

Department of Critical Care Medicine research publications

July 1 2023 – June 30, 2024

Publications with department member as first author: 34

Publications with trainee as first author: 3

Publications in high impact journals: 68

1. Grasselli G, Calfee CS, Camporota L, Poole D, Amato MBP, Antonelli M, Arabi YM, Baroncelli F, Beitler JR, Bellani G, Bellingan G, Blackwood B, Bos LDJ, Brochard L, Brodie D, Burns KEA, Combes A, D'Arrigo S, De Backer D, Demoule A, Einav S, Fan E, Ferguson ND, Frat JP, Gattinoni L, Guérin C, Herridge MS, Hodgson C, Hough CL, Jaber S, Juffermans NP, Karagiannidis C, Kesecioglu J, Kwizera A, Laffey JG, Mancebo J, Matthay MA, McAuley DF, Mercat A, Meyer NJ, Moss M, Munshi L, Myatra SN, Ng Gong M, Papazian L, Patel BK, Pellegrini M, Perner A, Pesenti A, Piquilloud L, Qiu H, Ranieri MV, Riviello E, Slutsky AS, Stapleton RD, Summers C, Thompson TB, Valente Barbas CS, Villar J, Ware LB, Weiss B, **Zampieri FG**, Azoulay E, Cecconi M; European Society of Intensive Care Medicine Taskforce on ARDS. ESICM guidelines on acute respiratory distress syndrome: definition, phenotyping and respiratory support strategies. *Intensive Care Med.* 2023 Jul;49(7):727-759. doi: 10.1007/s00134-023-07050-7. Epub 2023 Jun 16. PMID: 37326646; PMCID: PMC10354163.
2. Eastwood G, Nichol AD, Hodgson C, Parke RL, McGuinness S, Nielsen N, Bernard S, Skrifvars MB, Stub D, Taccone FS, Archer J, **Kutsogiannis D**, Dankiewicz J, Lilja G, Cronberg T, Kirkegaard H, Capellier G, Landoni G, Horn J, Olasveengen T, Arabi Y, Chia YW, Markota A, Hænggi M, Wise MP, Grejs AM, Christensen S, Munk-Andersen H, Granfeldt A, Andersen GØ, Qvigstad E, Flaa A, Thomas M, Sweet K, Bewley J, Bäcklund M, Tiainen M, Iten M, Levis A, Peck L, Walsham J, Deane A, Ghosh A, Annoni F, Chen Y, Knight D, Lesona E, Tlayjeh H, Svenšek F, McGuigan PJ, Cole J, Pogson D, Hilty MP, Düring JP, Bailey MJ, Paul E, Ady B, Ainscough K, Hunt A, Monahan S, Trapani T, Fahey C, Bellomo R; TAME Study Investigators. Mild Hypercapnia or Normocapnia after Out-of-Hospital Cardiac Arrest. *N Engl J Med.* 2023 Jul 6;389(1):45-57. doi: 10.1056/NEJMoa2214552. Epub 2023 Jun 15. PMID: 37318140.
3. Nichol A, Bellomo R, Ady B, Nielsen N, Hodgson C, Parke R, McGuinness S, Skrifvars M, Stub D, Bernard S, Taccone F, Archer J, Neto AS, Trapani T, Ainscough K, Hunt A, **Kutsogiannis J**, Eastwood GM. Protocol summary and statistical analysis plan for the Targeted Therapeutic Mild Hypercapnia after Resuscitated Cardiac Arrest (TAME) trial. *Crit Care Resusc.* 2023 Oct 18;23(4):374-385. doi: 10.51893/2021.4.OA2. PMID: 38046686; PMCID: PMC10692552.
4. Stanski NL, Rodrigues CE, Strader M, Murray PT, Endre ZH, **Bagshaw SM**. Precision management of acute kidney injury in the intensive care unit: current state of the art. *Intensive Care Med.* 2023 Sep;49(9):1049-1061. doi: 10.1007/s00134-023-07171-z. Epub 2023 Aug 8. PMID: 37552332.
5. Guidet B, Vallet H, Flaatten H, Joynt G, **Bagshaw SM**, Leaver SK, Beil M, Du B, Forte DN, Angus DC, Svirni S, de Lange D, Herridge MS, Jung C. The trajectory of very old critically ill

patients. *Intensive Care Med.* 2024 Feb;50(2):181-194. doi: 10.1007/s00134-023-07298-z. Epub 2024 Jan 18. PMID: 38236292.

