



Eastern Association for the Surgery of Trauma

Advancing Science, Fostering Relationships, and Building Careers

**34th EAST Annual Scientific Assembly-Virtual
Scientific Papers That Should Change Your Practice
Wednesday, January 13, 2021**

Papers that Should Change Your Practice – EGS

Brian Myer, MD

A Randomized Trial Comparing Antibiotics and Appendectomy for Appendicitis. CODA collaborative. N Engl J Med 2020; 383:1907-1919. DOI: 10.1056/NEJMoa2014320.

Complications of appendectomy and cholecystectomy in acute care surgery: A systematic review and meta-analysis Al Busaidi, Omar MD, MSC; Lee, Seungwon MSC; Kortbeek, John B. MD, FRCSC, FACS; Turin, Tanvir C. MD; Stelfox, Henry T. MD, PhD, FRCP; Austen, Lea MD, FRCSC; Ball, Chad G. MD, MSC, FRCSC, FACS, Journal of Trauma and Acute Care Surgery: Sept 2020;89(3)576-584. doi: 10.1097/TA.0000000000002825

Association of the Risk of a Venous Thromboembolic Event in Emergency vs Elective General Surgery. Ross SW, Kuhlenschmidt KM, Kubasiak JC, Mossler LE, Taveras LR, Shoultz TH, Phelan HA, Reinke CE, Cripps MW. JAMA Surg. 2020 Jun 1;155(6):503-511. doi: 10.1001/jamasurg.2020.0433.

Prospective validation of the Emergency Surgery Score in emergency general surgery: An Eastern Association for the Surgery of Trauma multicenter study. Kaafarani HMA, Kongkaewpaisan N, Aicher BO, Diaz JJ Jr, O'Meara LB, Decker C, Rodriguez J, Schroepel T, Rattan R, Vasileiou G, Yeh DD, Simonoski UJ, Turay D, Cullinane DC, Emmert CB, McCrum ML, Wall N, Badach J, Goldenberg-Sandau A, Carmichael H, Velopulos C, Choron R, Sakran JV, Bekdache K, Black G, Shoultz T, Chadnick Z, Sim V, Madbak F, Steadman D, Camazine M, Zielinski MD, Hardman C, Walusimbi M, Kim M, Rodier S, Papadopoulos VN, Tsoulfas G, Perez JM, Velmahos GC. J Trauma Acute Care Surg. 2020 Jul;89(1):118-124. doi: 10.1097/TA.0000000000002658.



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Papers that Should Change Your Practice – SCC

Dennis Kim, MD

1. Effect of **Dexamethasone** on Days Alive and Ventilator-Free in Patients With Moderate or Severe Acute Respiratory Distress Syndrome and **COVID-19**: The CoDEX Randomized Clinical Trial.

Tomazini BM, Maia IS, Cavalcanti AB, Berwanger O, Rosa RG, Veiga VC, Avezum A, Lopes RD, Bueno FR, Silva MVAO, Baldassare FP, Costa ELV, Moura RAB, Honorato MO, Costa AN, Damiani LP, Lisboa T, Kawano-Dourado L, Zampieri FG, Olivato GB, Righy C, Amendola CP, Roepke RML, Freitas DHM, Forte DN, Freitas FGR, Fernandes CCF, Melro LMG, Junior GFS, Morais DC, Zung S, Machado FR, Azevedo LCP; COALITION COVID-19 Brazil III Investigators. *JAMA*. 2020 Oct 6;324(13):1307-1316. doi: 10.1001/jama.2020.17021.

2. Evaluating the Clinical Impact of Rapid Response Electroencephalography: The **DECIDE** Multicenter Prospective Observational Clinical Study.

Vespa PM, Olson DM, John S, Hobbs KS, Gururangan K, Nie K, Desai MJ, Markert M, Parvizi J, Bleck TP, Hirsch LJ, Westover MB. *Crit Care Med*. 2020 Sep;48(9):1249-1257. doi: 10.1097/CCM.0000000000004428.

3. STARRT-AKI Investigators; Canadian Critical Care Trials Group; Australian and New Zealand Intensive Care Society Clinical Trials Group; United Kingdom Critical Care Research Group; Canadian Nephrology Trials Network; Irish Critical Care Trials Group, Bagshaw SM, Wald R, Adhikari NKJ, Bellomo R, da Costa BR, Dreyfuss D, Du B, Gallagher MP, Gaudry S, Hoste EA, Lamontagne F, Joannidis M, Landoni G, Liu KD, McAuley DF, McGuinness SP, Neyra JA, Nichol AD, Ostermann M, Palevsky PM, Pettilä V, Quenot JP, Qiu H, Rochwerf B, Schneider AG, Smith OM, Thomé F, Thorpe KE, Vaara S, Weir M, Wang AY, Young P, Zarbock A. Timing of Initiation of Renal-Replacement Therapy in Acute Kidney Injury. *N Engl J Med*. 2020 Jul 16;383(3):240-251. doi: 10.1056/NEJMoa2000741. Erratum in: *N Engl J Med*. 2020 Jul 15;: PMID: 32668114.

