

## TOP ARTICLES FOR January 2017

AJRCM

1. [Noninvasive Ventilation of Patients with Acute Respiratory Distress Syndrome. Insights from the LUNG SAFE Study.](#)

Bellani G, Laffey JG, Pham T, Madotto F, Fan E, Brochard L, Esteban A, Gattinoni L, Bumbasirevic V, Piquilloud L, van Haren F, Larsson A, McAuley DF, Bauer PR, Arabi YM, Ranieri M, Antonelli M, Rubenfeld GD, Thompson BT, Wrigge H, Slutsky AS, Pesenti A; LUNG SAFE Investigators.; ESICM Trials Group..

Am J Respir Crit Care Med. 2017 Jan 1;195(1):67-77. doi: 10.1164/rccm.201606-1306OC.

PMID:27753501

2. [Coexistence and Impact of Limb Muscle and Diaphragm Weakness at Time of Liberation from Mechanical Ventilation in Medical Intensive Care Unit Patients.](#)

Dres M, Dubé BP, Mayaux J, Delemazure J, Reuter D, Brochard L, Similowski T, Demoule A.

Am J Respir Crit Care Med. 2017 Jan 1;195(1):57-66. doi: 10.1164/rccm.201602-0367OC.

PMID:27310484

3. [Incidence, Predictors, and Outcomes of New-Onset Atrial Fibrillation in Critically Ill Patients with Sepsis. A Cohort Study.](#)

Klein Klouwenberg PM, Frencken JF, Kuipers S, Ong DS, Peelen LM, van Vught LA, Schultz MJ, van der Poll T, Bonten MJ, Cremer OL; MARS Consortium \* ..

Am J Respir Crit Care Med. 2017 Jan 15;195(2):205-211. doi: 10.1164/rccm.201603-0618OC.

PMID:27467907

Trauma/Acute Care Surgery

4. [Rapid thrombelastography thresholds for goal-directed resuscitation of patients at risk for massive transfusion.](#)

Einersen PM, Moore EE, Chapman MP, Moore HB, Gonzalez E, Silliman CC, Banerjee A, Sauaia A.

J Trauma Acute Care Surg. 2017 Jan;82(1):114-119. doi: 10.1097/TA.0000000000001270. PMID:27805995

5. [Mitochondrial DNA damage associated molecular patterns in ventilator-associated pneumonia: Prevention and reversal by intratracheal DNase I.](#)

Simmons JD, Freno DR, Muscat CA, Obiako B, Lee YL, Pastukh VM, Brevard SB, Gillespie MN.

J Trauma Acute Care Surg. 2017 Jan;82(1):120-125. doi: 10.1097/TA.0000000000001269. PMID: 27787436

6. [When are CT angiograms indicated for patients with lower extremity fractures? A review of 275 extremities.](#)

Monazzam S, Goodell PB, Salcedo ES, Nelson SH, Wolinsky PR.

J Trauma Acute Care Surg. 2017 Jan;82(1):133-137. doi: 10.1097/TA.0000000000001258. PMID: 27602910

CHEST

7. [Effect of Procalcitonin Testing on Health-care Utilization and Costs in Critically Ill Patients in the United States.](#)

Balk RA, Kadri SS, Cao Z, Robinson SB, Lipkin C, Bozzette SA.

Chest. 2017 Jan;151(1):23-33. doi: 10.1016/j.chest.2016.06.046. PMID:27568580

8. [Clinical Relevance of Fluid Challenge in Patients Evaluated for Pulmonary Hypertension.](#)

D'Alto M, Romeo E, Argiento P, Motoji Y, Correra A, Di Marco GM, Iacono AM, Barracano R, D'Andrea A, Rea G, Sarubbi B, Russo MG, Naeije R.

Chest. 2017 Jan;151(1):119-126. doi: 10.1016/j.chest.2016.08.1439.PMID: 27575357

9. [Effectiveness of a Critical Care Ultrasonography Course.](#)

Greenstein YY, Littauer R, Narasimhan M, Mayo PH, Koenig SJ.

Chest. 2017 Jan;151(1):34-40. doi: 10.1016/j.chest.2016.08.1465. PMID: 27645689

NEJM

10. [Therapeutic Hypothermia after In-Hospital Cardiac Arrest in Children.](#)

Moler FW, Silverstein FS, Holubkov R, Slomine BS, Christensen JR, Nadkarni VM, Meert KL, Browning B, Pemberton VL, Page K, Gildea MR, Scholefield BR, Shankaran S, Hutchison JS, Berger JT, Ofori-Amanfo G, Newth CJ, Topjian A, Bennett KS, Koch JD, Pham N, Chanani NK, Pineda JA, Harrison R, Dalton HJ, Alten J, Schleien CL, Goodman DM, Zimmerman JJ, Bhalala US, Schwarz AJ, Porter MB, Shah S, Fink EL, McQuillen P, Wu T, Skellett S, Thomas NJ, Nowak JE, Baines PB, Pappachan J, Mathur M, Lloyd E, van der Jagt EW, Dobyens EL, Meyer MT, Sanders RC Jr, Clark AE, Dean JM; THAPCA Trial Investigators..

