; 19: 179-185. PMID: 29206727
- 77. Goehler A, **Moore CL**, Manne-Goehler JM, Arango J, D'Amato L, Forman HP, Weinreb J: Clinical Decision Support for Ordering CTA-PE Studies in the Emergency Department-A Pilot on Feasibility and Clinical Impact in a Tertiary Medical Center. *Acad Radiol* 2019; 26: 1077-83. PMID: 30389307
- 78. **Moore CL**, et al.. AIUM Practice Parameter for the Use of Ultrasound to Guide Vascular Access Procedures. *J Ultrasound Med* 2019; 38:E4-E18.
- 79. **Moore CL**, et al. Imaging in Suspected Renal Colic: Systematic Review of the Literature and Multispecialty Consensus. *Ann Emerg Med* 2019; 74: 391–399.
- 80. **Moore CL**, et al. Imaging in Suspected Renal Colic: Systematic Review of the Literature and Multispecialty Consensus. *J Am Coll Radiol* 2019; 16: 1132–1143.
- 81. **Moore CL**, et al., Imaging in Suspected Renal Colic: Systematic Review of the Literature and Multispecialty Consensus. *J Urol* 2019; 202:475–483.
- 82. Pan S, Su JJ, Syed J, **Moore CL**, Israel F, Singh D: Reduced Dose Computed Tomography: The Effects of Voltage Reduction on Density Measurements of Urolithiasis. *J Endourology* 2019; 33: 682-686.
- 83. Daley J, et al., **Moore CL**. Increased Sensitivity of Focused Cardiac Ultrasound for Pulmonary Embolism in Emergency Department Patients with Abnormal Vital Signs. *Acad Emerg Med* 2019.
- 84. Liu, R. B. *et al.*, **Moore CL.** Point-of-Care Ultrasound: Does it Affect Scores on Standardized Assessment Tests Used Within the Preclinical Curriculum? *J. Ultrasound Med.* 2019: 38: 433–440.
- 85. Liu, R. B. *et al.*, **Moore CL**, Cone DC. Guiding Cardiopulmonary Resuscitation with Focused Echocardiography: A Report of Five Cases. *Prehospital Emerg. Care* 2020; 24: 297–302.
- 86. Liu, R.B., et al., **Moore CL.** Ultrasound on the Frontlines of COVID-19: Report from an International Webinar. *Acad Emerg Med* 2020. Accepted in press online ahead of print doi:10.1111/ACEM.14004. PMID 32348585
- 87. Baloescu, C, Toporek Grzegorz, Kim Seungsoo, McNamara Katelyn, Liu Rachel, Melissa Shaw, Robert L. McNamara, Raju Balasundar, and **Moore CL**. 2020. "Automated Lung Ultrasound B-Line Assessment Using a Deep Learning Algorithm."

- *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control.* DOI 10.1109/TUFFC.2020.3002249
- 88. **Moore CL**, Kadom N, Seidenwurm D, et al. Incidental Findings: A Survey of Radiologists and Emergency Physicians. Journal of the American College of Radiology (JACR). In press 2021.
- 2. Case Reports, Technical Notes, Letters, Lay Press
 - 1. Mariani PJ, **Moore CL**, Kline J. Consent for emergency physician—performed echocardiography. *Acad Emerg Med* 2002; 9:1049.
 - 2. **Moore CL**. Surgeon performed ultrasound for pneumothorax in the trauma suite. *J Trauma* 2004; 57(3):681-682.
 - 3. **Moore CL**, Vasquez N, Lin H, Kaplan L. Major vascular injury after laparascopic tubal ligation. *J Emerg Med* 2005; 29:67-71.
 - 4. Schechter E, Lazar J, Nix EM, Mallon WK, **Moore CL**. Identification of subcutaneous myiasis using bedside emergency physician performed ultrasound. *J Emerg Med* 2007; 40:e1-3.
 - 5. Bomann JS, **Moore CL**, Bedside ultrasound of a painful testicle: before and after manual detorsion by an emergency physician. *Acad Emerg Med* 2009; 16(4): 366.
 - 6. Boman JS, **Moore CL**. Emergency department echocardiogram of right ventricle thrombus and Mcconnell's sign in a patient with dyspnea. *Acad Emerg Med* 2009; 16(5): 474.
 - 7. Bomann JS, Tham E, McFadden P, Krochmal P, **Moore CL**. Bedside ultrasound of a painful finger: Knavel's fifth sign? *Acad Emerg Med* 2009; 16(10): 1034-1035.
 - 8. Walsh B, Bomann JS, **Moore CL**. Diagnosing infective endocarditis by emergency department echocardiogram. *Acad Emerg Med* 2009; 16(6): 572-573.
 - 9. **Moore CL**. Why I ration care. Newsweek, 2009. November 2nd, page 13.
 - Noble VE, Blaivas M, Blankenship R, Chiricolo G, Dean A, Fox JC, Gaspari R, Hoffman B, Jones R, Moore CL, Sierzinski P, Tayal V, Tillotson R. Decision rule for imaging utilization in blunt abdominal trauma – where is ultrasound? *Ann Emerg Med* 2010; 55(5); 487-488.
 - 11. Sutijono D, Pace C, **Moore CL**. Emergency ultrasound diagnosis of a ruptured angiomyolipoma causing acute anemia. *Crit Ultrasound J* 2010; 1(3):123-5.
 - 12. Walsh B, Sutijono D, **Moore CL**. Emergency ultrasound diagnosis of a traumatic renal cyst rupture. *Crit Ultrasound J*; 2010; 1(3):127-8.
 - 13. Sutijono D, VanTonder R, **Moore CL**. Point-of-care Sonographic Diagnosis of Abdominal Wall Venous Thrombosis Associated With Inferior Vena Cava Ligation Masquerading as Cellulitis. *J ultrasound Med*. 2010;29:1643–1645.