6. Kadosh BS, Berg DD, Bohula EA, Park JG, Baird-Zars VM, Alviar C, Alzate J, Barnett CF, Barsness GW, Burke J, Chaudhry SP, Daniels LB, DeFilippis A, Delicce A, Fordyce CB, Ghafghazi S, Gidwani U, Goldfarb M, Katz JN, Keeley EC, Kenigsberg B, Kontos MC, Lawler PR, Leibner E, Menon V, Metkus TS, Miller PE, O'Brien CG, Papolos AI, Prasad R, Shah KS, Sinha SS, Snell RJ, So D, Solomon MA, Ternus BW, Teuteberg JJ, Toole J, **van Diepen S**, Morrow DA, Roswell RO. Pulmonary Artery Catheter Use and Mortality in the Cardiac Intensive Care Unit. *JACC Heart Fail.* 2023 Aug;11(8 Pt 1):903-914. doi: 10.1016/j.jchf.2023.04.007. Epub 2023 Jun 14. PMID: 37318422; PMCID: PMC10527413.
7. Wang K, Khoramjoo M, Srinivasan K, Gordon PMK, Mandal R, Jackson D, **Sligl W**, Grant MB, Penninger JM, Borchers CH, Wishart DS, Prasad V, Oudit GY. Sequential multi-omics analysis identifies clinical phenotypes and predictive biomarkers for long COVID. *Cell Rep Med.* 2023 Nov 21;4(11):101254. doi: 10.1016/j.xcrm.2023.101254. Epub 2023 Oct 26. PMID: 37890487; PMCID: PMC10694626.
8. Arabi YM, Belley-Cote E, Carsetti A, De Backer D, Donadello K, Juffermans NP, Hammond N, Laake JH, Liu D, Maitland K, Messina A, Møller MH, Poole D, Mac Sweeney R, Vincent JL, **Zampieri FG**, AlShamsi F; European Society of Intensive Care Medicine. European Society of Intensive Care Medicine clinical practice guideline on fluid therapy in adult critically ill patients. Part 1: the choice of resuscitation fluids. *Intensive Care Med.* 2024 Jun;50(6):813-831. doi: 10.1007/s00134-024-07369-9. Epub 2024 May 21. PMID: 38771364.
9. Cook D, Deane A, Lauzier F, Zytaruk N, Guyatt G, Saunders L, Hardie M, Heels- Ansdell D, Alhazzani W, Marshall J, Muscedere J, Myburgh J, English S, Arabi YM, Ostermann M, Knowles S, Hammond N, Byrne KM, Chapman M, Venkatesh B, Young P, Rajbhandari D, Poole A, Al-Fares A, Reis G, Johnson D, Iqbal M, Hall R, Meade M, Hand L, Duan E, Clarke F, Dionne JC, Tsang JLY, Rochwerg B, Karachi T, Lamontagne F, D'Aragon F, St Arnaud C, Reeve B, Geagea A, Niven D, Vazquez-Grande G, Zarychanski R, Ovakim D, Wood G, Burns KEA, Goffi A, **Wilcox ME**, Henderson W, Forrest D, Fowler R, Adhikari NKJ, Ball I, Mele T, Binnie A, Trop S, Mehta S, Morgan I, Loubani O, Vanstone M, Fiest K, Charbonney E, Cavayas YA, Archambault P, **Rewa OG**, **Lau V**, Kristof AS, Khwaja K, Williamson D, Kanji S, Sy E, Dennis B, Reynolds S, Marquis F, Lellouche F, Rahman A, Hosek P, Barletta JF, Cirrone R, Tutschka M, Xie F, Billot L, Thabane L, Finfer S; REVISE Investigators. Stress Ulcer Prophylaxis during Invasive Mechanical Ventilation. *N Engl J Med.* 2024 Jul 4;391(1):9-20. doi: 10.1056/NEJMoa2404245. Epub 2024 Jun14. PMID: 38875111.
10. Wald R, Gaudry S, da Costa BR, Adhikari NKJ, Bellomo R, Du B, Gallagher MP, Hoste EA, Lamontagne F, Joannidis M, Liu KD, McAuley DF, McGuinness SP, Nichol AD, Ostermann M, Palevsky PM, Qiu H, Pettilä V, Schneider AG, Smith OM, Vaara ST, Weir M, Dreyfuss D, **Bagshaw SM**; STARRT-AKI Investigators. Initiation of continuous renal replacement therapy versus intermittent hemodialysis in critically ill patients with severe acute kidney injury: a secondary analysis of STARRT-AKI trial. *Intensive Care Med.* 2023 Nov;49(11):1305-1316. doi: 10.1007/s00134-023-07211-8. Epub 2023 Oct 10. PMID: 37815560.

