

Curriculum Vitae: updated February 9, 2024

I. IDENTIFYING DATA

Name	John L. Kendall, MD, FACEP
Current Position	Co-Director, Systemwide POCUS, Stanford Health Care Director of Ultrasound, Department of Emergency Medicine
Current Affiliation	Stanford University School of Medicine

II. EDUCATION HISTORY

Colleges and Universities Attended

09/1983 – 04/1987 BS Cum Laude (Biology), Pepperdine University, Malibu California

06/1988 – 12/1988 Fuller Theological Seminary, Pasadena, California

09/1988 – 06/1992 MD, University of Washington School of Medicine, Seattle, Washington

Residency and Fellowship Training

07/1992 – 06/1996 Residency, Emergency Medicine, Los Angeles County, University of Southern California, Los Angeles, California

Board Certification

1997, 2007, 2017 American Board of Emergency Medicine

III. EMPLOYMENT

Academic Appointments:

08/1997 – 12/1998 Instructor of Surgery, Emergency Medicine
University of Colorado School of Medicine,
Denver, CO

01/1999 – 06/2006 Assistant Professor of Surgery, Emergency
Medicine, University of Colorado School of
Medicine, Denver, CO

07/2006 – 12/2009 Associate Professor of Surgery, Emergency
Medicine, University of Colorado School of
Medicine, Aurora, CO

01/2010 – 06/2014	Associate Professor of Surgery, Emergency Medicine, University of Colorado School of Medicine, Aurora, CO
07/2014 – 12/2023	Professor of Emergency Medicine University of Colorado School of Medicine, Aurora, CO
01/2024 – Present	Professor of Emergency Medicine Stanford University School of Medicine Palo Alto, CA

Hospital Affiliations:

01/2017 – 12/2022	University of Colorado Hospital
06/1996 – 12/2023	Denver Health Medical Center
01/2024 – Present	Stanford Health Care

Other Appointments:

1996 – 1999	House staff Coordinator, Department of Emergency Medicine, Denver Health Medical Center
2002 – 2004	PGY-1 Liaison, Denver Health Residency in Emergency Medicine
2004	Assistant Residency Director, Denver Health Residency in Emergency Medicine
1999 – 2020.	Director, Emergency Ultrasound, Department of Emergency Medicine, Denver Health Medical Center
2001 – 2018	Foundations of Doctoring Mentor. University of Colorado School of Medicine
2005 – 2017	Director, Emergency Ultrasound Fellowship, Department of Emergency Medicine, Denver Health Medical Center
2011 – 2022	Course Director, EMED 8025 Clinical Bedside_Ultrasound, University of Colorado School of Medicine
2011 – 2014	Co-Founder and Co-Director: Foundations of Doctoring Ultrasound in Physical Exam Curriculum, University of Colorado School of Medicine
2014 – 2021	Director of Ultrasound Curriculum, University of Colorado School of Medicine

2015 – 2022	Co-Director of Ultrasound Curriculum, Rocky Vista University School of Medicine
2016 – 2018	Director of Education, Department of Emergency Medicine, University of Colorado School of Medicine
2018 – 2023	Director of Education, Department of Emergency Medicine Denver Health Medical Center
2018 – 2023	Vice Chair of Education, Department of Emergency Medicine University of Colorado School of Medicine
2020 – 2023	Director, Point-of-Care Ultrasound, Denver Health Medical Center
2024 – Present	Director of Ultrasound, Department of Emergency Medicine, Stanford University School of Medicine
2024 – Present	Co-Director, Systemwide POCUS, Stanford Health Care

IV. HONORS AND AWARDS

October, 1996	Resident of the Month, University of Southern California/Los Angeles County Emergency Medicine Residency
1996	Annual Resident Research Award, University of Southern California/ Los Angeles County Emergency Medicine Residency
1997	The Minotaur Award, Denver Health Medical Center Emergency Medicine Residency
1998	The Vincent J. Markovchick Residency Director's Award, Denver Health Medical Center Residency in Emergency Medicine
2003	Faculty Student Teacher of the Year Award, Denver Health Medical Center Emergency Medicine Residency
2005	Faculty Student Teacher of the Year Award, Denver Health Medical Center Emergency Medicine Residency
2006	Faculty Student Teacher of the Year Award, Denver Health Medical Center Emergency Medicine Residency
September, 2008	STAR Award, Denver Health Medical Center, Emergency Department

2010	Nominee, Faculty Professionalism Award, University of Colorado School of Medicine
2011	Inductee, Academy of Medical Educators, University of Colorado School of Medicine
2013	John Marx Education Award, Colorado Chapter, American College of Emergency Physicians
2016	Lifetime Service Award, Ultrasound Section, American College of Emergency Physicians
2017	Alumni of the Year, USC/Los Angeles County Residency in Emergency Medicine
2022	Legacy Award, Colorado Chapter, American College of Emergency Physicians

V. BIBLIOGRAPY

Peer-reviewed original research (74 total, 2 in press, 3 submitted)

1. Hatch EI, **Kendall JL**. Stomach position as an in-utero predictor of neonatal outcome in left-sided diaphragmatic hernia. *J Ped Surg* 27:778-780, 1992.
2. **Kendall JL**, Reynolds M, Goldberg R. Intranasal midazolam for treatment of status epilepticus. *Ann Emerg Med* 29:415-417, 1997.
3. **Kendall JL**, Anglin D, Demetriades D. Penetrating neck trauma. *Emerg Med Clin North Am* 16:85-105, 1998.
4. Heard K, **Kendall JL**, Abbott J. Rupture of ectopic pregnancy after medical therapy with methotrexate: A case series (Case Report). *J Emerg Med* 16:857-860, 1998.
5. **Kendall JL**, Mandavia D. Incidental findings during emergency sonographic examinations: a case series (Case Report). *Can J Emerg Med* 3:105-108, 2001.
6. **Kendall JL**, Shimp R. Performance and interpretation of focused right upper quadrant ultrasound by emergency physicians. *J Emerg Med* 21:7-13, 2001.
7. **Kendall JL**. Emergency imaging for the 21st Century: how does ultrasound fit in? *Emergency Medicine Practice* 3:1-24, 2001.
8. **Kendall JL** Ramos JP. Fluid filled bowel mimicking hemoperitoneum: a false-positive finding during sonographic evaluation for trauma (Case Report). *J Emerg Med* 25:79-82, 2003.