- 14. **Moore CL**. Not-so-new dogs and not-so-old tricks: is there a middle ground for ED ultrasound? *Acad Emerg Med*. 2011; 18(3): 311-312.
- 15. Sutijono D, Bomann JS, **Moore CL**, vanTonder R. Twinkle twinkle little stone: utilizing color Doppler in emergency ultrasound diagnosis of ureterovesicular stone. *Crit Ultra J*. 2010;2(2):77-79.
- 16. **Moore CL**, Copel JA. Point-of-care ultrasound (letter and reply). *N Engl J Med*. 2011; 364(21): 2075-2076.
- 17. Raio C, Ash A, Nelson M, **Moore CL**. Outcome following high-dose methotrexate in pregnancies misdiagnosed as ectopic. *Am J Ob Gyn*. 2011, available online January 28, 2012.
- 18. Bomann S, VanTonder R, Hernandez S, **Moore CL.** Abdominal a-lines: a simpler sonographic sign of pneumoperitoneum? *Crit Ultra J* 2011; 3(1):41-42.
- Moore CL, et al., "Re: A survey of emergency physician-performed ultrasound: implications for academic radiology departments" *J Amer Coll Radiol*. 2012; 9(1): 81-82.
- 20. **Moore CL**. Time to abandon the term "3 in 1" Block. *Ann Emerg Med* 2015;66(2):215.
- 21. **Moore CL,** Daniels B, Luty S, Gross CP. The "Sinking" STONE. *Ann Emerg Med* 2016;68(1):131-2.
- 22. **Moore CL**, Daniels B, Gross CP, Luty S, Singh D. External Validation of the STONE Score. *Ann Emerg Med* 2016;67(2):301–2.
- 23. Pare JR, **Moore CL**. Defining fluid responsiveness by the velocity-time-integral alone? *J Ultra Med* 2016;35(2):459-460.
- 24. Gaspari, R. et al. Reply to Letter: Letter to the Editor regarding Gaspari and colleague's "Emergency department point-of-care ultrasound in out-of-hospital cardiac arrest" *Resuscitation* 2017;114:e7-e8.
- 25. **Moore CL**, Liu R. Not so FAST let's not abandon the pediatric focused assessment with sonography in trauma yet. *J Thoracic Dis* 2018; 10(1):1-3.
- 3. Reviews, Chapters, Books
 - 1. Blackbourne LH, editor (**Moore CL**, associate editor), Surgical Recall, 2nd edition. Williams and Wilkins, Baltimore, MD; 1998
 - Antevil JA and Moore CL, co-editors, Anatomy Recall. Williams and Wilkins, Baltimore, MD; 2000
 - 3. Tayal VS and **Moore CL**. Emergency Echocardiography, in: Emergency Ultrasound, Ma OJ (ed.), McGraw Hill; 2002

- 4. **Moore CL**, Contributor, Emergency Medicine Examination & Board Review, Susan Promes (ed.), McGraw Hill; 2005
- 5. **Moore CL**, Lin H, Echocardiography, in: Practical Guide to Emergency Ultrasound, John Kendall (ed.), Lipincott Williams and Wilkins; 2005
- 6. **Moore CL**. Emergency Pelvic Ultrasound, in: Ultrasound-Guided Procedures and Investigations, David Feller-Kopman (ed.), Marcell Dekker 2006.
- 7. **Moore CL**, Hwang J. Emergency Bedside Echocardiography. <u>Clinical Emergency Radiology</u>. Chris Fox (ed.), Cambridge University Press; 2008.
- 8. Carmody K, **Moore CL**, Feller-Kopmann D, editors, <u>Critical Care and Emergency Ultrasound Manual</u>, McGraw Hill; 2011.
- 9. **Moore CL**, Gender and Diagnostic Imaging. <u>Gender and Sex in Acute Care Medicine</u>, Cambridge University Press; 2016.
- 10. Liu R, **Moore CL**, Tayal V. Ultrasound Equipment Purchase. In <u>Ultrasound Program Management</u>, Springer; 2018.
- 11. Avila J, Combs J, **Moore CL**. Ultrasound for Abdomen and FAST. In <u>Ultrasound</u> Fundamentals: An Evidence-Based Guide for Medical Practitioners, Springer 2019.
- 12. Arthur J, Bomann S, **Moore CL.** Practicality of Ultrasound Emergency Medicine. In <u>Ultrasound Fundamentals: An Evidence-Based Guide for Medical Practitioners</u>, Springer 2019.