

Critical Care Top Articles for July 2017

AJRCM (ATS)

1. Comorbidities and Subgroups of Patients Surviving Severe Acute Hypercapnic Respiratory Failure in the Intensive Care Unit.
Adler D, Pépin JL, Dupuis-Lozeron E, Espa-Cervena K, Merlet-Violet R, Muller H, Janssens JP, Brochard L.
Am J Respir Crit Care Med. 2017 Jul 15;196(2):200-207. doi: 10.1164/rccm.201608-1666OC.
PMID: 27973930
2. Antihistone Properties of C1 Esterase Inhibitor Protect against Lung Injury.
Wygrecka M, Kosanovic D, Wujak L, Reppe K, Henneke I, Frey H, Didiysova M, Kwapiszewska G, Marsh LM, Baal N, Hackstein H, Zakrzewicz D, Müller-Redetzky HC, de Maat S, Maas C, Nolte MW, Panousis C, Schermuly RT, Seeger W, Witzenrath M, Schaefer L, Markart P.
Am J Respir Crit Care Med. 2017 Jul 15;196(2):186-199. doi: 10.1164/rccm.201604-0712OC.
PMID: 28005404
3. Microbes Are Associated with Host Innate Immune Response in Idiopathic Pulmonary Fibrosis.
Huang Y, Ma SF, Espindola MS, Vij R, Oldham JM, Huffnagle GB, Erb-Downward JR, Flaherty KR, Moore BB, White ES, Zhou T, Li J, Lussier YA, Han MK, Kaminski N, Garcia JGN, Hogaboam CM, Martinez FJ, Noth I; COMET-IPF Investigators.
Am J Respir Crit Care Med. 2017 Jul 15;196(2):208-219. doi: 10.1164/rccm.201607-1525OC.
PMID: 28157391

Trauma, Acute Care Surgery

4. Surgical management of pancreatic necrosis: A practice management guideline from the Eastern Association for the Surgery of Trauma.
Mowery NT, Bruns BR, MacNew HG, Agarwal S, Enniss TM, Khan M, Guo WA, Cannon JW, Lissauer ME, Duane TM, Hildreth AN, Pappas PA, Gries LM, Kaiser M, Robinson BRH.
J Trauma Acute Care Surg. 2017 Aug;83(2):316-327. doi:

10.1097/TA.0000000000001510.

PMID: 28452889

5. C-peptide attenuates acute lung inflammation in a murine model of hemorrhagic shock and resuscitation by reducing gut injury.
Kao RLC, Xu X, Xenocostas A, Parry N, Mele T, Martin CM, Rui T.
J Trauma Acute Care Surg. 2017 Aug;83(2):256-262. doi:
10.1097/TA.0000000000001539.
PMID: 28452895
6. Optimization of brain metabolism using metabolic-targeted therapeutic hypothermia can reduce mortality from traumatic brain injury.
Feng JZ, Wang WY, Zeng J, Zhou ZY, Peng J, Yang H, Deng PC, Li SJ, Lu CD, Jiang H.
J Trauma Acute Care Surg. 2017 Aug;83(2):296-304. doi:
10.1097/TA.0000000000001522.
PMID: 28452885

CHEST

7. Endothelial Permeability and Hemostasis in Septic Shock: Results From the ProCESS Trial.
Hou PC, Filbin MR, Wang H, Ngo L, Huang DT, Aird WC, Yealy DM, Angus DC, Kellum JA, Shapiro NI; ProCESS Investigators(*).
Chest. 2017 Jul;152(1):22-31. doi: 10.1016/j.chest.2017.01.010. Epub 2017 Jan 19.
PMID: 28109962
8. Maximal Inspiratory Pressure: Does the Choice of Reference Values Actually Matter?
Rodrigues A, Da Silva ML, Berton DC, Cipriano G Jr, Pitta F, O'Donnell DE, Neder JA.
Chest. 2017 Jul;152(1):32-39. doi: 10.1016/j.chest.2016.11.045. Epub 2016 Dec 8.
PMID: 27940276
9. Direct Oral Anticoagulant- or Warfarin-Related Major Bleeding: Characteristics, Reversal Strategies, and Outcomes From a Multicenter Observational Study.
Xu Y, Schulman S, Dowlathshahi D, Holbrook AM, Simpson CS, Shepherd LE, Wells PS, Giulivi A, Gomes T, Mamdani M, Khuu W, Frymire E, Johnson AP; Bleeding Effected by Direct Oral Anticoagulants (BLED-AC) Study Group.