9. Abboud PA, **Kendall JL**. Emergency department ultrasound for hemothorax after blunt traumatic injury. *J Emerg Med* 25:181-184, 2003.
10. Weitzel N, **Kendall JL**, Pons P. Blind nasotracheal intubation in patients with penetrating neck trauma. *J Trauma* 56:1097-1101, 2004.
11. **Kendall JL**, Blaivas M, Hoffenberg S, Fox JC. History of Emergency Ultrasound. *J Ultrasound Med* 23:1130-1133, 2004.
12. Abboud PA, **Kendall JL**. Ultrasound guidance for vascular access. *Emerg Med Clin North Am* 22:749-773, 2004.
13. Knaut A, **Kendall JL**. Ultrasonographic measurement of aortic diameter by emergency physicians approximates results obtained by computed tomography. *J Emerg Med* 28:119-126, 2005.
14. **Kendall JL**, Hoffenberg SR, Smith RS. History of emergency and critical care ultrasound: the evolution of a new imaging paradigm. *Crit Care Med* 35:126-130, 2007.
15. **Kendall JL**, Faragher JP. Ultrasound-guided central venous access: a homemade phantom for simulation. *CJEM* 9:371-373, 2007.
16. Bahner D, Blaivas M, Cohen HL, Fox JC, Hoffenberg S, **Kendall J**, Langer J, McGahan JP, Sierzenski P, Tayal VS; American Institute of Ultrasound in Medicine. AIUM practice guideline for the performance of the focused assessment with sonography for trauma (FAST) examination. *J Ultrasound Med* 27:313-318, 2008.
17. Laselle B, Devey JS, **Kendall JL**. Female with right lower quadrant abdominal pain (Case Report). *Ann Emerg Med* 54:e8-9, 2009.
18. **Kendall JL**, Faragher JP, Hewitt G, Haukoos, JH. Ultrasound is not a sensitive detector of solid organ injury. *West J Emerg Med* 10:1-5, 2009.
19. Castro-Marín F, **Kendall JL**. Diagnosis of Lemierre syndrome by bedside emergency department ultrasound (Case Report). *J Emerg Med* 39:436-439, 2010.
20. Everett JJ, Laselle B, **Kendall JL**. Splenic injury sustained during body hardening drills and the utility of ultrasound in a pre-hospital combat medical environment (Case Report). *Military Medicine* 175:12-14, 2010.
21. Backlund B, Bonnett C, Faragher JP, Haukoos J, **Kendall JL**. Pilot study to determine the feasibility of training Army National Guard medics to perform focused cardiac ultrasonography. *J Prehosp Emerg Care* 14:118-123, 2010.

22. Windish R, Ungar T, Haukoos J, **Kendall JL**. Use of sterile saline as a conduction agent for ultrasound visualization of central venous structures. *Emerg Med Australasia* 22:116-119, 2010.
23. Liao M, Theoret J, Sanz G, Erickson C, **Kendall JL**. Emergency bedside ultrasound diagnosis of submassive acute pulmonary embolism: a case of the McConnell Sign (Case Report). *Crit Ultrasound J* 2:25-27, 2010.
24. Driver B, **Kendall JL**. Emergency ultrasound diagnosis of internal jugular vein thrombosis (Case Report). *Crit Ultrasound J* 2:85-86, 2010.
25. Sanz G, Theoret J, Liao M, Erickson C, **Kendall JL**. Contamination and cleanliness of emergency department ultrasound probes. *Can J Emerg Med* 13:384-389, 2011.
26. Theoret J, Sanz G, Erickson C, Liao M, **Kendall JL**. Guitar Pick Sign-Ultrasound Diagnosis of Retrobulbar Hemorrhage (Case Report). *Can J Emerg Med* 13:162-164, 2011.
27. Kestler AM, Haukoos JS, Whitaker KT, Adkisson M, **Kendall JL**. Blunt abdominal trauma patients are at very low risk for intra-abdominal injury after ED observation. *West J Emerg Med* 21:496-504, 2011.
28. Shockley L, **Kendall JL**. Artifact simulating fracture on cervical spine computed tomography (Case Report). *West J Emerg Med* 12:240-241, 2011.
29. Kim DJ, Welch M, **Kendall JL**. A case of cesarean scar ectopic: a rare but important form of ectopic pregnancy (Case Report). *Crit Ultrasound J* 3:55-57, 2011.
30. Backlund B, **Kendall JL**. Ultrasound guidance for central venous access by emergency physicians in Colorado. *West J Emerg Med* 13:320-325, 2012.
31. Kim DJ, **Kendall JL**. Fournier's gangrene and its characteristic ultrasound findings. *J Emerg Med* 44:99-101, 2013.
32. Kim DJ, Theoret J, Liao M, Hopkins E, Woolfrey K, **Kendall JL**. The current state of ultrasound training in Canadian emergency medicine programs: perspectives from program directors. *Acad Emerg Med* 19:1073-1078, 2012.
33. Laselle BT, Byyny RL, Haukoos JS, Krzyzaniak SM, Brooks J, Dalton TR, Gravitz CS, **Kendall JL**. False-negative FAST examination: associations with injury characteristics and patient outcomes. *Ann Emerg Med* 60:326-334, 2012.
34. Davis C, **Kendall JL**. An ultrasound of SMA dissection (Case Report). *J Emerg Med* 45:894-895, 2013.

