

Todd Anthony Guth, MD, MHPE

1. General Information

Work Address: University of Colorado
Department of Emergency Medicine
12401 East 17th Avenue
Aurora, CO 80045

Home Address: 9197 East 28th Place
Denver, CO 80238

2. Education

Medical and Undergraduate Education:

2000	Doctor of Medicine, with Honors University of Chicago, Pritzker School of Medicine
1995	Bachelor of Arts, Biological Sciences, with Honors John Carroll University

Graduate Medical Education:

2006-2010	Residency in Emergency Medicine Denver Health Medical Center Denver, CO
2000-2001	Internship in Internal Medicine National Naval Medical Center Bethesda, MD

Post-Graduate Education:

2019	Masters of Health Professions Education University of Illinois, Chicago Chicago, IL
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*Thesis Project for Completion in 2019: Validity Evidence for the Core
Physical Examination in Medical Students*

3. Physician Appointments

Current roles: *I work clinically as an Attending Physician at the University of Colorado Hospital on the Anschutz Medical Campus. I have previously worked in the United States Navy as part of a Health Professions Scholarship that I received for medical training. During my time in the Navy, I served as a flight surgeon on an aircraft carrier for two combat deployments and several humanitarian relief missions.*

Academic Appointments:

2019-Present	Associate Professor University of Colorado, School of Medicine Department of Emergency Medicine Anschutz Medical Campus Aurora, CO
2012-2018	Assistant Professor University of Colorado, School of Medicine Department of Emergency Medicine Anschutz Medical Campus Aurora, CO
2010-2012	Medical Education Research Fellow University of Colorado, School of Medicine Department of Emergency Medicine Anschutz Medical Campus Aurora, CO
2009-2010	Chief Resident, Emergency Medicine Denver Health Medical Center Denver, CO

Clinical Appointments:

2010-Present	Attending Physician University of Colorado Hospital Department of Emergency Medicine Anschutz Medical Campus Aurora, CO
2007-2010	Flight Surgeon, Colorado Air National Guard Buckley Air Force Base, Denver, CO
2004-2006	Flight Surgeon, Fleet Logistics Support Squadron THREE ZERO Naval Air Station North Island, CA

2002-2004 Flight Surgeon, Carrier Air Wing THREE
Naval Air Station Jacksonville, FL

2002-2004 Flight Surgeon, USS Harry S. Truman
Naval Station Norfolk, VA

4. Leadership Positions

Current roles: *I currently serve in two educational roles: one in the CUSOM undergraduate medical curriculum as the **Associate Director of Clinical Skills, Developing Our Clinical Skills course** and as an **Associate Program Director for the Denver Health Residency in Emergency Medicine**.*

National Positions:

2015-2012 Society of Academic Emergency Medicine (SAEM)
Sub-Committee Chair for Medical Student Symposium to the
Program Committee

2009-2011 Emergency Medicine Residents' Association (EMRA)
Academic Affairs Representative
Executive Member, Board of Directors
Chairman, EMRA National Educational Task Force

2009-2011 Council of Residency Director (CORD)
EMRA Resident Liaison to the Board of Directors

2010-2011 Society of Academic Emergency Medicine (SAEM)
EMRA Resident Liaison to the Board of Directors

Institutional Positions:

2020-Present Developing Our Clinical Skills, Associate Director of Clinical Skills

2011-2021 Foundations of Doctoring Course, Associate Director of Clinical Skills

2014-2020 Emergency Medicine Clerkship, Co-Clerkship Director

2013-2015 Foundations of Doctoring Course, Interim Director of Physical Examination

2011-2014 Emergency Medicine Clerkship, Assistant Clerkship Director

Departmental Positions:

2019-Present Denver Health Residency in Emergency Medicine, Associate Program
Director

5. Membership in Professional Organizations

Professional Societies:

2006-Present	Emergency Medicine Residents' Association (EMRA)
2006-Present	Society of Academic Emergency Medicine (SAEM)
2005-Present	American College of Emergency Physicians (ACEP)

6. Licensure and Certifications

2011	Emergency Medicine Board Certified, American Board of Emergency Medicine
2007	Medical License, State of Colorado, Current

