

Critical Care Top Articles for August 2016

AJRCM

1. [Factors Associated with Functional Recovery among Older Intensive Care Unit Survivors.](#) Ferrante LE, Pisani MA, Murphy TE, Gahbauer EA, Leo-Summers LS, Gill TM. Am J Respir Crit Care Med. 2016 Aug 1;194(3):299-307. doi: 10.1164/rccm.201506-1256OC. PMID:26840348
2. [Syndecan-1 Attenuates Lung Injury during Influenza Infection by Potentiating c-Met Signaling to Suppress Epithelial Apoptosis.](#) Brauer R, Ge L, Schlesinger SY, Birkland TP, Huang Y, Parimon T, Lee V, McKinney BL, McGuire JK, Parks WC, Chen P. Am J Respir Crit Care Med. 2016 Aug 1;194(3):333-44. doi: 10.1164/rccm.201509-1878OC. PMID:26959387
3. [Urinary Glycosaminoglycans Predict Outcomes in Septic Shock and Acute Respiratory Distress Syndrome.](#) Schmidt EP, Overdier KH, Sun X, Lin L, Liu X, Yang Y, Ammons LA, Hiller TD, Sufliya MA, Yu Y, Chen Y, Zhang F, Cothren Burlaw C, Edelstein CL, Douglas IS, Linhardt RJ. Am J Respir Crit Care Med. 2016 Aug 15;194(4):439-49. doi: 10.1164/rccm.201511-2281OC. PMID:26926297

Trauma/Acute Care Surgery

4. [Early initiation of extracorporeal membrane oxygenation improves survival in adult trauma patients with severe adult respiratory distress syndrome.](#) Bosarge PL, Raff LA, McGwin G Jr, Carroll SL, Bellot SC, Diaz-Guzman E, Kerby JD. J Trauma Acute Care Surg. 2016 Aug;81(2):236-43. doi: 10.1097/TA.0000000000001068. PMID:27032012
5. [Prehospital traumatic cardiac arrest: Management and outcomes from the resuscitation outcomes consortium epistry-trauma and PROPHET registries.](#) Evans CC, Petersen A, Meier EN, Buick JE, Schreiber M, Kannas D, Austin MA; Resuscitation Outcomes Consortium Investigators. J Trauma Acute Care Surg. 2016 Aug;81(2):285-93. doi: 10.1097/TA.0000000000001070. PMID:27070438
6. [Correlation between laboratory coagulation testing and thromboelastometry is modified during management of trauma patients.](#) David JS, Durand M, Levrat A, Lefevre M, Rugeri L, Geay-Baillet MO, Inaba K, Bouzat P. J Trauma Acute Care Surg. 2016 Aug;81(2):319-27. doi: 10.1097/TA.0000000000001109. PMID:27192467

CHEST

7. [Blood Eosinophils and Outcomes in Severe Hospitalized Exacerbations of COPD.](#) Bafadhel M, Greening NJ, Harvey-Dunstan TC, Williams JE, Morgan MD, Brightling CE, Hussain SF, Pavord ID, Singh SJ, Steiner MC. Chest. 2016 Aug;150(2):320-8. doi: 10.1016/j.chest.2016.01.026. Epub 2016 Feb 3. PMID:26851799
8. [Motivational Enhancement for Increasing Adherence to CPAP: A Randomized Controlled Trial.](#) Bakker JP, Wang R, Weng J, Aloia MS, Toth C, Morrical MG, Gleason KJ, Rueschman M, Dorsey C, Patel SR, Ware JH, Mittleman MA, Redline S. Chest. 2016 Aug;150(2):337-45. doi: 10.1016/j.chest.2016.03.019. Epub 2016 Mar 24. PMID: 27018174
9. [Oxygen With Cold Bubble Humidification Is No Better Than Dry Oxygen in Preventing Mucus Dehydration, Decreased Mucociliary Clearance, and Decline in Pulmonary Function.](#) Franchini ML, Athanazio R, Amato-Lourenço LF, Carreirão-Neto W, Saldiva PH, Lorenzi-Filho G, Rubin BK, Nakagawa NK. Chest. 2016 Aug;150(2):407-14. doi: 10.1016/j.chest.2016.03.035. Epub 2016 Apr 2. PMID: 27048871