35. Doubilet PM, Benson CB, Bourne T, Blaivas M, Barnhart KT, Benacerraf BR, Brown DL, Filly RA, Fox JC, Goldstein SR, **Kendall JL**, Lyons EA, Porter MB, Pretorius DH, Timor-Tisch IE. Diagnostic criteria for nonviable pregnancy early in the first trimester. *NEJM* 369:1443-1451, 2013.
36. McKaigney CJ, Krantz MJ, La Rocque CL, Hurst ND, Buchanan MS, **Kendall JL**. E-point septal separation: a bedside tool for emergency physician assessment of left ventricular ejection fraction. *Am J Emerg Med* 32:493-497, 2014.
37. Kim DJ, Theoret J, Liao M, **Kendall JL**. Experience with emergency ultrasound training by Canadian emergency medicine residents: a national survey. *West J Emerg Med* 15:306-311, 2014.
38. Buchanan M, Backlund B, Liao M, Sun J, Smith-Coggin R, Cydulka R, **Kendall JL**. Use of ultrasound guidance for central venous catheter placement: survey from the American Board of Emergency Medicine Longitudinal Study of Emergency Physicians. *Acad Emerg Med* 21:416-421, 2014.
39. Lewiss RE, Tayal, VS, Hoffmann B, **Kendall JL**, Liteplo AS, Moak JH, Panebianco N, Noble VE. The core content of clinical ultrasonography fellowship training. *Acad Emerg Med* 21:456-461, 2014.
40. Cohen HL, Langer J, McGahan JP, Bahner D, Blaivas M, Fox J, Geria RN, Hoffenberg S, **Kendall JL**, Raio C, Sierzenski P, Tayal VS, Wax J, Pellerito J, Bromley B, Fulgham P, Henningsen C, Levitov A, Noble V, Odibo A, Paushter D, Pretorius D, Sakhel K, Salem S, Smith J, Woodward P. AIUM practice guideline for the performance of the focused assessment with sonography for trauma (FAST) examination. *J Ultrasound Med* 33:2047-2056, 2014.
41. Ahn JS, French AJ, Thiessen MEW, Kendall JL. Training peer instructors for a combined ultrasound/physical exam curriculum. *Teach Learn Med* 26:292-295, 2014.
42. Erickson CS, Liao MM, Haukoos JS, Douglass E, DiGeronimo M, Christensen E, Hopkins E, Bender B, **Kendall JL**. Ultrasound-guided small vessel cannulation: long-axis approach is equivalent to short-axis in novice sonographers experienced with landmark-based cannulation. *West J Emerg Med* 15:824-830, 2014.
43. Emiley PJ, **Kendall JL**, Bellows JW. Acute hematogenous osteomyelitis of the rib identified on bedside ultrasound (Case Report). *J Emerg Med* 48:e15-17, 2015.
44. Vogel JA, Haukoos JS, Erickson CL, Liao MM, Theoret J, Sanz GE, **Kendall J**. Is long-axis view superior to short-axis view in ultrasound-guided central venous catheterization? *Crit Care Med* 43:832-839, 2015.
45. Ahn JS, French AJ, Thiessen MEW, Browne V, Deutchman M, Guiton G, Madigosky W, **Kendall JL**. Using ultrasound to enhance medical students' femoral

- vascular physical exam skills. *J Ultrasound Med* 34:1771-1776, 2015.
46. Schmidt JN, Smalley C, **Kendall JL**. Competency assessment of senior emergency medicine residents for core ultrasound skills. *West J Emerg Med* 16:923-926, 2015.
 47. Paull B, Kessler R, **Kendall JL**. Male with abdominal pain. Atraumatic splenic rupture in the setting of splenic vein thrombosis (Case Report). *Ann Emerg Med* 67:164-176, 2016.
 48. Townsend N, Barnett C, **Kendall JL**, Robinson T. An effective curriculum for focused assessment diagnostic echocardiography (FADE): establishing the learning curve in surgical residents. *J Surg Educ* 73:190-196, 2016.
 49. Rezaayat T, Stowell JR, **Kendall JL**, Turner E, Fox JC, Barjaktarevic I. Ultrasound-guided cannulation: time to bring subclavian central lines back. *West J Emerg Med* 17:216-221, 2016.
 50. Smalley C, Dorey A, Thiessen M, **Kendall JL**. A survey of ultrasound milestone incorporation into emergency medicine training programs. *J Ultrasound Med* 35:1517-1521, 2016.
 51. Kessler R, Stowell JR, Vogel JA, Liao MM, **Kendall JL**. Effect of intervention program on the utilization of PACS in point-of-care ultrasound. *J Dig Imaging* 29:701-705, 2016.
 52. Kim DJ, Byyny RL, Rice CA, Faragher JP, Nordenholz KE, Haukoos JS, Liao MM, **Kendall JL**. Test characteristics of emergency physician-performed limited compression ultrasound for lower extremity deep vein thrombosis. *J Emerg Med* 51:684-690, 2016.
 53. Smalley C, Thiessen M, **Kendall JL**. Number of weeks rotating in the ED has a greater effect on ultrasound milestone competency than a dedicated ultrasound rotation. *J Ultrasound Med* 36:335-343, 2017.
 54. Siegel-Richman Y, **Kendall JL**. Incidental findings in student ultrasound models: implications for instructors. *J Ultrasound Med* 36:1739-1743, 2017.
 55. Smith J, **Kendall JL**, Royer DF. Improved medical student perception of ultrasound using a paired anatomy teaching assistant and clinician teaching model. *Anat Sci Educ* 11:175-184, 2018.
 56. Stowell JR, Kessler R, Lewiss RE, Barjaktarevic I, Bhattarai B, Ayutyanont N, **Kendall JL**. Critical care ultrasound: a national survey across specialties. *Crit Ultrasound J* 46:167-177, 2018.

