

Top Critical Care Articles for December 2016

AJRCM

1. [Comparative Analysis of the Host Response to Community-acquired and Hospital-acquired Pneumonia in Critically Ill Patients.](#)

van Vught LA, Scicluna BP, Wiewel MA, Hoogendijk AJ, Klein Klouwenberg PM, Franitza M, Toliat MR, Nürnberg P, Cremer OL, Horn J, Schultz MJ, Bonten MM, van der Poll T.
Am J Respir Crit Care Med. 2016 Dec 1;194(11):1366-1374.
PMID: 27267747

2. [Polysaccharide-Specific Memory B Cells Predict Protection against Experimental Human Pneumococcal Carriage.](#)

Pennington SH, Pojar S, Mitsi E, Gritzfeld JF, Nikolaou E, Solórzano C, Owugha JT, Masood Q, Gordon MA, Wright AD, Collins AM, Miyaji EN, Gordon SB, Ferreira DM.
Am J Respir Crit Care Med. 2016 Dec 15;194(12):1523-1531.
PMID: 27403678

Trauma/Acute Care Surgery

4. [Inducing metabolic suppression in severe hemorrhagic shock: Pilot study results from the Biochronicity Project.](#)

Black GE, Sokol KK, Shawhan RR, Eckert MJ, Salgar S, Marko ST, Hoffer ZS, Keyes CC, Roth MB, Martin MJ.
J Trauma Acute Care Surg. 2016 Dec;81(6):1003-1011. PMID: 27537510

5. [Substituting systolic blood pressure with shock index in the National Trauma Triage Protocol.](#)

Haider AA, Azim A, Rhee P, Kulvatunyou N, Ibraheem K, Tang A, O'Keeffe T, Iftikhar H, Vercruyse G, Joseph B.
J Trauma Acute Care Surg. 2016 Dec;81(6):1136-1141. PMID: 27893619

6. [The importance of empiric antibiotic dosing in critically ill trauma patients: Are we under-dosing based on augmented renal clearance and inaccurate renal clearance estimates?](#)

Barletta JF, Mangram AJ, Byrne M, Hollingworth AK, Sucher JF, Ali-Osman FR, Shirah GR, Dzandu JK.
J Trauma Acute Care Surg. 2016 Dec;81(6):1115-1121. PMID: 27533906

CHEST

7. [Culture-Negative Severe Sepsis: Nationwide Trends and Outcomes.](#)

Gupta S, Sakhujia A, Kumar G, McGrath E, Nanchal RS, Kashani KB.
Chest. 2016 Dec;150(6):1251-1259. doi: 10.1016/j.chest.2016.08.1460. PMID:27615024

8. [Association Between Insomnia and Asthma Burden in the Severe Asthma Research Program \(SARP\) III.](#)

Luyster FS, Strollo PJ Jr, Holguin F, Castro M, Dunican EM, Fahy J, Gaston B, Israel E, Jarjour NN, Mauger DT, Moore WC, Wenzel SE.

Chest. 2016 Dec;150(6):1242-1250. doi: 10.1016/j.chest.2016.09.020. PMID: 27720882

9. [Lung Clearance Index in Adults and Children With Cystic Fibrosis.](#)

O'Neill K, Tunney MM, Johnston E, Rowan S, Downey DG, Rendall J, Reid A, Bradbury I, Elborn JS, Bradley JM.

Chest. 2016 Dec;150(6):1323-1332. doi: 10.1016/j.chest.2016.06.029. PMID: 27395423

NEJM

10. [Fish Oil-Derived Fatty Acids in Pregnancy and Wheeze and Asthma in Offspring.](#)

Bisgaard H, Stokholm J, Chawes BL, Vissing NH, Bjarnadóttir E, Schoos AM, Wolsk HM, Pedersen TM, Vinding RK, Thorsteinsdóttir S, Følsgaard NV, Fink NR, Thorsen J, Pedersen AG, Waage J, Rasmussen MA, Stark KD, Olsen SF, Bønnelykke K.

N Engl J Med. 2016 Dec 29;375(26):2530-9. doi: 10.1056/NEJMoa1503734. PMID: 28029926

11. [Hypothermia for Neuroprotection in Convulsive Status Epilepticus.](#)

Legriel S, Lemiale V, Schenck M, Chelly J, Laurent V, Daviaud F, Srairi M, Hamdi A, Geri G, Rossignol T, Hilly-Ginoux J, Boisramé-Helms J, Louart B, Malissin I, Mongardon N, Planquette B, Thirion M, Merceron S, Canet E, Pico F, Tran-Dinh YR, Bedos JP, Azoulay E, Resche-Rigon M, Cariou A; HYBERNATUS Study Group..

