

TOP ARTICLES: August 2017

AJRCM

1. FULFIL Trial: Once-

daily Triple Therapy for Patients with Chronic Obstructive Pulmonary Disease.

Lipson DA, Barnacle H, Birk R, Brealey N, Locantore N, Lomas DA, Ludwig-Sengpiel A, Mohindra R, Tabberer M, Zhu CQ, Pascoe SJ.

Am J Respir Crit Care Med. 2017 Aug 15;196(4):438-446. doi: 10.1164/rccm.201703-0449OC.

PMID: 28375647

2. The Host Response in Patients with Sepsis Developing Intensive Care Unit-acquired Secondary Infections.

van Vught LA, Wiewel MA, Hoogendijk AJ, Frencken JF, Scicluna BP, Klouwenberg PMCK, Zwinderman AH, Lutter R, Horn J, Schultz MJ, Bonten MMJ, Cremer OL, van der Poll T.

Am J Respir Crit Care Med. 2017 Aug 15;196(4):458-470. doi: 10.1164/rccm.201606-1225OC.

PMID: 28107024

3. Differential Expression of VEGF-A_{xxx} Isoforms Is Critical for Development of Pulmonary Fibrosis.

Barratt SL, Blythe T, Jarrett C, Ourradi K, Shelley-Fraser G, Day MJ, Qiu Y, Harper S, Maher TM, Oltean S, Hames TJ, Scotton CJ, Welsh GI, Bates DO, Millar AB.

Am J Respir Crit Care Med. 2017 Aug 15;196(4):479-493. doi: 10.1164/rccm.201603-0568OC.

PMID: 28661183

Trauma/Acute Care Surgery

4. Rotational thromboelastometry significantly optimizes transfusion practices for damage control resuscitation in combat casualties.

Prat NJ, Meyer AD, Ingalls NK, Trichereau J, DuBose JJ, Cap AP.

J Trauma Acute Care Surg. 2017 Sep;83(3):373-380. doi:

10.1097/TA.0000000000001568.

PMID: 28846577

5. The rate of deep vein thrombosis doubles in trauma patients with hypercoagulable thromboelastography.

Brill JB, Badiee J, Zander AL, Wallace JD, Lewis PR, Sise MJ, Bansal V, Shackford SR. J Trauma Acute Care Surg. 2017 Sep;83(3):413-419. doi:

10.1097/TA.0000000000001618.

PMID: 28598908

6. Thrombin generation profiles as predictors of symptomatic venous thromboembolism after trauma: A prospective cohort study.

Park MS, Spears GM, Bailey KR, Xue A, Ferrara MJ, Headlee A, Dhillon SK, Jenkins DH, Zietlow SP, Harmsen WS, Ashrani AA, Heit JA.

J Trauma Acute Care Surg. 2017 Sep;83(3):381-387. doi:

10.1097/TA.0000000000001466.

PMID: 28362683

CHEST

7. Circulating Biologically Active Adrenomedullin (bio-ADM) Predicts Hemodynamic Support Requirement and Mortality During Sepsis.

Caironi P, Latini R, Struck J, Hartmann O, Bergmann A, Maggio G, Cavana M, Tognoni G, Pesenti A, Gattinoni L, Masson S; ALBIOS Study Investigators.

Chest. 2017 Aug;152(2):312-320. doi: 10.1016/j.chest.2017.03.035. Epub 2017 Apr 12.

PMID: 28411114

8. Incidence of Pneumonitis With Use of Programmed Death 1 and Programmed Death-Ligand 1 Inhibitors in Non-Small Cell Lung Cancer: A Systematic Review and Meta-Analysis of Trials.

Khunger M, Rakshit S, Pasupuleti V, Hernandez AV, Mazzone P, Stevenson J, Pennell NA, Velcheti V.

Chest. 2017 Aug;152(2):271-281. doi: 10.1016/j.chest.2017.04.177. Epub 2017 May 10.

PMID: 28499515

9. Hematopoietic Processes in Eosinophilic Asthma.

Salter BM, Sehmi R.

Chest. 2017 Aug;152(2):410-416. doi: 10.1016/j.chest.2017.01.021. Epub 2017 Jan 24.

PMID: 28130045

NEJM

10. Angiotensin II for the Treatment of Vasodilatory Shock.

Khanna A, English SW, Wang XS, Ham K, Tumlin J, Szerlip H, Busse LW, Altaweel L, Albertson TE, Mackey C, McCurdy MT, Boldt DW, Chock S, Young PJ, Krell K, Wunderink RG, Ostermann M, Murugan R, Gong MN, Panwar R, Hästbacka J, Favory R, Venkatesh B, Thompson BT, Bellomo R, Jensen J, Kroll S, Chawla LS, Tidmarsh GF, Deane AM; ATHOS-3 Investigators.