57. Canellas M, **Kendall JL**. The flipped classroom: addressing the ultrasound curriculum gap in undergraduate medical education. *Med Sci Educ* 28:303-307, 2018.
58. Morgan BB, Kao A, Trent SA, Hurst N, Oliveira L, Austin AL, **Kendall JL** Effect of emergency physician-performed point-of-care ultrasound and radiology department-performed ultrasound examinations on the emergency department length of stay among pregnant women at less than 20 weeks' gestation. *J Ultrasound Med* 37:2497-2505, 2018.
59. Siegel-Richman Y, **Kendall JL**. Establishing an ultrasound curriculum in undergraduate medical education: how much instructor time does it take? *J Ultrasound Med* 37:569-576, 2018.
60. Gritton CB, **Kendall JL**, Royer D. Worksheets: what are they good for? Perspectives on worksheet-based ultrasound curriculum in gross anatomy education. *The FASEB Journal* 30:609, 2019.
*contributed to the study design, data collection, data interpretation, and manuscript writing
61. Good RJ, Rothman KK, Ackil DJ, Kim JS, Orsborn J, **Kendall JL**. Hand motion analysis for assessment of nursing competence in ultrasound-guided peripheral intravenous catheter placement. *J Vas Access* 20:301-306, 2019.
62. Soon AW, Toney AG, Stidham T, **Kendall JL**, Roosevelt G. Teaching point-of-care lung ultrasound to novice pediatric learners: web-based e-learning versus traditional classroom didactic. *Ped Emerg Care* 36:317-321, 2020.
*contributed to the study design and manuscript writing
63. Thiessen M, Vogel JA, Byyny RL, Hopkins E, Haukoos JS, **Kendall JL**, Trent SA. Emergency ultrasound literature and adherence to standards for reporting of diagnostic accuracy criteria. *J Emerg Med* 58:636-646, 2020.
*contributed to the study design, data collection, and manuscript writing
64. Quan GE, **Kendall JL**, Bogseth MC, Ruygrok ML, Luoma KA, Louderback RZ, Pieracci F, Byyny RL. Predictors of false-negative FAST examination in pediatric blunt abdominal trauma. *Pediatr Emerg Care* 36:e274-e279, 2020.
*contributed to the study design, data collection, data interpretation, and manuscript writing
65. Bell CR, Szulewski A, Walker M, McKaigney C, Ross G, Rang L, Newbigging J, **Kendall JL**. Difference in gaze fixation location a duration between resident and fellowship sonographers interpreting a focused assessment with sonography in trauma. *AEM Educ Train* 5:28-36, 2020.

66. Ackil, DJ, Toney A, Good R, Ross D, Germano R, Sabbadini L, Thiessen M, Bell C, **Kendall JL**. Use of hand-motion analysis to assess competence and skill decay for cardiac and lung point-of-care ultrasound. *AEM Educ Train* 5:e10560, 2020.
67. Sabbadini L, Germano R, Hopkins E, Haukoos JS, **Kendall JL**. Ultrasound hypotension protocol time-motion study using the multifrequency single transducer versus a multiple transducer device. *West J Emerg Med* 22:775-781, 2021.
68. Hulse WN, Bell CR, Roosevelt GE, Sabbadini L, Germano R, Hopkins E, **Kendall JL**, Toney AG. Evaluation of a novel point-of-care ultrasound curriculum for first-year pediatric residents. *Ped Emerg Care* 38:605-608, 2022.
*contributed to the study design and manuscript writing
69. Adhikari S, Leo M, Liu R, Johnston M, Keehbauch, Barton M, **Kendall JL**. 2023 core content of Advanced Emergency Medicine Ultrasonography. *J Am Coll Emerg Physicians Open* 4:e13015, 2023.
70. Good RJ, Miller KR, **Kendall JL**, Czaja AS. Central venous catheter placement skill acquisition through apprenticeship training in clinical context during pediatric critical care medicine fellowship: a longitudinal study. *J Ped Int Care* (in press, 2023).
*contributed to the study design and manuscript writing
71. Brevik C, Miller D, **Kendall JL**, Michael S. Non-technically speaking: A review of tools and methods in the teaching and assessment of non-technical skills in emergency medical training. *AEM Educ Train* (in press, 2023).
*contributed to the study design and manuscript writing

Peer-reviewed publications (submitted)

72. Miller DT, Michael S, Brevik CH, Bell C, Kaplan B, Svoboda E, **Kendall JL**. Physical and biophysical markers of assessment in medical training: a scoping review of the literature. *Acad Med* (submitted July, 2023).
73. Tran TT, Wilson J, Riscinti M, Fuchita M, **Kendall JL**, Kaizer A, Ng P, Fernandez-Bustamante A. Pragmatic evaluation of point of care lung ultrasound for the triage of COVID-19 patients using a simple scoring matrix: interclass classification and predictive value. *Ultrasound Med Biol* (submitted July, 2023)
74. Riscinti M, Trent S, Janik S, Khalil P, Scheel, Breyer M, **Kendall JL**. Impact of tele-ultrasound by novice users in patients with suspected COVID-19 in an urgent care setting. *Crit Ultrasound J* (submitted August, 2023).

Peer-reviewed publications (other-1 total)

1. Biffel WJ, Moore EE, **Kendall JL**. Postinjury Torso Ultrasound: FAST Should be SLOH. *J Trauma* 48:781-782, 2000. (editorial)

Non-peer-reviewed articles (7 total, 1 in press)

1. **Kendall JL.** What is Emergency Ultrasound? *ACEP Ultrasound Section Newsletter* 8(1):1, 2004.
2. **Kendall JL.** What is Emergency Ultrasound? *Epic*, Colorado ACEP, 2004.
3. **Kendall JL.** From the Chair. *ACEP Ultrasound Section Newsletter* 2004; 8(2):1, 2004.
4. **Kendall JL.** Opportunity. *ACEP Ultrasound Section Newsletter* 8(4):2, 2004.
5. Vogel JA, **Kendall JL.** The authors reply. *Crit Care Med* 43:e597-598, 2015.
6. Vogel JA, **Kendall JL.** The authors reply. *Crit Care Med* 43:e396, 2015.
7. Vogel JA, **Kendall JL.** The authors reply. *Crit Care Med* 43:e473-474, 2015.
8. **Kendall JL,** Barton M. The AEMUS Focused Practice Designation: Updates and Lessons Learned. *ACEP Ultrasound Section Newsletter*, May, 2023.