N Engl J Med. 2016 Dec 22;375(25):2457-2467. doi: 10.1056/NEJMoa1608193.

PMID:28002714

12. [Reoperation for Coronary Artery Bypass Grafting Surgery: Outcomes and Considerations for Expanding Interventional Procedures.](#)

Maltais S, Widmer RJ, Bell MR, Daly RC, Dearani JA, Greason KL, Joyce DL, Joyce LD, Schaff HV, Stulak JM.

Ann Thorac Surg. 2016 Dec 21. pii: S0003-4975(16)31362-5. doi:

10.1016/j.athoracsur.2016.09.097. [Epub ahead of print] PMID:28012643

JAMA/ICM

13. [Associations between ventilator settings during extracorporeal membrane oxygenation for refractory hypoxemia and outcome in patients with acute respiratory distress syndrome: a pooled individual patient data analysis : Mechanical ventilation during ECMO.](#)

Serpa Neto A, Schmidt M, Azevedo LC, Bein T, Brochard L, Beutel G, Combes A, Costa EL, Hodgson C, Lindskov C, Lubnow M, Lueck C, Michaels AJ, Paiva JA, Park M, Pesenti A, Pham T, Quintel M, Marco Ranieri V, Ried M, Roncon-Albuquerque R Jr, Slutsky AS, Takeda S, Terragni PP, Vejen M, Weber-Carstens S, Welte T, Gama de Abreu M, Pelosi P, Schultz MJ; ReVA Research Network and the PROVE Network Investigators..

Intensive Care Med. 2016 Nov;42(11):1672-1684. PMID:27586996

14. [Intravenous iron or placebo for anaemia in intensive care: the IRONMAN multicentre randomized blinded trial : A randomized trial of IV iron in critical illness.](#)

IRONMAN Investigators., Litton E, Baker S, Erber WN, Farmer S, Ferrier J, French C, Gummer J, Hawkins D, Higgins A, Hofmann A, De Keulenaer B, McMorrow J, Olynyk JK, Richards T, Towler S, Trengove R, Webb S; Australian and New Zealand Intensive Care Society Clinical Trials Group.

Intensive Care Med. 2016 Nov;42(11):1715-1722. PMID:27686346

15. [Neurally adjusted ventilatory assist as an alternative to pressure support ventilation in adults: a French multicentre randomized trial.](#)

Demoule A, Clavel M, Rolland-Debord C, Perbet S, Terzi N, Kouatchet A, Wallet F, Roze H, Vargas F, Guerin C, Dellamonica J, Jaber S, Brochard L, Similowski T.

Intensive Care Med. 2016 Nov;42(11):1723-1732. PMID:27686347

BMJ, LANCET

16. [Comorbidities and the risk of mortality in patients with bronchiectasis: an international multicentre cohort study.](#)

McDonnell MJ, Aliberti S, Goeminne PC, Restrepo MI, Finch S, Pesci A, Dupont LJ, Fardon TC, Wilson R, Loebinger MR, Skrbic D, Obradovic D, De Soyza A, Ward C, Laffey JG, Rutherford RM, Chalmers JD.

Lancet Respir Med. 2016 Dec;4(12):969-979. doi: 10.1016/S2213-2600(16)30320-4. PMID: 27864036

17. [Added value of combined endobronchial and oesophageal endosonography for mediastinal nodal staging in lung cancer: a systematic review and meta-analysis.](#)

Korevaar DA, Crombag LM, Cohen JF, Spijker R, Bossuyt PM, Annema JT.

Lancet Respir Med. 2016 Dec;4(12):960-968. doi: 10.1016/S2213-2600(16)30317-4. PMID: 27773666

18. [Percutaneous coronary angioplasty versus coronary artery bypass grafting in treatment of unprotected left main stenosis \(NOBLE\): a prospective, randomised, open-label, non-inferiority trial.](#)

Mäkikallio T, Holm NR, Lindsay M, Spence MS, Erglis A, Menown IB, Trovik T, Eskola M, Romppanen H, Kellerth T, Ravkilde J, Jensen LO, Kalinauskas G, Linder RB, Pentikainen M, Hervold A, Banning A, Zaman A, Cotton J, Eriksen E, Margus S, Sørensen HT, Nielsen PH, Niemelä M, Kervinen K, Lassen JF, Maeng M, Oldroyd K, Berg G, Walsh SJ, Hanratty CG, Kumsars I, Stradins P, Steigen TK, Fröbert O, Graham AN, Endresen PC, Corbascio M, Kajander O, Trivedi U, Hartikainen J, Anttila V, Hildick-Smith D, Thuesen L, Christiansen EH; NOBLE study investigators..

