

4th International Conference on

Nephrology & Therapeutics

September 14-16, 2015 Baltimore, USA

Challenges in management of diabetic ketoacidosis in haemodialysis patients, case presentation and review of literature, towards management guidelines

Ayman Aly Seddik, Alaaeldin Mohammed Bashir, Amna Khalifa Alhadary, Fakhryia AlAlway, Hind Hassan Alnour and Mohammed Jaffer Railey
Ain Shams University, UAE

Chronic kidney disease is associated with accumulation of uremic toxins that increases insulin resistance which will lead to blunted ability to suppress hepatic gluconeogenesis and reduce peripheral utilization of insulin. CKD patients fail to increase insulin secretion in response to insulin resistance because of acidosis, 1, 25 vitamin D deficiency, and secondary hyperparathyroidism. Hemodialysis causes further fluctuations in glycemic control due to alterations in insulin secretion, clearance and resistance. DKA is uncommon in hemodialysis patients because of the absence of glycosuria and osmotic diuresis which accounts for most of the fluid and electrolyte losses seen in DKA, anuric patients may be somewhat protected from dehydration and shock, although still subject to hyperkalemia and metabolic acidosis. However substantial volume loss can still occur due to a prolonged decrease in oral intake or increased insensible water losses related to tachypnea and fever there is no current guidelines for the management of diabetic ketoacidosis in anuric haemodialysis patients considering their differences than general population, we review of the literature for management protocols and expertise opinions in view of which we suggest to consider the following recommendations while managing DKA in haemodialysis patients.

Biography

Ayman Aly Seddik was born in 1972. Graduated from Ain Shams University school of medicine 1996 very good with honour, internship and residency programme in Internal medicine and Nephrology 1997-2001 Assistant lecturer and Nephrology specialist in Ain Shams University hospital, Nasser institute for research 2001-2006, after obtaining MD degree in Internal Medicine & Nephrology 2006 Ain Shams University, work as consultant Nephrologist and lecturer Nephrologist in Ain Shams University hospitals, senior specialist Nephrologist King Fahd Armed Force Hospital Jeddah Saudi Arabia 2006-2008, consultant Nephrologist Northern Area Armed Force Hospital 2009-2011, programme director of Internal Medicine residency programme in Northern Area Armed Force Hospital, degree of assistant professor of Internal Medicine and Nephrology Ain Shams University, Cairo, Egypt 2012. Currently working as Nephrologist, Dubai Hospital - Dubai Health Authority 2011-present.

seddik500@hotmail.com

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