Textbooks / Electronic Media (5 total)

1. **Kendall JL,** Deutchman M (eds). *Ultrasound in Emergency Medicine and Trauma (CD-ROM / Electronic Media)*. 1st ed. Nashville: HealthStream, Inc; 2001.
2. Cosby K, **Kendall JL** (eds). *Practical Guide to Emergency Ultrasound*. 1st ed. Philadelphia: Lippincott, Williams, and Wilkins; 2005.
3. **Kendall JL,** Deutchman M, Stahmer S (eds). *Challenger EM Ultrasound (CD-ROM / Electronic Media)*. 2nd ed. Nashville: Challenger, Inc; 2008.
4. Cosby K, **Kendall JL** (eds). *Practical Guide to Emergency Ultrasound*. 2nd ed. Philadelphia: Lippincott, Williams, and Wilkins; 2013.
5. McLario D, **Kendall JL** (eds). *Case Studies in Pediatric Emergency and Critical Care Ultrasound*. 1st ed. Cambridge: Cambridge University Press; 2013.

Book Chapters (29 total)

1. Orman RB, **Kendall JL:** Status epilepticus in the Emergency Department. *Medical Updates on Therapy, Diagnosis and Prevention* 1998.
2. **Kendall JL,** Branney S. Emergency Ultrasound. In Pons P, Markovchick V, editors. *Emergency Medicine Secrets*. 2nd ed. Philadelphia: Hanley and Belfus, Inc; 1999.

3. **Kendall JL.** Breathing and Ventilation. In Pons P, Markovchick V, editors. Emergency Medicine Secrets. 2nd ed. Philadelphia: Hanley and Belfus, Inc; 1999.
4. **Kendall JL.** Radial artery cannulation. In Rosen P, Chan TC, Vilke GM, Sternback G, editors. Atlas of Emergency Procedures. St. Louis: Mosby, Inc; 2001.
5. **Kendall JL, Bakes K.** Emergency Ultrasound. In Pons P, Markovchick V, editors. Emergency Medicine Secrets. 3rd ed. Philadelphia: Hanley and Belfus, Inc; 2002.
6. **Kendall JL.** Breathing and Ventilation. In Pons P, Markovchick V, editors. Emergency Medicine Secrets. 3rd ed. Philadelphia: Hanley and Belfus, Inc; 2002.
7. **Kendall JL, Colwell C.** Pericarditis and Myocarditis. In Pons P, Markovchick V, editors. Emergency Medicine Secrets. 3rd ed. Philadelphia: Hanley and Belfus, Inc; 2002.
8. **Kendall JL, Mandavia D.** Specific Organ Injuries. In Jehle D, Heller M. editors. Trauma Ultrasound, Dallas: *American College of Emergency Physicians*; 2003.
9. Mandavia D, **Kendall JL.** Pitfalls in Trauma Ultrasonography. In Jehle D, Heller M. editors. Trauma Ultrasound, Dallas: *American College of Emergency Physicians*; 2003.
10. Knaut A, **Kendall JL.** Penetrating Neck Trauma. In Wolfson AB. editor. Harwood-Nuss' Clinical Practice Emergency Medicine. 4th ed. Philadelphia: Lippincott Williams, and Wilkins; 2005.pp. 956-964.
11. Cosby K, **Kendall JL.** Right Upper Quadrant Ultrasound. In Cosby K, Kendall JL. editors. Practical Guide to Emergency Ultrasound. 1st ed. Philadelphia: Lippincott, Williams, and Wilkins; 2005. pp. 183-218.
12. Tayal V, **Kendall JL.** Trauma Ultrasound. In Cosby K, Kendall JL. editors. Practical Guide to Emergency Ultrasound. 1st ed. Philadelphia: Lippincott, Williams, and Wilkins; 2005. pp. 43-92.
13. **Kendall JL, Bakes K.** Emergency Ultrasound. In Pons P, Markovchick V. editors. Emergency Medicine Secrets. 4th ed. Philadelphia: Mosby, Inc; 2006. pp. 33-38.
14. **Kendall JL, Richards D.** Breathing and Ventilation. In Pons P, Markovchick V. editors. Emergency Medicine Secrets, 4th ed. Philadelphia: Mosby, Inc; 2006. pp. 157-161.
15. **Kendall JL, Colwell C.** Pericarditis and Myocarditis. In Pons P, Markovchick V. editors. Emergency Medicine Secrets. 4th ed. Philadelphia: Mosby, Inc; 2006. pp. 213-218.

