

- Bicarb on $BMP \le 15$
- Glucose ≥ 200
- Ketosis by urine or blood testing (send with first void, but do not delay initiation of insulin infusion if patient meets other criteria for DKA)

AND any of the three listed below:

- History of previously diagnosed Insulin Dependent Diabetes Mellitus (IDDM)
- History of significant Non-Insulin Dependent Diabetes Mellitus
- History consistent with new onset IDDM (polyuria, polydipsia, polyphagia)

	Patient's Glucose	$1^{st} \operatorname{Bag}_{(D_0 \operatorname{solution})}$	2^{nd} Bag (D ₁₀ solution)
t	BG <200	0% TIVF	100% TIVF
	BG 200-300	50% TIVF	50% TIVF
	BG >301	100% TIVF	0% TIVF
	BG <70	<70 Maintain insulin infusion Give 15 g carbs (ex. juice cup), If altered mental status give D25 Check blood glucose in 15 minutes	

Warnings and emergency therapies

Symptomatic Cerebral Edema from DKA is a clinical emergency

Pediatric DKA is associated with a higher incidence of cerebral edema and stroke

- Monitor electrolytes during treatment closely, rapid changes in glucose and/or sodium may indicate rapid fluid shifts and increase risk for cerebral injury
- For concern of cerebral edema, consider hypertonic saline administration: 3-5ml/kg (1.5-2.5 meq/kg) over 10 minutes (max of 500ml), use caution if corrected Na ≥ 150mEq/L as hypertonic saline may worsen hypernatremia/hyperosmolarity
- > If fever of > 38 C is present, the work up should include a fever/infection evaluation while treating DKA

Bicarbonate administration is associated with increased morbidity/mortality from cerebral edema and should

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Age < 3 years

DKA

Altered mental status If corrected sodium < 130 mEg/L

If corrected sodium \geq 150 mEg/L

Corrected plasma sodium =

measured plasma or serum sodium concentration +

(2*(serum glocose-100)/100)

Significant dehydration/ketosis without insulin

-Appendicitis or other abdominal crisis

deficiency from any other cause, such as:

-Steroid induced hyperglycemia

Hyperosmolar Hyperglycemic Syndrome with or without

-Ketosis from other metabolic/genetic causes

Diabetic Ketoacidosis



Clinical Practice Guidelines

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