

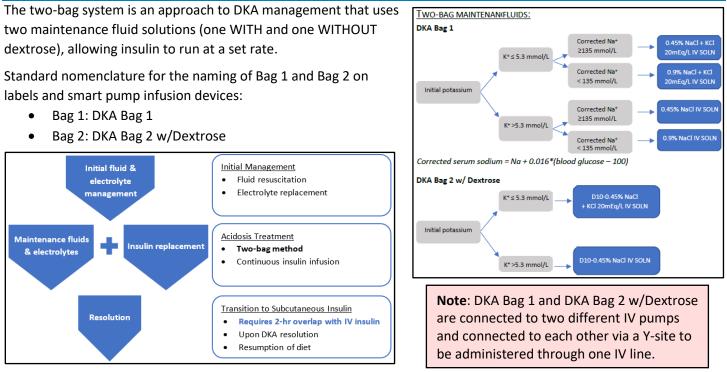
Adult DKA PowerPlan for Providers, Nurses, and Pharmacists

Cerner PowerChart, FirstNet EDUCATION

Summary: At Cadillac and Grayling hospitals, a new Adult Diabetic Ketoacidosis (DKA) PowerPlan will replace the existing PowerPlan to be used in the emergency department and within the hospital to guide the treatment of adults 18 years of age and older with diabetic ketoacidosis utilizing a **two-bag infusion method and electrolyte replacement protocol**. **When:** January 30, 2024

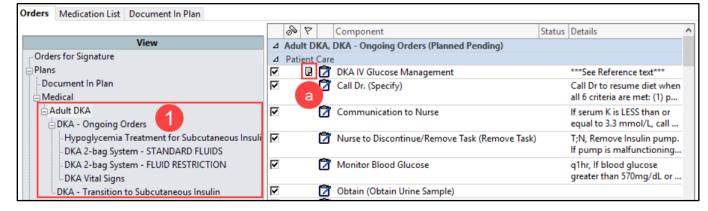
Support: Help Desk at 231-935-6053

DKA Two-Bag Method Summary



Adult DKA PowerPlan

- 1. Search for and select the Adult DKA PowerPlan.
 - a. <u>Reference Text</u> is also included in this PowerPlan.



Note: This PowerPlan should NOT be utilized for patients under the age of 18 years old.



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- Check and uncheck orders within the PowerPlan, as needed.
- Select the DKA 2-bag System – STANDARD FLUIDS or DKA 2-bag System – FLUID RESTRICTION.

📢 🛸 🚫 🕂 Add to Phase 🕶 Start: Now Duration: None \$ \$ 7 Component Status Details Insulins: Continuous li 🇳 Insulin bolus not necessary with 2 bag management. Set rate of 0.1 unit/kg/hr is preferred for all patients. 0.05 unit/kg/hr rate is reserved for patients with persistent hypoglycemia despite titration of DKA Bag 2 w/Dex text for details. 🔗 insulin regular (Insulin Regular Drip SET RATE) 0.1 unit/kg/hr. SET RATE, IV. 100 unit, 100 mL, STAT • PAUSE/HOLD insulin if K less than 3.3 mmol/L or BG less than Hypoglycemia Treatment for Subcutaneous In Planned Pen 🇳 Select DKA Bag 1 and DKA Bag 2 w/Dextrose from subphase based on fluid rate, potassium, and corrected so Corrected serum sodium = [Na + 0.016*(BG - 100)] B DKA 2-bag System - STANDARD FLUIDS B DKA 2-bag System - FLUID RESTRICTION 🗳 Sodium bicarbonate is NOT recommended in DKA and does not improve outcomes. Administer only in severe acidemia (p
Sodium bicarbonate (Sodium bicaro ...

Image: Sodium bicaro ...

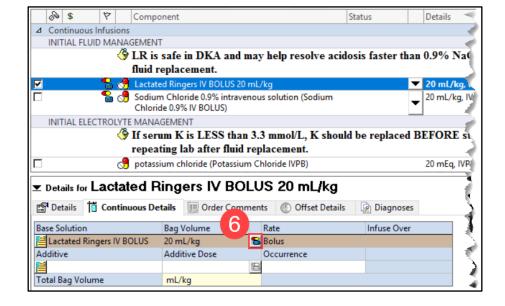
Image: Sodium bicaro 50 mEq, IVPush, Inject, ONCE, 50 meq=1 amp DKA Electrolyte Replacement, Note, q12hSTD

- Within the DKA 2-bag System subphase, select 1 option for DKA BAG 1 and select 1 option for DKA BAG 2 w/DEXTROSE.
- Click Return to DKA Ongoing Orders to return to the PowerPlan.

