
MEP Scholarly and Research Productivity

2021

Journal Articles

1. Kandaswamy S, Grimes J, Hoffman D, Marquard J, Ratwani RM, Hettinger AZ. Free-Text Computerized Provider Order Entry Orders Used as Workaround for Communicating Medication Information. *Journal of Patient Safety*. 2021 Dec 15.
2. Pruitt ZM, Howe JL, Hettinger AZ, Ratwani RM. Emergency Physician Perceptions of Electronic Health Record Usability and Safety. *Journal of Patient Safety*. 2021 Dec 01 1;17(8):e983-e987. PMID: 33871414
3. Iqbal AR, Parau CA, Kazi S, Adams KT, La L, Hettinger AZ, Ratwani RM. Identifying Electronic Medication Administration Record (eMAR) Usability Issues from Patient Safety Event Reports. *Jt Comm J Qual Patient Saf*. 2021 Dec. 47(12):793-801. PMID: 34657817
4. Mezey G, Hockstein M. Stylet, no?: December 2021 annals of emergency medicine journal club. *Ann Emerg Med* 2021 Dec. 78(6):800-801. PMID: 34802594.
5. Chipendo P, Shawar Y, Shiffman J, Razzak J. Understanding factors impacting global priority of emergency care: a qualitative policy analysis. *BMJ Glob Health*. 2021 Dec. PMID: 34969680 PMCID: PMC8718415
6. Kazi S, Hettinger AZ, Littlejohn R, Busog D-N, Miller KE. Tapering Chronic Opioid Medications: A Human Factors Approach to Building a Provider-Facing App. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. 2021 Nov 12;65(1):184-185.
7. Kandaswamy S, Won J, Karavite D, Hettinger AZ. Usability issues with electronic health records: Is it even worth it for human factors practitioners? *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. 2021 Nov 12;65(1):1062-1064.
8. Schwartz LP, Devine JK, Hursh SR, Mosher E, Schumacher S, Boyle L, Davis JE, Smith M, Fitzgibbons S. Biomathematical modeling predicts fatigue risk in general surgery residents. *J Surg Ed* 2021. 78(6):2094-2101. PMID: 33994335.
9. Carlberg DJ, Lee R, Davis JE. Reproductive-aged man with inguinal pain. *J Emerg Med*. 2021 Oct 29. Epub 2021 Oct 29. PMID: 34756745.
10. Carlson LC, Zachrisson KS, Yun BJ, Ciccolo G, White BA, Camargo CA Jr, Samuels-Kalow ME. The association of demographic, socioeconomic, and geographic factors with potentially preventable emergency department utilization. *West J Emerg Med*. 2021 Oct 27. 22(6):1283-1290. PMID: 34787552.
11. Johnson-Arbor K. Goodbye JUUL, hello Puff Bars: Trends and toxicity of currently available electronic cigarettes. *Am J Emerg Med*. 2021 Oct 13. S0735-6757(21)00847-0. PMID: 34690023.