7. Major Committee and Service Responsibilities

Current Committees: *With the National Board of Medical Examiners (NBME), I currently serve as a **fellow** of Strategic Educational Enhancement Fund (SEEF). In this role, I have been helping to better understand the assessment of clinical reasoning and bias in assessment in medical students. I currently serve as a Member of a **Subcommittee Chair** and **Committee Member for the Academic Affairs Committee** for the American College of Emergency Physicians. In this committee, I help address education and training issues that impact medical students, resident physicians, and practicing physicians. I also serve as the **Director of the Individualized Education Committee** for the Denver Health Residency in Emergency Medicine to provide remediation plans and develop success teams to support residents-in-training.*

National Committees:

2020-Present	NBME, Strategic Educational Enhancement Fund, Fellow
2010-Present	ACEP, Academic Affairs Committee, Member, Subcommittee Chair
2018-2022	USMLE Step 2 Clinical Skills Test Material Development Committee (TMDC), Member

2016	National Board of Medical Examiners (NBME), Served as a United States Medical Licensing Examination (USMLE) Step 2 Clinical Skills Pilot Standard Setting Panelist
2011-2015	SAEM, Annual Meeting Program Planning Committee, Member National Medical Student Symposium, Sub-Committee Chair

Institutional Committees:

2014-2020	Clinical Block Directors Committee, Member
2011-2020	Longitudinal Curriculum Committee, Member
2010-2016	Academy of Medical Educators, Executive Committee, Member

Departmental Committees:

2019-Present	Denver Health Residency in Emergency Medicine (DHREM), Individualized Education Committee, Director
2019-Present	DHREM, Education Committee, Recruitment Committee, Wellness Committee, Member
2015-Present	Department of Emergency Medicine, Clinical Pathways Committee, Member
2012-Present	Department of Emergency Medicine, Continuous Quality and Improvement Committee, Member
2009-Present	DHREM, Program Evaluation and Advisory Committee, Member

8. Honors, Special Recognition, and Awards

2022	Selection as a Fellow for the inaugural NBME SEEF Fellowship Program
2020	Kaplan Exams named the CUSOM Emergency Medicine Experience for medical students as the “Best Undergraduate Emergency Medicine Experience in the Country.”
2017	Selection as an Affiliate Faculty Member of the Center for Bioethics and Humanities at the University of Colorado School of Medicine

2016	Selection as a Member of the Academy of Medical Educators at the University of Colorado School of Medicine
2016	Selection as the Outstanding Clinical Educator in 2016 by the Graduating Class of 2016 at the University of Colorado School of Medicine
2013	EMRA Outstanding Contribution to Emergency Medicine Education Award as Editor-in-Chief of Resident as Educator Handbook
2012	Patient Safety and Quality Improvement Travel Scholarship and Award National Patient Safety Conference, "Transforming Mindsets"
2012	Outstanding Manuscript in Leadership and Organization Structure for MHPE 504 Course in Health Professions Master's Degree
2009	Outstanding Resident in Pediatric Emergency Medicine
2008	EMRA, Local Action Award Denver CARES Winter Clothing Drive
2000	University of Chicago, Pritzker School of Medicine Graduation with Honors
1995	John Carroll University Summa Cum Laude Outstanding Graduate of the Biological Sciences Alpha Sigma Nu, Jesuit National Honor Society Kolenich Award Outstanding Graduate in the Pre-Health Professions

9. Research Training and Education

2020-Present	NBME SEEF Fellowship Program
2010-2011	Teaching Scholars Program (Audited Program) University of Colorado, Academy of Medical Educators
2009-2010	Medical Education Research Certificate (MERC) Program Sponsored by Council of Residency Directors (CORD) and Association of American Medical Colleges (AAMC)
2009-2010	ACEP Teaching Fellowship ACEP Headquarters, Dallas, TX
2008-2009	ACEP Emergency Medicine Basic Research Skills (EMBRs) Workshop, ACEP Headquarters, Dallas, TX

10. Report of Teaching:

Teaching Focus:

*My teaching focuses upon **undergraduate medical education** but also includes **graduate medical education** and **continuing medical education**. The bulk of my teaching at the UCSOM and nationally has been focused on medical students as the target audience and as the subjective matter for presentations involving the **teaching of clinical reasoning**, the **remediation of challenging learners**, and the **teaching bedside clinical skills**. I have spoken nationally on the development of Resident as Educator programs and provided workshops on Resident as Educator topics. This work culminated in the publication of a Resident as Educator Handbook that is used by many emergency medicine residency programs as a resource for their resident as educator programs. **I was inducted into the Academy of Medical Educators based upon my direct teaching and curriculum development efforts in 2016**. In 2019, I was selected as an **Associate Program Director for the Denver Health Residency in Emergency Medicine**, to develop additional educational experiences in simulation and team communications; I also started the Individualized Education Committee for the residency.*

