(place patient label here) Patient Name:



rections: (**√**)- Check orders to activate; Orders with pre-checked box ☑ will be followed unless lined out.

Initial each place in the pre-printed order set where changes such as additions, deletions or line outs have been made
Initial each page and Sign/Date/Time last page

Order Set Directions:

Initial each page and Sign/Date/Time last page		
Diagnosis: Allergies:		
Pediatrics ICU DKA	Version 4	3/6/15
 General This pediatric order set is intended for use in patients greater than 12 month thr than 50 kilograms with Severe DKA (HCO3 less than 10; dehydration greater th Admit patients at risk for cerebral edema or with severe DKA to the ICU Patient Weight: 		ge and less
Nursing Orders ☑ Assess neurologic status including Glasgow Coma Scale: every hour ☑ Glucose, blood, point-of-care measurement: Following fluid bolus and every h ☑ IF admitted with an insulin infusion pump physically remove the pump, tubing start of insulin infusion Notify provider ☑ IF corrected sodium is greater than 140 mEq/L so that Phase 2 fluids may ☑ IF capillary blood glucose decreases more than 100 mg/dL per hour Step 1) Start Dextrose infusion (BAG 2) at 250-299 blood glucose rate if note **If glucose continues to decrease more than 100mg/dL per hour; Step 2) Decrease insulin infusion rate to 0.05 unit/kilogram per hour. **If capillary blood glucose continues to decrease more than 100 mg/dL Step 3) Notify Provider ☑ IF capillary blood glucose less than 125 mg/dL AND D10 is infusing at total fluctorease insulin infusion rate to 0.05 unit/kilogram per hour AND Notify Provider Notify provider ☑ IF corrected sodium level of less than 140 meq/L (Corrected Sodium = Memg/dL - 100)/100] X 1.6) ☑ IF deterioration in mental status ☑ IF develops headache ☑ IF Glasgow Coma Scale less than or equal to 13 or asymmetrical neurological status of the second sta	be ordered of already started. uid rate easured Na + [(Seru	s catheter at
Diet NPO (diet) NPO Modifications: [] Except Meds [] Strict [] With Ice Chips [] With Sign	ps	
IV/ Line Placement ☑ Peripheral IV insert/maintain □ Saline Lock PEDS place second IV (select if	f patient in SHOCK)	
IV Fluids - Bolus (Phase 0) IF not already done in ER Select for patient NOT in shock Sodium Chloride 0.9% IV 10 milliliter/kilogram intravenously BOLUS Now, infuse over 60 minutes	S	

Select for patient in SHOCK Sodium Chloride 0.9% IV

after bolus infused

□ 10 milliliter/kilogram intravenously BOLUS Now, infuse over 20 minutes; Notify provider if shock persists