11. Hernaez R, **Karvellas CJ**, Liu Y, Sacleux SC, Khemichian S, Stein LL, Shetty K, Lindenmeyer CC, Boike JR, Simonetto DA, Rahimi RS, Jalal PK, Izzy M, Kriss MS, Im GY, Lin MV, Jou JH, Fortune BE, Cholanteril G, Kuo A, Mahmud N, Kanwal F, Saliba F, Sundaram V, Artzner T, Jalan R; Multi-Organ Dysfunction and Evaluation for Liver Transplantation (MODEL) Consortium. The novel SALT-M score predicts 1-year post-transplant mortality in patients with severe acute-on-chronic liver failure. *J Hepatol*. 2023 Sep;79(3):717-727. doi: 10.1016/j.jhep.2023.05.028. Epub 2023 Jun 12. PMID: 37315809.
12. Waksman R, Pahuja M, **van Diepen S**, Proudfoot AG, Morrow D, Spitzer E, Nichol G, Weisfeldt ML, Moscucci M, Lawler PR, Mebazaa A, Fan E, Dickert NW, Samsky M, Kormos R, Piña IL, Zuckerman B, Farb A, Sapirstein JS, Simonton C, West NEJ, Damluji AA, Gilchrist IC, Zeymer U, Thiele H, Cutlip DE, Krucoff M, Abraham WT. Standardized Definitions for Cardiogenic Shock Research and Mechanical Circulatory Support Devices: Scientific Expert Panel From the Shock Academic Research Consortium (SHARC). *Circulation*. 2023 Oct 3;148(14):1113-1126. doi: 10.1161/CIRCULATIONAHA.123.064527. Epub 2023 Oct 2. PMID: 37782695; PMCID: PMC11025346.
13. Zarbock A, Forni LG, Ostermann M, Ronco C, **Bagshaw SM**, Mehta RL, Bellomo R, Kellum JA. Designing acute kidney injury clinical trials. *Nat Rev Nephrol*. 2024 Feb;20(2):137-146. doi: 10.1038/s41581-023-00758-1. Epub 2023 Aug 31. PMID: 37653237.
14. **Zampieri FG**, Cavalcanti AB, Di Tanna GL, Damiani LP, Hammond NE, Machado FR, Micallef S, Myburgh J, Ramanan M, Venkatesh B, Rice TW, Semler MW, Young PJ, Finfer S. Balanced crystalloids versus saline for critically ill patients (BEST- Living): a systematic review and individual patient data meta-analysis. *Lancet Respir Med*. 2024 Mar;12(3):237-246. doi: 10.1016/S2213-2600(23)00417-4. Epub 2023 Nov 30. PMID: 38043564.
15. Citarella BW, Kartsonaki C, Ibáñez-Prada ED, Gonçalves BP, Baruch J, Escher M, Pritchard MG, Wei J, Philippy F, Dagens A, Hall M, Lee J, **Kutsogiannis DJ**, Wils EJ, Fernandes MA, Tirupakuzhi Vijayaraghavan BK, Panda PK, Martin-Loeches I, Ohshimo S, Fatoni AZ, Horby P, Dunning J, Rello J, Merson L, Rojek A, Vaillant M, Oliaro P, Reyes LF; ISARIC Clinical Characterisation Group. Characteristics and outcomes of COVID-19 patients admitted to hospital with and without respiratory symptoms. *Heliyon*. 2024 May 4;10(10):e29591. doi: 10.1016/j.heliyon.2024.e29591. PMID: 38779000; PMCID: PMC11109728.
16. Duarte T, *Fidalgo P, **Karvellas CJ**, Cardoso FS. What every Intensivist should know about ... Ammonia in liver failure. *J Crit Care*. 2024 Jun;81:154456. doi: 10.1016/j.jcrc.2023.154456. Epub 2023 Nov 7. PMID: 37945461.
17. Bowker SL, Williams K, Volk A, Auger L, Lafontaine A, Dumont P, Wingert A, Davis A, Bialy L, Wright E, Oster RT, **Bagshaw SM**. Incidence and outcomes of critical illness in indigenous peoples: a systematic review and meta-analysis. *Crit Care*. 2023 Jul 13;27(1):285. doi: 10.1186/s13054-023-04570-y. PMID: 37443118; PMCID: PMC10339531.