Undergraduate Medical Education:

2020-Present	Developing Our Clinical Skills, Associate Course Director, CUSOM
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2012- 2021	Foundations of Doctoring Curriculum, Associate Course Director, CUSOM
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Associate Director of Clinical Skills and Clinical Reasoning

Faculty Preceptor

Communications Small Group Coach

Physical Examination Small Group Facilitator

Interim Associate Director of Physical Examination (2013-2015)

Within the Foundations of Doctoring Curriculum and the Developing Our Clinical Skills, I serve as the primary faculty member for the development and implementation of the clinical reasoning sub-curriculum and for the development and implementation of the clinical skills assessments. I also serve as a small group facilitator for clinical skills sessions and as a faculty preceptor for students needing additional clinical hours or remediation of clinical skills for their preceptorship. I also provide remediation and coaching support for students who are needing to remediate clinical skills assessments. In 2021, we completely re-designed the clinical skills course at the CUSOM and rebranded the content into a new course.

2010-2020	Third-Year Clerkship in Emergency Medicine, University of Colorado School of Medicine
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Clerkship Co-Director

Facilitator of Problem-Based Learning Sessions

Facilitator of Simulation Sessions

Assistant Clerkship Director (2011-2014)

Within the Emergency Care Clerkship, I served as a co-director for the course and provide regular direct teaching for educational sessions, including our end of block inter-professional and team communications simulation. I have developed and implemented the educational materials used in the clerkship and serve as a Teaching Attending for students rotating on the clerkship.

2011-2012	Inter-Professional Education Curriculum Large Group Facilitator
2009-2012	Integrated Clinician's Course, University of Colorado School of Medicine Small Group Facilitator Root Cause Analysis Facilitator and Discussant

Graduate Medical Education:

2019-Present	DHREM, Associate Program Director
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As an Associate Program Director, I lead the third year Clinical Competency Committee and Individualized Education Committees and participate in a number of residency specific committees including the recruitment committee, the wellness committee, and the education committee.

2016-2019	Resident as Educator Module Director for DHREM
2011-2017	Gastroenterology and General Signs and Symptoms Module Director for DHREM
2010-2014	Evidence Based Emergency Medicine, Faculty Member, for DHREM
2009-2010	Residents as Teachers Course University of Colorado School of Medicine Small Group Facilitator

11. Selected Presentations and Lectures

Speaking Focus:

My primary areas of selected presentations and lectures involve 1) the development of clinical reasoning skills in medical students, 2) the teaching of clinical skills at the bedside, 3) the development of resident as educator programs, and 4) the remediation of struggling learners.

International Presentations:

“You are not born with it: Teaching intuitive reasoning” Invited workshop. Montreal International Clinical Reasoning Conference, 2014.

National and Regional Presentations:

“Programmatic Assessment of Clinical Reasoning in Medical Students.” NBME Invitational Conference for Educators, Philadelphia, PA, June 2022.

“SEEF Fellowship Panel.” NBME Invitational Conference for Educators, Philadelphia, PA, June 2021.

“Teaching Procedural Skills: It’s not do one, see one, teach one anymore.” ACGME National Meeting, Orlando, FL March 2017.

“Taking Advantage of the Teachable Moment: A Workshop for Efficient, Learner Centered Clinical Teaching.” SAEM National Meeting, New Orleans, LA May 2016.

“Stump the Experts: Solving Challenging Cases in Remediation.” SAEM National Meeting, New Orleans, LA May 2016.

“Effective Bedside Teaching” for the Chief Resident Academic Leadership Forum at the SAEM National Meeting, New Orleans, LA May 2016.

“Inter-professional Education in the Emergency Medicine Clerkship.” CORD Academic Assembly, Nashville, TN March 2016.

“Diagnosing and Treating the Struggling Learner.” SAEM National Meeting, San Diego, CA May 2015.

“Teaching Procedural Skills: It’s not do one, see one, teach one anymore.” SAEM National Meeting, San Diego, CA May 2015.

“Is it bad? Introversion in EM Bound Students and Residents.” CORD Academic Assembly, Phoenix, AZ March 2015.

“Teaching Intuitive Clinical Reasoning: Helping Novices Become Experts.” CORD Academic Assembly, New Orleans, LA March 2014.

