

## Tulane Critical Care Project Top Articles for March 2017

AJRCM

1. [Sevoflurane for Sedation in Acute Respiratory Distress Syndrome. A Randomized Controlled Pilot Study.](#)

Jabaudon M, Boucher P, Imhoff E, Chabanne R, Faure JS, Roszyk L, Thibault S, Blondonnet R, Clairefond G, Guérin R, Perbet S, Cayot S, Godet T, Pereira B, Sapin V, Bazin JE, Futier E, Constantin JM.

Am J Respir Crit Care Med. 2017 Mar 15;195(6):792-800. doi: 10.1164/rccm.201604-0686OC. PMID: 27611637

2. [Epidemiology of Weaning Outcome according to a New Definition. The WIND Study.](#)

Béduneau G, Pham T, Schortgen F, Piquilloud L, Zogheib E, Jonas M, Grelon F, Runge I, Nicolas Terzi, Grangé S, Barberet G, Guitard PG, Frat JP, Constan A, Chretien JM, Mancebo J, Mercat A, Richard JM, Brochard L; WIND (**Weaning** according to a New Definition) Study Group and the REVA (Réseau Européen de Recherche en Ventilation Artificielle) Network ‡.

Am J Respir Crit Care Med. 2017 Mar 15;195(6):772-783. doi: 10.1164/rccm.201602-0320OC. PMID:27626706

3. [Experimental Lung Injury Reduces Krüppel-like Factor 2 to Increase Endothelial Permeability via Regulation of RAPGEF3-Rac1 Signaling.](#)

Huang RT, Wu D, Meliton A, Oh MJ, Krause M, Lloyd JA, Nigdelioglu R, Hamanaka RB, Jain MK, Birukova A, Kress JP, Birukov KG, Mutlu GM, Fang Y.

Am J Respir Crit Care Med. 2017 Mar 1;195(5):639-651. doi: 10.1164/rccm.201604-0668OC. PMID:27855271

Trauma/Acute Care Surgery

4. [Ultrasound assessment of volume responsiveness in critically ill surgical patients: Two measurements are better than one.](#)

Murthi SB, Fatima S, Menne AR, Glaser JJ, Galvagno SM, Biederman S, Fang R, Chen H, Scalea TM.

J Trauma Acute Care Surg. 2017 Mar;82(3):505-511. doi: 10.1097/TA.0000000000001331. PMID:28030505

5. [Stapled versus hand-sewn: A prospective emergency surgery study. An American Association for the Surgery of Trauma multi-institutional study.](#)

Bruns BR, Morris DS, Zielinski M, Mowery NT, Miller PR, Arnold K, Phelan HA, Murry J, Turay D, Fam J, Oh JS, Gunter OL, Enniss T, Love JD, Skarupa D, Bennis M, Fathalizadeh A, Leung PS, Carrick MM, Jewett B, Sakran J, O'Meara L, Herrera AV, Chen H, Scalea TM, Diaz JJ.

J Trauma Acute Care Surg. 2017 Mar;82(3):435-443. doi: 10.1097/TA.0000000000001354. PMID: 28030492

6. [Rib fracture fixation in the 65 years and older population: A paradigm shift in management strategy at a Level I trauma center.](#)

Fitzgerald MT, Ashley DW, Abukhdeir H, Christie DB 3rd.

J Trauma Acute Care Surg. 2017 Mar;82(3):524-527. doi: 10.1097/TA.0000000000001330. PMID: 28030506

## CHEST

### [7. Mechanisms of Vascular Dysfunction in COPD and Effects of a Novel Soluble Epoxide Hydrolase Inhibitor in Smokers.](#)

Yang L, Cheriyan J, Gutterman DD, Mayer RJ, Ament Z, Griffin JL, Lazaar AL, Newby DE, Tal-Singer R, Wilkinson IB.

Chest. 2017 Mar;151(3):555-563. doi: 10.1016/j.chest.2016.10.058. Epub 2016 Nov 21. PMID: 27884766

### [8. Systemic Inflammatory Response Syndrome, Quick Sequential Organ Function Assessment, and Organ Dysfunction: Insights From a Prospective Database of ED Patients With Infection.](#)

Williams JM, Greenslade JH, McKenzie JV, Chu K, Brown AF, Lipman J.