NEJM

10. [Randomized Trial of Thymectomy in Myasthenia Gravis.](#) Wolfe GI; MGTX Study Group. N Engl J Med. 2016 Aug 11;375(6):511-22. doi: 10.1056/NEJMoa1602489. PMID:27509100
11. [Extended Thromboprophylaxis with Betrixaban in Acutely Ill Medical Patients.](#) Cohen AT, Harrington RA, Goldhaber SZ, Hull RD, Wiens BL, Gold A, Hernandez AF, Gibson CM; APEX Investigators. N Engl J Med. 2016 Aug 11;375(6):534-44. doi: 10.1056/NEJMoa1601747. Epub 2016 May 27. PMID: 27232649
12. [Innate Immunity and Asthma Risk in Amish and Hutterite Farm Children.](#) Stein MM, Hrusch CL, Gozdz J, Igartua C, Pivniouk V, Murray SE, Ledford JG, Marques dos Santos M, Anderson RL, Metwali N, Neilson JW, Maier RM, Gilbert JA, Holbreich M, Thorne PS, Martinez FD, von Mutius E, Vercelli D, Ober C, Sperling AI. N Engl J Med. 2016 Aug 4;375(5):411-21. PMID:27518660

JAMA/Intensive Care Medicine

13. [Mortality and pulmonary mechanics in relation to respiratory system and transpulmonary driving pressures in ARDS.](#) Baedorf Kassis E, Loring SH, Talmor D. Intensive Care Med. 2016 Aug;42(8):1206-13. doi: 10.1007/s00134-016-4403-7. Epub 2016 Jun 18. PMID:27318943
14. [Ultrasonography evaluation during the weaning process: the heart, the diaphragm, the pleura and the lung.](#) Mayo P, Volpicelli G, Lerolle N, Schreiber A, Doelken P, Vieillard-Baron A. Intensive Care Med. 2016 Jul;42(7):1107-17. doi: 10.1007/s00134-016-4245-3. Epub 2016 Mar 7. Review. PMID:26951426
15. [Nurses versus physician-led interhospital critical care transport: a randomized non-inferiority trial.](#) van Lieshout EJ, Binnekade J, Reussien E, Dongelmans D, Juffermans NP, de Haan RJ, Schultz MJ, Vroom MB. Intensive Care Med. 2016 Jul;42(7):1146-54. doi: 10.1007/s00134-016-4355-y. Epub 2016 May 11. PMID:27166622

BMJ/LANCET

16. [Blood pressure variability and cardiovascular disease: systematic review and meta-analysis.](#) Stevens SL, Wood S, Koshiaris C, Law K, Glasziou P, Stevens RJ, McManus RJ. BMJ. 2016 Aug 9;354:i4098. doi: 10.1136/bmj.i4098. PMID:27511067
17. [Mycophenolate mofetil versus oral cyclophosphamide in scleroderma-related interstitial lung disease \(SLS II\): a randomised controlled, double-blind, parallel group trial.](#) Tashkin DP, Roth MD, Clements PJ, Furst DE, Khanna D, Kleerup EC, Goldin J, Arriola E, Volkmann ER, Kafaja S, Silver R, Steen V, Strange C, Wise R, Wigley F, Mayes M, Riley DJ, Hussain S, Assassi S, Hsu VM, Patel B, Phillips K, Martinez F, Golden J, Connolly MK, Varga J, Dematte J, Hinchcliff ME, Fischer A, Swigris J, Meehan R, Theodore A, Simms R, Volkov S, Schraufnagel DE, Scholand MB, Frech T, Molitor JA, Highland K, Read CA, Fritzler MJ, Kim GH, Tseng CH, Elashoff RM; Scleroderma Lung Study II Investigators. Lancet Respir Med. 2016 Jul 25. pii: S2213-2600(16)30152-7. doi: 10.1016/S2213-2600(16)30152-7. [Epub ahead of print] PMID: 27469583
18. [Immediate total-body CT scanning versus conventional imaging and selective CT scanning in patients with severe trauma \(REACT-2\): a randomised controlled trial.](#) Sierink JC, Treskes K, Edwards MJ, Beuker BJ, den Hartog D, Hohmann J, Dijkgraaf MG, Luitse JS, Beenen LF, Hollmann MW, Goslings JC; REACT-2 study group. Lancet. 2016 Aug 13;388(10045):673-83. doi: 10.1016/S0140-6736(16)30932-1. Epub 2016 Jun 28. PMID: 27371185

