

Top Critical Care Articles For February 2017

AJRCM

1. [Acute Respiratory Distress Syndrome Subphenotypes Respond Differently to Randomized Fluid Management Strategy.](#)

Famous KR, Delucchi K, Ware LB, Kangelaris KN, Liu KD, Thompson BT, Calfee CS; ARDS Network.

Am J Respir Crit Care Med. 2017 Feb 1;195(3):331-338. doi: 10.1164/rccm.201603-0645OC. PMID:27513822

2. [Mitigation of Ventilator-induced Diaphragm Atrophy by Transvenous Phrenic Nerve Stimulation.](#)

Reynolds SC, Meyyappan R, Thakkar V, Tran BD, Nolette MA, Sadarangani G, Sandoval RA, Bruulsema L, Hannigan B, Li JW, Rohrs E, Zurba J, Hoffer JA.

Am J Respir Crit Care Med. 2017 Feb 1;195(3):339-348. doi: 10.1164/rccm.201502-0363OC. PMID: 27500981

3. [Anti-N-Methyl-d-Aspartate Receptor Encephalitis in Adult Patients Requiring Intensive Care.](#)

de Montmollin E, Demeret S, Brulé N, Conrad M, Dailler F, Lerolle N, Navellou JC, Schwebel C, Alves M, Cour M, Engrand N, Tonnelier JM, Maury E, Ruckly S, Picard G, Rogemond V, Magalhaes É, Sharshar T, Timsit JF, Honnorat J, Sonnevile R; ENCEPHALITICA Study Group

Am J Respir Crit Care Med. 2017 Feb 15;195(4):491-499. doi: 10.1164/rccm.201603-0507OC. PMID: 27552490

Trauma/Acute Care Surgery

4. [Acute right heart failure after hemorrhagic shock and trauma pneumonectomy-a management approach: A blinded randomized controlled animal trial using inhaled nitric oxide.](#)

Lubitz AL, Sjöholm LO, Goldberg A, Pathak A, Santora T, Sharp TE 3rd, Wallner M, Berretta RM, Poole LA, Wu J, Wolfson MR.

J Trauma Acute Care Surg. 2017 Feb;82(2):243-251. doi: 10.1097/TA.0000000000001325. PMID: 28107308

5. [Treatments and other prognostic factors in the management of the open abdomen: A systematic review.](#)

Cristaudo AT, Jennings SB, Hitos K, Gunnarsson R, DeCosta A.

J Trauma Acute Care Surg. 2017 Feb;82(2):407-418. doi: 10.1097/TA.0000000000001314. PMID: 27918375

6. [Model of trauma-induced coagulopathy including hemodilution, fibrinolysis, acidosis, and hypothermia: Impact on blood coagulation and platelet function.](#)

Shenkman B, Budnik I, Einav Y, Hauschner H, Andrejchin M, Martinowitz U.

J Trauma Acute Care Surg. 2017 Feb;82(2):287-292. doi: 10.1097/TA.0000000000001282.

PMID: 27779583

CHEST

7. [Accuracy of Lung Ultrasonography in the Diagnosis of Pneumonia in Adults: Systematic Review and Meta-Analysis.](#)

Llamas-Álvarez AM, Tenza-Lozano EM, Latour-Pérez J.

Chest. 2017 Feb;151(2):374-382. doi: 10.1016/j.chest.2016.10.039. PMID: 27818332

8. [Estimating Ten-Year Trends in Septic Shock Incidence and Mortality in United States Academic Medical Centers Using Clinical Data.](#)

Kadri SS, Rhee C, Strich JR, Morales MK, Hohmann S, Menchaca J, Suffredini AF, Danner RL, Klompas M. Chest. 2017 Feb;151(2):278-285. doi: 10.1016/j.chest.2016.07.010. PMID: 27452768

9. [Efficacy and Safety of Glycopyrrolate/Formoterol Metered Dose Inhaler Formulated Using Co-Suspension Delivery Technology in Patients With COPD.](#)

Martinez FJ, Rabe KF, Ferguson GT, Fabbri LM, Rennard S, Feldman GJ, Sethi S, Spangenthal S, Gottschlich GM, Rodriguez-Roisin R, Arora S, Siler TM, Siddiqui S, Darken P, Fischer T, Maes A, Golden M, Orevillo C, Reisner C.

Chest. 2017 Feb;151(2):340-357. doi: 10.1016/j.chest.2016.11.028.PMID: 27916620

NEJM

10. [Osimertinib or Platinum-Pemetrexed in EGFR T790M-Positive Lung Cancer.](#)

Mok TS, Wu YL, Ahn MJ, Garassino MC, Kim HR, Ramalingam SS, Shepherd FA, He Y, Akamatsu H, Theelen WS, Lee CK, Sebastian M, Templeton A, Mann H, Marotti M, Ghiorghiu S, Papadimitrakopoulou VA; AURA3 Investigators..