Chest. 2017 Mar;151(3):586-596. doi: 10.1016/j.chest.2016.10.057. Epub 2016 Nov 19. PMID: 27876592

### [9. Prevalence and Localization of Pulmonary Embolism in Unexplained Acute Exacerbations of COPD: A Systematic Review and Meta-analysis.](#)

Aleva FE, Voets LW, Simons SO, de Mast Q, van der Ven AJ, Heijdra YF.

Chest. 2017 Mar;151(3):544-554. doi: 10.1016/j.chest.2016.07.034. Epub 2016 Aug 12. PMID: 27522956

## NEJM

### [10. Rivaroxaban or Aspirin for Extended Treatment of Venous Thromboembolism.](#)

Weitz JI, Lensing AW, Prins MH, Bauersachs R, Beyer-Westendorf J, Bounameaux H, Brighton TA, Cohen AT, Davidson BL, Decousus H, Freitas MC, Holberg G, Kakkar AK, Haskell L, van Bellen B, Pap AF, Berkowitz SD, Verhamme P, Wells PS, Prandoni P; EINSTEIN CHOICE Investigators..

N Engl J Med. 2017 Mar 30;376(13):1211-1222. doi: 10.1056/NEJMoa1700518. Epub 2017 Mar 18. PMID: 28316279

### [11. Prevention of Hereditary Angioedema Attacks with a Subcutaneous C1 Inhibitor.](#)

Longhurst H, Cicardi M, Craig T, Bork K, Grattan C, Baker J, Li HH, Reshef A, Bonner J, Bernstein JA, Anderson J, Lumry WR, Farkas H, Katelaris CH, Sussman GL, Jacobs J, Riedl M, Manning ME, Hebert J, Keith PK, Kivity S, Neri S, Levy DS, Baeza ML, Nathan R, Schwartz LB, Caballero T, Yang W, Crisan I, Hernandez MD, Hussain I, Tarzi M, Ritchie B, Králíčková P, Guilarte M, Rehman SM, Banerji A, Gower RG, Bensen-Kennedy D, Edelman J, Feuersenger H, Lawo JP, Machnig T, Pawaskar D, Pragst I, Zuraw BL; COMPACT Investigators..

N Engl J Med. 2017 Mar 23;376(12):1131-1140. doi: 10.1056/NEJMoa1613627. PMID: 28328347

### [12. Fractional Flow Reserve-Guided Multivessel Angioplasty in Myocardial Infarction.](#)

Smits PC, Abdel-Wahab M, Neumann FJ, Boxma-de Klerk BM, Lunde K, Schotborgh CE, Piroth Z, Horak D, Wlodarczak A, Ong PJ, Hambrecht R, Angerås O, Richardt G, Omerovic E; Compare-Acute Investigators..

N Engl J Med. 2017 Mar 30;376(13):1234-1244. doi: 10.1056/NEJMoa1701067. Epub 2017 Mar 18. PMID: 28317428

JAMA, ICM

13. [Video Laryngoscopy vs Direct Laryngoscopy on Successful First-Pass Orotracheal Intubation Among ICU Patients: A Randomized Clinical Trial.](#)

Lascarrou JB, Boisrame-Helms J, Bailly A, Le Thuaut A, Kamel T, Mercier E, Ricard JD, Lemiale V, Colin G, Mira JP, Meziani F, Messika J, Dequin PF, Boulain T, Azoulay E, Champigneulle B, Reignier J; Clinical Research in Intensive Care and Sepsis (CRICS) Group.. JAMA. 2017 Feb 7;317(5):483-493. doi: 10.1001/jama.2016.20603. PMID: 28118659

14. [Severe hypercapnia and outcome of mechanically ventilated patients with moderate or severe acute respiratory distress syndrome.](#)

Nin N, Muriel A, Peñuelas O, Brochard L, Lorente JA, Ferguson ND, Raymondos K, Ríos F, Violi DA, Thille AW, González M, Villagomez AJ, Hurtado J, Davies AR, Du B, Maggiore SM, Soto L, D'Empaire G, Matamis D, Abroug F, Moreno RP, Soares MA, Arabi Y, Sandi F, Jibaja M, Amin P, Koh Y, Kuiper MA, Bülow HH, Zeggwagh AA, Anzueto A, Sznajder JI, Esteban A; VENTILA Group..

