

29. Atkinson PR, Milne J, Diegelmann L, Lamprecht H, Stander M, Lussier D, et al. Does Point-of-Care Ultrasonography Improve Clinical Outcomes in Emergency Department Patients With Undifferentiated Hypotension? An International Randomized Controlled Trial From the ShoC-ED Investigators. *Ann Emerg Med.* 2018;72:478-89. <https://doi.org/10.1016/j.annemerg-med.2018.04.002>.
30. Yoshida T, Yoshida T, Noma H, Nomura T, Suzuki A, Mihara T. Diagnostic accuracy of point-of-care ultrasound for shock: a systematic review and meta-analysis. *Crit Care.* 2023;27:200. <https://doi.org/10.1186/s13054-023-04495-6>.
31. Peake SL, Delaney A, Finnis M, Hammond N, Knowles S, McDonald S, et al. Early sepsis in Australia and New Zealand: A point-prevalence study of haemodynamic resuscitation practices. *Emerg Med Australas.* 2023;35:953-9. <https://doi.org/10.1111/1742-6723.14283>.
32. Dellinger RP, Rhodes A, Evans L, Alhazzani W, Beale R, Jaeschke R, et al. Surviving Sepsis Campaign. *Crit Care Med.* 2023;51:431-44. <https://doi.org/10.1097/CCM.0000000000005804>.
33. Meyhoff TS, Hjortrup PB, Wetterslev J, Sivapalan P, Laake JH, Cronhjort M, et al. Restriction of Intravenous Fluid in ICU Patients with Septic Shock. *N Engl J Med.* 2022;386:2459-70. <https://doi.org/10.1056/NEJMoa2202707>.
34. Reynolds PM, Stefanos S, MacLaren R. Restrictive resuscitation in patients with sepsis and mortality: A systematic review and meta-analysis with trial sequential analysis. *Pharmacotherapy.* 2023 Feb;43(2):104-114. doi: 10.1002/phar.2764. Epub 2023 Jan 21. PMID: 36625778; PMCID: PMC10634281.
35. Sivapalan P, Ellekjaer KL, Jessen MK, Meyhoff TS, Cronhjort M, Hjortrup PB, et al. Lower vs Higher Fluid Volumes in Adult Patients With Sepsis. *Chest.* 2023;164:892-912. <https://doi.org/10.1016/j.chest.2023.04.036>.
36. Guo J, Hong J, He Y, Li Q, Huang T, Lou D, et al. Comparison of early aggressive versus non-aggressive fluid resuscitation in acute pancreatitis: a meta-analysis. *Transp Adv Gastroenterol.* 2023;16. <https://doi.org/10.1177/17562848231192144>.
37. Li X-W, Wang C-H, Dai J-W, Tsao S-H, Wang P-H, Tai C-C, et al. Comparison of clinical outcomes between aggressive and non-aggressive intravenous hydration for acute pancreatitis: a systematic review and meta-analysis. *Crit Care.* 2023;27:122. <https://doi.org/10.1186/s13054-023-04401-0>.
38. Andrei S, Bahr P-A, Nguyen M, Bouhemad B, Guinot P-G. Prevalence of systemic venous congestion assessed by Venous Excess Ultrasound Grading System (VExUS) and association with acute kidney injury in a general ICU cohort: a prospective multicentric study. *Crit Care.* 2023;27:224. <https://doi.org/10.1186/s13054-023-04524-4>.
39. Rikhsraj KJK, Ronsley C, Sekhon MS, Mitra AR, Griesdale DEG. High-normal versus low-normal mean arterial pressure thresholds in critically ill patients: a systematic review and meta-analysis of randomized trials. *Can J Anesth Can d'anesthésie.* 2023;70:1244-54. <https://doi.org/10.1007/s12630-023-02494-3>.
40. Maiwall R, Rao Pasupuleti SS, Hidam AK, Kumar A, Tevethia HV, Vijayaraghavan R, et al. A randomised-controlled trial (TARGET-C) of high vs. low target mean arterial pressure in patients with cirrhosis and septic shock. *J Hepatol.* 2023;79:349-61. <https://doi.org/10.1016/j.jhep.2023.04.006>.
41. Carayannopoulos KL, Pidutti A, Upadhyaya Y, Alshamsi F, Basmaji J, Granholm A, et al. Mean Arterial Pressure Targets and Patient-Important Outcomes in Critically Ill Adults: A Systematic Review and Meta-Analysis of Randomized Trials. *Crit Care Med.* 2023 Feb 1;51(2):241-253. doi: 10.1097/CCM.0000000000005726. Epub 2022 Nov 18. PMID: 36661452.
42. Khanna AK, Kinoshita T, Natarajan A, Schwager E, Linn DD, Dong J, et al. Association of systolic, diastolic, mean, and pulse pressure with morbidity and mortality in septic ICU patients: a nationwide observational study. *Ann Intensive Care.* 2023;13:9. <https://doi.org/10.1186/s13613-023-01101-4>.