N Engl J Med. 2017 Jan 26;376(4):318-329. doi: 10.1056/NEJMoa1610493. PMID: 28118559

11. [Epidemiology of Acute Kidney Injury in Critically Ill Children and Young Adults.](#)

Kaddourah A, Basu RK, Bagshaw SM, Goldstein SL; AWARE Investigators..

N Engl J Med. 2017 Jan 5;376(1):11-20. doi: 10.1056/NEJMoa1611391. PMID: 27959707

12. [Bezlotoxumab for Prevention of Recurrent Clostridium difficile Infection.](#)

Wilcox MH, Gerding DN, Poxton IR, Kelly C, Nathan R, Birch T, Cornely OA, Rahav G, Bouza E, Lee C, Jenkin G, Jensen W, Kim YS, Yoshida J, Gabryelski L, Pedley A, Eves K, Tipping R, Guris D, Kartsonis N, Dorr MB; MODIFY I and MODIFY II Investigators..

N Engl J Med. 2017 Jan 26;376(4):305-317. doi: 10.1056/NEJMoa1602615. PMID: 28121498

JAMA, ICM

13. [Apnoeic oxygenation via high-flow nasal cannula oxygen combined with non-invasive ventilation preoxygenation for intubation in hypoxaemic patients in the intensive care unit: the single-centre, blinded, randomised controlled OPTINIV trial.](#)

Jaber S, Monnin M, Girard M, Conseil M, Cisse M, Carr J, Mahul M, Delay JM, Belafia F, Chanques G, Molinari N, De Jong A.

Intensive Care Med. 2016 Dec;42(12):1877-1887. PMID: 27730283

14. [Effect of early postextubation high-flow nasal cannula vs conventional oxygen therapy on hypoxaemia in patients after major abdominal surgery: a French multicentre randomised controlled trial \(OPERA\).](#)

Futier E, Paugam-Burtz C, Godet T, Khoy-Ear L, Rozenchwajg S, Delay JM, Verzilli D, Dupuis J, Chanques G, Bazin JE, Constantin JM, Pereira B, Jaber S; OPERA study investigators..

Intensive Care Med. 2016 Dec;42(12):1888-1898. PMID: 27771739

15. [Venoarterial extracorporeal membrane oxygenation for refractory cardiogenic shock post-cardiac arrest.](#)

de Chambrun MP, Bréchet N, Lebreton G, Schmidt M, Hekimian G, Demondion P, Trouillet JL, Leprince P, Chastre J, Combes A, Luyt CE.

Intensive Care Med. 2016 Dec;42(12):1999-2007. PMID: 27681706

BMJ, LANCET

16. [Efficacy of simtuzumab versus placebo in patients with idiopathic pulmonary fibrosis: a randomised, double-blind, controlled, phase 2 trial.](#)

Raghu G, Brown KK, Collard HR, Cottin V, Gibson KF, Kaner RJ, Lederer DJ, Martinez FJ, Noble PW, Song JW, Wells AU, Whelan TP, Wuyts W, Moreau E, Patterson SD, Smith V, Bayly S, Chien JW, Gong Q, Zhang JJ, O'Riordan TG.

Lancet Respir Med. 2017 Jan;5(1):22-32. doi: 10.1016/S2213-2600(16)30421-0. PMID: 27939076

17. [Effect of pirfenidone on mortality: pooled analyses and meta-analyses of clinical trials in idiopathic pulmonary fibrosis.](#)

Nathan SD, Albera C, Bradford WZ, Costabel U, Glaspole I, Glassberg MK, Kardatzke DR, Daigl M, Kirchgaessler KU, Lancaster LH, Lederer DJ, Pereira CA, Swigris JJ, Valeyre D, Noble PW.

Lancet Respir Med. 2017 Jan;5(1):33-41. doi: 10.1016/S2213-2600(16)30326-5. PMID: 27876247

18. [Long-term efficacy and safety of  \$\alpha 1\$  proteinase inhibitor treatment for emphysema caused by severe  \$\alpha 1\$  antitrypsin deficiency: an open-label extension trial \(RAPID-OLE\).](#)

McElvaney NG, Burdon J, Holmes M, Glanville A, Wark PA, Thompson PJ, Hernandez P, Chlumsky J, Teschler H, Ficker JH, Seersholm N, Altraja A, Mäkitaro R, Chorostowska-Wynimko J, Sanak M, Stoicescu PI, Piitulainen E, Vit O, Wencker M, Tortorici MA, Fries M, Edelman JM, Chapman KR; RAPID Extension Trial Group..

Lancet Respir Med. 2017 Jan;5(1):51-60. doi: 10.1016/S2213-2600(16)30430-1.