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12. Melnick ER, Fong A, Nath B, Williams B, Ratwani RM, Goldstein R, O'Connell RT, Sinsky CA, Marchalik D, Mete M. Analysis of electronic health record use and clinical productivity and their association with physician turnover. *JAMA Netw Open* 2021 Oct 1. 4(10):e2128790. EPub 2021 Oct 1. PMID: 34636911.
13. Abu El Hawa AA, Bekeny J, Phillips N, Johnson-Arbor K. Hyperbaric oxygen therapy for paediatric patients: an unintended consequence of the COVID-19 pandemic. *J Wound Care*. 2021 Sept 1. 30(Sup9):S24-S28. PMID: 34554855
14. Johnson-Arbor K, Schultz B. Effective Decontamination and Remediation After Elemental Mercury Exposure: A Case Report in the United States. *J Prev Med Public Health*. 2021 Sep. 54(5):376-379. PMID: 34649400.
15. Chandran K, Mazer-Amirshahi M, Shankar N, Desale S, Nelson L, Mete M. Impact of covid-19 pandemic on emergency department substance use screens and overdose presentations. *Am J Emerg Med*. 2021 Aug 26. 50:472-476. EPub 2021 Aug 26. PMID: 34509745.
16. Johnson-Arbor K, Verstraete R. Bloodless Management of the Anemic Patient in the Emergency Department. *Ann Emerg Med*. 2021 Aug 2. S0196-0644(21)00515-1. PMID: 34353645.
17. Roth EM, Bisantz AM, Wang X, Kim T, Hettinger AZ. A work-centered approach to system user-evaluation. *Journal of Cognitive Engineering and Decision Making*. 2021;15(4):155-174.
18. Galarraga JE, DeLia D, Huang J, Woodcock C, Fairbanks RJ, Pines JM. Effects of Maryland's global budget revenue model on emergency department utilization and revisits. *Acad Emerg Med* 2021 Jul 20. EPub 2021 Jul 20. PMID: 34288254.
19. Johnson-Arbor K, Smolinske S. The current state of delta-8 THC. *Am J Emerg Med*. 2021 Jul 2. S0735-6757(21)00552-0. PMID: 34247877.
20. Ouchi K, Liu S, Tonellato D, Keschner Y, Kennedy M, Levine D. Home hospital as a disposition for older adults from the emergency department: benefits and opportunities. *J Am Coll Emerg Physicians Open*. 2021 Jul 21. 2(4):e12517. PMID: 34322684.
21. Galarraga JE, Delia D, Wilhite D, Romero-Barrientos R, O'Sullivan K, Noccolino D, Pimentel L, Woodcock C, Fairbanks RJ, Pines JM. Emergency department care coordination strategies and perceived impact under Maryland's hospital payment reforms. *Am J Emerg Med*. 2021 Jul. 45:578-589. PMID: 33402309.
22. Devine J, Schwartz L, Hursh S, Mosher E, Schumacher S, Boyle L, Davis J, Smith M, Fitzgibbons S. Trends in strategic napping in surgical residents by gender, postgraduate year, work schedule, and clinical rotation. *J Surg Educ*. 2021 Jul. 78(4):1256-1268. PMID: 33229212.

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23. Radecki RP, Spiegel RJ. A fuzzier look at contrast-induced nephropathy. *Ann Emerg Med* 2021 Jul. 78(1):199-200. PMID: 34167733.
24. Rola P, Miralles-Aguiar F, Argaiz E, Beaubien-Souligny W, Haycock K, Karimov T, Dinh VA, Spiegel R. Clinical applications of the venous excess ultrasound (vexus) score: conceptual review and case series. *Ultrasound J.* 2021 Jun 19. 13(1):32. PMID: 34146184.
25. Spiegel RJ, Radecki RP. Stop the mabness: June 2021 annals of emergency medicine journal club. *Ann Emerg Med.* 2021 Jun. 77(6):652-653. PMID: 34030781.
26. Johnson-Arbor K, Tefera E, Farrell J Jr. Characteristics and treatment of elemental mercury intoxication: A case series. *Health Sci Rep.* 2021 Jun 4;4(2):e293. PMID: 34136656.
27. Kandaswamy S, Pruitt Z, Kazi S, Marquard J, Owens S, Hoffman DJ, Ratwani RM, Hettinger AZ. Clinician perceptions on the use of free-text communication orders. *Appl Clin Inform.* 2021 May. 12(3):484-494. EPub 2021 Jun 2. PMID: 34077971.
28. Benda NC, Bisantz AM, Butler RL, Fairbanks RJ, Higginbotham J. The active role of interpreters in medical discourse - an observational study in emergency medicine. *Patient Educ Couns.* 2021 May 24. EPub 2021 May 24. PMID: 34052053.
29. Adams KT, Pruitt Z, Kazi S, Hettinger AZ, Howe JL, Fong A, Ratwani RM. Identifying health information technology usability issues contributing to medication errors across medication process stages. *J Patient Saf.* 2021 May 6. PMID: 34009868.
30. Rossheim M, Livingston M, Walker A, Reid N, Liu L, Mazer-Amirshahi M. Supersized alcopop related calls in the national poison data system, 2010–2019. *Drug Alcohol Depend.* 2021 May 1. 222:1-6. PMID: 33713974.
31. Mezey G, Isserman JD, Davis JE. Adult Female with Upper Extremity Skin Lesion. *Ann Emerg Med* 2021.77(5):548-560. PMID: 33902830.
32. Johnson-Arbor K, Verstraete R. Use of hyperbaric oxygenation as an adjunctive treatment for severe pernicious anaemia in a bloodless medicine patient. *BMJ Case Rep.* 2021 Apr 12;14(4):e240619. PMID: 33846184
33. Wang X, Blumenthal HJ, Hoffman D, Benda N, Kim T, Perry S, Franklin ES, Roth EM, Hettinger AZ, Bisantz AM. Modeling patient-related workload in the emergency department using electronic health record data. *Int J Med Inform.* 2021 Jun;150:104451. EPub 2021 Apr 9. PMID: 33862507; PMCID: PMC8237485.
34. Radecki RP, Spiegel RJ. Bridging oceans and thrombolysis: April 2021 annals of emergency medicine journal club. *Ann Emerg Med.* 2021 Apr. 77(4):464-465. PMID: 33766279.