N Engl J Med. 2017 Feb 16;376(7):629-640. doi: 10.1056/NEJMoa1612674. PMID: 27959700

11. [Tight Glycemic Control in Critically Ill Children.](#)

Agus MS, Wypij D, Hirshberg EL, Srinivasan V, Faustino EV, Luckett PM, Alexander JL, Asaro LA, Curley MA, Steil GM, Nadkarni VM; HALF-PINT Study Investigators and the PALISI Network..

N Engl J Med. 2017 Feb 23;376(8):729-741. doi: 10.1056/NEJMoa1612348.PMID: 28118549

12. [Intrapericardial Left Ventricular Assist Device for Advanced Heart Failure.](#)

Rogers JG, Pagani FD, Tatooles AJ, Bhat G, Slaughter MS, Birks EJ, Boyce SW, Najjar SS, Jeevanandam V, Anderson AS, Gregoric ID, Mallidi H, Leadley K, Aaronson KD, Frazier OH, Milano CA.

N Engl J Med. 2017 Feb 2;376(5):451-460. doi: 10.1056/NEJMoa1602954. PMID: 28146651

JAMA, ICM

13. [Prognostic Accuracy of Sepsis-3 Criteria for In-Hospital Mortality Among Patients With Suspected Infection Presenting to the Emergency Department.](#)

Freund Y, Lemachatti N, Krastinova E, Van Laer M, Claessens YE, Avondo A, Occelli C, Feral-Pierssens AL, Truchot J, Ortega M, Carneiro B, Pernet J, Claret PG, Dami F, Bloom B, Riou B, Beaune S; French Society of Emergency Medicine Collaborators Group..

JAMA. 2017 Jan 17;317(3):301-308. doi: 10.1001/jama.2016.20329. PMID: 28114554

14. [Increased incidence of co-infection in critically ill patients with influenza.](#)

Martin-Loeches I, J Schultz M, Vincent JL, Alvarez-Lerma F, Bos LD, Solé-Violán J, Torres A, Rodriguez A.

Intensive Care Med. 2017 Jan;43(1):48-58. doi: 10.1007/s00134-016-4578-y. PMID: 27709265

15. [The effects of performance status one week before hospital admission on the outcomes of critically ill patients.](#)

Zampieri FG, Bozza FA, Morales GM, Mazza DD, Scotti AV, Santino MS, Ribeiro RA, Rodrigues Filho EM, Cabral MM, Maia MO, D'Alessandro PS, Oliveira SV, Menezes MA, Caser EB, Lannes RS, Alencar Neto MS, Machado MM, Sousa MF, Salluh JI, Soares M.

Intensive Care Med. 2017 Jan;43(1):39-47. doi: 10.1007/s00134-016-4563-5. PMID: 27686352

BMJ, LANCET

16. [Risk of heart failure after community acquired pneumonia: prospective controlled study with 10 years of follow-up.](#)

Eurich DT, Marrie TJ, Minhas-Sandhu JK, Majumdar SR.

BMJ. 2017 Feb 13;356:j413. doi: 10.1136/bmj.j413. PMID: 28193610

17. [Outcomes after transplantation of lungs preserved for more than 12 h: a retrospective study.](#)

Yeung JC, Krueger T, Yasufuku K, de Perrot M, Pierre AF, Waddell TK, Singer LG, Keshavjee S, Cypel M.

Lancet Respir Med. 2017 Feb;5(2):119-124. doi: 10.1016/S2213-2600(16)30323-X. PMID: 27866861

18. [Intravenous zanamivir or oral oseltamivir for hospitalised patients with influenza: an international, randomised, double-blind, double-dummy, phase 3 trial.](#)

Marty FM, Vidal-Puigserver J, Clark C, Gupta SK, Merino E, Garot D, Chapman MJ, Jacobs F, Rodriguez-Noriega E, Husa P, Shortino D, Watson HA, Yates PJ, Peppercorn AF.

Lancet Respir Med. 2017 Feb;5(2):135-146. doi: 10.1016/S2213-2600(16)30435-0. PMID: 28094141

Circulation

19. [Extended-Duration Betrixaban Reduces the Risk of Stroke Versus Standard-Dose Enoxaparin Among Hospitalized Medically Ill Patients: An APEX Trial Substudy \(Acute Medically Ill Venous Thromboembolism Prevention With Extended Duration Betrixaban\).](#)

Gibson CM, Chi G, Halaby R, Korjian S, Daaboul Y, Jain P, Arbetter D, Goldhaber SZ, Hull R, Hernandez AF, Gold A, Bandman O, Harrington RA, Cohen AT; APEX Investigators..

Circulation. 2017 Feb 14;135(7):648-655. doi: 10.1161/CIRCULATIONAHA.116.025427. PMID: 27881569

20. [Cardiovascular and Ventilatory Consequences of Laparoscopic Surgery.](#)

Atkinson TM, Giraud GD, Togioka BM, Jones DB, Cigarroa JE.

