

## TOP ARTICLES FOR APRIL 2017

AJRCM

1. [DJ-1/PARK7 Impairs Bacterial Clearance in Sepsis.](#)

Amatullah H, Shan Y, Beauchamp BL, Gali PL, Gupta S, Maron-Gutierrez T, Speck ER, Fox-Robichaud AE, Tsang JL, Mei SH, Mak TW, Rocco PR, Semple JW, Zhang H, Hu P, Marshall JC, Stewart DJ, Harper ME, Liaw PC, Liles WC, Dos Santos CC; Canadian Critical Care Translational Biology Group..

Am J Respir Crit Care Med. 2017 Apr 1;195(7):889-905. doi: 10.1164/rccm.201604-0730OC. PMID:27735193

2. [Partial Neuromuscular Blockade during Partial Ventilatory Support in Sedated Patients with High Tidal Volumes.](#)

Doorduyn J, Nollet JL, Roesthuis LH, van Hees HW, Brochard LJ, Sinderby CA, van der Hoeven JG, Heunks LM.

Am J Respir Crit Care Med. 2017 Apr 15;195(8):1033-1042. doi: 10.1164/rccm.201605-1016OC.

PMID:27748627

3. [Quick Sepsis-related Organ Failure Assessment, Systemic Inflammatory Response Syndrome, and Early Warning Scores for Detecting Clinical Deterioration in Infected Patients outside the Intensive Care Unit.](#)

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

Am J Respir Crit Care Med. 2017 Apr 1;195(7):906-911. doi: 10.1164/rccm.201604-0854OC.

PMID:27649072

Trauma/Acute Care Surgery

4. [Parenteral and enteral nutrition in surgical critical care: Plasma metabolomics demonstrates divergent effects on nitrogen, fatty-acid, ribonucleotide, and oxidative metabolism.](#)

Parent BA, Seaton M, Djukovic D, Gu H, Wheelock B, Navarro SL, Raftery D, O'Keefe GE.

J Trauma Acute Care Surg. 2017 Apr;82(4):704-713. doi: 10.1097/TA.0000000000001381. PMID: 28129265

5. [Valproic acid mitigates the inflammatory response and prevents acute respiratory distress syndrome in a murine model of Escherichia coli pneumonia at the expense of bacterial clearance.](#)

Kasotakis G, Galvan M, King E, Sarkar B, Stucchi A, Mizgerd JP, Burke PA, Remick D.

J Trauma Acute Care Surg. 2017 Apr;82(4):758-765. doi: 10.1097/TA.0000000000001389. PMID: 28099388

6. [Trauma and psychiatric disorders: A systematic review.](#)

Clous E, Beerthuizen K, Ponsen KJ, Luitse J, Olf M, Goslings C.

J Trauma Acute Care Surg. 2017 Apr;82(4):794-801. doi: 10.1097/TA.0000000000001371. PMID: 28129262

## CHEST

7. [Can High-flow Nasal Cannula Reduce the Rate of Endotracheal Intubation in Adult Patients With Acute Respiratory Failure Compared With Conventional Oxygen Therapy and Noninvasive Positive Pressure Ventilation?: A Systematic Review and Meta-analysis.](#)

Ni YN, Luo J, Yu H, Liu D, Ni Z, Cheng J, Liang BM, Liang ZA.

Chest. 2017 Apr;151(4):764-775. doi: 10.1016/j.chest.2017.01.004. Epub 2017 Jan 13. PMID :28089816

8. [Perceived Discrimination Associated With Asthma and Related Outcomes in Minority Youth: The GALA II and SAGE II Studies.](#)

Thakur N, Barcelo NE, Borrell LN, Singh S, Eng C, Davis A, Meade K, LeNoir MA, Avila PC, Farber HJ, Serebrisky D, Brigino-Buenaventura E, Rodriguez-Cintrón W, Thyne S, Rodriguez-Santana JR, Sen S, Bibbins-Domingo K, Burchard EG.

Chest. 2017 Apr;151(4):804-812. doi: 10.1016/j.chest.2016.11.027. Epub 2016 Dec 1. PMID: 27916618

9. [Clinical Predictors of Hospital Mortality Differ Between Direct and Indirect ARDS.](#)

Luo L, Shaver CM, Zhao Z, Koyama T, Calfee CS, Bastarache JA, Ware LB.

Chest. 2017 Apr;151(4):755-763. doi: 10.1016/j.chest.2016.09.004. Epub 2016 Sep 20. PMID: 27663180

## NEJM

10. [Two-Year Outcome after Endovascular Treatment for Acute Ischemic Stroke.](#)

van den Berg LA, Dijkgraaf MG, Berkhemer OA, Franssen PS, Beumer D, Lingsma HF, Majoie CB, Dippel DW, van der Lugt A, van Oostenbrugge RJ, van Zwam WH, Roos YB; MR CLEAN Investigators..

