

Diabetic Ketoacidosis References

Special Guest: Janice Tsui, PharmD, BCCCP, MS

Guidelines

Joint British Diabetes Societies for Inpatient Care

The Management of Diabetic Ketoacidosis in Adults

https://abcd.care/sites/abcd.care/files/site_uploads/JBDS_Guidelines_Current/JBDS_02_DKA_Guideline_with_QR_code_March_2023.pdf

ADA Guidelines and Consensus Statements

Kitabchi AE, Umpierrez GE, Miles JM, et al. Hyperglycemic crises in adult patients with diabetes. *Diabetes Care*. 2009; 32(7): 1335-1343. <https://pubmed.ncbi.nlm.nih.gov/19564476/>

ElSayed NA, Aleppo G, Aroda VR, et al. 16. Diabetes Care in the Hospital: Standards of Care in Diabetes-2023. *Diabetes Care*. 2023; 46 (Suppl 1): S267-S278.

<https://pubmed.ncbi.nlm.nih.gov/36507644/>

Review Articles

Kamel KS, Halperin ML. Acid-base problems in diabetic ketoacidosis. *N Eng J Med*. 2015; 372(6): 546-554. <https://pubmed.ncbi.nlm.nih.gov/25651248/>

Umpierrez G, Korytkowski M. Diabetic emergencies – ketoacidosis, hyperglycaemic hyperosmolar state and hypoglycaemia. *Nat Rev Endocrinol*. 2016; 12(4): 222-232.

<https://pubmed.ncbi.nlm.nih.gov/26893262/>

Jacobi J. Management of endocrine emergencies in the ICU. *J Pharm Pract*. 2019; 32(3): 314-326. <https://pubmed.ncbi.nlm.nih.gov/30852927/>

Dhatariya KK, Glaser NS, Codner E, et al. Diabetic ketoacidosis. *Nat Rev Dis Primers*. 2020; 6(1): 40. <https://pubmed.ncbi.nlm.nih.gov/32409703/>

Articles Referenced

Self WH, Evans CS, Jenkins CA, et al. Clinical Effects of Balanced Crystalloids vs Saline in Adults With Diabetic Ketoacidosis: A Subgroup Analysis of Cluster Randomized Clinical Trials. *JAMA Netw Open*. 2020; 3(11): e2024596. <https://pubmed.ncbi.nlm.nih.gov/33196806/>

Alghamdi NA, Major P, Chaudhuri D, et al. Saline Compared to Balanced Crystalloid in Patients With Diabetic Ketoacidosis: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. *Crit Care Explor*. 2022; 4(1): e0613. <https://pubmed.ncbi.nlm.nih.gov/35018349/>

Ramanan M, Attokaran A, Murray L, et al. Sodium chloride or Plasmalyte-148 evaluation in severe diabetic ketoacidosis (SCOPE-DKA): a cluster, crossover, randomized, controlled trial. *Intensive Care Med*. 2021; 47(11): 1248-1257. <https://pubmed.ncbi.nlm.nih.gov/34609547/>

Kinney J, Baroi O, Gharibian M. Diabetic Ketoacidosis Updates: Titratable Insulin Infusions and Long-Acting Insulin Early. *Crit Care Res Pract*. 2021; 2021:1601553. doi: 10.1155/2021/1601553. eCollection 2021. <https://pubmed.ncbi.nlm.nih.gov/34956675/>

Haas N, Gianchandani RY, Gunnerson KJ, et al. The Two-Bag Method for Treatment of Diabetic Ketoacidosis in Adults. *J Emerg Med*. 2018; 54(5): 593-599. <https://pubmed.ncbi.nlm.nih.gov/29628184/>

Firestone RL, Parker PL, Pandya KA, et al. Moderate-Intensity Insulin Therapy Is Associated With Reduced Length of Stay in Critically Ill Patients With Diabetic Ketoacidosis and Hyperosmolar Hyperglycemic State. *Crit Care Med*. 2019; 47(5): 700-705. <https://pubmed.ncbi.nlm.nih.gov/30855284/>

Bohach N, Moorman JM, Cunningham B, et al. A Comparison of Variable Versus Fixed Insulin Infusion Rate on Resolution of Diabetic Ketoacidosis. *Am J Ther*. 2023 Mar 3. doi: 10.1097/MJT.0000000000001619. Online ahead of print. <https://pubmed.ncbi.nlm.nih.gov/36867515/>

Chua HR, Schneider A, Bellomo R. Bicarbonate in diabetic ketoacidosis - a systematic review. *Ann Intensive Care*. 2011; 1(1): 23. <https://pubmed.ncbi.nlm.nih.gov/21906367/>

Griffey RT, Schneider RM, Girardi M, et al. The SQuID protocol (subcutaneous insulin in diabetic ketoacidosis): Impacts on ED operational metrics. *Acad Emerg Med*. 2023 Feb 12. doi: 10.1111/acem.14685. Online ahead of print. <https://pubmed.ncbi.nlm.nih.gov/36775281/>

Pratiwi C, Mokoagow MI, Kshanti IAM, et al. The risk factors of inpatient hypoglycemia: A systematic review. *Heliyon*. 2020; 6(5): e03913. <https://pubmed.ncbi.nlm.nih.gov/32420485/>