Intensive Care Med. 2017 Feb;43(2):200-208. doi: 10.1007/s00134-016-4611-1. Epub 2017 Jan 20. PMID:28108768

15. [Assessment of heart rate, acidosis, consciousness, oxygenation, and respiratory rate to predict noninvasive ventilation failure in hypoxemic patients.](#)

Duan J, Han X, Bai L, Zhou L, Huang S.

Intensive Care Med. 2017 Feb;43(2):192-199. doi: 10.1007/s00134-016-4601-3. Epub 2016 Nov 3. PMID: 27812731

BMJ, LANCET

16. [Hyperoxia and hypertonic saline in patients with septic shock \(HYPER2S\): a two-by-two factorial, multicentre, randomised, clinical trial.](#)

Asfar P, Schortgen F, Boissramé-Helms J, Charpentier J, Guérot E, Megarbane B, Grimaldi D, Grelon F, Anguel N, Lasocki S, Henry-Lagarrigue M, Gonzalez F, Legay F, Guitton C, Schenck M, Doise JM, Devaquet J, Van Der Linden T, Chatellier D, Rigaud JP, Dellamonica J, Tamion F, Meziani F, Mercat A, Dreyfuss D, Seegers V, Radermacher P; HYPER2S Investigators.; REVA research network..

Lancet Respir Med. 2017 Mar;5(3):180-190. doi: 10.1016/S2213-2600(17)30046-2. Epub 2017 Feb 15. PMID: 28219612

17. [Expected effects of adopting a 9 month regimen for multidrug-resistant tuberculosis: a population modelling analysis.](#)

Kendall EA, Fojo AT, Dowdy DW.

Lancet Respir Med. 2017 Mar;5(3):191-199. doi: 10.1016/S2213-2600(16)30423-4. Epub 2016 Dec 16. PMID: 27989591

18. [Association between concurrent use of prescription opioids and benzodiazepines and overdose: retrospective analysis.](#)

Sun EC, Dixit A, Humphreys K, Darnall BD, Baker LC, Mackey S.

BMJ. 2017 Mar 14;356:j760. doi: 10.1136/bmj.j760.

PMID: 28292769

Circulation

19. [2016 AHA/ACC Guideline on the Management of Patients With Lower Extremity Peripheral Artery Disease: Executive Summary: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines.](#)

Gerhard-Herman MD, Gornik HL, Barrett C, Barshes NR, Corriere MA, Drachman DE, Fleisher LA, Fowkes FG, Hamburg NM, Kinlay S, Lookstein R, Misra S, Mureebe L, Olin JW, Patel RA, Regensteiner JG, Schanzer A, Shishehbor MH, Stewart KJ, Treat-Jacobson D, Walsh ME.

Circulation. 2017 Mar 21;135(12):e686-e725. doi: 10.1161/CIR.0000000000000470. Epub 2016 Nov 13. Review. No abstract available. Erratum in: [Circulation. 2017 Mar 21;135\(12\):e790.](#) PMID: 27840332

20. [Releasing the Brakes on the Fibrinolytic System in Pulmonary Emboli: Unique Effects of Plasminogen Activation and  \$\alpha\$ 2-Antiplasmin Inactivation.](#)

Singh S, Houg A, Reed GL.

Circulation. 2017 Mar 14;135(11):1011-1020. doi: 10.1161/CIRCULATIONAHA.116.024421. Epub 2016 Dec 27.

PMID:28028005

21. [Use of Intravenous Recombinant Tissue Plasminogen Activator in Patients With Acute Ischemic Stroke Who Take Non-Vitamin K Antagonist Oral Anticoagulants Before Stroke.](#)

Xian Y, Federspiel JJ, Hernandez AF, Laskowitz DT, Schwamm LH, Bhatt DL, Smith EE, Fonarow GC, Peterson ED.

