



Keywords: Diabetes Mellitus; Hyperglycemia; Metabolic Acidosis; Complications of DKA

Introduction

Diabetes Mellitus (DM) is a chronic metabolic disorder characterized by hyperglycemia. It is classified into Type 1 Diabetes Mellitus (T1DM) and Type 2 Diabetes Mellitus (T2DM). Diabetic Ketoacidosis (DKA) is a life-threatening complication of DM, characterized by hyperglycemia, ketonuria, and metabolic acidosis. The pathogenesis of DKA involves insulin deficiency and increased counterregulatory hormone activity, leading to increased lipolysis and ketogenesis. The resulting ketone bodies and glucose contribute to the osmotic diuresis and dehydration associated with DKA. The clinical presentation of DKA includes polyuria, polydipsia, and weight loss. The diagnosis is based on the presence of hyperglycemia, ketonuria, and metabolic acidosis. The management of DKA involves fluid resuscitation, insulin therapy, and electrolyte replacement. The prognosis is generally good, but complications such as cerebral edema and acute renal failure can occur. The mortality rate is approximately 10-20%.

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... ed, ... a a e, ... e, ... a d ca e f, ... d, ... d a, ... DKA.

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