43. Hernández G, Ospina-Tascón GA, Damiani LP, Estenssoro E, Dubin A, Hurtado J, et al. Effect of a Resuscitation Strategy Targeting Peripheral Perfusion Status vs Serum Lactate Levels on 28-Day Mortality Among Patients With Septic Shock: The ANDROMEDA-SHOCK Randomized Clinical Trial. *JAMA.* 2019;321:654-64. <https://doi.org/10.1001/jama.2019.0071>.
44. Huang W, Xiang H, Hu C, Wu T, Zhang D, Ma S, et al. Association of Sublingual Microcirculation Parameters and Capillary Refill Time in the Early Phase of ICU Admission. *Crit Care Med.* 2023 Jul 1;51(7):913-923. doi: 10.1097/CCM.0000000000005851. Epub 2023 Mar 21. PMID: 36942969; PMCID: PMC10262986.
45. Bruno RR, Wollborn J, Fengler K, Flick M, Wunder C, Allgäuer S, et al. Direct assessment of microcirculation in shock: a randomized-controlled multicenter study. *Intensive Care Med.* 2023;49:645-55. <https://doi.org/10.1007/s00134-023-07098-5>.
46. Wieruszewski PM, Bellomo R, Busse LW, Ham KR, Zarbock A, Khanna AK, et al. Initiating angiotensin II at lower vasopressor doses in vasodilatory shock: an exploratory post-hoc analysis of the ATHOS-3 clinical trial. *Crit Care.* 2023;27:175. <https://doi.org/10.1186/s13054-023-04446-1>.
47. Nakamura K, Nakano H, Ikechi D, Mochizuki M, Takahashi Y, Koyama Y, et al. The Vasopressin Loading for Refractory septic shock (VALOR) study: a prospective observational study. *Crit Care.* 2023;27:294. <https://doi.org/10.1186/s13054-023-04583-7>.
48. Ibarra-Estrada M, Kattan E, Aguilera-González P, Sandoval-Plascencia L, Rico-Jauregui U, Gómez-Partida CA, et al. Early adjunctive methylene blue in patients with septic shock: a randomized controlled trial. *Crit Care.* 2023;27:110. <https://doi.org/10.1186/s13054-023-04397-7>.
49. Pruna A, Bonaccorso A, Belletti A, Turi S, Di Prima AL, D'amico F, et al. Methylene Blue Reduces Mortality in Critically Ill and Perioperative Patients: A Meta-Analysis of Randomized Trials. *J Cardiothorac Vasc Anesth.* 2023. <https://doi.org/10.1053/j.jvca.2023.09.037>.
50. Brokmeier HM, Seelhammer TG, Nei SD, Gerber DJ, Mara KC, Wittwer ED, et al. Hydroxocobalamin for Vasodilatory Hypotension in Shock: A Systematic Review With Meta-Analysis for Comparison to Methylene Blue. *J Cardiothorac Vasc Anesth.* 2023;37:1757-72. <https://doi.org/10.1053/j.jvca.2023.04.006>.
51. Williams Roberson S, Nwosu S, Collar EM, Kiehl AL, Harrison FE, Bastarache J, et al. Association of Vitamin C, Thiamine, and Hydrocortisone Infusion With Long-term Cognitive, Psychological, and Functional Outcomes in Sepsis Survivors. *JAMA Netw Open.* 2023;6:e230380. <https://doi.org/10.1001/jamanetworkopen.2023.0380>.
52. Liang B, Su J, Shao H, Chen H, Xie B. The outcome of IV vitamin C therapy in patients with sepsis or septic shock: a meta-analysis of randomized controlled trials. *Crit Care.* 2023;27:109. <https://doi.org/10.1186/s13054-023-04392-y>.
53. Angriman F, Muttalib F, Lamontagne F, Adhikari NKJ, LOVIT Investigators. IV Vitamin C in Adults With Sepsis: A Bayesian Reanalysis of a Randomized Controlled Trial. *Crit Care Med.* 2023 Aug 1;51(8):e152-e156. doi: 10.1097/CCM.0000000000005871. Epub 2023 Apr 7. PMID: 37026849.
54. Pirracchio R, Annane D, Waschka AK, Lamontagne F, Arabi YM, Bollaert P-E, et al. Patient-Level Meta-Analysis of Low-Dose Hydrocortisone in Adults with Septic Shock. *NEJM Evid.* 2023;2. <https://doi.org/10.1056/EVIDoa2300034>.
55. Bosch NA, Teja B, Law AC, Pang B, Jafarzadeh SR, Walkey AJ. Comparative Effectiveness of Fludrocortisone and Hydrocortisone vs Hydrocortisone Alone Among Patients With Septic Shock. *JAMA Intern Med.* 2023;183:451. <https://doi.org/10.1001/jamainternmed.2023.0258>.
56. Hamed M, Elseidy SA, Elkheshen A, Maher J, Elmoghrabi A, Zaghloul A, et al. The Use of Midodrine as an Adjunctive Therapy to Liberate Patients from Intravenous Vasopressors: A Systematic Review and Meta-analysis of Randomized Controlled Studies. *Cardiol Ther.* 2023;12:185-95. <https://doi.org/10.1007/s40119-023-00301-0>.