(place patient label here) Patient Name:	Benefis Hospitals
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Bicarbonate Therapy For patients with DKA and pH less than 6.9 SELECT: sodium bicarbonate 1 milliequivalent/kilogram in final concentration of 1 mEq/5 mL 0.45% N 2 hours; Recheck blood gas and BMP post infusion and notify provider of	
Insulins: Continuous Infusions ■ Insulin infusion begins following PHASE 0 fluid resuscitation and continues until r For patients 5 years of age and older SELECT: insulin regular 250 units in 0.9% Saline 250 milliliter (1 unit/milliliter) □ 0.1 unit/kilogram per hour - Begin after Phase 0	resolution of DKA
For patients less than 5 years of age or insulin sensitive SELECT: insulin regular 250 units in 0.9% Saline 250 milliliter (1 unit/milliliter) □ 0.05 unit/kilogram per hour - Begin after Phase 0	
 IV Fluids RATE (Phase 1-2) Calculate based on assumed 7% dehydration subtracting initial fluid bolus given Maintain this rate for 48 hours- See provider orders -> pediatric critical care fold DKA Total Fluid Rate Calculator ☑ PED DKA 2 bag Total IV Fluid Rate: milliliter/hour 	
 PHASE 1 -Select one 2 bag combination Phase 1 begins after completion of Phase 0 and continues for at least 6 hours. Do during phase 1. IF Corrected Sodium is greater than or equal to 140 mEq/L skip Phase 1 fluids at Corrected Sodium = Measured Na + [(Serum glucose as mg/dL - 100)/100] X 1. Calculator- See provider orders -> pediatric critical care folder on the intranet HIGH risk for Cerebral Edema or Hyponatremic For corrected sodium less than 140 mEq/L and potassium less than or expected sodium less than 140 mEq of K acetate + 6.8 mmol KPhos per mL/hr continuous IV infusion. Begin following bolus (Phase 0) Titrate per two-bag system calculator; (Phase 2 fluids if ordered); Coincide with insulin infusion Dextrose 10% and 0.9% Sodium Chloride IV with 10 mEq of K acetate + PHASE 1 BAG 2 mL/hr continuous IV infusion. Titrate per two-bag system calculator; (Discontinue at start of infuse Phwith insulin infusion 	nd begin with Phase 2 fluids below 6. For Corrected Sodium qual to 5.5 mEq/L-Select both 500 mL PHASE 1 BAG 1 (Discontinue at start of infuse 6.8 mmol KPhos per 500 mL
For corrected sodium less than 140 mEq/L and potassium greater than non-hemolyzed samples- Select both Sodium Chloride 0.9% PHASE 1 BAG 1 mL/hr continuous IV information and the second	usion.

Initia	ls
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□ Dextrose 10% and 0.9% Sodium Chloride IV PHASE 1 BAG 2 ____ mL/hr continuous IV infusion.

Titrate per two-bag system calculator; (Discontinue at start of infuse Phase 2 fluids if ordered); Coincide with insulin infusion (Discontinue at start of infuse Phase 2 fluids if ordered); Coincide with insulin infusion

Phase 2 fluids if ordered); Coincide with insulin infusion

(place patient label here) Patient Name:	Benefis HEALTH SYSTEM Benefis Hospitals	
Order Set Directions: > (√)- Check orders to activate; Orders with pre-checked box ☑ will be followed unless lined out. > Initial each place in the pre-printed order set where changes such as additions, deletions or line o Initial each page and Sign/Date/Time last page	uts have been made PROVI DER ORDERS	
PHASE 2 -Select one 2 bag combination Phase 2 begins 6 hours after the start of Phase 1 or when corrected sodium is greater than or equal to 140 mEq/L until resolution of DKA Corrected Sodium = Measured Na + [(Serum glucose as mg/dL - 100)/100] X 1.6. For Corrected Sodium Calculator- See provider orders -> pediatric critical care folder on the intranet Low risk for Cerebral Edema For corrected sodium greater than or equal to 140 mEq/L and potassium less than or equal to 5.5 mEq/L- Select both Sodium Chloride 0.45% IV with 10 mEq of K acetate + 6.8 mmol KPhos per 500 mL; PHASE 2, BAG 1. ———————————————————————————————————		
Transition to subcutaneous insulin • When patient is ready to transition to subcutaneous insulin SELEC Laboratory • For pediatric patients with suspected DKA or HHS, consider obtain	ning serum electrolytes, glucose, calcium,	
magnesium, phosphorus, and blood gases at least every 2 to 4 h creatinine, and hematocrit every 6 to 8 hours until normal. Admission labs or labs to be obtained now: (IF not already		
Timed Labs: BETA-HYDROXYBUTYRATE, BLOOD every 2 hours from first test, while on insulin drip BASIC METABOLIC PANEL at 2, 4 and 8 hours following CMP Blood gas study every four hours from the first blood gas Arterial Capillary		
Consults — Consult to diabetes educator		

_Date:_____Time:____

Provider Signature:___