PMID: 27916480

Circulation

19. [Association of Traditional Cardiovascular Risk Factors With Venous Thromboembolism: An Individual Participant Data Meta-Analysis of Prospective Studies.](#)

Mahmoodi BK, Cushman M, Anne Næss I, Allison MA, Jan Bos W, Brækkan SK, Cannegieter SC, Gansevoort RT, Gona PN, Hammerstrøm J, Hansen JB, Heckbert S, Holst AG, Lakoski SG, Lutsey PL, Manson JE, Martin LW, Matsushita K, Meijer K, Overvad K, Prescott E, Puurunen M, Rossouw JE, Sang Y, Severinsen MT, Ten Berg J, Folsom AR, Zakai NA.

Circulation. 2017 Jan 3;135(1):7-16. doi: 10.1161/CIRCULATIONAHA.116.024507. PMID: 27831499

20. [Effect of Clopidogrel by Smoking Status on Secondary Stroke Prevention.](#)

Ovbiagele B, Wang J, Johnston SC, Wang A, Wang D, Wang Y, Zhao X, Wang Y.

Circulation. 2017 Jan 17;135(3):315-316. doi: 10.1161/CIRCULATIONAHA.116.024957. No abstract available.

PMID: 28093495

21. [Heart Failure Stages Among Older Adults in the Community: The Atherosclerosis Risk in Communities Study.](#)

Shah AM, Claggett B, Loehr LR, Chang PP, Matsushita K, Kitzman D, Konety S, Kucharska-Newton A, Sueta CA, Mosley TH, Wright JD, Coresh J, Heiss G, Folsom AR, Solomon SD.

Circulation. 2017 Jan 17;135(3):224-240. doi: 10.1161/CIRCULATIONAHA.116.023361. PMID: 27881564

Critical Care

22. [Use of noninvasive ventilation in immunocompromised patients with acute respiratory failure: a systematic review and meta-analysis](#)

Huang HB1,2, Xu B1,3, Liu GY1, Lin JD2, Du B4.

Crit Care. 2017 Jan 7;21(1):4. PMID: 28061910

23. [Whole-body vibration to prevent intensive care unit-acquired weakness: safety, feasibility, and metabolic response](#)

Wollersheim T1,2, Haas K1, Wolf S3, Mai K2,4, Spies C1, Steinhagen-Thiessen E5, Wernecke KD1,6, Spranger J2,4,7, Weber-Carstens S8,9

Crit Care. 2017 Jan 9;21(1):9.

24. [A diaphragmatic electrical activity-based optimization strategy during pressure support ventilation improves synchronization but does not impact work of breathing.](#)

Beloncle F1,2,3, Piquilloud L3,4, Rittayamai N1,2,5, Sinderby C2, Rozé H6, Brochard L7,8.

Crit Care. 2017 Jan 31;21(1):21

Intensive Care

25. [Approach to the Complicated Alcohol Withdrawal Patient.](#)

Ferreira JA, Wieruszewski PM, Cunningham DW, Davidson KE, Weisberg SF.

J Intensive Care Med. 2017 Jan;32(1):3-14. Review. PMID: 26518697

26. [Inflammation-Induced Changes in Circulating T-Cell Subsets and Cytokine Production During Human Endotoxemia.](#)

Ronit A, Plovsing RR, Gaardbo JC, Berg RM, Hartling HJ, Ullum H, Andersen ÅB, Madsen HO, Møller K, Nielsen SD. J Intensive Care Med. 2017 Jan;32(1):77-85. PMID: 26392625

27. [Improving Caregivers' Perceptions Regarding Patient Goals of Care/End-of-Life Issues for the Multidisciplinary Critical Care Team.](#)

Wessman BT, Sona C, Schallom M. J Intensive Care Med. 2017 Jan;32(1):68-76. PMID: 26416552

Critical Care Medicine

28. [Long-Term Survival in Adults Treated With Extracorporeal Membrane Oxygenation for Respiratory Failure and Sepsis.](#)

von Bahr V, Hultman J, Eksborg S, Frenckner B, Kalzén H.

Crit Care Med. 2017 Feb;45(2):164-170. doi: 10.1097/CCM.0000000000002078. PMID: 28098624

29. [Accuracy of Laboratory Data Communication on ICU Daily Rounds Using an Electronic Health Record.](#)

Artis KA, Dyer E, Mohan V, Gold JA.

Crit Care Med. 2017 Feb;45(2):179-186. doi: 10.1097/CCM.0000000000002060. PMID: 27655323

30. [Metrics of Arterial Hyperoxia and Associated Outcomes in Critical Care.](#)

Helmerhorst HJ, Arts DL, Schultz MJ, van der Voort PH, Abu-Hanna A, de Jonge E, van Westerloo DJ.

Crit Care Med. 2017 Feb;45(2):187-195. doi: 10.1097/CCM.0000000000002084. PMID: 27763912