

August 2023 Literature Review Series References

Special Guests: Katie Rogers, PharmD

Eric Johnston, PharmD

Featured Articles

Rech MA, Gilbert BW, Nei S, et al. The clot thickens: How to use viscoelastic testing in critical illness. *J Am Coll Clin Pharm*. 2023;6:954-963.

<https://accpjournals.onlinelibrary.wiley.com/doi/10.1002/jac5.1829>

Hong LT, Downes KJ, FakhriRavari A, et al. International consensus recommendations for the use of prolonged-infusion beta-lactam antibiotics: Endorsed by the American College of Clinical Pharmacy, British Society for Antimicrobial Chemotherapy, Cystic Fibrosis Foundation, European Society of Clinical Microbiology and Infectious Diseases, Infectious Diseases Society of America, Society of Critical Care Medicine, and Society of Infectious Diseases Pharmacists. *Pharmacotherapy*. 2023 Aug;43(8):740-777. <https://pubmed.ncbi.nlm.nih.gov/37615245/>

Ausman SE, Moreland-Head LN, Abu Saleh OM, et al. “How to” guide for pharmacist-led implementation of beta-lactam therapeutic drug monitoring in the critically ill. *J Am Coll Clin Pharm*. 2023; 6:964-975. <https://accpjournals.onlinelibrary.wiley.com/doi/10.1002/jac5.1819>

Bala F, Singh N, Buck B, et al. Safety and Efficacy of Tenecteplase Compared With Alteplase in Patients With Large Vessel Occlusion Stroke: A Prespecified Secondary Analysis of the ACT Randomized Clinical Trial. *JAMA Neurol*. 2023 Aug 1;80(8):824-832.

<https://pubmed.ncbi.nlm.nih.gov/37428494/>

Neilan TG, Quinaglia T, Onoue T, et al. Atorvastatin for Anthracycline-Associated Cardiac Dysfunction: The STOP-CA Randomized Clinical Trial. *JAMA*. 2023 Aug 8;330(6):528-536.

<https://pubmed.ncbi.nlm.nih.gov/37552303/>

DEVICE Investigators and the Pragmatic Critical Care Research Group. Video versus Direct Laryngoscopy for Tracheal Intubation of Critically Ill Adults. *N Engl J Med*. 2023 Aug 3;389(5):418-429. <https://pubmed.ncbi.nlm.nih.gov/37326325/>

Sepsis

Monnet X, Lai C, Ospina-Tascon G, De Backer D. Evidence for a personalized early start of norepinephrine in septic shock. *Crit Care*. 2023 Aug 22;27(1):322.

<https://pubmed.ncbi.nlm.nih.gov/37608327/>

Kulesza S, Gignac L, Colvin CA, Boll S, Giuliano C, Haan B, Allen B, Perez MM, Allen M, Edwin SB. Hydrocortisone versus vasopressin for the management of adult patients with septic shock refractory to norepinephrine: A multicenter retrospective study. *Pharmacotherapy*. 2023 Aug;43(8):787-794. <https://pubmed.ncbi.nlm.nih.gov/37148191/>

Dugar S, Siuba MT, Sacha GL, et al. Echocardiographic profiles and hemodynamic response after vasopressin initiation in septic shock: A cross-sectional study. *J Crit Care*. 2023 Aug;76:154298. <https://pubmed.ncbi.nlm.nih.gov/37030157/>

Potpourri

Ishigami J, Charleston J, Miller ER 3rd, et al. Effects of Cuff Size on the Accuracy of Blood Pressure Readings: The Cuff(SZ) Randomized Crossover Trial. *JAMA Intern Med*. 2023 Oct 1;183(10):1061-1068. <https://pubmed.ncbi.nlm.nih.gov/37548984/>

Berdahl GJ, Cascone AE, Ackerbauer KA, Feeney ME. Reduction in thrombolytic order-to-needle time with addition of a pharmacist to a pulmonary embolism response team. *J Am Coll Clin Pharm*. 2023;6:864-869.

<https://accpjournals.onlinelibrary.wiley.com/doi/10.1002/jac5.1783>

Ketcham SW, Konerman MC, Marshall VD, Adie SK. Impact of Delirium Among Patients Receiving Temporary Mechanical Circulatory Support. *Chest*. 2023 Aug;164(2):414-417.

<https://pubmed.ncbi.nlm.nih.gov/37054774/>

Ortoleva J, Shapeton AD. Seeing Red: Hydroxocobalamin and Result Interference. *J Cardiothorac Vasc Anesth*. 2023 Aug;37(8):1339-1342.