Circulation. 2017 Feb 14;135(7):700-710. doi: 10.1161/CIRCULATIONAHA.116.023262. PMID: 28193800

21. [Direct Oral Anticoagulants in Patients With Atrial Fibrillation and Valvular Heart Disease Other Than Significant Mitral Stenosis and Mechanical Valves: A Meta-Analysis.](#)

Siontis KC, Yao X, Gersh BJ, Noseworthy PA.

Circulation. 2017 Feb 14;135(7):714-716. doi: 10.1161/CIRCULATIONAHA.116.026793. No abstract available.

PMID: 28193802

Critical Care

22. [Use of stepwise lactate kinetics-oriented hemodynamic therapy could improve the clinical outcomes of patients with sepsis-associated hyperlactatemia.](#)

Zhou X, Liu D, Su L, Yao B, Long Y, Wang X, Chai W, Cui N, Wang H, Rui X.

Crit Care. 2017 Feb 16;21(1):33. doi: 10.1186/s13054-017-1617-1. PMID: 28202033

23. [The effects of low tidal ventilation on lung strain correlate with respiratory system compliance.](#)

Xie J, Jin F, Pan C, Liu S, Liu L, Xu J, Yang Y, Qiu H.

Crit Care. 2017 Feb 3;21(1):23. doi: 10.1186/s13054-017-1600-x. PMID: 28159013

24. [A randomized placebo-controlled phase II study of a Pseudomonas vaccine in ventilated ICU patients.](#)

Rello J, Krenn CG, Locker G, Pilger E, Madl C, Balica L, Dugernier T, Laterre PF, Spapen H, Depuydt P, Vincent JL, Bogár L, Szabó Z, Völgyes B, Máñez R, Cakar N, Ramazanoglu A, Topeli A, Mastruzzo MA, Jasovich A, Remolif CG, Del Carmen Soria L, Andresen Hernandez MA, Ruiz Balart C, Krémer I, Molnár Z, von Sonnenburg F, Lyons A, Joannidis M, Burgmann H, Welte T, Klingler A, Hochreiter R, Westritschnig K.

Crit Care. 2017 Feb 4;21(1):22. doi: 10.1186/s13054-017-1601-9. PMID: 28159015

Intensive Care

25. [Evaluation of Neuroleptic Utilization in the Intensive Care Unit During Transitions of Care.](#)

Gilbert B, Morales JR, Searcy RJ, Johnson DW, Ferreira JA.

J Intensive Care Med. 2017 Feb;32(2):158-162. doi: 10.1177/0885066615622424.

PMID:28103769

26. [Radiographic and Clinical Predictors of Cardiac Dysfunction Following Isolated Traumatic Brain Injury.](#)

Urdaneta AE, Fink KR, Krishnamoorthy V, Rowhani-Rahbar A, Vavilala MS.

J Intensive Care Med. 2017 Feb;32(2):151-157. doi: 10.1177/0885066615616907.

PMID:26584593

27. [Detection of Ventilator Autotriggering by an Esophageal Catheter Used to Monitor the Neural Input and Diaphragm Excitation.](#)

Sangha H, Whitacre T.

J Intensive Care Med. 2017 Feb;32(2):170-173. doi: 10.1177/0885066616674192.

PMID:27798315

Critical Care Medicine

28. [Higher Fluid Balance Increases the Risk of Death From Sepsis: Results From a Large International Audit.](#)

Sakr Y, Rubatto Birri PN, Kotfis K, Nanchal R, Shah B, Kluge S, Schroeder ME, Marshall JC, Vincent JL; Intensive Care Over Nations Investigators..

Crit Care Med. 2017 Mar;45(3):386-394. doi: 10.1097/CCM.0000000000002189. PMID: 27922878

29. [Survival Benefit and Cost Savings From Compliance With a Simplified 3-Hour Sepsis Bundle in a Series of Prospective, Multisite, Observational Cohorts.](#)

Leisman DE, Doerfler ME, Ward MF, Masick KD, Wie BJ, Gribben JL, Hamilton E, Klein Z, Bianculli AR, Akerman MB, D'Angelo JK, D'Amore JA.

Crit Care Med. 2017 Mar;45(3):395-406. doi: 10.1097/CCM.0000000000002184. PMID: 27941371

30. [Widespread Down-Regulation of Cardiac Mitochondrial and Sarcomeric Genes in Patients With Sepsis.](#)

Matkovich SJ, Al Khiami B, Efimov IR, Evans S, Vader J, Jain A, Brownstein BH, Hotchkiss RS, Mann DL.

Crit Care Med. 2017 Mar;45(3):407-414. doi: 10.1097/CCM.0000000000002207. PMID: 28067713