57. Bollaert P-E, Monnier A, Schneider F, Argaud L, Badie J, Charpentier C, et al. Fluid balance control in critically ill patients: results from POINCARE-2 stepped wedge cluster-randomized trial. *Crit Care.* 2023;27:66. <https://doi.org/10.1186/s13054-023-04357-1>.
58. Messmer AS, Dill T, Müller M, Pfortmueller CA. Active fluid de-resuscitation in critically ill patients with septic shock: A systematic review and meta-analysis. *Eur J Intern Med.* 2023;109:89-96. <https://doi.org/10.1016/j.iejim.2023.01.009>.
59. Raasveld SJ, de Bruin S, Reuland MC, van den Oord C, Schenk J, Aubron C, et al. Red Blood Cell Transfusion in the Intensive Care Unit. *JAMA.* 2023;330:1852. <https://doi.org/10.1001/jama.2023.20737>.
60. Morris FJD, Fung Y-L, Craswell A, Chew MS. Outcomes following perioperative red blood cell transfusion in patients undergoing elective major abdominal surgery: a systematic review and meta-analysis. *Br J Anaesth.* 2023;131:1002-13. <https://doi.org/10.1016/j.bja.2023.08.032>.
61. Hayakawa M, Tagami T, Kudo D, Ono K, Aoki M, Endo A, et al. The Restrictive Red Blood Cell Transfusion Strategy for Critically Injured Patients (RESTRIC) trial: a cluster-randomized, crossover, non-inferiority multicenter trial of restrictive transfusion in trauma. *J Intensive Care.* 2023;11:34. <https://doi.org/10.1186/s40560-023-00682-3>.
62. Montgomery EY, Barrie U, Kenfack YJ, Edukugho D, Caruso JP, Rail B, et al. Transfusion Guidelines in Traumatic Brain Injury: A Systematic Review and Meta-Analysis of the Currently Available Evidence. *Neurotrauma Reports.* 2023;3:554-68. <https://doi.org/10.1089/neur.2022.0056>.
63. Torres CM, Kent A, Scantling D, Joseph B, Haut ER, Sakran JV. Association of Whole Blood With Survival Among Patients Presenting With Severe Hemorrhage in US and Canadian Adult Civilian Trauma Centers. *JAMA Surg.* 2023;158:532. <https://doi.org/10.1001/jamasurg.2022.6978>.
64. Sperry JL, Cotton BA, Luther JF, Cannon JW, Schreiber MA, Moore EE, et al. Whole Blood Resuscitation and Association with Survival in Injured Patients with an Elevated Probability of Mortality. *J Am Coll Surg.* 2023;237:206-19. <https://doi.org/10.1097/XCS.0000000000000708>.
65. Russotto V, Tassistro E, Myatra SN, Parotto M, Antolini L, Bauer P, et al. Peri-intubation Cardiovascular Collapse in Patients Who Are Critically Ill: Insights from the INTUBE Study. *Am J Respir Crit Care Med.* 2022;206:449-58. <https://doi.org/10.1164/rccm.202111-2575OC>.
66. Smischney NJ, Stollenberg AD, Schroeder DR, DeAngelis JL, Kaufman DA. Noninvasive Cardiac Output Monitoring (NICOM) in the Critically Ill Patient Undergoing Endotracheal Intubation: A Prospective Observational Study. *J Intensive Care Med.* 2023;38:1108-20. <https://doi.org/10.1177/08850666231183401>.
67. Knack SKS, Prekker ME, Moore JC, Klein LR, Atkins AH, Miner JR, et al. The Effect of Ketamine Versus Etomidate for Rapid Sequence Intubation on Maximum Sequential Organ Failure Assessment Score: A Randomized Clinical Trial. *J Emerg Med.* 2023;65:e371-82. <https://doi.org/10.1016/j.jemermed.2023.06.009>.
68. Kotani Y, Piersanti G, Maiucci G, Fresilli S, Turi S, Montanaro G, et al. Etomidate as an induction agent for endotracheal intubation in critically ill patients: A meta-analysis of randomized trials. *J Crit Care.* 2023;77:154317. <https://doi.org/10.1016/j.jcrc.2023.154317>.
69. Fuchita M, Pattee J, Russell DW, Driver BE, Prekker ME, Barnes CR, et al. Prophylactic Administration of Vasopressors Prior to Emergency Intubation in Critically Ill Patients: A Secondary Analysis of Two Multicenter Clinical Trials. *Crit Care Explor.* 2023;5:e0946. <https://doi.org/10.1097/CCE.0000000000000946>.
70. Hu H, Huang H, Li M, Gao X, Yin L, Qi R, et al. A wearable cardiac ultrasound imager. *Nature.* 2023;613:667-75. <https://doi.org/10.1038/s41586-022-05498-z>.
71. Jin H, Zheng Z, Cui Z, Jiang Y, Chen G, Li W, et al. A flexible optoacoustic blood 'stethoscope' for noninvasive multiparametric cardiovascular monitoring. *Nat Commun.* 2023;14. <https://doi.org/10.1038/s41467-023-40181-5>.