& \$	17 C	omponent	Status	Details
⊿ Continuo	us Infusions			
	<u> </u>	**DKA BAG 1 - select ONE option*	** (4)	
	🕓 In	itial potassium LESS than or equal to 5.	3 mmonND corre	ected serum sodium GREATER than or equal to 135 mmol/L
	1 <u></u> s	odium Chloride 0.45%+KCl 20 mEq/L IV SOLN		1,000 mL, IV, TITRATE This is DKA Bag 1. Rate of Bag 1 is 0 mL/hr, 125 mL/hr, or 250 mL
	🍊 In	itial potassium LESS than or equal to 5.	3 mmol/L AND corre	ected serum sodium LESS than 135 mmol/L
		odium Chloride 0.9% with KCl 20 mEq/L intrav olution (Sodium Chloride 0.9%+KCl 20 mEq/L		1,000 mL, IV, TITRATE This is DKA Bag 1. Rate of Bag 1 is 0 mL/hr, 125 mL/hr, or 250 mL
	🍊 In	itial potassium GREATER than 5.3 mm	ol/L AND corrected s	serum sodium GREATER than or equal to 135 mmol/L
		odium Chloride 0.45% intravenous solution (S hloride 0.45% IV SOLN)	odium	1,000 mL, IV, TITRATE This is DKA Bag 1. Rate of Bag 1 is 0 mL/hr, 125 mL/hr, or 250 mL
	🍊 In	itial potassium GREATER than 5.3 mm	ol/L AND corrected s	serum sodium LESS than 135 mmol/L
		odium Chloride 0.9% intravenous solution (So Chloride 0.9% IV SOLN)	dium	1,000 mL, IV, TITRATE This is DKA Bag 1. Rate of Bag 1 is 0 mL/hr, 125 mL/hr, or 250 mL
	🗳 *	**DKA BAG 2 w/DEXTROSE - sele	ct ONE option***	
	🏈 In	itial potassium LESS than 5.3 mmol/L		
	1 <u>0</u>	extrose 10% - NaCl 0.45% - KCl 20 mEq		1,000 mL, IV, Start T;N, TITRATE, Routine This is DKA Bag 2 w/Dextrose. Rate of Bag 2 is 0 mL/hr, 125 mL/h
	🍊 In	itial potassium GREATER than 5.3 mmol/L		
Return to	DKA - Ongoin	Pextrose 10% with 0.45% NaCl intravenous solu	tion	1,000 mL, IV, TITRATE
Dx Table	Orders For 1	Nurse Review Save as My Favorite		2 Initiate Now Orders For Signature

- 6. Click on the Dosage Calculator icon to complete, if applicable.
- 7. To sign the PowerPlan, click Orders For Signature.

Orders For Signature





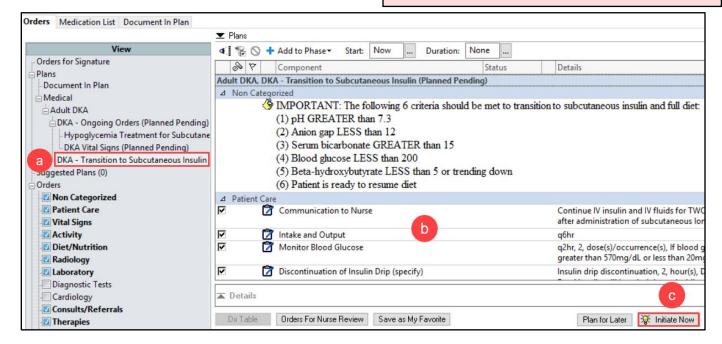
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- Once the patient is ready to transition to the longacting subcutaneous insulin, the DKA – Transition to Subcutaneous Insulin subphase of the Adult DKA PowerPlan will need to be ordered.
 - a. Select the subphase.
 - b. Check and uncheck orders within the subphase, as needed.
 - c. Click Initiate Now to sign the orders.

Long-acting subcutaneous insulin (e.g., insulin glargine) is NOT immediately active and requires time to absorb into the bloodstream. Patients recovering from DKA must continue IV insulin until the subcutaneous product is working.

IV insulin and IV fluids MUST continue for TWO hours after administration of subcutaneous long-acting (basal) insulin to prevent relapse back into DKA.



Note: The Adult DKA PowerPlan can be discontinued once the patient is no longer on IV insulin and IV fluids. Nursing is tasked to discontinue the IV two hours after administration of the first dose of basal insulin.