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35. Heath J, Davis JE, Dine J, Padmore JS. Faculty development for milestones and clinical competency committees. *J Grad Med Ed* 2021;13(2s):127-131. PMID: 33936547.
36. Hoffer M, Mazer-Amirshahi M, Hodgson R, Pourmand A. The role of co-administration of magnesium sulfate with qtc-prolonging medications in the emergency department. *Am J Emerg Med.* 2021 Mar 27. S0735-6757(21)00264-3(21):00264-3. PMID: 33838936.
37. Sushko K, Litalien C, Ferruccio L, Gilpin A, Mazer-Amirshahi M, Chan A, Van Den Anker J, Lacaze-Masmonteil T, Samiee-Zafarghandy S. Topical nitroglycerin ointment as salvage therapy for peripheral tissue ischemia in newborns: a systematic review. *CMAJ Open.* 2021 Mar 17. 9(1):E252-E260. PMID: 33731426.
38. Carlson LC, Tasi MC, Wasfy JH, Thompson RW, Cafiero-Fonseca ET, Temin ES, Yun BJ.. An analysis of ambulance transport and out-of-network emergency department utilization in an accountable care organization. *Popul Health Manag.* 2021 Mar 2. 24(5):576-580. PMID: 33656386.
39. Schubel L, Wesley D, Booker E, Lock J, Ratwani R. Population subgroup differences in the use of a covid-19 chatbot. *NPJ Digit Med.* 2021 Feb 19. 4(1):30. PMID: 33608660.
40. Koenig G, Callipari C, Smereck JA. Acute liver injury after long-term herbal "liver cleansing" and "sleep aid" supplement use. *J Emerg Med.* 2021 May. 60(5):610-614. PMID: 33579656.
41. Shenoy AG, Hettinger AZ, Fernandez SJ, Blumenthal J, Baez V. Early mortality benefit with COVID-19 convalescent plasma: a matched control study. *Br J Haematol.* 2021 Feb;192(4):706-713. PMID: 33482025.
42. Spiegel RJ, Radecki RP. Is it ok to stress out about your heart?: 2021 Feb. *annals of emergency medicine journal club.* *Ann Emerg Med.* 2021 Feb. 77(2):270-271. PMID: 33487320.
43. Ebell MH, Cai X, Lennon R, Tarn DM, Mainous AG 3rd, Zgierska AE, Barrett B, Tuan WJ, Maloy K, Goyal M, Krist A. Development and validation of the covid-nolab and covid-simplelab risk scores for prognosis in 6 us health systems. *J Am Board Fam Med.* 2021 Feb. 34(Suppl):S127-S135. PMID: 33622827.
44. Monahan BV, Reid MJ, Houser CS, Day CR, Nable JV. Medical emergencies on a medium-sized urban university campus with collegiate-based EMS. *J Am Coll Health.* 2021 Dec. 69(8):971-975. Epub 2021 Jan. PMID: 31995453.
45. El Hawa AAA, Charipova K, Bekeny JC, Johnson-Arbor KK. The evolving use of hyperbaric oxygen therapy during the COVID-19 pandemic. *J Wound Care.* 2021 Feb 1;30(Sup2):S8-S11. PMID: 3353494.
46. Hettinger AZ, Melnick ER, Ratwani RM. Advancing electronic health record vendor usability maturity: progress and next steps. *J Am Med Inform Assoc.* 2021 Jan 31. Epub 2021 Jan 31. PMID: 33517394.