Chest. 2017 Jul;152(1):81-91. doi: 10.1016/j.chest.2017.02.009. Epub 2017 Feb 17.
PMID: 28219635

NEJM

10. Declining Risk of Sudden Death in Heart Failure.
Shen L, Jhund PS, Petrie MC, Claggett BL, Barlera S, Cleland JGF, Dargie HJ, Granger CB, Kjekshus J, Køber L, Latini R, Maggioni AP, Packer M, Pitt B, Solomon SD, Swedberg K, Tavazzi L, Wikstrand J, Zannad F, Zile MR, McMurray JJV.
N Engl J Med. 2017 Jul 6;377(1):41-51. doi: 10.1056/NEJMoa1609758.
PMID: 28679089
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 Jul 11. doi: 10.1056/NEJMoa1707278. [Epub ahead of print]
PMID: 28693366
12. Ventilation in Extremely Preterm Infants and Respiratory Function at 8 Years.
Doyle LW, Carse E, Adams AM, Ranganathan S, Opie G, Cheong JLY; Victorian Infant Collaborative Study Group.
N Engl J Med. 2017 Jul 27;377(4):329-337. doi: 10.1056/NEJMoa1700827.
PMID: 2874598

BMJ, LANCET resp

13. Effect of specialist palliative care services on quality of life in adults with advanced incurable illness in hospital, hospice, or community settings: systematic review and meta-analysis.
Gaertner J, Siemens W, Meerpohl JJ, Antes G, Meffert C, Xander C, Stock S, Mueller D, Schwarzer G, Becker G.
BMJ. 2017 Jul 4;357:j2925. doi: 10.1136/bmj.j2925.
PMID: 2867655
14. E-cigarette use and associated changes in population smoking cessation: evidence from US current population surveys.
Zhu SH, Zhuang YL, Wong S, Cummins SE, Tedeschi GJ.

BMJ. 2017 Jul 26;358:j3262. doi: 10.1136/bmj.j3262.
PMID: 28747333

15. Benzodiazepines and risk of all cause mortality in adults: cohort study.

Patorno E, Glynn RJ, Levin R, Lee MP, Huybrechts KF.
BMJ. 2017 Jul 6;358:j2941. doi: 10.1136/bmj.j2941.
PMID: 28684397

Circulation

16. Lower Risk of Heart Failure and Death in Patients Initiated on Sodium-Glucose Cotransporter-2 Inhibitors Versus Other Glucose-Lowering Drugs: The CVD-REAL Study (Comparative Effectiveness of Cardiovascular Outcomes in New Users of Sodium-Glucose Cotransporter-2 Inhibitors).

Kosiborod M, Cavender MA, Fu AZ, Wilding JP, Khunti K, Holl RW, Norhammar A, Birkeland KI, Jørgensen ME, Thuresson M, Arya N, Bodegård J, Hammar N, Fenici P; CVD-REAL Investigators and Study Group*.
Circulation. 2017 Jul 18;136(3):249-259. doi:
10.1161/CIRCULATIONAHA.117.029190. Epub 2017 May 18.
PMID: 28522450

17. Thirty-Day Readmissions After Endovascular or Surgical Therapy for Critical Limb Ischemia: Analysis of the 2013 to 2014 Nationwide Readmissions Databases. Kolte D, Kennedy KF, Shishehbor MH, Abbott JD, Khera S, Soukas P, Mamdani ST, Hyder ON, Drachman DE, Aronow HD.

Circulation. 2017 Jul 11;136(2):167-176. doi:
10.1161/CIRCULATIONAHA.117.027625. Epub 2017 May 2.
PMID: 28465288

18. Evidence Supporting the Existence of a Distinct Obese Phenotype of Heart Failure With Preserved Ejection Fraction.

Obokata M, Reddy YNV, Pislaru SV, Melenovsky V, Borlaug BA.
Circulation. 2017 Jul 4;136(1):6-19. doi: 10.1161/CIRCULATIONAHA.116.026807.
Epub 2017 Apr 5.
PMID: 28381470

Critical Care

19. Prolonged acute care and post-acute care admission and recovery of physical function in survivors of acute respiratory failure: a secondary analysis of a randomized controlled trial.
Neumeier A, Nordon-Craft A, Malone D, Schenkman M, Clark B, Moss M.
Crit Care. 2017 Jul 21;21(1):190. doi: 10.1186/s13054-017-1791-1.
PMID: 28732512
20. Markers of nitric oxide are associated with sepsis severity: an observational study.
Winkler MS, Kluge S, Holzmann M, Moritz E, Robbe L, Bauer A, Zahrt C, Prießler M, Schwedhelm E, Böger RH, Goetz AE, Nierhaus A, Zoellner C.
Crit Care. 2017 Jul 15;21(1):189. doi: 10.1186/s13054-017-1782-2.
PMID:28709458
21. Positive End-Expiratory Pressure Effect of 3 High-Flow Nasal Cannula Devices.
Luo JC, Lu MS, Zhao ZH, Jiang W, Xu B, Weng L, Li T, Du B.
Respir Care. 2017 Jul;62(7):888-895. doi: 10.4187/respcare.05337. Epub 2017 Apr 25.
PMID: 28442633