4. Effect of **Vitamin C**, Hydrocortisone, and Thiamine vs Hydrocortisone Alone on Time Alive and Free of Vasopressor Support Among Patients With Septic Shock: The **VITAMINS** Randomized Clinical Trial.

Fujii T, Luethi N, Young PJ, Frei DR, Eastwood GM, French CJ, Deane AM, Shehabi Y, Hajjar LA, Oliveira G, Udy AA, Orford N, Edney SJ, Hunt AL, Judd HL, Bitker L, Cioccarri L, Naorungroj T, Yanase F, Bates S, McGain F, Hudson EP, Al-Bassam W, Dwivedi DB, Peppin C, McCracken P, Orosz J, Bailey M, Bellomo R; VITAMINS Trial Investigators. *JAMA*. 2020 Feb 4;323(5):423-431. doi: 10.1001/jama.2019.22176. PMID: 31950979 **Free PMC article**. Clinical Trial.



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Papers that Should Change Your Practice – Trauma

Kelley Sookraj, MD

A multicenter, prospective, controlled clinical trial of surgical stabilization of rib fractures in patients with severe, nonflail fracture patterns (Chest Wall Injury Society NONFLAIL). Fredric M Pieracci 1, Kiara Leasia, Zach Bauman, Evert A Eriksson, Lawrence Lottenberg, Sarah Majercik, Ledford Powell, Babak Sarani, Gregory Semon, Bradley Thomas, Frank Zhao, Cornelius Dyke, Andrew R Doben. J Trauma Acute Care Surg. 2020;88(2):249–257.

Pre-peritoneal pelvic packing for early hemorrhage control reduces mortality compared to resuscitative endovascular balloon occlusion of the aorta in severe blunt pelvic trauma patients: A nationwide analysis. Sarah Mikdad, Inge A.M. van Erp, Mohamad El Moheb, Jason Fawley, Noelle Saillant, David R. King, HaythamM.A. Kaafarani, George Velmahos, April E. Mendoza. Injury 2020 Aug; 51(8):1834-1839

Dewan Y, Komolafe EO, Mejía-Mantilla JH, Perel P, Roberts I, Shakur H; CRASH-3 Collaborators. CRASH-3 - tranexamic acid for the treatment of significant traumatic brain injury: study protocol for an international randomized, double-blind, placebo-controlled trial. Trials. 2012 Jun 21;13:87. doi: 10.1186/1745-6215-13-87. PMID: 22721545; PMCID: PMC3481366.



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Papers that Should Change Your Practice – Miscellaneous

Letitia Bible, MD

Rosenman ED, Vrablik MC, Broliar SM. Targeted Simulation-based Leadership Training for Trauma Team Leaders. *West J Emerg Med*. 2019 May;20(3):520-526. doi: 10.5811/westjem.2019.2.41405. Epub 2019 Apr 16. PMID: 31123555; PMCID: PMC6526881.

Tseng ES, Zakrison TL, Williams B, et al; the Equity, Quality, and Inclusion in Trauma Surgery Practice Ad Hoc Task Force of the Eastern Association for the Surgery of Trauma. Perceptions of Equity and Inclusion in Acute Care Surgery: From the #EAST4ALL Survey. *Ann Surg*. 2020 Dec;272(6):906-910. doi: 10.1097/SLA.0000000000004435. PMID: 33065637.

Hu YY, Ellis RJ, Hewitt DB. Discrimination, Abuse, Harassment, and Burnout in Surgical Residency Training. *N Engl J Med*. 2019 Oct 31;381(18):1741-1752. doi: 10.1056/NEJMsa1903759. Epub 2019 Oct 28. PMID: 31657887; PMCID: PMC6907686.

Livingston DH, La Bagnara S, Sieck D. The Center for Trauma Survivorship: Addressing the great unmet need for posttrauma center care. *J Trauma Acute Care Surg*. 2020 Nov;89(5):940-946. doi: 10.1097/TA.0000000000002775. PMID: 32345893.

Myers SP, Dasari M, Brown JB, et.al. Effects of Gender Bias and Stereotypes in Surgical Training: A Randomized Clinical Trial. *JAMA Surg*. 2020 Jul 1;155(7):552-560. doi: 10.1001/jamasurg.2020.1127. PMID: 32432669; PMCID: PMC7240638.