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47. Pourmand A, Esmailian G, Mazer-Amirshahi M, Lee-Park O, Tran QK. Topical capsaicin for the treatment of cannabinoid hyperemesis syndrome, a systematic review and meta-analysis. *Am J Emerg Med.* 2021 Jan 15. 43:35-40. PMID: 33493995.
48. Weeks KS, Borhart J, Defazio C, Takacs M. The impact of sleep on in-training examination scores among emergency medicine residents. *Am J Emerg Med.* 2021 Sept. 47:299-300. Epub 2021 Jan 10. PMID: 33494960.
49. Sheridan MD, Adams KT, Booker E, Krevat SA, Calabrese M, Gomes K, Ratwani RM. Pilot assessment of an on-demand telehealth 'left without being seen' follow-up programme. *J Telemed Telecare.* 2021 Jan 21. PMID: 33476220.
50. Radecki RP, Spiegel RJ. Sleep Well, Endoscopist: January 2021 annals of emergency medicine journal club. *Ann Emerg Med.* 2021 Jan. 77(1):127-128. PMID: 33349365.
51. Chow YC, Waterbrook AL, Suffoletto HN, Dolbec K, Myers RA, Denq W, Hwang CE, Kiel JM, Monseau AJ, Balcik BJ, Santelli JA, Oshlag BL, Hudson KB, Delasobera BE, Feden JP, Davenport M, Childress JM, Desai NN, Gould SJ, Holschen JC. Recommended Musculoskeletal and Sports Medicine Model Curriculum for Emergency Medicine Residency Training. *Curr Sports Med Rep.* 2021 Jan 1;20(1):31-46. PMID: 33395129.
52. Devine JK, Schwartz LP, Hursh SR, Mosher E, Schumacher S, Davis JE, Smith M, Boyle L, Fitzgibbons S. Addressing fatigue in medical residents with biomathematical fatigue modeling. *J Occ Health* 2021; 6(1):e12267. PMID: 3439993.
53. Johnson-Arbor K, Verstraete R. No Bad Blood-Surviving Severe Anemia Without Transfusion. *JAMA Intern Med.* 2021 Jan 1. 181(1):7-8. PMID: 33226407.

Non-PubMed Publications / Review Article

1. Gomes K, Adams K, Booker E, Ratwani R. Patient Safety Risks during On-Demand Telehealth Referrals and Implications for Human Factors Research. *SAGE Journals. Proceedings of the Human Factors and Ergonomics Society Annual Meeting.* 2021 Nov 21. 65:500-504.
2. Mehta CK, Son AY, Chia MC, Budd AN, Allen BD, Vassallo P, Hoel AW, Brady WJ, Nable JV. Management of acute aortic syndromes from initial presentation to definitive treatment. *Am J Emerg Med* 2021 Oct 21. 51:108-113. Epub 2021 Oct 21. PMID: 34735967.
3. Ong J, O'Connell F, Mazer-Amirshahi M, Pourmand A. An international perspective of out-of-hospital cardiac arrest and cardiopulmonary resuscitation during the covid-19 pandemic. *Am J Emerg Med.* 2021 Sept. 47:192-97. PMID: 33894661.