“Teaching the Difficult Learner Workshop.” CORD Academic Assembly, New Orleans, LA March 2014.

“The Why, What, and the How for Developing Physician as Educator Programs for Residents or Medical Students.” SAEM National Meeting, Dallas, TX May 2014.

“Effective Use of Clinical Teaching Models.” ACGME National Meeting, Washington DC, March 2014.

Taking Advantage of the Teachable Moment: A workshop for efficient, learner centered clinical teaching.” SAEM National Meeting, Atlanta, GA May 2013.

“Deliberate Metacognition: Teaching learners how to think about how they think.” CORD Academic Assembly, Denver, CO March 2013.

“Resident as Teacher Workshop.” CORD Academic Assembly, Denver, CO March 2013

“Resident as Educator: Clinical Teaching Scripts and Bedside Teaching.” ACEP Scientific Assembly, Resident Track, Denver, CO October 2012.

“Resident as Educator: Learner Centered Teaching” ACEP Scientific Assembly, Resident Track, San Francisco, CA October 2011.

“Understanding Medical Liability Reform” and “Availability of On-call Specialists for Emergency Departments” Small group facilitator. ACEP Leadership and Advocacy Conference, Washington DC, May 2011.

“Chief Resident Panel” served as Panel Moderator and Panel Member, SAEM Annual Meeting, Chief Resident Forum, Boston, MA June 2011.

“Medical Student Forum - Resident Panel” served as Panel Moderator, SAEM Annual Meeting, Medical Student Symposium, Boston, MA, June 2011.

“Top Ten Mistakes to Avoid in Residency” SAEM Western Regional Meeting, Keystone, CO February 2011.

“Rural Workforce Issues in Emergency Medicine” and “Funding Graduate Medical Education” Small group facilitator. ACEP Leadership and Advocacy Conference, Washington DC, May 2010.

Institutional Presentations:

“Co-production: Educational Coaching and Assessment” Grand Rounds, Department of Emergency Medicine, University of Alabama – Birmingham, March 2023.

“Thinking Fast and Thinking Slow.” Peer Review Case Conference, Department of Family Medicine, Saint Joseph Hospital, Denver, October 2019.

“How to Think Like a Doctor.” University of Colorado School of Medicine Mini Med School: The Clinical Years, Aurora, September 2019.

“Thinking About Your Thinking.” Grand Rounds for Department of Emergency Medicine and Urgent Care, Saint Joseph Hospital, Denver, April 2019.

“Introduction to Advocacy in Colorado.” Inaugural Advocacy Day for Denver Health Residency in Emergency Medicine, Denver, April 2013.

“Learning Centered Case Based Teaching” Chief Resident Retreat for University of Colorado Chief Residents, Academy of Medical Educators, Denver, April 2012

“Evidence-Based Emergency Medicine on the Fly” an interactive workup for use of evidence-based emergency medicine resources while working clinically. Evidence-Based Emergency Medicine Course, DHREM, Denver, October 2011.

“When Mistakes Happen: The Authentic Apology” a small group workshop for the introduction to the conversation of medical error by physicians with their patients, DHREM, Denver, December 2011.

“Learner-Centered Teaching Scripts” a small group workshop for the introduction of both SNAPPS and One-Minute Preceptor teaching scripts, DHREM 2010, and Department of Emergency Medicine Faculty Retreat, Denver, November 2011.

12. Research and Publications

Research Focus:

*My published research focuses on the development of **medical education research fellowships** in emergency medicine and **bedside teaching skills**. I have begun to disseminate scholarship on the development of **clinical reasoning curricula**, the development of **inter-professional, team-based simulations** in emergency medicine, and validity evidence for the use of the **core physical examination** in clinical skills training. Most recently, I have explored programmatic assessment as a framework to assess clinical skills. Other areas of interest in scholarship include 1) the development of assessments in both graduate and undergraduate medical education with a focus on clinical reasoning, team communication, and clinical skill development, 2) the development of inter-professional educational experiences in the clinical environment, and 3) the development of curricula and educational materials to develop residents as educator programs.*

Peer-Reviewed Articles:

Singh R, Huang S, **Guth T**, Konieczkowski M, Sedor JR. Cytosolic domain of the type I interleukin-1 receptor spontaneously recruits signaling molecules to activate a proinflammatory gene. J Clin Invest. 1997 Jul 15;100(2):419-28.