18. Berg DD, Kaur G, Bohula EA, Baird-Zars VM, Alviar CL, Barnett CF, Barsness GW, Burke JA, Chaudhry SP, Chonde M, Cooper HA, Daniels LB, Dodson MW, Gerber DA, Ghafghazi S, Gidwani UK, Goldfarb MJ, Guo J, Hillerson D, Kenigsberg BB, Kochar A, Kontos MC, Kwon Y, Lopes MS, Loriaux DB, Miller PE, O'Brien CG, Papolos AI, Patel SM, Pisani BA, Potter BJ, Prasad R, Rowsell RO, Shah KS, Sinha SS, Smith TD, Solomon MA, Teuteberg JJ, Thompson AD, Zakaria S, Katz JN, **van Diepen S**, Morrow DA. Prognostic significance of haemodynamic parameters in patients with cardiogenic shock. *Eur Heart J Acute Cardiovasc Care*. 2023 Oct 25;12(10):651-660. doi: 10.1093/ehjacc/zuad095. Erratum in: *Eur Heart J Acute Cardiovasc Care*. 2024 Mar 26:zuae035. doi: 10.1093/ehjacc/zuae035. PMID: 37640029; PMCID: PMC10599641.
19. **Karvellas CJ**, Bajaj JS, Kamath PS, Napolitano L, O'Leary JG, Solà E, Subramanian R, Wong F, Asrani SK. AASLD Practice Guidance on Acute-on-chronic liver failure and the management of critically ill patients with cirrhosis. *Hepatology*. 2024 Jun 1;79(6):1463-1502. doi: 10.1097/HEP.0000000000000671. Epub 2023 Nov 9. PMID: 37939273.
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22. Kashani KB, Awdishu L, **Bagshaw SM**, Barreto EF, Claure-Del Granado R, Evans BJ, Forni LG, Ghosh E, Goldstein SL, Kane-Gill SL, Koola J, Koyner JL, Liu M, Murugan R, Nadkarni GN, Neyra JA, Ninan J, Ostermann M, Pannu N, Rashidi P, Ronco C, Rosner MH, Selby NM, Shickel B, Singh K, Soranno DE, Sutherland SM, Bihorac A, Mehta RL. Digital health and acute kidney injury: consensus report of the 27th Acute Disease Quality Initiative workgroup. *Nat Rev Nephrol*. 2023 Dec;19(12):807-818. doi: 10.1038/s41581-023-00744-7. Epub 2023 Aug 14. PMID:37580570.
23. Bowman EML, Brummel NE, Caplan GA, Cunningham C, Evered LA, Fiest KM, Girard TD, Jackson TA, LaHue SC, Lindroth HL, MacLulich AMJ, McAuley DF, Oh ES, Oldham MA, Page VJ, Pandharipande PP, Potter KM, Sinha P, Slooter AJC, Sweeney AM, Tiegues Z, Van Dellen E, **Wilcox ME**, Zetterberg H, Cunningham EL. Advancing specificity in delirium: The delirium subtyping initiative. *Alzheimers Dement*. 2024 Jan;20(1):183-194. doi: 10.1002/alz.13419. Epub 2023 Jul 31. PMID: 37522255; PMCID: PMC10917010.
24. Koziol KJ, Isath A, Rao S, Gregory V, Ohira S, **Van Diepen S**, Lorusso R, Krittanawong C. Extracorporeal Membrane Oxygenation (VA-ECMO) in Management of Cardiogenic Shock. *J Clin Med*. 2023 Aug 26;12(17):5576. doi: 10.3390/jcm12175576. PMID: 37685643; PMCID: PMC10488419.

