

Department of Emergency Medicine
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Timothy Jang, MD

Education

June 2000-June 2004 Barnes-Jewish Hospital St. Louis, MO
Emergency Medicine Residency and Emergency Ultrasound Fellowship

1996-2000 University of California, San Diego La Jolla, CA
Doctor of Medicine

Board Certification and Licensure

Diplomate, American Board of Emergency Medicine, May 2005
Permanent, unrestricted medical licenses in California and Missouri

Professional experience

January 2009 – Present Harbor-UCLA Medical Center Torrance, CA
Director of Emergency Ultrasound
Oversee emergency ultrasound teaching, curriculum development, and research

July 2005-Dec 2008 Olive View-UCLA Medical Center Sylmar, CA
Director of Emergency Ultrasound

June 2004-Present Olive View-UCLA Medical Center Sylmar, CA
July 2004-Present St. Mary Medical Center Long Beach, CA
Attending Physician and Clinical Faculty, Emergency Department

2004-2005 Washington University St. Louis, MO
2003-2004 St. Anthony's Medical Center St. Louis, MO
2002-2004 St. Joseph's Medical Center St. Louis, MO
2003-2004 St. Louis University Hospital St. Louis, MO
Attending Physician, Emergency Department

Academic Experience

January 2004-present *Academic Emergency Medicine* Lansing, MI
Core Reviewer

September 2003-present *Annals of Emergency Medicine* Irving, TX
Core Reviewer, Top 40 Reviewers 2005 and 2007

March 2003-present ACEP Ultrasound Section Irving, TX
Reviewer, Journal Watch

November 2002-present AHA/BJS Training Center St. Louis, MO
Instructor, ACLS

November 2002-2004 IHM/Abbott Ambulance Center St. Louis, MO
Instructor, Paramedic Training

November 2002 St. Louis University St. Louis, MO
Instructor, Practical Anatomy Workshop
Teach and supervise critical procedures including cricothyrotomy, tube thoracostomy, central venous access, and difficult airway management

Ongoing Research

Principal Investigator for (1) Multicenter Assessment of Sonography for Small Bowel Obstruction (MASS), (2) Multicenter Assessment of Sonography for Abdominal Pain (MASAP), (3) Site-Rite Assessment of Deep Vein Thrombosis (SAD), (4) Multicenter Assessment of Hypokalemia in Diabetic Ketoacidosis

Peer-Reviewed Research Publications

Jang T, Naunheim R, Sineff S, Aubin C. Operator confidence correlates with more accurate abdominal ultrasounds by emergency medicine residents. *J Emerg Med* 2007 ; 33 :175-179.

Jang T, Uzbielo A, Sineff S, Naunheim R, Scott MG, Lewis LM. Point-of-care urine trypsinogen testing for the diagnosis of pancreatitis. *Acad Emerg Med* 2007 ; 14 :29-34

Naunheim RS, Jang T, Banet G, Richmond A, McGill J. Point-of-care test identifies diabetic ketoacidosis at triage. *Acad Emerg Med* 2006 ; 13:683-685

Jang T, Aubin C, Naunheim R, Char D. Ultrasound of the Internal Jugular Vein In Patients with Dyspnea without Jugular Venous Distention on Physical Exam. *Ann Emerg Med* 2004; 44:160-168

Jang T, Sineff S, Nauheim R, Aubin C. Residents should not independently perform focused abdominal sonography for traumas (FAST) after 10 training exams ! *J Ultrasound in Medicine*. 2004; 23:793-7.

Jang T, Docherty M, Aubin C, Polites G. Resident performed compression ultrasound for the evaluation of proximal deep vein thrombosis: fast and accurate. *Acad Emerg Med* 2004; 11:319-22

Jang T, Aubin C, Naunheim R. The minimum training standard for “novice” residents performing right upper quadrant ultrasonography. *Am J Emerg Med* 2004; 22:439-443.

Jang T, Kryder G, Char D, Howell R, Primrose J, Tan D. Prehospital spirituality: how well do we know ambulance patients? *Prehosp Disast Med* 2004; 19:356-361.

Abstracts and Presentations

Jang T, Rueggeri W, Dyne P. The learning curve of emergency medicine residents learning to perform limited biliary sonography. (poster presentation, ACEP 2006) *Ann Emerg Med*, 2006; 48:33.

Jang T, Rueggeri W, Dyne P. The learning curve of emergency medicine residents learning to perform limited obstetric sonography. (poster presentation, ACEP 2006) *Ann Emerg Med*, 2006; 48:105.

Jang T, Aubin C, Dyne P. The Minimum Training Standard for Emergency Physicians Performing Focused Obstetric Ultrasonography. (poster presentation ACEP 2005). *Ann Emerg Med* 2005; 45:S

Jang T, Aubin C, Naunheim R, Lewis L. Internal Jugular Ultrasound is More Accurate than Physical Examination and Chest Radiography in Diagnosing Congestive Heart Failure in Patients with Dyspnea. (oral presentation SAEM 2005). *Acad Emerg Med* 2005; 12(5)

Jang TB, Docherty M, Aubin C, Polites G. Resident-performed evaluation for deep vein thrombosis reduces time to diagnosis “after hours.” (poster presentation ACEP 2004). *Ann Emerg Med* 2004; 44:S81-S82.