N Engl J Med. 2017 Apr 6;376(14):1341-1349. doi: 10.1056/NEJMoa1612136. PMID:28379802

11. [Uninterrupted Dabigatran versus Warfarin for Ablation in Atrial Fibrillation.](#)

Calkins H, Willems S, Gerstenfeld EP, Verma A, Schilling R, Hohnloser SH, Okumura K, Serota H, Nordaby M, Guiver K, Biss B, Brouwer MA, Grimaldi M; RE-CIRCUIT Investigators..

N Engl J Med. 2017 Apr 27;376(17):1627-1636. doi: 10.1056/NEJMoa1701005. Epub 2017 Mar 19. PMID:28317415

12. [Body-Weight Fluctuations and Outcomes in Coronary Disease.](#)

Bangalore S, Fayyad R, Laskey R, DeMicco DA, Messerli FH, Waters DD.

N Engl J Med. 2017 Apr 6;376(14):1332-1340. doi: 10.1056/NEJMoa1606148. PMID:28379800

## JAMA, ICM

13. [Late-onset moderate to severe acute respiratory distress syndrome is associated with shorter survival and higher mortality: a two-stage association study.](#)

Zhang R, Wang Z, Tejera P, Frank AJ, Wei Y, Su L, Zhu Z, Guo Y, Chen F, Bajwa EK, Thompson BT, Christiani DC.

Intensive Care Med. 2017 Mar;43(3):399-407. doi: 10.1007/s00134-016-4638-3. Epub 2016 Dec 28.  
PMID:28032130

14. [Effects of neuromuscular blockers on transpulmonary pressures in moderate to severe acute respiratory distress syndrome.](#)

Bolaki M, Amargianitakis V, Georgopoulos D, Guervilly C, Papazian L.

Intensive Care Med. 2017 Apr;43(4):600-601. doi: 10.1007/s00134-017-4707-2. Epub 2017 Feb 20. No abstract available. PMID: 28220228

15. [Venous thromboembolic events in critically ill traumatic brain injury patients.](#)

Skrifvars MB, Bailey M, Presneill J, French C, Nichol A, Little L, Duranteau J, Huet O, Haddad S, Arabi Y, McArthur C, Cooper DJ, Bellomo R; EPO-TBI investigators and the ANZICS Clinical Trials Group.

Intensive Care Med. 2017 Mar;43(3):419-428. doi: 10.1007/s00134-016-4655-2. Epub 2016 Dec 27. PMID: 28028552

BMJ, LANCET

16. [Validating the HERDOO2 rule to guide treatment duration for women with unprovoked venous thrombosis: multinational prospective cohort management study.](#)

Rodger MA, Le Gal G, Anderson DR, Schmidt J, Pernod G, Kahn SR, Righini M, Mismetti P, Kearon C, Meyer G, Elias A, Ramsay T, Ortel TL, Huisman MV, Kovacs MJ; REVERSE II Study Investigators..

BMJ. 2017 Mar 17;356:j1065. doi: 10.1136/bmj.j1065.PMID: 28314711

17. [Dexamethasone versus standard treatment for postoperative nausea and vomiting in gastrointestinal surgery: randomised controlled trial \(DREAMS Trial\).](#)

DREAMS Trial Collaborators and West Midlands Research Collaborative..

BMJ. 2017 Apr 18;357:j1455. doi: 10.1136/bmj.j1455.PMID:28420629

18. [Outcomes, infectiousness, and transmission dynamics of patients with extensively drug-resistant tuberculosis and home-discharged patients with programmatically incurable tuberculosis: a prospective cohort study.](#)

Dheda K, Limberis JD, Pietersen E, Phelan J, Esmail A, Lesosky M, Fennelly KP, Te Riele J, Mastrapa B, Streicher EM, Dolby T, Abdallah AM, Ben-Rached F, Simpson J, Smith L, Gumbo T, van Helden P, Sireg FA, McNerney R, Theron G, Pain A, Clark TG, Warren RM.

Lancet Respir Med. 2017 Apr;5(4):269-281. doi: 10.1016/S2213-2600(16)30433-7. Epub 2017 Jan 19. PMID:28109869

Circulation

19. [Potential Deaths Averted and Serious Adverse Events Incurred From Adoption of the SPRINT \(Systolic Blood Pressure Intervention Trial\) Intensive Blood Pressure](#)

[Regimen in the United States: Projections From NHANES \(National Health and Nutrition Examination Survey\).](#)

Bress AP, Kramer H, Khatib R, Beddhu S, Cheung AK, Hess R, Bansal VK, Cao G, Yee J, Moran AE, Durazo-Arvizu R, Muntner P, Cooper RS.

Circulation. 2017 Apr 25;135(17):1617-1628. doi: 10.1161/CIRCULATIONAHA.116.025322. Epub 2017 Feb 13. PMID: 28193605

20. [Impact of Practice-Based Management of Pulmonary Artery Pressures in 2000 Patients Implanted With the CardioMEMS Sensor.](#)

Heywood JT, Jermyn R, Shavelle D, Abraham WT, Bhimaraj A, Bhatt K, Sheikh F, Eichorn E, Lamba S, Bharmi R, Agarwal R, Kumar C, Stevenson LW.