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4. Pourmand A, Beisenova K, Shukur N, Tebo C, Mortimer N, Mazer-Amirshahi M. A practical review of buprenorphine utilization for the emergency physician in the era of decreased prescribing restrictions. *Am J Emerg Med.* 2021 Jul 5. 48:316-322. EPub 2021 Jul 5. PMID: 34274576.
5. Khoujah D, Cobb MJ. Neurologic emergencies at the extremes of age. *Emerg Med Clin North Am.* 2021 Feb. 39(1):47-65. PMID: 33218662.
6. Keswani M, Mehta N, Mazer-Amirshahi M, Tran QK, Pourmand A. Sedation in mechanically ventilated covid-19 patients: a narrative review for emergency medicine providers. *Am J Emerg Med.* EPub 2021 May 14. PMID: 34020844.

Editorial

1. Harvey H, Webster A, Wilson M. Hemolyzed blood samples in the emergency department - finding our "why". *J Emerg Nurs* 2021 Jul. 47(4):524-526. PMID: 34275524.
2. Mazer-Amirshahi M, Fox ER, Routsolias JC, Johnson-Arbor K, Mycyk MB. How can we "get the lead out" without chelators?. *J Med Toxicol* 2021 May 24. PMID: 34031804.
3. Fairbanks RJ, Kellogg KM. Mean talk: why punitive language in patient safety event reporting indicates a suboptimal safety culture. *Ann Emerg Med.* 2021 Feb 25. PMID: 33642129.

Didactic presentation (National/Regional/Grand Rounds/ Outside of home dept)

1. Hudson K. Mass Casualty Incident Planning for Sporting Venues: Advanced Team Physician Course, ACSM, Washington, DC, 2021 Dec.
2. Bhat R. Lose the bowtie: how to neuro like an er doc. Virginia Tech Carilion, Virtual 2021 Dec.
3. Johnson-Arbor K. Managing severe anemia without blood transfusion as the safer option- experience from a bloodless medicine & surgery program: focus on intravenous iron safety. Bloodless Medicine and Surgery Society 7th Annual Scientific Conference, Virtual. 2021 Nov 5.
4. Pontius E. Managing Dental Emergencies Like a Pro. ACEP21 Scientific Assembly, Boston, MA. 2021 Oct 28.
5. Johnson-Arbor K. Wilderness medicine: get out safely". Presented at the ACEP Scientific Assembly, Boston, MA. 2021 Oct 28.