Jang TB, Kryder GD, Tan D, Char DM. Does the evidence support the Joint Commission on Accreditation of Health Care Organizations' requirement for spiritual assessment? (poster ACEP 2004) *Ann Emerg Med* 2004; 44:S116.

Jang T, Kryder G, Sineff S, Naunheim R, Aubin C. The error rate and image quality of emergency medicine residents performing focused abdominal sonography for trauma: is there a learning curve? (oral presentation, SAEM 2004) *Acad Emerg Med* 2004; 11(5):567-568.

Jang T, Kryder G, Naunheim T, Naunheim R. The Brief Psychiatric Rating Scale accurately predicts the need for in-patient treatment of non-suicidal psychiatric patients in the emergency department (oral presentation, SAEM 2004) *Acad Emerg Med* 2004; 11(5):485.

Jang T, Kryder G, Char D, Howell R, Primrose J, Tan D. Spirituality in the emergency department: the difference between ambulance patients and clinicians (poster presentation, SAEM 2004). *Acad Emerg Med* 2004; 11(5):451-452.

Jang T, Uzbielo A, Sineff S, Scott M, Naunheim R, Lewis L. Urine trypsinogen: a quick and useful test for pancreatitis in the emergency department (poster presentation, ACEP 2003). *Ann Emerg Med*, 2003; 42(4S):S13

Jang T, Aubin C, Sineff S, Naunheim R. Resident confidence and accuracy of abdominal ultrasound (poster presentation, ACEP 2003). *Ann Emerg Med*, 2003; 42(4S):S88

Jang T, Aubin C. Resident ultrasonography in symptomatic first-trimester pregnancy and department length of stay (poster presentation, ACEP 2003). *Ann Emerg Med*, 2003; 41(4S):S88

Jang T, Docherty M, Aubin C, Polites G. Resident performed compression ultrasound for the evaluation of proximal lower extremity deep vein thrombosis: fast, accurate, and timely (oral presentation, SAEM 2003). *Acad Emerg Med* 2003; 10:427

Jang T, Aubin C, Sineff S. The learning curve for EP-performed focused abdominal sonography for trauma (FAST) exams in the detection of intraperitoneal free fluid (oral presentation, SAEM 2003). *Acad Emerg Med* 2003; 10:428

Jang T, Aubin C, Naunheim R, Sineff S. Quick-look sonography: a useful addition to the physical exam of patients with non-traumatic abdominal pain (oral presentation, AAEM 2003). *JEM*, 2003; 24(4):480.

Jang T, Aubin C, Naunheim R. The learning curve for "novice" EPs performing right upper quadrant US (oral presentation, AAEM 2003). *JEM*, 2003; 24(4):479

Jang T, Aubin C, Hall J, Sineff S. Accuracy of emergency physician-performed Focused Abdominal Sonography in Trauma Scan for the detection of free fluid and need for laparotomy (poster presentation, ACEP 2002). *Ann Emerg Med*, 2002; 40(4S):S18.

Jang T, Aubin C, Naunheim R. Emergency-physician performed right upper quadrant ultrasonography: accuracy, experience effect, and education (poster presentation, ACEP 2002). *Ann Emerg Med*, 2002; 40(4S):S76.

Jang T, Aubin C. Resident ultrasonography in symptomatic first-trimester pregnancy and department length of stay (abstract – Midwest SAEM 2001).

Swartzberg J, Jang T, Naunheim R, Najand H, Chauhan V. Incidence of hypokalemia in patients presenting to the emergency department with diabetic ketoacidosis. (poster presentation, ACEP 2007) *Ann Emerg Med*, 2007; 50:S52.

Wang CT, Jang T, Cundiff C, Chauhan V. Multi-center assessment of sonography for abdominal pain. (poster presentation, ACEP 2007) *Ann Emerg Med*, 2007; 50:S86-S87

Kryder GD, Jang TB, Tan D. Key factors in out-of-hospital intubation suggested further training. (poster presentation ACEP 2004). *Ann Emerg Med* 2004; 44:S10

Naunheim RS, Jang TB, Chu MB, et al. New point-of-care test identifies diabetic ketoacidosis in triage (poster presentation ACEP 2004). *Ann Emerg Med* 2004; 44:S111.

Schmidt R, Jang T, Schmidt L, Mullins M. Comparison of pediatric use of IV and oral N-acetylcysteine. (poster presentation, North American Congress of Clinical Toxicology 2003). *J Toxicol Clin Toxicol* 2003; 41:675.

Kryder G, Jang T, Tan D. Factors associated with EMS failure to attempt when indicated. (poster, National Association of EMS Physicians 2004) *Prehos Emerg Care* 2004; 8(1):96.

Hao QL, Thiemann FT, Smogorzewska E, Jang T, Crooks G. Transduction of CD34+CD38- cells in extended long term culture reflects quiescence of human hematopoietic stem cells. (abstract) *Blood*, 1995; 86(10S1):297a.