16. **Kendall JL.** Spine Injuries. In Chapleau, Burba, Pons, and Page. editors. The Paramedic. 1st ed. New York: The McGraw-Hill Companies, Inc; 2008.
17. **Kendall JL,** Moreira ME. Evaluation of the adult with abdominal pain in the emergency department. Up-to-Date (March 6, 2008).
18. Backlund B, **Kendall JL.** Ultrasound in Trauma. Emergency Medicine & Critical Care, 2008; pp. 29-31.
19. Knaut A, **Kendall JL.** Penetrating Neck Trauma. In Wolfson AB. editor. Harwood-Nuss' Clinical Practice Emergency Medicine. 5th ed. Philadelphia: Lippincott Williams, and Wilkins; 2010. pp. 189-193.
20. **Kendall JL,** Backlund BH. Ultrasound. In Legome EL and Shockley LW. editors. Trauma: A Comprehensive Emergency Medicine Approach. 1st ed. Cambridge (UK): Cambridge University Press; 2011. pp. 471-488.
21. **Kendall JL.** Ultrasound in the Field. In Pons PT, Markovchick VJ. editors. Prehospital Pearls and Pitfalls. 1st ed. Shelton: People's Medical Publishing House; 2012. pp. 574-581.
22. **Kendall JL,** Moreira ME. Evaluation of the adult with abdominal pain in the emergency department. Up-to-Date (October 31, 2012).
23. Cosby K, **Kendall JL.** Right Upper Quadrant Ultrasound. In Cosby K, Kendall JL. editors. Practical Guide to Emergency Ultrasound. 2nd ed. Philadelphia: Lippincott, Williams, and Wilkins; 2013. pp. 133-155.
24. Laselle B, **Kendall JL.** Trauma Ultrasound. In Cosby K, Kendall JL. editors. Practical Guide to Emergency Ultrasound. 2nd ed. Philadelphia: Lippincott, Williams, and Wilkins; 2013. pp. 21-54.
25. Bahner DP, Adkins EJ, **Kendall JL.** Implementing Ultrasound into an Academic Emergency Department. In Cosby K, Kendall JL. (eds). Practical Guide to Emergency Ultrasound. 2nd ed. Philadelphia: Lippincott, Williams, and Wilkins; 2013. pp. 417-423.
26. **Kendall JL.** Leg pain and swelling in a 16-year-old male. In McLario D, Kendall JL (eds). Case Studies in Pediatric Emergency and Critical Care Ultrasound. 1st ed. Cambridge: Cambridge University Press; 2013
27. Moreira ME, **Kendall JL.** Evaluation of the adult with abdominal pain in the emergency department. Up-to-Date (March, 2014).
28. Moreira ME, **Kendall JL.** Evaluation of the adult with abdominal pain in the emergency department. Up-to-Date (October, 2015).

29. Morgan B, **Kendall JL**. Introductory education. In Tayal S. et al. (Eds): Ultrasound Program Management. 1st ed. Springer, 2018.

Abstracts (13 total)

1. **Kendall JL**, Shimp R. Performance and interpretation of limited right upper quadrant ultrasound by emergency physicians. *Acad Emerg Med* 5:408, 1998.
2. Grove JJ, **Kendall JL**, Pons PT. Pre-hospital airway management in patients with penetrating neck trauma. *SAEM* Western regional research forum 1998.
3. Knaut A, **Kendall JL**. Ultrasonographic measurement of abdominal aortic diameter by emergency physicians. 25th Annual Rocky Mountain Conference on Emergency Medicine, Snowmass, Colorado, 1999.
4. Burcham G, **Kendall JL**, Sikka S. Emergency Department ultrasound is not a sensitive detector of solid organ injury or hemothorax after blunt trauma. *Acad Emerg Med* 6:380-1, 1999.
5. Burcham G, **Kendall JL**, Sikka S. Emergency Department ultrasound is not a sensitive detector of solid organ injury or hemothorax after blunt trauma. 26th Annual Rocky Mountain Conference on Emergency Medicine, Breckenridge, Colorado, 1999.
6. Knaut A, **Kendall JL**. Ultrasonographic measurement of abdominal aortic diameter by emergency physicians. *Acad Emerg Med* 7:493, 2000.
7. Abboud P, **Kendall JL**. Can Emergency Department ultrasound be used reliably for detecting hemothorax after blunt traumatic injury? *Acad Emerg Med* 8:579, 2001.
8. **Kendall JL**, Deutchman M. Interactive multimedia CD-ROM to teach the emergency and trauma ultrasound skills. AIUM annual meeting, Orlando, FL 2001.
9. Weitzel N, **Kendall JL**, Pons P. Blind nasotracheal intubation in patients with penetrating neck trauma. *Ann Emerg Med* 40:S65, 2002.
10. Kestler A, Whitaker K, **Kendall JL**. Eight-hour Emergency Department observation for blunt abdominal trauma patients with initially negative diagnostic studies. *Society for Academic Emergency Medicine* Western regional research forum 2003, Tucson, AZ.
11. Whitaker K, Kestler A, **Kendall JL**. Eight-hour Emergency Department observation for blunt abdominal trauma patients with initially negative diagnostic studies. *Ann Emerg Med* 42:4, 2003.

12. Rice C, Faragher J, Byyny R, Haukoos J, Nordenholtz K, **Kendall JL**. Emergency physician compression ultrasonography for the detection of lower extremity deep venous thrombosis. *Acad Emerg Med* 16:s139, 2009.
13. Royer DF, **Kendall JL**. Clinical educators' views of a paired anatomy teaching assistant and clinician teaching model for ultrasound training during gross anatomy. *The FASEB Journal* 31:S1, 2017.

VI. GRANT FUNDING

Current:

10/1/21 – 9/25/23 Funder: RESTORAL Grant Research Program
Title: Deep learning and teleguidance of ultrasound performance by combat medics in the austere environment
Role: Principal Investigator

Submitted:

9/30/24 – 9/29/27 Funder: DoD Joint Warfighter Medical Research Program
Title: Deep learning-driven image acquisition tools to enhance diagnostic accuracy and prevent skill degradation by combat medics in the operational environment
Role: Principal Investigator

Completed:

10/01/20 – 9/30/21 Funder: DoD #211491
Title: Predictive modeling including point-of-care lung ultrasound (P-LUS) for emergency triage of patients with acute respiratory symptoms related to COVID-19
Role: Co-Investigator (Fernandez-Bustamante)

8/1/2016 – 8/30/17 Funder: COPIC Medical Foundation Grant
Title: Hand and Eye Motion Analysis as an Objective Measure of Procedural Competency
Role: Principal Investigator

VII. CLINICAL TRIALS

None

VIII. PATENTS

None

IX. EDITORIAL SERVICE

Editorial Positions

1996 – 1999 Co-Editor, Abstracts Section, *Annals of Emergency Medicine*

2014 – 2017 Editorial Board, *BioMed Central, Emergency Medicine*

Ad Hoc Reviewer

2005 – 2006 *Hospital Physician*

2004 – 2007 *Academic Emergency Medicine*

2008 – 2009 *International Journal of Emergency Medicine*

2006 – 2010 *Canadian Journal of Emergency Medicine*

2007 – 2011 *Western Journal of Emergency Medicine*

2011 *Pediatrics*

2009 – 2012 *Annals of Emergency Medicine*

2010 – 2012 *Critical Ultrasound Journal*

X. SERVICE AS A GRANT REVIEWER

2016 – 2018 Program for Advancing Clinician Educator, Department of Internal Medicine, University of Colorado School of Medicine