<https://pubmed.ncbi.nlm.nih.gov/37120323/>

Infectious Diseases

Gatti M, Rinaldi M, Gaibani P, et al. A descriptive pharmacokinetic/pharmacodynamic analysis of continuous infusion ceftazidime-avibactam for treating DTR gram-negative infections in a case series of critically ill patients undergoing continuous veno-venous haemodiafiltration (CVVHDF). *J Crit Care*. 2023 Aug;76:154301. <https://pubmed.ncbi.nlm.nih.gov/37059003/>

Almangour TA, Ghonem L, Alassiri D, et al. Ceftolozane-Tazobactam Versus Ceftazidime-Avibactam for the Treatment of Infections Caused by Multidrug-Resistant *Pseudomonas aeruginosa*: a Multicenter Cohort Study. *Antimicrob Agents Chemother*. 2023 Aug 17;67(8):e0040523. <https://pubmed.ncbi.nlm.nih.gov/37404159/>

Su C, Belmont A, Liao J, et al. Evaluating the PEN-FAST Clinical Decision-making Tool to Enhance Penicillin Allergy Delabeling. *JAMA Intern Med*. 2023 Aug 1;183(8):883-885. <https://pubmed.ncbi.nlm.nih.gov/37338869/>

Pharmacist-Featured Articles

Droege ME, Cunningham M, Droege CA, et al. Medication use optimization in critical care through a pharmacy morbidity, mortality, and improvement program. *J Am Coll Clin Pharm*. 2023;6:870-879. <https://accpjournals.onlinelibrary.wiley.com/doi/10.1002/jac5.1830>

Fernando SM, Mathew R, Sadeghirad B, et al. Epinephrine in Out-of-Hospital Cardiac Arrest: A Network Meta-analysis and Subgroup Analyses of Shockable and Nonshockable Rhythms. *Chest*. 2023 Aug;164(2):381-393. <https://pubmed.ncbi.nlm.nih.gov/36736487/>

Engstrom K, Brown CS, Mattson AE, et al. Pharmacotherapy optimization for rapid sequence intubation in the emergency department. *Am J Emerg Med*. 2023 Aug;70:19-29. <https://pubmed.ncbi.nlm.nih.gov/37196592/>

Buckley MS, Acquisto NM, Adams C, et al. Critical care pharmacy practice advancement recommendations on direct patient care activities: An opinion of the American College of Clinical Pharmacy Critical Care Practice and Research Network. *J Am Coll Clin Pharm*. 2023;6:925-933. <https://accpjournals.onlinelibrary.wiley.com/doi/epdf/10.1002/jac5.1816>

Grab Bag

Salwi S. Between "Nonsurvivable" and "Brain Death". *JAMA Neurol.* 2023 Aug 1;80(8):773-774. <https://pubmed.ncbi.nlm.nih.gov/37252709/>

Chhetri CD. Stuck in an Avalanche-A Graphic Story. *JAMA.* 2023 Sep 26;330(12):1117-1119. <https://pubmed.ncbi.nlm.nih.gov/37639240/>

Other Articles/Guidelines Referenced

Acar Z, Kale A, Turgut M, et al. Efficiency of atorvastatin in the protection of anthracycline-induced cardiomyopathy. *J Am Coll Cardiol.* 2011 Aug 23;58(9):988-9. <https://pubmed.ncbi.nlm.nih.gov/21851890/>

Hundley WG, D'Agostino R Jr, Crotts T, Craver K, Hackney MH, Jordan JH, Ky B, Wagner LI, Herrington DM, Yeboah J, Reding KW, Ladd AC, Rapp SR, Russo S, O'Connell N, Weaver KE, Dressler EV, Ge Y, Melin SA, Gudena V, Lesser GJ. Statins and Left Ventricular Ejection Fraction Following Doxorubicin Treatment. *NEJM Evid.* 2022 Sep;1(9):10.1056/evidoa2200097. <https://pubmed.ncbi.nlm.nih.gov/36908314/>

Teixeira MT, Radosevich MA, Wanta BT, Wittwer ED. Video Versus Direct Laryngoscopy for Tracheal Intubation of Adults Who Are Critically Ill: What Does the DEVICE Trial Mean for Anesthesiologists? *J Cardiothorac Vasc Anesth.* 2023 Nov;37(11):2184-2187. <https://pubmed.ncbi.nlm.nih.gov/37586952/>