N Engl J Med. 2017 Aug 3;377(5):419-430. doi: 10.1056/NEJMoa1704154. Epub 2017 May 21.

PMID: 28528561

11. Idarucizumab for Dabigatran Reversal - Full Cohort Analysis.

Pollack CV Jr, Reilly PA, van Ryn J, Eikelboom JW, Glund S, Bernstein RA, Dubiel R, Huisman MV, Hylek EM, Kam CW, Kamphuisen PW, Kreuzer J, Levy JH, Royle G, Sellke FW, Stangier J, Steiner T, Verhamme P, Wang B, Young L, Weitz JI.

N Engl J Med. 2017 Aug 3;377(5):431-441. doi: 10.1056/NEJMoa1707278. Epub 2017 Jul 11.

PMID: 28693366

12. Emicizumab Prophylaxis in Hemophilia A with Inhibitors.

Oldenburg J, Mahlangu JN, Kim B, Schmitt C, Callaghan MU, Young G, Santagostino E, Kruse-Jarres R, Negrier C, Kessler C, Valente N, Asikanius E, Levy GG, Windyga J, Shima M.

N Engl J Med. 2017 Aug 31;377(9):809-818. doi: 10.1056/NEJMoa1703068. Epub 2017 Jul 10.

PMID: 28691557

JAMA, ICM

13. Effect of Natriuretic Peptide-Guided Therapy on Hospitalization or Cardiovascular Mortality in High-Risk Patients With Heart Failure and Reduced Ejection Fraction: A Randomized Clinical Trial.

Felker GM, Anstrom KJ, Adams KF, Ezekowitz JA, Fiuzat M, Houston-Miller N, Januzzi JL Jr, Mark DB, Piña IL, Passmore G, Whellan DJ, Yang H, Cooper LS, Leifer ES, Desvigne-Nickens P, O'Connor CM.

JAMA. 2017 Aug 22;318(8):713-720. doi: 10.1001/jama.2017.10565.

PMID: 28829876

14. Effect of Oral Prednisolone on Symptom Duration and Severity in Nonasthmatic Adults With Acute Lower Respiratory Tract Infection: A Randomized Clinical Trial. Hay AD, Little P, Harnden A, Thompson M, Wang K, Kendrick D, Orton E, Brookes ST, Young GJ, May M, Hollinghurst S, Carroll FE, Downing H, Timmins D, Lafond N, El-Gohary M, Moore M.

JAMA. 2017 Aug 22;318(8):721-730. doi: 10.1001/jama.2017.10572.

PMID: 28829884

15. Effect of Ganciclovir on IL-6 Levels Among Cytomegalovirus-Seropositive Adults With Critical Illness: A Randomized Clinical Trial.

Limaye AP, Stapleton RD, Peng L, Gunn SR, Kimball LE, Hyzy R, Exline MC, Files DC, Morris PE, Frankel SK, Mikkelsen ME, Hite D, Enfield KB, Steingrub J, O'Brien J, Parsons PE, Cuschieri J, Wunderink RG, Hotchkin DL, Chen YQ, Rubenfeld GD, Boeckh M.

JAMA. 2017 Aug 22;318(8):731-740. doi: 10.1001/jama.2017.10569.

PMID: 28829877

BMJ, LANCET

16. Frequency of exacerbations in patients with chronic obstructive pulmonary disease: an analysis of the SPIROMICS cohort.

Han MK, Quibrera PM, Carretta EE, Barr RG, Bleecker ER, Bowler RP, Cooper CB, Comellas A, Couper DJ, Curtis JL, Criner G, Dransfield MT, Hansel NN, Hoffman EA, Kanner RE, Krishnan JA, Martinez CH, Pirozzi CB, O'Neal WK, Rennard S, Tashkin DP, Wedzicha JA, Woodruff P, Paine R 3rd, Martinez FJ; SPIROMICS investigators.

Lancet Respir Med. 2017 Aug;5(8):619-626. doi: 10.1016/S2213-2600(17)30207-2.

Epub 2017 Jun 28.

PMID: 28668356

17. Geo-economic variations in epidemiology, patterns of care, and outcomes in patients with acute respiratory distress syndrome: insights from the LUNG SAFE prospective cohort study.