Circulation. 2017 Apr 18;135(16):1509-1517. doi: 10.1161/CIRCULATIONAHA.116.026184. Epub 2017 Feb 20. PMID: 28219895

21. [Nicotinamide Phosphoribosyltransferase Promotes Pulmonary Vascular Remodeling and Is a Therapeutic Target in Pulmonary Arterial Hypertension.](#)

Chen J, Sysol JR, Singla S, Zhao S, Yamamura A, Valdez-Jasso D, Abbasi T, Shioura KM, Sahni S, Reddy V, Sridhar A, Gao H, Torres J, Camp SM, Tang H, Ye SQ, Comhair S, Dweik R, Hassoun P, Yuan JX, Garcia JGN, Machado RF.

Circulation. 2017 Apr 18;135(16):1532-1546. doi: 10.1161/CIRCULATIONAHA.116.024557. Epub 2017 Feb 15. PMID: 28202489

## Critical Care

22. [Early predictors of poor outcome after out-of-hospital cardiac arrest.](#)

Martinell L, Nielsen N, Herlitz J, Karlsson T, Horn J, Wise MP, Undén J, Rylander C.

Crit Care. 2017 Apr 13;21(1):96. doi: 10.1186/s13054-017-1677-2. PMID:28410590

23. [Cardiac biomarkers are associated with maximum stage of acute kidney injury in critically ill patients: a prospective analysis.](#)

Haines R, Crichton S, Wilson J, Treacher D, Ostermann M.

Crit Care. 2017 Apr 12;21(1):88. doi: 10.1186/s13054-017-1674-5. PMID:28399905

24. [Implementing a bedside assessment of respiratory mechanics in patients with acute respiratory distress syndrome.](#)

Chen L, Chen GQ, Shore K, Shklar O, Martins C, Devenyi B, Lindsay P, McPhail H, Lanys A, Soliman I, Tuma M, Kim M, Porretta K, Greco P, Every H, Hayes C, Baker A, Friedrich JO, Brochard L.

Crit Care. 2017 Apr 4;21(1):84. doi: 10.1186/s13054-017-1671-8. PMID:28372575

## Intensive Care

25. [Metastatic Pulmonary Angiosarcoma Presenting With Bilateral Secondary Spontaneous Pneumothoraces.](#)

Jimenez D, Antaki J, Kamangar N.

J Intensive Care Med. 2017 May;32(4):292-296. doi: 10.1177/0885066616683323. Epub 2016 Jan 1. PMID:28421895

26. [Relationship of the Duration of Ventilator Support to Successful Weaning and Other Clinical Outcomes in 437 Prolonged Mechanical Ventilation Patients.](#)

Sansone GR, Frengley JD, Vecchione JJ, Manogaram MG, Kaner RJ.

J Intensive Care Med. 2017 May;32(4):283-291. doi: 10.1177/0885066615626897. Epub 2016 Jan 20. PMID:26792815

27. [Admission to the Intensive Care Unit is Associated With Changes in the Oral Mycobiome.](#)

Watkins RR, Mukherjee PK, Chandra J, Retuerto MA, Guidry C, Haller N, Paranjape C, Ghannoum MA.

J Intensive Care Med. 2017 May;32(4):278-282. doi: 10.1177/0885066615627757. Epub 2016 Feb 17. PMID:26893317

Critical Care Medicine

28. [Delays From First Medical Contact to Antibiotic Administration for Sepsis.](#)

Seymour CW, Kahn JM, Martin-Gill C, Callaway CW, Yealy DM, Scales D, Angus DC.

Crit Care Med. 2017 May;45(5):759-765. doi: 10.1097/CCM.0000000000002264. PMID:28234754

29. [Liberal Versus Restrictive Transfusion Strategy in Critically Ill Oncologic Patients: The Transfusion Requirements in Critically Ill Oncologic Patients Randomized Controlled Trial.](#)

Bergamin FS, Almeida JP, Landoni G, Galas FRBG, Fukushima JT, Fominskiy E, Park CHL, Osawa EA, Diz MPE, Oliveira GQ, Franco RA, Nakamura RE, Almeida EM, Abdala E, Freire MP, Filho RK, Auler JOC Jr, Hajjar LA.

Crit Care Med. 2017 May;45(5):766-773. doi: 10.1097/CCM.0000000000002283. PMID: 28240687

30. [Serial Procalcitonin Predicts Mortality in Severe Sepsis Patients: Results From the Multicenter Procalcitonin Monitoring SEpsis \(MOSES\) Study.](#)

Schuetz P, Birkhahn R, Sherwin R, Jones AE, Singer A, Kline JA, Runyon MS, Self WH, Courtney DM, Nowak RM, Gaieski DF, Ebmeyer S, Johannes S, Wiemer JC, Schwabe A, Shapiro NI.

Crit Care Med. 2017 May;45(5):781-789. doi: 10.1097/CCM.0000000000002321. PMID: 28257335