

2018 Articles of the year

This talk covers 7 positive emergency medicine papers from the last year. The full lecture notes for this talk, including study details and further resources, can be found online:

<https://first10em.com/emu2018/>

April MD, Oliver JJ, Davis WT et al. **Aromatherapy Versus Oral Ondansetron for Antiemetic Therapy Among Adult Emergency Department Patients: A Randomized Controlled Trial.** *Annals of Emergency Medicine.* 2018.

Bottom line: This small, single-center study demonstrated that inhaled isopropyl alcohol reduced nausea at 30 minutes.

Roldan CJ, Chambers KA, Paniagua L, Patel S, Cardenas-Turanzas M, Chathampally Y. **Randomized Controlled Double-blind Trial Comparing Haloperidol Combined With Conventional Therapy to Conventional Therapy Alone in Patients With Symptomatic Gastroparesis.** *Academic emergency medicine.* 2017. PMID: [28646590](#)

Bottom line: This small RCT demonstrated that haloperidol reduced nausea, pain, and admission rates in patients with known gastroparesis.

Driver BE et al. **Flush Rate Oxygen for Emergency Airway Preoxygenation.** *Annals of emergency medicine.* 2017; 69(1):1-6. PMID: [27522310](#)

Bottom line: This cross-over trial in healthy volunteers demonstrated that flush rate oxygen was the best method for pre-oxygenation.

Aycock RD, Westafer LM, Boxen JL, Majlesi N, Schoenfeld EM, Bannuru RR. **Acute Kidney Injury After Computed Tomography: A Meta-analysis.** *Annals of emergency medicine.* 2018; 71(1):44-53.e4. PMID: [28811122](#)

Bottom line: This systematic review and meta-analysis demonstrated no association between contrast CTs and acute kidney injury.

Unneby A, Svensson O, Gustafson Y, Olofsson B. **Femoral nerve block in a representative sample of elderly people with hip fracture: A randomised controlled trial.** *Injury.* 2017; 48(7):1542-1549. PMID: [28501287](#)

Bottom line: This RCT remonstrated a modest improvement in pain and significant reduction in opioid use when femoral nerve blocks were used in elderly patients with hip fractures.

Thelle A et al. **Randomised comparison of needle aspiration and chest tube drainage in spontaneous pneumothorax.** *The European respiratory journal.* 2017; 49(4). PMID: [28404647](#)

Bottom line: This RCT demonstrated shorter length of stay when needle aspiration was used instead of a chest tube to manage spontaneous pneumothorax.

Jiang N, Cao ZH, Ma YF, Lin Z, Yu B. **Management of Pediatric Forearm Torus Fractures: A Systematic Review and Meta-Analysis.** *Pediatric emergency care.* 2016; 32(11):773-778. PMID: [26555307](#)

Bottom line: This systematic review and meta-analysis concludes that non-rigid immobilization is better than a rigid cast in the management of pediatric forearm buckle fractures.