Critical Care Medicine

22. Withholding Pantoprazole for Stress Ulcer Prophylaxis in Critically Ill Patients: A Pilot Randomized Clinical Trial and Meta-Analysis.
Alhazzani W, Guyatt G, Alshahrani M, Deane AM, Marshall JC, Hall R, Muscedere J, English SW, Lauzier F, Thabane L, Arabi YM, Karachi T, Rochwerg B, Finfer S, Daneman N, Alshamsi F, Zytaruk N, Heel-Ansdell D, Cook D; Canadian Critical Care Trials Group.
Crit Care Med. 2017 Jul;45(7):1121-1129. doi: 10.1097/CCM.0000000000002461.
PMID: 28459708
23. Neuron-Specific Enolase Predicts Poor Outcome After Cardiac Arrest and Targeted Temperature Management: A Multicenter Study on 1,053 Patients.
Streitberger KJ, Leithner C, Wattenberg M, Tonner PH, Hasslacher J, Joannidis M, Pellis T, Di Luca E, Födisch M, Krannich A, Ploner CJ, Storm C.
Crit Care Med. 2017 Jul;45(7):1145-1151. doi: 10.1097/CCM.0000000000002335.
PMID: 28426467
24. Hypothermia for the Treatment of Acute Respiratory Distress Syndrome? Cool It.
Casey JD, Janz DR, Semler MW.

Crit Care Med. 2017 Jul;45(7):1244-1245. doi: 10.1097/CCM.0000000000002359. No abstract available.
PMID: 28622220

Resuscitation

25. The effect of 50% compared to 100% inspired oxygen fraction on brain oxygenation and post cardiac arrest mitochondrial function in experimental cardiac arrest.
Nelskylä A, Nurmi J, Jousi M, Schramko A, Mervaala E, Ristagno G, Skrifvars MB. Resuscitation. 2017 Jul; 116:1-7. doi: 10.1016/j.resuscitation.2017.04.022. Epub 2017 Apr 22.
PMID: 28438718
26. Early Effects of Prolonged Cardiac Arrest and Ischemic Postconditioning during Cardiopulmonary Resuscitation on Cardiac and Brain Mitochondrial Function in Pigs.
Matsuura TR, Bartos JA, Tsangaris A, Shekar KC, Olson MD, Riess ML, Bienengraeber M, Aufderheide TP, Neumar RW, Rees JN, McKnite SH, Dikalova AE, Dikalov SI, Douglas HF, Yannopoulos D. Resuscitation. 2017 Jul;116:8-15. doi: 10.1016/j.resuscitation.2017.03.033. Epub 2017 Apr 10.
PMID: 28408349
27. Mortality in patients resuscitated from out-of-hospital cardiac arrest based on automated blood cell count and neutrophil lymphocyte ratio at admission.
Weiser C, Schwameis M, Sterz F, Herkner H, Lang IM, Schwarzingger I, Spiel AO. Resuscitation. 2017 Jul;116:49-55. doi: 10.1016/j.resuscitation.2017.05.006. Epub 2017 May 2.
PMID: 28476480

JAMA, ICM

28. Targeted Temperature Management for 48 vs 24 Hours and Neurologic Outcome After Out-of-Hospital Cardiac Arrest: A Randomized Clinical Trial.
Kirkegaard H, Søreide E, de Haas I, Pettilä V, Taccone FS, Arus U, Storm C, Hassager C, Nielsen JF, Sørensen CA, Ilkjær S, Jeppesen AN, Grejs AM, Duez CHV, Hjort J, Larsen AI, Toome V, Tiainen M, Hästbacka J, Laitio T, Skrifvars MB. JAMA. 2017 Jul 25;318(4):341-350. doi: 10.1001/jama.2017.8978.
PMID: 28742911

29. Association of Positive Airway Pressure With Cardiovascular Events and Death in Adults With Sleep Apnea: A Systematic Review and Meta-analysis.

Yu J, Zhou Z, McEvoy RD, Anderson CS, Rodgers A, Perkovic V, Neal B.
JAMA. 2017 Jul 11;318(2):156-166. doi: 10.1001/jama.2017.7967. Review.
PMID: 28697252

30. 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