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From Kitabchi and Wall (19).Both DKA and HHS are characterized by hyperglycemia and absolute or relative insulinopenia. Close follow up is very important, as it has been shown that three-monthly visits to the endocrine clinic will reduce the number of ER admission for DKA (167). Med Clin North Am. 1995;79(1):9-37. [PubMed: 404553]41.Cahill GF Jr. Starvation in man. Also, anti-cancer medications that belong to classes of immune checkpoint inhibitors such as Ipilimumab, Nivolumab, Pembrolizumab, can cause new-onset diabetes mellitus in up to 1% of the patients receiving immune checkpoint inhibitors with about half of these patients presenting with DKA as the initial presentation of diabetes, particularly in those individuals who may have underlying beta-cell autoimmunity (51,52) (53-56). 1971;20(4):228-238. 1989;5(3):247-270. Clinical significance. Failure of adjunctive bicarbonate to improve outcome in severe pediatric diabetic ketoacidosis. [PubMed: 8325282]150.Oh MS, Carroll HJ, Goldstein DA, Fein IA. 1979;28(6):577-584. Identifying this group of patients, who are at a higher risk for poorer prognosis, may be helpful in triaging them, thus further improving the outcome (88). Phosphate therapy in diabetic ketoacidosis. After the initial arterial pH is drawn, venous pH can be used to assess the acid/base status. Insulin pump therapy: a meta-analysis. Increased production of ketone bodies (β-hydroxybutyrate and acetoacetate) leads to ketonemia (39). [PMC free article: PMC7948057] [PubMed: 33688962]176.Danne T, Garg S, Peters AL, Buse JB, Mathieu C, Pettus JH, Alexander CM, Battelino T, Ampudia-Blasco FJ, Bode BW, Cariou B, Close KL, Dandona P, Dutta S, Ferrannini E, Fourlanos S, Grunberger G, Heller SR, Henry RR, Kurian MJ, Kushner JA, Orun T, Parkin CG, Pieber TR, Rodbard HW, Schatz D, Skyler JS, Tamborlane WV, Yokote K, Phillip M. Intern Med. The temporal relationship between endogenously secreted stress hormones and metabolic decompensation in diabetic man. Edge JA, Jakes RW, Roy Y, et al. On the other hand, development of HHS is insidious and may occur over days to weeks (16). Therefore, for the diagnosis of DKA, clinical judgment and consideration of other biochemical data are required to interpret the value of positive nitroprusside reactions in patients on captopril. The resolution of DKA is reached when the blood glucose is < 200 mg/dl, serum bicarbonate is ≥15 mEq/L, pH is >7.30 and anion gap is ≤12 mEq/L (17). [PubMed: 29955867]54.Liu J, Zhou H, Zhang Y, Fang W, Yang Y, Huang Y, Zhang L. 2018;42 Suppl 1:S109-S114. Potassium in severe diabetic ketoacidosis. 1999;27(12):2690-2693. Efficacy of low-dose insulin therapy for severely obtunded patients in diabetic ketoacidosis. 2001;344:264-269. J Gen Intern Med. American Association of Clinical Endocrinologists and American College of Endocrinology Position Statement on the Association of Sglt-2 Inhibitors and Diabetic Ketoacidosis. Hyperglucagonemia in diabetic ketoacidosis. 2020;43(7):e79-e80. [PubMed: 27297738]52.Robert C, Schachter J, Long GV, Arance A, Grob JJ, Mortier L, Daud A, Carlino MS, McNeil C, Lotem M, Larkin J, Lorigan P, Neyns B, Blank CU, Hamid O, Mateus C, Shapira-Frommer R, Kosh M, Zhou H, Ibrahim N, Ebbinghaus S, Ribas A. In addition, in HHS there is a smaller increase in counter regulatory hormones (20,45).Pathogenesis of DKA and HHS: stress, infection, or insufficient insulin. [PubMed: 4631908]82.Alberti KG, Natrass M. Finally, with recent accumulation of knowledge of health hazards related to the COVID-19 pandemic, there is early evidence that COVID-19 infection can trigger DKA in patients with diabetes who otherwise may not have risk factors to develop ketoacidosis (74). Insulin substitution approach should be very conservative as it is expected that insulin resistance will improve with rehydration. Predictors of acute complications in children with type 1 diabetes. COVID-19-positive patients with diabetes outside of the hospital environment should be particularly vigilant in point-of-care monitoring of home blood glucose and/or β-OHB until the resolution of infection. Relationship of blood acetoacetate and β-hydroxybutyrate in diabetes. Conscious level in children with diabetic ketoacidosis is related to severity of acidosis and not to blood glucose concentration. Management of hyperglycemic crises in patients with diabetes. 2004;27(8):1873-1878. Epilepsia. 1993;11(1):77-80. Ann Emerg Med. 1993;75(2):263-268. Hyperglycemia presenting with occipital seizures. HHS is resolved when serum osmolality is < 320 mOsm/kg with a gradual recovery to mental alertness. There are no randomized controlled studies that evaluated safe and effective strategies in the treatment of HHS (121). 1997;20(3):349-354. 1999;13(2):91-97. It is important to point out that the IV use of fast-acting insulin analogs is not recommended for patients with severe DKA or HHS, as there are no studies to support their use. 1979;28(5):517-523. Coagulation abnormalities in diabetic coma before and 24 hours after treatment. Since approval in 2013 of SGLT-2 inhibitors for therapy of T2D, multiple reports emerged demonstrating that the use of these medications can result in "euglycemic" DKA (48,78,95). Mayo Clin Proc. 1973;79:213-219. Cessation of insulin therapy is the major precipitating cause of diabetic ketoacidosis. [PubMed: 29650082]120.Rosenbloom AL. Trends in Diabetic Ketoacidosis Hospitalizations and In-Hospital Mortality - United States, 2000-2014. 2019;42(6):1147-1154. Endocrine practice : official journal of the American College of Endocrinology and the American Association of Clinical Endocrinologists. For complete coverage of all related areas of Endocrinology, please visit our on-line FREE web-text, WWW.ENDOTEXT.ORG.Diabetic ketoacidosis (DKA) and hyperosmolar hyperglycemic state (HHS) represent two extremes in the spectrum of decompensated diabetes. Diabetic ketoacidosis: role of the kidney in the acid-base homeostasis re-evaluated. [PubMed: 9437340]138.Lever E, Jaspán JB. The Journal of clinical investigation. The optimal rate of glucose reduction is between 50-70 mg/hr. Isopropyl alcohol, which is commonly available as rubbing alcohol, can cause considerable ketosis and high serum osmolal gap without metabolic acidosis. Further, in US adults with T1D, HbA1c ≥ 9% was associated with 12-fold higher incidence of DKA (73). The released triglycerides and amino acids from the peripheral tissues become substrates for the production of glucose and ketone bodies by the liver (29). Most of the patients with HHS and an effective serum osmolality of >320 mOsm/kg are obtunded or comatose; on the other hand, the altered mental status rarely exists in patients with serum osmolality of

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