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6. Pontius E. Nightmare ENT Emergencies: Sore Throats That Can Kill. ACEP21 Scientific Assembly, Boston, MA. 2021 Oct 27.
7. Johnson-Arbor K. Environmental Emergencies Jeopardy”. Presented at the ACEP Scientific Assembly, Boston, MA. 2021 Oct 27.
8. Johnson-Arbor K. Pediatric patient evaluation in the monoplace chamber. Presented at the Undersea and Hyperbaric Medical Society 2021 Northeast Chapter Meeting, Virtual, 2021 Oct 24.
9. Pontius E. Managing Dental Emergencies Like a Pro. Lincoln Medical Center Emergency Medicine Residency Program, Bronx, NY. 2021 Oct.
10. Denham A, Pines J, Fairbanks RJ, DeLia D, Shan D, Galarraga J. Association of Varying Care Coordination Strategies in the ED with Return Visits. Oral presentation given at the ACEP21 Scientific Assembly, Boston, MA, 2021 Oct.
11. Borhart J. Cardiac Emergencies in the Postpartum Patient. ACEP21 Scientific Assembly, Boston, MA. 2021 Oct.
12. Bridge Najera, D. Put away the boxing gloves: de-escalation. Pennsylvania Society of PAs Annual Conference, Pocono Manor, PA 2021 Oct 29.
13. Mueller, L. Rib Fractures in the Pan Scan Era: A Comprehensive Guide to Diagnosis, Disposition, & Management. VCU Emergency Medicine Grand Rounds, Richmond, VA. 2021 Sept 19.
14. Johnson-Arbor K. Under pressure: hyperbaric oxygen therapy in bloodless medicine. Presented at the Society for the Advancement of Blood Management. Virtual, 2021 Sep 24.
15. Borhart J. Tolerance of Uncertainty. Greater Chesapeake Joint Regional Grand Rounds, Virtual. 2021 Sep.
16. Bhat R. Massive hemoptysis: save your drowning patient. University of California Riverside School of Medicine EM Residency, Virtual 2021 Sep.
17. Bhat R. Lose the bowtie: how to neuro like an er doc. University of California Riverside School of Medicine EM Residency, Virtual 2021 Sep.
18. Bridge Najera, D. Pain management in the age of the opioid epidemic. Maryland Academy of PA Annual Conference, Ocean City, MD. 2021 Sept 10.
19. Borhart J. Emergency Delivery: Are You Prepared? University of Iowa, Iowa, IA. 2021 Aug.

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20. Borhart J. Code Crimson: Management of Postpartum Hemorrhage and Severe Uterine Bleeding. University of Iowa, Iowa City, IA. 2021 Aug.
21. Bridge Najera, D. The challenge of compliance in healthcare. Pennsylvania Society of PAs inaugural Mental Health Miniseries Virtual. 2021 Jul.
22. Bridge Najera, D. Rollercoaster of bipolar. Pennsylvania Society of PAs inaugural Mental Health Miniseries, Virtual. 2021 Jul.
23. Nable JV. Mitigating bias in narrative evaluations. EM Faculty Development at Temple University, Philadelphia, PA. 2021 Jun 17.
24. Stallman B, Wilson M. Changes in US national park visitation in correlation with COVID-19 infection rates. Wilderness Medical Society Summer Conference, Breckenridge, CO. 2021 June.
25. Hudson K. The Female Runner Throughout Life and Pregnancy: Moderator, online Webinar/Panel, IIRM/World Athletics, 2021 Jun.
26. Hudson K. Injuries in Equestrian Athletes: ACSM National Meeting, Virtual, 2021 Jun.
27. Hudson K. Management of Spinal Cord Injury in Atypical Sports Scenarios: ACSM National Meeting, Virtual, 2021 Jun.
28. Hudson K. Emergency Action Planning in Sports Medicine: ACSM National Meeting, Virtual, 2021 Jun.
29. Borhart J. Help! There's a Baby Coming! AAEM Scientific Assembly, Virtual. 2021 Jun.
30. Bridge Najera, D. Mental health emergencies for pre-hospital personnel. Baltimore County Fire Department EMS Academy, Virtual. 2021 May 27.
31. Bridge Najera, D. One day at a time: helping patients with alcohol use disorder. American Academy of PAs annual conference, Virtual. 2021 May 26.
32. Johnson-Arbor K. Bloodless care in emergencies is possible- and better!. Presented at Bloodless Medicine and Surgery Week 2021 conference, virtual, 2021 May 17.
33. Ratay M, Zaatari S, Wilson M, Maloy K, Goyal M. Age-adjusted d-dimer levels are predictive of pe in patients with covid-19. AAEM Scientific Assembly, Virtual. 2021 May 11-14.
34. Bridge Najera, D. Exploring the impact of peers in mental health and substance use recovery. American Academy of PAs Annual Conference. 2021 May.