Laffey JG, Madotto F, Bellani G, Pham T, Fan E, Brochard L, Amin P, Arabi Y, Bajwa EK, Bruhn A, Cerny V, Clarkson K, Heunks L, Kurahashi K, Laake JH, Lorente JA, McNamee L, Nin N, Palo JE, Piquilloud L, Qiu H, Jiménez JIS, Esteban A, McAuley DF, van Haren F, Ranieri M, Rubenfeld G, Wrigge H, Slutsky AS, Pesenti A; LUNG SAFE Investigators and the ESICM Trials Group.

Lancet Respir Med. 2017 Aug;5(8):627-638. doi: 10.1016/S2213-2600(17)30213-8.

Epub 2017 Jun 15.

PMID: 28624388

18. Effect of high-valency pneumococcal conjugate vaccines on invasive pneumococcal disease in children in SpIDnet countries: an observational multicentre study.

Savulescu C, Krizova P, Lepoutre A, Mereckiene J, Vestrheim DF, Ciruela P, Ordobas M, Guevara M, McDonald E, Morfeldt E, Kozakova J, Varon E, Cotter S, Winje BA, Munoz-Almagro C, Garcia L, Castilla J, Smith A, Henriques-Normark B, Celentano LP, Hanquet G; SpIDnetgroup.

Lancet Respir Med. 2017 Aug;5(8):648-656. doi: 10.1016/S2213-2600(17)30110-8.

Epub 2017 Mar 27.

PMID: 28359798

Circulation

19. Effect of Intensive Blood Pressure Lowering on Left Ventricular Hypertrophy in Patients With Hypertension: SPRINT (Systolic Blood Pressure Intervention Trial).

Soliman EZ, Ambrosius WT, Cushman WC, Zhang ZM, Bates JT, Neyra JA, Carson TY, Tamariz L, Ghazi L, Cho ME, Shapiro BP, He J, Fine LJ, Lewis CE; SPRINT Research Study Group.

Circulation. 2017 Aug 1;136(5):440-450. doi: 10.1161/CIRCULATIONAHA.117.028441.

Epub 2017 May 16. Erratum in: Circulation. 2017 Aug 1;136(5):e136.

PMID: 28512184

20. Predictors and Association With Clinical Outcomes of the Changes in Exercise Capacity After Transcatheter Aortic Valve Replacement.
Abdul-Jawad Altisent O, Puri R, Regueiro A, Chamandi C, Rodriguez-Gabella T, Del Trigo M, Campelo-Parada F, Couture T, Marsal JR, Côté M, Paradis JM, DeLarochelière R, Doyle D, Mohammadi S, Dumont E, Rodés-Cabau J.
Circulation. 2017 Aug 15;136(7):632-643. doi:
10.1161/CIRCULATIONAHA.116.026349. Epub 2017 Jun 6.
PMID: 28588077

21. Potent Thrombolytic Effect of *N*-Acetylcysteine on Arterial Thrombi.
Martinez de Lizarrondo S, Gakuba C, Herbig BA, Repessé Y, Ali C, Denis CV, Lenting PJ, Touzé E, Diamond SL, Vivien D, Gauberti M.
Circulation. 2017 Aug 15;136(7):646-660. doi:
10.1161/CIRCULATIONAHA.117.027290. Epub 2017 May 9.
PMID: 28487393

Critical Care

22. The association of early combined lactate and glucose levels with subsequent renal and liver dysfunction and hospital mortality in critically ill patients.
Freire Jorge P, Wieringa N, de Felice E, van der Horst ICC, Oude Lansink A, Nijsten MW.
Crit Care. 2017 Aug 21;21(1):218. doi: 10.1186/s13054-017-1785-z.
PMID: 28826408

23. Hyperfibrinolysis in severe isolated traumatic brain injury may occur without tissue hypoperfusion: a retrospective observational multicentre study.
Hayakawa M, Maekawa K, Kushimoto S, Kato H, Sasaki J, Ogura H, Matsuoka T, Uejima T, Morimura N, Ishikura H, Hagiwara A, Takeda M, Kaneko N, Saitoh D, Kudo D, Kanemura T, Shibusawa T, Furugori S, Nakamura Y, Shiraishi A, Murata K, Mayama G, Yaguchi A, Kim S, Takasu O, Nishiyama K.
Crit Care. 2017 Aug 23;21(1):222. doi: 10.1186/s13054-017-1811-1.
PMID: 28830477

24. Markers of acute kidney injury in patients with sepsis: the role of soluble thrombomodulin.
Katayama S, Nunomiya S, Koyama K, Wada M, Koinuma T, Goto Y, Tonai K, Shima J.
Crit Care. 2017 Aug 25;21(1):229. doi: 10.1186/s13054-017-1815-x.
PMID: 2884190

Intensive Care Medicine

25. Potentially modifiable factors contributing to sepsis-associated encephalopathy. Sonneville R, de Montmollin E, Poujade J, Garrouste-Orgeas M, Souweine B, Darmon M, Mariotte E, Argaud L, Barbier F, Goldgran-Toledano D, Marcotte G, Dumenil AS, Jamali S, Lacave G, Ruckly S, Mourvillier B, Timsit JF.