Meltzer D, Manning WG, Morrison J, Shah MN, Jin L, **Guth T**, Levinson W. Effects of physician experience on costs and outcomes on an academic general medicine service: results of a trial of hospitalists. *Ann Intern Med*. 2002 Dec 3;137(11):866-74.

Theoret J, Sanz GE, Matero D, **Guth T**, et al. The “guitar pick” sign: a novel sign of retro-bulbar hemorrhage. *CJEM*. 2011 May;13(3):162-4.

Schmitz GR, Clark M, Heron S, Sanson T, Kuhn G, Bourne C, **Guth T**, Cordover M, Coomes J. Strategies for coping with stress in emergency medicine: Early education is vital. *J Emerg Trauma Shock* 2012;5:64-9.

Yarris LM, Coates WC, Lin M, Lind K, Jordan J, Clarke S, **Guth TA**, Santen SA, Hamstra SJ. Consensus Proceedings: A Suggested Core Content for Education Scholarship Fellowships in Emergency Medicine. *Academic Emergency Medicine* 2012; 19: 1425–1433.

Coates WC, Lin M, Clarke S, Jordan J, **Guth T**, Santen SA, Yarris LM. Defining A Core Curriculum for Education Scholarship Fellowships in Emergency Medicine *Academic Emergency Medicine* 2012; 19: 1411–1418.

Kraus CK, **Guth TA**, Richardson D, Kane B, Marco CA. Ethical considerations in education research in emergency medicine. *Acad Emerg Med*. 2012 Dec;19(12):1328-32. doi: 10.1111/acem.12019. Epub 2012 Dec 5.

Guth TA. Commiseration with a frontier trapper: a reflection by a first-year attending Emergency Physician. *J Emerg Med*. 2013 May;44(5):1017-8.

Jordan J, Yarris L, Santen S, **Guth TA**, Rougas S, Runde D, Coates W. Creating a Cadre of Fellowship-Trained Medical Educators: A Formal Needs Assessment to Structure Post-Graduate Fellowships in Medical Education Scholarship and Leadership. *Acad Med*. 2016 Dec;91(12):1585-1707.

Coates W, Runde D, Yarris L, Rougas S, **Guth TA**, Santen S, Miller J, Jordan J. Creating a Cadre of Fellowship-Trained Medical Educators: A Qualitative Study of Faculty Development Program Leaders’ Perspectives and Advice. *Acad Med*. 2016 Dec;91(12):1696–1704.

Chinai SA, **Guth TA**, Lovell E, Epter M. Taking Advantage of the Teachable Moment: A Review of Learner Centered Clinical Teaching Models. *West J Emerg Med*. 2018 Jan;19(1):28-34.

Guth TA, Overbeck MC, Roswell K, Vu TT, Williamson KM, Yi Y, Hilty W, Druck J. Impact of a Dedicated Teaching Attending Experience on a Required Emergency Medicine Clerkship. *West J Emerg Med*. 2019 Dec 18;21(1):58-64.

Guth TA. Validity Evidence for the Core Physical Examination in Medical Students. Master of Health Professions Education Thesis, University of Illinois-Chicago, 2019.

Guth TA, Luber SA, Marcolini E, Lo BM. Physician reentry-a timely topic for emergency medicine. JACEP Open. 2020 Nov 16;1(6):1614-1622.

Mutter M, Lampe M, **Guth TA.** A clinical skills dashboard for medical student assessment. Med Educ. 2022 Nov;56(11):1119-1120.

Buchanan JA, Meadows S, Whitehead J, Sungar WG, Angerhofer C, Nussbaum A, Blok B, **Guth TA,** Bakes K, Millner M, Salazar L, Stephens M, Kaplan B. Implementation of dedicated social worker coaching for emergency medicine residents - Lessons learned. J Am Coll Emerg Physicians Open. 2023 May 17;4(3):e12971.

Guth TA, Medakovich, Milla SS. Art in medicine: in the classroom, exam room, and reading room, Intern Rev of Psych 2023 Sept 28; 10.1080/09540261.2023.2262018

Accepted National Abstracts and Research Presentations:

Guth T, Druck J. SAEM Abstract, Medical Student Career Choices and Attitudes Toward Emergency Medicine After A Required Emergency Medicine Rotation, 2009.

Guth T, French A, Boyle D, et. al. SAEM Abstract, Malpractice Claims Against Emergency Physicians In Colorado: 2002-2008, 2009.

