

2016 Practice Changers  
Sugarloaf 2017  
Matthew DeLaney

1. [Mechanical thrombectomy after intravenous alteplase versus alteplase alone after stroke \(THRACE\): a randomised controlled trial.](#)

Bracard S, Ducrocq X, Mas JL, Soudant M, Oppenheim C, Moulin T, Guillemin F; **THRACE** investigators..

Lancet Neurol. 2016 Oct;15(11):1138-47. doi: 10.1016/S1474-4422(16)30177-6.

PMID: 27567239

- Endovascular stroke therapy appears to have decent efficacy (NNT = ~9)
- The majority of patients are not candidates for this therapy.

2. [Trimethoprim-Sulfamethoxazole for Uncomplicated Skin Abscess.](#)

Talan DA, Mower WR, Krishnadasan A.

N Engl J Med. 2016 Jul 21;375(3):285-6. doi: 10.1056/NEJMc1605392. No abstract available.

PMID: 27468069

- For most patients with an abscess, adding TMP/SMX will provide a modest increase in the rate of clinical cure.
- Incision and drainage alone remains a viable option

3. [Immediate total-body CT scanning versus conventional imaging and selective CT scanning in patients with severe trauma \(REACT-2\): a randomised controlled trial.](#)

Sierink JC, Treskes K, Edwards MJ, Beuker BJ, den Hartog D, Hohmann J, Dijkgraaf MG, Luitse JS, Beenen LF, Hollmann MW, Goslings JC; **REACT-2** study group..

Lancet. 2016 Aug 13;388(10045):673-83. doi: 10.1016/S0140-6736(16)30932-1.

- For sick trauma patients, a selective approach to using CT scans performs similarly to a Pan-Scan approach.

4. [qSOFA, SIRS, and Early Warning Scores for Detecting Clinical Deterioration in Infected Patients Outside the ICU.](#)

Churpek MM, Snyder A, Han X, Sokol S, Pettit N, Howell MD, Edelson DP.

Am J Respir Crit Care Med. 2016 Sep 20.

- Despite its hype, qSOFA does not accurately identify septic patients who are at risk of decompensating.
- No clinical scores can take the place of overall clinical gestalt

5. [Effect of Oxygen Desaturations on Subsequent Medical Visits in Infants Discharged From the Emergency Department With Bronchiolitis.](#)

Principi T, Coates AL, Parkin PC, Stephens D, DaSilva Z, Schuh S.

JAMA Pediatr. 2016 Jun 1;170(6):602-8. doi: 10.1001/jamapediatrics.2016.0114.  
PMID: 26928704

- 64% of children who are discharged with bronchiolitis will have significant desaturations at home without any increase in the rate of return visits or adverse outcomes.

6. [Clinical Policy: Critical Issues in the Evaluation of Adult Patients With Suspected Transient Ischemic Attack in the Emergency Department.](#)

American College of Emergency Physicians **Clinical** Policies Subcommittee (Writing Committee) on Suspected **Transient Ischemic** Attack:., Lo BM, Carpenter CR, Hatten BW, Wright BJ, Brown MD.

Ann Emerg Med. 2016 Sep;68(3):354-370.e29. doi: 10.1016/j.annemergmed.2016.06.048.  
Review. No abstract available.

PMID: 27568419

- The ABCD2 scores does not reliably risk stratify patients with TIA
- MRI is a great tool if available but is not required emergently
- MRA and Carotid US may help identify “high risk” patients

7. [Intensive Blood-Pressure Lowering in Patients with Acute Cerebral Hemorrhage.](#)

Qureshi AI, Palesch YY, Barsan WG, Hanley DF, Hsu CY, Martin RL, Moy CS, Silbergleit R, Steiner T, Suarez JI, Toyoda K, Wang Y, Yamamoto H, Yoon BW; **ATACH-2** Trial Investigators and the Neurological Emergency Treatment Trials Network..

N Engl J Med. 2016 Sep 15;375(11):1033-43. doi: 10.1056/NEJMoa1603460.

PMID: 27276234

- For small, non-aneurysmal bleeds, aggressive blood pressure control does not lead to improved patient outcomes.

8. [Same Physician, Different Location, Different Patient Satisfaction Scores.](#)

Bendesky BS, Hunter K, Kirchhoff MA, Jones CW.

Ann Emerg Med. 2016 Nov;68(5):531-535. doi: 10.1016/j.annemergmed.2015.12.021.

PMID: 26875063

- We still have very little idea how to improve patient satisfaction scores

9. [Evaluation of six videolaryngoscopes in 720 patients with a simulated difficult airway: a multicentre randomized controlled trial.](#)

Kleine-Brueggene M, Greif R, Schoettker P, Savoldelli GL, Nabecker S, Theiler LG.

Br J Anaesth. 2016 May;116(5):670-9. doi: 10.1093/bja/aew058.

PMID: 27106971

- Not all videolaryngoscopes are created equal

10. [Prevalence of Pulmonary Embolism among Patients Hospitalized for Syncope.](#)

Prandoni P, Lensing AW, Prins MH, Ciammaichella M, Perlati M, Mumoli N, Bucherini E, Visonà A, Bova C, Imberti D, Campostrini S, Barbar S; **PESIT** Investigators..

N Engl J Med. 2016 Oct 20;375(16):1524-1531.

PMID: 27797317

- Not all patients with syncope need to be evaluated for PE
- Don't overlook clinical clues of possible DVT/PE

11. [Head-Elevated Patient Positioning Decreases Complications of Emergent Tracheal Intubation in the Ward and Intensive Care Unit.](#)

Khandelwal N, Khorsand S, Mitchell SH, Joffe AM.

Anesth Analg. 2016 Apr;122(4):1101-7. doi: 10.1213/ANE.0000000000001184.

PMID: 26866753

- Intubating patients with the head of bed elevated 30 degrees improves intubating conditions and may lead to improved patient outcomes.

12. [Propofol or Ketofol for Procedural Sedation and Analgesia in Emergency Medicine- The POKERStudy: A Randomized Double-Blind Clinical Trial.](#)

Ferguson I, Bell A, Treston G, New L, Ding M, Holdgate A.

Ann Emerg Med. 2016 Nov;68(5):574-582.e1. doi: 10.1016/j.annemergmed.2016.05.024.

PMID: 27460905

- Propofol works, Ketamine works, Ketofol works.
- Choose what you are most comfortable using.

13. [Risk of Acute Kidney Injury After Intravenous Contrast Media Administration.](#)

Hinson JS, Ehmann MR, Fine DM, Fishman EK, Toerper MF, Rothman RE, Klein EY.

Ann Emerg Med. 2017 Jan 19. pii: S0196-0644(16)31388-9. doi:

10.1016/j.annemergmed.2016.11.021. [Epub ahead of print]

PMID: 28131489

- There is NO association between AKI and exposure to IV contrast
- Radiology will almost certainly disagree with you