Intensive Care Med. 2017 Aug;43(8):1075-1084. doi: 10.1007/s00134-017-4807-z.

Epub 2017 May 2.

PMID: 28466149

26. External validation of a biomarker and clinical prediction model for hospital mortality in acute respiratory distress syndrome.

Zhao Z, Wickersham N, Kangelaris KN, May AK, Bernard GR, Matthay MA, Calfee CS, Koyama T, Ware LB.

Intensive Care Med. 2017 Aug;43(8):1123-1131. doi: 10.1007/s00134-017-4854-5.

Epub 2017 Jun 7.

PMID: 28593401

27. Association between mRNA expression of CD74 and IL10 and risk of ICU-acquired infections: a multicenter cohort study.

Peronnet E, Venet F, Maucort-Boulch D, Friggeri A, Cour M, Argaud L, Allaouchiche B, Floccard B, Aubrun F, Rimmelé T, Thiollie F, Piriou V, Bohé J, Cazalis MA, Barbalat V, Monneret G, Morisset S, Textoris J, Vallin H, Pachot A, Lepape A; MIP Rea Study Group.

Intensive Care Med. 2017 Jul;43(7):1013-1020. doi: 10.1007/s00134-017-4805-1. Epub 2017 May 5.

PMID: 28477143

Critical Care Medicine

28. Nonlinear Imputation of PaO₂/FIO₂ From SpO₂/FIO₂ Among Mechanically Ventilated Patients in the ICU: A Prospective, Observational Study.

Brown SM, Duggal A, Hou PC, Tidswell M, Khan A, Exline M, Park PK, Schoenfeld DA, Liu M, Grissom CK, Moss M, Rice TW, Hough CL, Rivers E, Thompson BT, Brower RG; National Institutes of Health (NIH)/National Heart, Lung, and Blood Institute (NHLBI) Prevention and Early Treatment of Acute Lung Injury (PETAL) Network.

Crit Care Med. 2017 Aug;45(8):1317-1324. doi: 10.1097/CCM.0000000000002514.

PMID: 28538439

29. Extracorporeal Membrane Oxygenation for Acute Decompensated Heart Failure. Dangers L, Bréchet N, Schmidt M, Lebreton G, Hékimian G, Nieszkowska A, Besset S, Trouillet JL, Chastre J, Leprince P, Combes A, Luyt CE. Crit Care Med. 2017 Aug;45(8):1359-1366. doi: 10.1097/CCM.0000000000002485. PMID: 28471885

30. Hyperchloremia Is Associated With Acute Kidney Injury in Patients With Subarachnoid Hemorrhage. Sadan O, Singbartl K, Kandiah PA, Martin KS, Samuels OB. Crit Care Med. 2017 Aug;45(8):1382-1388. doi: 10.1097/CCM.0000000000002497. PMID: 28504980

Resuscitation

31. Influence of argon on temperature modulation and neurological outcome in hypothermia treated rats following cardiac arrest. Brücken A, Bleilevens C, Föhr P, Nolte K, Rossaint R, Marx G, Fries M, Derwall M. Resuscitation. 2017 Aug;117:32-39. doi: 10.1016/j.resuscitation.2017.05.029. Epub 2017 Jun 1. PMID: 28579371

32. Intraosseous compared to intravenous drug resuscitation in out-of-hospital cardiac arrest. Feinstein BA, Stubbs BA, Rea T, Kudenchuk PJ. Resuscitation. 2017 Aug;117:91-96. doi: 10.1016/j.resuscitation.2017.06.014. Epub 2017 Jun 16. PMID: 28629995

33. Post-anoxic quantitative MRI changes may predict emergence from coma and functional outcomes at discharge. Reynolds AS, Guo X, Matthews E, Brodie D, Rabbani LE, Roh DJ, Park S, Claassen J, Elkind MSV, Zhao B, Agarwal S. Resuscitation. 2017 Aug;117:87-90. doi: 10.1016/j.resuscitation.2017.06.010. Epub 2017 Jun 15. PMID: 28624592