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29. Moss SJ, Stelfox M, McArthur E, Sriskandarajah C, Ahmed SB, Birnie K, Halperin DM, Halperin SA, Harley M, Hu J, Kamstra JN, Leppan L, Nickel A, Racine N, Russell K, Smith S, Solis M, Tutelman PR, **Stelfox HT**, Fiest KM, Parsons Leigh J. Social factors associated with self-reported changes in mental health symptoms among youth in the COVID-19 pandemic: a cross-sectional survey. *BMC Public Health*. 2024 Feb 28;24(1):631. doi: 10.1186/s12889-024-18087-8. PMID: 38413913; PMCID: PMC10900679.
30. Formica F, Galligani A, Tuttolomondo D, Hernandez-Vaquero D, **Singh G**, Pattuzzi C, Maestri F, Niccoli G, Ceccato E, Lorusso R, Nicolini F. Long-Term Outcomes Comparison Between Surgical and Percutaneous Coronary Revascularization in Patients With Multivessel Coronary Disease or Left Main Disease: A Systematic Review and Study Level Meta-Analysis of Randomized Trials. *Curr Probl Cardiol*. 2023 Jul;48(7):101699. doi: 10.1016/j.cpcardiol.2023.101699. Epub 2023 Mar 14. PMID: 36921648.
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33. **Zampieri FG**, Machado FR, Veiga VC, Azevedo LCP, **Bagshaw SM**, Damiani LP, Cavalcanti AB. Determinants of fluid use and the association between volume of fluid used and effect of balanced solutions on mortality in critically ill patients: a secondary analysis of the BaSICS trial. *Intensive Care Med.* 2024 Jan;50(1):79-89. doi: 10.1007/s00134-023-07264-9. Epub 2023 Nov 27. Erratum in: *Intensive Care Med.* 2024 Jan;50(1):157. doi: 10.1007/s00134-023-07299-y. PMID:38010383.
34. **Rewa OG**. Physical Therapy in the ICU-Is It Time to Consider Individualized Therapy Plans? *Crit Care Med.* 2023 Oct 1;51(10):1445-1447. doi: 10.1097/CCM.0000000000005966. Epub 2023 Sep 14. PMID: 37707385.
35. ***Perry H, *Alight A, Wilcox ME**. Light, sleep and circadian rhythm in critical illness. *Curr Opin Crit Care.* 2024 Aug 1;30(4):283-289. doi: 10.1097/MCC.0000000000001163. Epub 2024 May 28. PMID: 38841914.
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38. Ankawi G, **Bagshaw SM**, Bellomo R, Baldwin I, Basu R, Bottari G, Cantaluppi V, Clark W, De Rosa S, Forni LG, Fuhrman D, Goldstein S, Gomez H, Husain-Syed F, Joannidis M, Kashani K, Lorenzin A, Mehta R, Murray PT, Murugan R, Ostermann M, Pannu N, Premuzic V, Prowle J, Reis T, Rimmelé T, Ronco C, Rosner M, Schneider A, See E, Soranno D, Villa G, Whaley-Connell A, Zarbock A. Hemoadsorption: Consensus report of the 30th Acute Disease Quality Initiative workgroup. *Nephrol Dial Transplant.* 2024 Apr 15:gfae089. doi: 10.1093/ndt/gfae089. Epub ahead of print. PMID: 38621759.
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