Price MA, Zhu JY, Barsky LW, Jang T, Crooks GM. GALV and amphotropic receptor expression in human hematopoietic subsets. (in submission)

Other Publications

Jang T. Jang's Pearls: Bupivacaine Reaction. www.EM-News.com (Jan 2009)

Jang T. Jang's Pearls: Ischemic Stroke? www.EM-News.com (Feb 2009)

Jang T. Jang's Pearls: Managing Diabetes and Asthma. www.EM-News.com (March 2009)

Jang T. Jang's Pearls: Dehydrated Toddler with vomiting and diarrhea. www.EM-News.com (April 2009)

Jang T. Jang's Pearls: Does this 12-year old need an x-ray? www.EM-News.com (May 2009)

Jang T, Poffenberger C. Cardiac Ultrasound. In *E-medicine Procedure Book* (on-line textbook chapter)

Jang T, Hemingway T. Ultrasound of Abdominal Aorta. In *E-medicine Procedure Book* (on-line textbook chapter)

Jang T, Chen J. Ultrasound in First-Trimester Pregnancy. In *E-medicine Procedure Book* (on-line textbook chapter)

Jang T. Ultrasound of the Gall Bladder. In *E-medicine Procedure Book* (on-line textbook chapter)

Jang T. Ultrasound in Trauma. In *E-medicine Procedure Book* (on-line textbook chapter)

Jang T. Ultrasound for Obstructive Uropathy. In *E-medicine Procedure Book* (on-line textbook chapter)

Jang T. Review of “Accuracy of emergency physician assessment of left ventricular ejection fraction and central venous pressure using echocardiography. Randazzo MR, Snoey E, Levitt A, Binder K. (Acad Emerg Med 2003; 10:973-977.) ACEP US Section Journal Watch, 2003; 8(1):3.

Jang T. Review of “Ultrasonography performed by primary care residents for abdominal aortic aneurysm screening: an innovative teaching model.” by Bailey R, Ault M, Greengold N, et al. (J Gen Intern Med. 2001; 16:845-849.) ACEP US Section Journal Watch, 2003; 8(1):11-12.

Jang T. Review of “Focused training of emergency medicine residents in goal-directed echocardiography: a prospective study.” by Jones AE, Tayal VS, Kline J. (Acad Emerg Med 2003; 10:1054-1058.) ACEP US Section Journal Watch, 2003; 8(1):12.

Jang T. Review of “Prospective study of accuracy and outcome of emergency ultrasound for abdominal aortic aneurysm over two years.” By Tayal et al (Acad Emerg Med 2003; 10(8):867-871). ACEP US Section Journal Watch, 2003; 7(4): 9.

Jang T. Review of “Elevated intracranial pressure detected by bedside emergency ultrasonography of the optic nerve sheath” by Blaivas et al (Acad Emerg Med 2003; 10(4):376-381). ACEP US Section Journal Watch, 2003; 7(3): 2.

Jang T. Review of “Comparison of perceived and actual times spent by residents performing ultrasound examinations on patients” by Blaivas and Theodoro (Acad Emerg Med 2003; 10(4):397-399). ACEP US Section Journal Watch, 2003; 7(3):2,11.

Jang T, Aubin C. The Use of Serial Ocular Ultrasounds in the Care of Head Injury Patients (letter to the editor). *Ann Emerg Med* 2005; 45:336-337.

Jang T, Sineff S, Aubin C, Naunheim R. Ultrasound and missed ectopic pregnancies (letter to the editor). *Ann Emerg Med*, 2004; 43(3):417-8

Jang T, Aubin C, Sineff S, Naunheim R. Ultrasound training. *Acad Emerg Med* 2003;10:1144-45

Jang T. Case #214 – Abdominal (Gallbladder) Ultrasound Case.

<http://ultrasound.saem.org>

Jang T. Case #216 – Trauma Ultrasound Case. <http://ultrasound.saem.org>

Jang T. Case #218 – Abdominal (Renal) Ultrasound Case.

<http://ultrasound.saem.org>

Jang T, Crane D, Levine M. Upper Extremity Injury. AAEM Template Pearls

Jang T, Naunheim R, Aubin C. Diagnosis of Hydronephrosis.

www.emed.wustl.edu

Jang T, Naunheim R, Aubin C. Diagnosis of AAA. www.emed.wustl.edu

Jang T, Katz E. The Choice of Stress Test in the ED. www.emed.wustl.edu

Halcomb E, Jang T, Levine M. Lower Extremity Pain. AAEM Template Pearls.
Heredia O, Jang T, Levine M. GI Bleed. AAEM Template Pearls.

Mullins ME, Schmidt RU, Jang TB. What is the rate of adverse events with intravenous versus oral N-acetylcysteine in pediatric patients? (letter). *Ann Emerg Med* 2004; 44:547-548.

Van Zweiten K, Mullins M, Jang T. Droperidol's safety and black box warning (letter to the editor). *Ann Emerg Med*, 2004; 43(1):139-40.