2022 Anschutz-Boulder Nexus (AB Nexus), University of Colorado

XI. UNIVERSITY ADMINISTRATION SERVICE

1997 – Present Denver Health Medical Center Residency in Emergency Medicine, Program Advisory Committee

1998 – 2017 Member, Transfusion Committee, Denver Health Medical Center

2002 – 2003 Search Committee, Director of Radiology, Denver Health Medical Center

2005 – 2007 Scholarship Oversight Committee, Pediatric Emergency Medicine Fellowship, The Children's Hospital

2005 Value Stream Analysis: Med-Surg Admission Process, Denver Health Medical Center

2007	Rapid Improvement Event: Emergency Department Physician Billing, Denver Health Medical Center
2009	Value Stream Analysis: Radiology, Denver Health Medical Center
2010	Chair, Emergency Department Physician Billing Task Force, Denver Health Medical Center
2009 – 2012	Executive Committee, Department of Emergency Medicine University of Colorado Denver School of Medicine
2010 – 2011	Emergency Department Physician Documentation Encounter Development, Denver Health Medical Center
2008 – Present	Member, Fellowship Executive Committee, Department of Emergency Medicine, Denver Health Medical Center
2010, 2013 – Present	Member, Promotions Committee, Department of Emergency Medicine, University of Colorado Denver School of Medicine
2010 – 2013	Member, Promotions Committee, University of Colorado School of Medicine
2011– Present	Member, Academy of Medical Educators, University of Colorado School of Medicine
2012	Membership Committee, Academy of Medical Educators, University of Colorado School of Medicine
2014 – Present	Member, Credentialing Committee, Denver Health Medical Center
2015 – 2018	Chair, Membership Committee, Academy of Medical Educators University of Colorado School of Medicine
2015	Chair, Faculty Professionalism Guidelines Development Working Group, Denver Health Medical Center
2015	Leadership in Translation Sciences (LiTES) Program, University of Colorado School of Medicine
2016 – Present	PGY-3 Clinical Competency Committee, Denver Health Medical Center Residency in Emergency Medicine
2017 – Present	Member, Executive Committee, Department of Emergency Medicine, University of Colorado School of Medicine

- 2017 Member, Department of Orthopedics Search Committee,
University of Colorado School of Medicine
- 2017, 2019 Chair, Orthopedic Director of Service Search Committee
Denver Health Medical Center
- 2022 Chair, Denver Health Residency in Emergency Medicine
Program Director Search Committee

XII. SERVICE TO PROFESSIONAL ORGANIZATIONS

- 2003 – 2004 Chair, American College of Emergency Physicians (ACEP),
Ultrasound Section
- 2005 President, Scientific Committee, 1st World Congress on
Ultrasound in Emergency and Critical Care, Milan, Italy
- 2004 – 2005 Chair, Imaging Criteria Development Task Force
(*Ann Emerg Med.* 2006 Oct;48(4):487-510.)
- 2006 Co-President, Scientific Committee, 2nd World Congress on
Ultrasound in Emergency and Critical Care, New York, New
York
- 2006 – 2008 Member, American College of Radiology, Imaging
Appropriateness Criteria Committee
- 2007 – 2018 Item Writer, Certification Exam, American Board of
Emergency Medicine (ABEM)
- 2011 – 2012 Member, ABEM Enhanced Multiple-choice Question (MCQ)
Advisory Panel
- 2011 – 2014 Member, ACEP Point of Care Fellowship Curriculum Writing
Group
- 2011 – 2013 ABEM/ACGME Ultrasound Fellowship Application Working
Group Leadership
- 2013 – 2017 Clinical Ultrasonography Task Force Member, ABEM
- 2013 – Present Oral Examiner, ABEM
- 2015 Oral Standard Setting Advisory Panel, ABEM
- 2015 – Present Senior Oral Case Reviewer, ABEM

2015 – 2022	Medical Advisory Board, Butterfly Network, Inc., Guilford, Connecticut
2017 – Present	Oral Case Development Committee, ABEM
2017 – 2018	Modified Singles Case Advisory Panel, ABEM
2018 – Present	MyEmCert Writing Panel, ABEM
2019 – Present	Director, American Board of Emergency Medicine
2020 – Present	Chair and Editor, Advanced Emergency Medicine Ultrasonography (AEMUS) Examination Committee, ABEM
2021 – Present	Director, American Board of Medical Specialties
2022	Member, Liaison Committee for Specialty Boards (LCSB)
2023 – Present	Executive Committee, American Board of Emergency Medicine
2021 – Present	Member, Competency Based Medical Education Task Force, American Board of Emergency Medicine

XIII. INVITED PRESENTATIONS (since 2014)

Grand Rounds:

1. 2020 “Your path to certification”, Emergency Medicine Grand Rounds, University of New Mexico, Albuquerque, New Mexico
2. 2021 “Pragmatic approach to POCUS”, Emergency Medicine Grand Rounds, Eastern Virginia Medical Center, Norfolk, Virginia
3. 2022 “Your path to certification”, Emergency Medicine Grand Rounds, Wright State University, Dayton, Ohio
4. 2022 “Pragmatic approach to POCUS”, Emergency Medicine Grand Rounds, University of Connecticut, Hartford, Connecticut

National and Regional Meetings:

5. 2014 “Point Counterpoint: Should Point-of-Care Ultrasound Become a Required Clinical Skill?”, 3rd World Congress on Ultrasound in Medical Education, Portland, Oregon