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35. Davis JE. Leadership Pears & Pitfalls for Chief Residents. SAEM Scientific Assembly, Des Plaines, Illinois, Virtual. 2021 May.
36. Mueller L. Hot off the press: the top five practice-changing articles for musculoskeletal care. SAEM Scientific Assembly, Des Plaines, Illinois, Virtual. 2021 May.
37. Nable JV. Mitigating bias in narrative evaluations. COD Scientific Assembly, Virtual. 2021 Apr 14.
38. Fairbanks RJ. The infusion of human factors principles into healthcare: reflection after a decade on the development of the National Center for Human Factors in Healthcare (Invited Keynote Address). 2021 International Symposium on Human Factors and Ergonomics in Health Care. Virtual: 2021 Apr 13.
39. Bridge Najera, D. Bias in healthcare: understanding your role and your impact. Nebraska Academy of Physician Assistants, Virtual. 2021 Apr 7-10.
40. Borhart J. Give a great virtual talk!. COD Scientific Assembly, Virtual. 2021 Apr.
41. Hack K, Mazer-Amirshahi M, Campleman S, Karshenas D, Pizon A. Observations impacting pregnancy in the toxic registry. ACMT Scientific Assembly, Virtual. 2021 Apr.
42. Soto P, Mullins P, Nelson L, Mazer-Amirshahi M. After hours poisoning and overdose presentations to emergency departments. ACMT Scientific Assembly, Virtual. 2021 Apr.
43. Chandran K, Mazer-Amirshahi M, Shankar N, Desale S, Nelson LS, Mete M.. Impact of the covid-19 pandemic on emergency department substance use presentations and substance use screens. ACMT Scientific Assembly, Virtual. 2021 Apr.
44. Shankar N, Mazer-Amirshahi M, Chandran K, Desale S, Perrone J, Mete M.. Gender differences in emergency department substance abuse presentations and substance abuse screens. ACMT Scientific Assembly, Virtual. 2021 Apr.
45. Shankar N, Mazer-Amirshahi M, Chandran K, Desale S, Nelson LS, Mete M.. Racial differences in emergency department substance abuse presentations and substance abuse screens. ACMT Annual Scientific Assembly, Virtual. 2021 Apr.
46. Najera, R. and Bridge Najera, D. Covid-19 vaccine q&a. The College of Physicians of Philadelphia, Virtual. 2021 Mar 9.
47. Hudson K. COVID Procedures for Mass Participations Events, An Update: Moderator, online Webinar/Panel, IIRM/World Athletics, 2021 Mar.

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48. Borhart J. Emergency delivery: are you prepared?. Maryland ACEP Chapter Educational Conference, Virtual. 2021 Mar.
49. Lukobo Durrell, M, Bridge Najera, D, and Arnold, G. Racial disparities in healthcare: covid-19. Northwestern School of Professional Studies, Virtual. 2021 Mar.
50. Bridge Najera, D. Pharmacological approaches to treating chronic pain in the primary care setting. American Academy of PAs We are Family (Medicine). 2021 Jan 23.
51. Fairbanks RJ. Modernizing the application of safety science within healthcare's complex environment. HDSI and Department of Emergency Medicine, University of Chicago. 2021 Jan 22.

Letter

1. Fox ER, Johnson-Arbor K, Mazer-Amirshahi M. Will there ever be an antidote for drug shortages?. J Med Toxicol 2021 Mar 9. Epub 2021 Mar 9. PMID: 33687652.