Guth T, SAEM Abstract, Emergency Medicine Residents' Association (EMRA) Emergency Medicine Qualifying and Certification Exam Preparation Survey, 2012

Guth T, SAEM Abstract, Faculty Knowledge of and Confidence in Giving Feedback on the ACGME Core Competencies, 2012.

Guth T, SAEM Abstract, A Qualitative Assessment of Emergency Medicine Self-Reported Strengths, 2012.

Guth T, SAEM Innovation in Medical Education, Teaching Clinical Reasoning in Emergency Medicine: A curriculum for third and fourth year students, 2012.

Guth T, SAEM Abstract, Improvements in ACGME Core Competency Specific Summative Comments by Faculty Following Implementation of a Core Competency Specific Daily Feedback Cards Program, a Faculty Incentive Program, and Specific Faculty Development on the Core Competencies and Giving Feedback to Residents, 2013.

Jordan J, Yarris L, Santen S, **Guth T**, Rougas S, Runde D, Miller J, Coates W. CORD and SAEM Abstract, Education Scholarship Fellowships in Emergency Medicine: A Formal National Needs Assessment, 2014.

Guth T, Overbeck M, Smith T, Roswell K. CORD Abstract, Qualitative Analysis of Medical Student Reflections of Inter-professional Experiences during their Emergency Medicine Clerkship, 2016.

Guth T, Overbeck M, Roswell K, Vu T. UCSOM Education and Innovation Symposium, Poster Presentation, Impact of a Dedicated Teaching Attending Shift on a Required Emergency Medicine Clerkship, 2017.

Guth T, Broadfoot K, Overbeck M, Roswell K. AAMC Western Group of Educational Affairs, Poster Presentation, Assessing Interprofessional Learner Team Performance in an Emergency Medicine Simulation, 2018.

Guth T, Broadfoot K, Overbeck M, Roswell K. UCSOM Education and Innovation Symposium, Poster Presentation, Assessing Interprofessional Learner Team Performance in an Emergency Medicine Simulation, 2018.

Guth T, Jones T, Medakovich M, Thompson L. AAMC Western Group of Educational Affairs, Oral Presentation, Impact of Required Art of Medicine Sessions on Pre-Clinical Medical Students, 2018.

Mutter M, **Guth TA**, Lampe, M. AAMC DOCS Meeting Poster Presentation, Clinical Skills Dashboard for Medical Student Assessment; Nashville, TN, 2022.

Roussel, D, **Guth TA**, Wolfe, R, et al. Programmatic Assessment of Clinical Reasoning: What Does It Really Take to Triangulate Assessment Data? AAMC Meeting Poster Presentation; Seattle, WA, 2023.

Books, Book Chapters, and Other Non-peer Reviewed Publications:

Guth T. (Editor-in-chief) Resident as Educator Handbook. 2013. Emergency Medicine Residents' Association, Dallas.

Guth T. "Esophageal Disorders." Adams' Emergency Medicine. Second Edition. 2011, Elsevier, New York.

Guth T. Babu, K. "Chief Resident Domestic Relations" The Chief Resident Guide. Second Edition. 2011. Emergency Medicine Residents' Association, Dallas.

Babu, K. **Guth T**. "Chief Resident as Educator" The Chief Resident Guide. Second Edition. 2011. Emergency Medicine Residents' Association, Dallas.

Guth T. Question Writer for Wagner, M, Editor-in-Chief. Peer VIII: Physician's Evaluation and Educational Review in Emergency Medicine. Eighth Edition. 2011, American College of Emergency Physicians, Dallas.

Anderson, J. **Guth, T** Editors. EMRA Clinical Prediction Guide. 2010 (Revised in 2018), Emergency Medicine Residents' Association, Dallas.

Guth T "Clinical Prediction Rules" EM Resident Magazine, Sept/Oct 2011.

Guth T. "A Lesson in Clinical Reasoning: Do Not Miss the Life or Limb Threatening Condition" EM Resident Magazine, April/May 2011.

Guth T "The Core Competencies: Guideposts to your Worth as an Emergency Physician" EM Resident Magazine Jan/Feb 2011.

Guth T "Evidence-Based Emergency Medicine on the Fly" EM Resident Magazine, Sept/Oct 2010.

Guth T "It's No Joke: Trauma in Hemophilia" EM Resident Magazine May/June 2010.

Guth T "Going Nuts over Nuts" EM Resident Magazine March/April 2010.

Guth T "An Unusual Case of Status Epilepticus" EM Resident Magazine Jan/Feb 2010.