Lancet. 2016 Dec 3;388(10061):2743-2752. doi: 10.1016/S0140-6736(16)32052-9. PMID: 27810312

Circulation

19. [Safety and Tolerability of CSL112, a Reconstituted, Infusible, Plasma-Derived Apolipoprotein A-I, After Acute Myocardial Infarction: The AEGIS-I Trial \(ApoA-I Event Reducing in Ischemic Syndromes I\).](#)

Michael Gibson C, Korjian S, Tricoci P, Daaboul Y, Yee M, Jain P, Alexander JH, Steg PG, Lincoff AM, Kastelein JJ, Mehran R, D'Andrea DM, Deckelbaum LI, Merkely B, Zarebinski M, Ophuis TO, Harrington RA.

Circulation. 2016 Dec 13;134(24):1918-1930. PMID: 27881559

20. [Conventional Versus Compression-Only Versus No-Bystander Cardiopulmonary Resuscitation for Pediatric Out-of-Hospital Cardiac Arrest.](#)

Fukuda T, Ohashi-Fukuda N, Kobayashi H, Gunshin M, Sera T, Kondo Y, Yahagi N.

Circulation. 2016 Dec 20;134(25):2060-2070. PMID: 27881563

21. [Duration of Prehospital Cardiopulmonary Resuscitation and Favorable Neurological Outcomes for Pediatric Out-of-Hospital Cardiac Arrests: A Nationwide, Population-Based Cohort Study.](#)

Goto Y, Funada A, Goto Y.

Circulation. 2016 Dec 20;134(25):2046-2059. PMID: 27777278

Critical Care

[Blood transfusion improves renal oxygenation and renal function in sepsis-induced acute kidney injury in rats.](#)

Zafrani L, Ergin B, Kapucu A, Ince C.

Crit Care. 2016 Dec 20;20(1):406. PMID: 27993148

23. [Early-phase cumulative hypotension duration and severe-stage progression in oliguric acute kidney injury with and without sepsis: an observational study.](#)

Izawa J, Kitamura T, Iwami T, Uchino S, Takinami M, Kellum JA, Kawamura T.

Crit Care. 2016 Dec 19;20(1):405. PMID: 27993157

24. [Association between time of discharge from ICU and hospital mortality: a systematic review and meta-analysis.](#)

Yang S, Wang Z, Liu Z, Wang J, Ma L.

Crit Care. 2016 Dec 1;20(1):390. PMID: 27903270

Intensive Care

25. [Clot Extraction With the FlowTrieve Device in Acute Massive Pulmonary Embolism.](#)

Weinberg AS, Dohad S, Ramzy D, Madyoon H, Tapson VF.

J Intensive Care Med. 2016 Sep 6. pii: 0885066616666031. [Epub ahead of print]

PMID:

27601482

26. [Postintubation Hypotension in General Anesthesia: A Retrospective Analysis.](#)

Green RS, Butler MB.

J Intensive Care Med. 2015 Jul 27. pii: 0885066615597198. [Epub ahead of print]

PMID:26721639

27. [Nosocomial Bloodstream Infections in Patients Receiving Extracorporeal Life Support: Variability in Prevention Practices: A Survey of the Extracorporeal Life Support Organization Members.](#)

Glater-Welt LB, Schneider JB, Zinger MM, Rosen L, Sweberg TM.

J Intensive Care Med. 2015 Feb 10. pii: 0885066615571540. [Epub ahead of print]
PMID: 25670726

Critical Care Medicine

28. [Impact of Source Control in Patients With Severe Sepsis and Septic Shock.](#)

Martínez ML, Ferrer R, Torrents E, Guillamat-Prats R, Gomà G, Suárez D, Álvarez-Rocha L, Pozo Laderas JC, Martín-Loeches I, Levy MM, Artigas A; Edusepsis Study Group..
Crit Care Med. 2017 Jan;45(1):11-19. PMID:27611975

29. [Overtreatment of Heparin-Induced Thrombocytopenia in the Surgical ICU.](#)

Harada MY, Hoang DM, Zaw AA, Murry JS, Volod O, Sun BJ, Nuño M, Mason R, Margulies DR, Ley EJ.

Crit Care Med. 2017 Jan;45(1):28-34. PMID: 27513533

30. [Chronic Kidney Disease After Acute Kidney Injury Requiring Continuous Renal Replacement Therapy and Its Impact on Long-Term Outcomes: A Multicenter Retrospective Cohort Study in Korea.](#)

An JN, Hwang JH, Kim DK, Lee H, Ahn SY, Kim S, Park JT, Kang SW, Oh YK, Kim YS, Lim CS, Oh HJ, Lee JP.

Crit Care Med. 2017 Jan;45(1):47-57. PMID: 27565014