Textbooks / Textbook Chapters

1. Lagheeza M, Greenwald P, Booker E, Mishkin D, Sharma R. Chapter 15: Tele-Triage. A Practical Guide to Emergency Telehealth. 2021 Nov 26.
2. Borhart J. Section Editor. Obstetrical and Gynecologic Emergencies. In: Mattu A, Swadron S, ed. CorePendum. Burbank, CA: CorePendum, LLC. <https://www.emrap.org/corependium/>. Updated Oct 2021.
3. Pontius E. Nausea, vomiting and hyperemesis in pregnancy. In: Mattu A, Swadron S, ed. CorePendum. Burbank, CA: CorePendum, LLC. <https://www.emrap.org/corependium/>. Updated July 28, 2021.
4. Pontius E. Miscarriage. In: Mattu A, Swadron S, ed. CorePendum. Burbank, CA: CorePendum, LLC. <https://www.emrap.org/corependium/>. Updated July 28, 2021.
5. Pontius E. Ectopic pregnancy & heterotopic pregnancy. In: Mattu A, Swadron S, ed. CorePendum. Burbank, CA: CorePendum, LLC. <https://www.emrap.org/corependium/>. Updated July 28, 2021.

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6. Pontius E. Pregnancy of unknown location. In: Mattu A, Swadron S, ed. CorePendum. Burbank, CA: CorePendum, LLC. <https://www.emrap.org/corependium/>. Updated July 28, 2021.
7. Ko JS, Chiampas G. The collapsed athlete. Sports Cardiology. In: Engel DJ, Phelan DM (eds). 07 May 2021.
8. Mazer-Amirshahi M, Chamberlain J. Drug therapy in the pediatric emergency department. Yaffe and Aranda's Neonatal and Pediatric Pharmacology: Therapeutic Principles in Practice. 2021 Jan 13.

Grants

1. Booker E, Maddox L, Palakanis K, Schulman K. Create and advance a telehealth research collaboration with intermountain Healthcare and Stanford Health Care. AHRQ R01. End Date 2023 Jan. Start Date 2021 Jan.
2. Galarraga J (PI). An EHR-Based Screening Tool to Support Safe Discharges of COVID-19 Patients in the Emergency Department. AHRQ R21. End Date 2023 Mar. Start Date 2021 Oct.
3. Galarraga J. Wearable physiologic monitor with real-time continuous data acquisition and analysis for early detection of covid-19 infection. Department of Defense (Medical Technology Enterprise Curriculum). End Date 2021 Jun. Start Date 2020 Oct.

Alternative Media

1. Gonzalez, A. Ko, J. Resuscitative hysterotomy. NUEM Blog. Expert Commentary by Trinquero, P and Bortoletto, P. 2021 Dec 13. <https://www.nuemblog.com/blog/resuscitative-hysterotomy>
2. Ko J, Negaard M, Tomesch AJ. Splinter series: i declare a thumb war. ALiEM. 2021 Nov 26. <https://www.aliem.com/splinter-series-thumb-war/>
3. Ko J, Whipple MT, Tomesch AJ. Splinter series: don't go breaking my heart. ALiEM. 2021 Oct 11. <https://www.aliem.com/splinter-series-sternal-dont-go-breaking-my-heart/>
4. Swencki S, Rand M, Moreno LA. Palliative care in the Emergency Department: Recognizing and meeting the needs of seriously ill patients. 2021 Sept 16.

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<https://www.aem.org/UserFiles/PALLIATIVECAREtoPOST.91621BODAprvd.RvsdHCProfessionals.pdf>

5. Ko J, Whipple MT, Tomesch AJ. Splinter series: pedal to the metal. ALiEM. 2021 Aug 18. <https://www.aliem.com/splinter-series-pedal-to-the-metal/>
6. Hudson K, Sedgley M, Madsen M. Prehospital management of exertional heat stroke at sports competitions: International Olympic committee adverse weather impact expert working group for the Olympic games Tokyo 2020. British Journal of Sports Medicine. 2021 July 8. 55:1405-1410. <https://bjsm.bmj.com/content/55/24/1405.responses>
7. Bridge Najera, D. and Marsh, T. Health equities: understanding data and bridge the care gap. PA Foundation Vital Minds Podcast. 2021 Feb.
8. Nable JV, Bhat R, Isserman J, Smereck J, Wilson M, Maloy K. Aem education & training 27: learner perceptions of electronic end-of-shift evaluations on an emergency medicine clerkship. Apple Podcasts 2021 Jan 22.