Circulation. 2017 Mar 14;135(11):1024-1035. doi: 10.1161/CIRCULATIONAHA.116.023940. Epub 2017 Jan 24.

PMID: 28119380

Critical Care

22. [Corticosteroids in septic shock: a systematic review and network meta-analysis.](#)

Gibbison B, López-López JA, Higgins JP, Miller T, Angelini GD, Lightman SL, Annane D.

Crit Care. 2017 Mar 28;21(1):78. doi: 10.1186/s13054-017-1659-4. PMID: 28351429

23. [Life-threatening massive pulmonary embolism rescued by venoarterial-extracorporeal membrane oxygenation.](#)

Corsi F, Lebreton G, Bréchet N, Hekimian G, Nieszkowska A, Trouillet JL, Luyt CE, Leprince P, Chastre J, Combes A, Schmidt M.

Crit Care. 2017 Mar 28;21(1):76. doi: 10.1186/s13054-017-1655-8. PMID:28347320

24. [Comparison of qSOFA and SIRS for predicting adverse outcomes of patients with suspicion of sepsis outside the intensive care unit.](#)

Finkelsztejn EJ, Jones DS, Ma KC, Pabón MA, Delgado T, Nakahira K, Arbo JE, Berlin DA, Schenck EJ, Choi AM, Siempos II.

Crit Care. 2017 Mar 26;21(1):73. doi: 10.1186/s13054-017-1658-5.

PMID: 28342442

Intensive Care

25. [Hidden Obligatory Fluid Intake in Critical Care Patients.](#)

Bashir MU, Tawil A, Mani VR, Farooq U, A DeVita M.

J Intensive Care Med. 2017 Mar;32(3):223-227. doi: 10.1177/0885066615625181. Epub 2016 Jul 7. PMID:26768425

26. [Low Transmission of Airway Pressures to the Abdomen in Mechanically Ventilated Patients With or Without Acute Respiratory Failure and Intra-Abdominal Hypertension.](#)

Heijnen BG, Spoelstra-de Man AM, Groeneveld AB.

J Intensive Care Med. 2017 Mar;32(3):218-222. doi: 10.1177/0885066615625180. Epub 2016 Jul 7. PMID: 26732769

27. [The Diagnostic and Therapeutic Impact of Point-of-Care Ultrasonography in the Intensive Care Unit.](#)

Bernier-Jean A, Albert M, Shiloh AL, Eisen LA, Williamson D, Beaulieu Y.

J Intensive Care Med. 2017 Mar;32(3):197-203. doi: 10.1177/0885066615606682. Epub 2016 Jul 9. PMID:26423745

Critical Care Medicine

28. [Measuring Moral Distress Among Critical Care Clinicians: Validation and Psychometric Properties of the Italian Moral Distress Scale-Revised.](#)

Lamiani G, Setti I, Barlascini L, Vegni E, Argentero P.

Crit Care Med. 2017 Mar;45(3):430-437. doi: 10.1097/CCM.0000000000002187. PMID:27930369

29. [Pulmonary Arterial Compliance in Acute Respiratory Distress Syndrome: Clinical Determinants and Association With Outcome From the Fluid and Catheter Treatment Trial Cohort.](#)

Metkus TS, Tampakakis E, Mullin CJ, Houston BA, Kolb TM, Mathai SC, Damico R, Maron BA, Hassoun PM, Brower RG, Tedford RJ.

Crit Care Med. 2017 Mar;45(3):422-429. doi: 10.1097/CCM.0000000000002186. PMID:27941369

30. [Prophylaxis of Venous Thrombosis in Neurocritical Care Patients: An Executive Summary of Evidence-Based Guidelines: A Statement for Healthcare Professionals From the Neurocritical Care Society and Society of Critical Care Medicine.](#)

Nyquist P, Jichici D, Bautista C, Burns J, Chhangani S, DeFilippis M, Goldenberg FD, Kim K, Liu-DeRyke X, Mack W, Meyer K.

Crit Care Med. 2017 Mar;45(3):476-479. doi: 10.1097/CCM.0000000000002247. No abstract available.  
PMID:28085682