6. 2014 “Introductory Education”, ACEP, Emergency Ultrasound Management Course, Chicago, Illinois
7. 2014 “Venous Ultrasound”, ACEP Scientific Assembly, Chicago, Illinois.
8. 2016 “Ultrasound Literature You Need to Know”, Society for Clinical Ultrasound Fellowships Annual Meeting, Philadelphia, Pennsylvania
9. 2015 “The Ideal Ultrasound Device”, Butterfly Network Inc, Guilford, Connecticut
10. 2016 “Ultrasound in Continuing Medical Education”, World Congress in Ultrasound and Medical Education, Lubbock, Texas
11. 2016 “Ultrasound and the Physical Exam Curriculum: Research”, World Congress in Ultrasound and Medical Education, Lubbock, Texas
12. 2016 “Hand Carried Ultrasound: Past, Present, and Future”, Butterfly Network, Inc Guilford, Connecticut
13. 2016 “What’s New in Ultrasound: Applications You Can do Right Now”, Colorado ACEP Symposium, Denver, Colorado
14. 2018 “Ultrasound Literature You Need to Know”, Society for Clinical Ultrasound Fellowships Annual Meeting, Los Angeles, California

International Meetings:

15. 2018 “Point of Care Ultrasound: From Evolution to Revolution”, World International Forum on Ultrasound in Medicine, Hangzhou, China

IX. TRAINEES

Graduate students:

Dr. Nichole Townsend, 2015-2016, Research Program Advisory Committee, University of Colorado School of Medicine

Cory Buenting Gritton, 2022-present, Dissertation Committee, DuBusk College of Osteopathic Medicine

Undergraduate students:

Nathan Weitzel, University of Colorado, Foundations of Doctoring Mentee, 2001 – 2002

Heather Prouty, University of Colorado, Foundations of Doctoring Mentee, 2003 – 2004

Jon Cole, University of Colorado, Foundations of Doctoring, 2004 – 2005

Chad Lange, University of Colorado, Foundations of Doctoring, 2004 – 2006

Scott Samelson, University of Colorado, Foundations of Doctoring, 2006 – 2007

Brook Thurman, University of Colorado, Foundations of Doctoring, 2010 – 2013

Benjamin Saccomano, University of Colorado, Foundations of Doctoring, 2013 – 2015

Matthew Bezant, Denver Health, Longitudinal Integrated Curriculum, 2014 – 2015

Caitlin Heim, Denver Health, Longitudinal Integrated Curriculum, 2015 – 2016

Thien Lee, University of Colorado, Foundations of Doctoring, 2014 – 2016

Thien Lee, Denver Health, Longitudinal Integrated Curriculum, 2016 – 2017

Mario Hernandez, University of Colorado, Foundations of Doctoring, 2016 – 2018

Paul Eigenberger, Denver Health, Longitudinal Integrated Curriculum, 2017 – 2018

Christopher Le, Denver Health, Longitudinal Integrated Curriculum, 2022 – 2023

Kiley Cappetta, Denver Health, Longitudinal Integrated Curriculum, 2023 – 2024

Ultrasound Fellows (positions following graduation):

Dr. Jeffrey Faragher (2006, Director, Emergency Ultrasound, Everett Memorial Hospital)

Dr. Brandon Backlund (2007, Associate Director, Emergency Ultrasound, University of Washington)

Dr. Clifford Rice (2008, Co-Director, Emergency Ultrasound Division, Northshore Hospital)

Dr. Brooks Laselle (2008, Director, Emergency Ultrasound, Providence Sacred Heart Medical Center)

Dr. Catherine S. Erickson (2009, Director, Ultrasound Fellowship, Oregon Health Sciences University, Department of Emergency Medicine)

Dr. Jon Theoret (2009, Director, Emergency Ultrasound, Saint Paul Hospital)

Dr. Geoff Sanz (2009, Director, Emergency Ultrasound, Kelowna General Hospital)

Dr. Mike Liao (2009, Attending physician, Saint Antony's North, Department of Emergency Medicine)

Dr. Andy French (2010, Medical Director, Denver Health Medical Center, Department of Emergency Medicine)

Dr. Molly Thiessen (2010, Associate Director, Emergency Ultrasound, Denver Health Medical Center)

Dr. Dan Kim (2010, Director, Ultrasound Fellowship, Vancouver General Hospital, Department of Emergency Medicine)

Dr. David McLario (2010, Director, Emergency Ultrasound, Kosair Children's Hospital)

Dr. Nichole Hurst (2011, Director, Emergency Ultrasound, Balboa Medical Center)

Dr. Matt Buchanan (2011, Director, Emergency Ultrasound, Presbyterian Saint Luke's Hospital)

Dr. Conor McKaigney (2011, Assistant Director, Emergency Ultrasound, Queen's Hospital)

Dr. Amanda Kao (2012, Director, Emergency Ultrasound, Exempla Emergency Physician Group)

Dr. Cecily Reynolds (2012, Founder, International Ultrasound Education)

Dr. Justin Ahn (2012, Director, Emergency Ultrasound, Royal Columbian Hospital)

Dr. Courtney Smalley (2013, Assistant Director, Emergency Ultrasound, University of Colorado)

Dr. Amanda Toney (2013, Ultrasound Director, Pediatric Emergency Ultrasound, Denver Health Medical Center)

Dr. Ross Kessler (2014, Associate Director, Emergency Ultrasound, University of Michigan)

Dr. Jessica Schmidt (2014, Associate Director, Emergency Ultrasound, University of Wisconsin)

Dr. Jeff Stowell (2014, Associate Director, Emergency Ultrasound, Maricopa Medical Center)

Dr. Grahame Quan (2014, Associated Director, Emergency Ultrasound, Royal Columbian Hospital)

Dr. Audrey Herbert (2015, Ultrasound Faculty, Division of Emergency Ultrasound, Indiana University)

Dr. Brian Morgan (2015, Director, Point of Care Ultrasound, CarePoint Health)

Dr. Cindy Soon (2015, Pediatric Ultrasound Faculty, Flinders Medical Centre)

Dr. Colin Bell (2016, Director, Emergency Ultrasound, Kingston Hospital)

Dr. Rachel Chapman (2016, Attending physician, Medford Hospital)