Circulation

19. [Beneficial Role of Erythrocyte Adenosine A2B Receptor-Mediated AMP-Activated Protein Kinase Activation in High-Altitude Hypoxia.](#) Liu H, Zhang Y, Wu H, D'Alessandro A, Yegutkin GG, Song A, Sun K, Li J, Cheng NY, Huang A, Edward Wen Y, Weng TT, Luo F, Nemkov T, Sun H, Kellems RE, Karmouty-Quintana H, Hansen KC, Zhao B, Subudhi AW, Jameson-Van Houten S, Julian CG, Lovering AT, Eltzschig HK, Blackburn MR, Roach RC, Xia Y. *Circulation*. 2016 Aug 2;134(5):405-21. doi: 10.1161/CIRCULATIONAHA.116.021311. PMID: 27482003
20. [Menthol and Nonmenthol Cigarette Smoking: All-Cause Deaths, Cardiovascular Disease Deaths, and Other Causes of Death Among Blacks and Whites.](#) Munro HM, Tarone RE, Wang TJ, Blot WJ. *Circulation*. 2016 May 10;133(19):1861-6. doi: 10.1161/CIRCULATIONAHA.115.020536. Epub 2016 Mar 28. PMID: 27022064
21. [Pregnancy and the Risk of Aortic Dissection or Rupture: A Cohort-Crossover Analysis.](#) Kamel H, Roman MJ, Pitcher A, Devereux RB. *Circulation*. 2016 Aug 16;134(7):527-33. doi: 10.1161/CIRCULATIONAHA.116.021594. Epub 2016 Aug 4. PMID: 27492904

Critical Care

22. [Impaired Ca\(2+\) release contributes to muscle weakness in a rat model of critical illness myopathy.](#) Llano-Diez M, Cheng AJ, Jonsson W, Ivarsson N, Westerblad H, Sun V, Cacciani N, Larsson L, Bruton J. *Crit Care*. 2016 Aug 10;20(1):254. doi: 10.1186/s13054-016-1417-z. PMID:27510990
23. [Probiotic and synbiotic therapy in critical illness: a systematic review and meta-analysis.](#) Manzanares W, Lemieux M, Langlois PL, Wischmeyer PE. *Crit Care*. 2016 Aug 19;19:262. doi: 10.1186/s13054-016-1434-y. PMID: 27538711
24. [Early initiation of continuous renal replacement therapy improves survival of elderly patients with acute kidney injury: a multicenter prospective cohort study.](#) Park JY, An JN, Jhee JH, Kim DK, Oh HJ, Kim S, Joo KW, Oh YK, Lim CS, Kang SW, Kim YS, Park JT, Lee JP. *Crit Care*. 2016 Aug 16;20(1):260. doi: 10.1186/s13054-016-1437-8. PMID:27526933

Intensive Care

25. [The Impact of Implementation of an ICU Consult Service on Hospital-Wide Outcomes and ICU-Specific Outcomes.](#) Al-Rajhi A, Mardini L, Jayaraman D. *J Intensive Care Med*. 2016 Aug;31(7):478-84. doi: 10.1177/0885066615583794. Epub 2015 Apr 28. PMID: 25922386
26. [Does the Subjective Global Assessment Predict Outcome in Critically Ill Medical Patients?](#) Bector S, Vagianos K, Suh M, Duerksen DR. *J Intensive Care Med*. 2016 Aug;31(7):485-9. doi: 10.1177/0885066615596325. Epub 2015 Jul 16. PMID: 26188013
27. [Early Trophic Enteral Nutrition Is Associated With Improved Outcomes in Mechanically Ventilated Patients With Septic Shock: A Retrospective Review.](#) Patel JJ, Kozeniecki M, Biesboer A, Peppard W, Ray AS, Thomas S, Jacobs ER, Nanchal R, Kumar G. *J Intensive Care Med*. 2016 Aug;31(7):471-7. doi: 10.1177/0885066614554887. Epub 2014 Oct 14. PMID:25315218

Critical Care Medicine

28. [Metabolite Profiles in Sepsis: Developing Prognostic Tools Based on the Type of Infection.](#) Neugebauer S1, Giamarellos-Bourboulis EJ, Pelekanou A, Marioli A. *Crit Care Med*. 2016 Sep;44(9):1649-62 doi: 10.1097/CCM.0000000000001740 PMID: 27097292
29. [Cerebral Oximetry During Cardiac Arrest: A Multicenter Study of Neurologic Outcomes and Survival.](#) Parnia S, Yang J, Nguyen R, Ahn A, Zhu J, Inigo-Santiago L, Nasir A, Golder K, Ravishankar S, Bartlett P, Xu J, Pogson D, Cooke S, Walker C, Spearpoint K. *Crit Care Med*. 2016 Sep;44(9):1663-74. doi: 10.1097/CCM.0000000000001723.PMID: 27071068
30. [Incidence and Etiology of Potentially Preventable ICU Readmissions](#) Al-Jaghbeer MJ, Tekwani SS, Gunn SR, Kahn JM. *Crit Care Med*. 2016 Sep;44(9):1704-9. doi: 10.1097/CCM.0000000000001746. PMID: 27071066