

Diabetic Ketoacidosis Order Set ADULT (over 18 years of age)

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	IMMEDIATE TREATMENT		AT ONE HOUR	FIRST 24 HOURS		ONGOING/ASSESSMENT	
	Start two I.V.s #1 Normal saline #2 Saline lock			Serum glucose and venous gasese every hour		Once glucose is below	
	See below for further IV orders 1:1 nursing x 8 hours then reassess		1	until pH is greater than 7.3			12 mmol/L for 6 consecutive hours, do glucometer every
	Cardiac monitoring for duration of protocol		■Serum glucose and	Then, do lab comparison of glucose and			4 hours
_	■ Body Weight in kg:		venous gases every	switch to Glucometer ever hour until			
¥	■ ABGs, venous blood gases, serum glucose,		hour	glucose is less than 12		☐ Electrolytes every	
SIO	serum ketones, electrolytes, urine R & M □CBC □creatinine □urea □HbA1c		■ DD T D D C 202	_			
ES	□urine culture □ blood culture □ ECG		■ BP, T,P,R SpO2 ■ neuro vitals	Then glucometer every 2 hours for 6 hours ■ Electrolytes every 2 hours for 8 hours		☐ BP TPR SpO2 every	
2			= nearo vitais				☐ Neuro vitals every
Ϋ́	Other				then as ordered		·
INTERPROFESSIONAL	■Consult endocrinologist by telephone as needed IF SEVERE DKA, STABLIZE AND			■BP, T,P,R, SpO2 every hours for eight hours then as ordered		☐ Fluid balance / intake & output	
	TRANSFER TO A SITE WITH ICU			■Neuro vitals every hour if altered status on admit MD to reassess		on admit	every
	Severe DKA = Glucose greater than 13.9,					,	
	Arterial pH less than 7.0, serum bicarb less than 10, ketones in urine and serum, Anion gap greater than 12, and patient in						
				■Fluid intake/output every hour for 24 hours		 consult endocrinologist consult Diabetes Education Team 	
	stupor or coma			then as ordered		= consult blubetes Education Team	
NO.	GOAL: REPLACE HALF OF ESTIMATED FLUID LOSS OVER FIRST EIGHT HOURS THEN REMAINING HALF LOSS OVER THE NEXT SIXTEEN HOURS IV#1 Normal saline at		← Note: usual fluid	=			■NPO if vomiting/decreased
ΑTI			loss for DKA patient is 6 Litres reassess IV #1 NEW RATE FOR: HOURS #2-8				level of consciousness
FLUID RESUSCITATION							■Offer sips of sugar containing clear fluids as tolerated ■Regular Diabetic Diet only after 24 hours of resuscitation □ Reassess IV #1 (N/S) rate change to
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	GOAL: POTASSIUM (K)	BETWEEN 4 -5 mmol/L		Ongoing Potassiun	n Replacement		
	Initial K greater than 5.2	In IV #1 N/S add:	■Recheck K in one hour from	К			
MU	OR no urine output established			3.4 to 4.5 mmol/L	■40 mEq/L KCl in N/S		
	Initial K between 3.4 to		first check and every hour	K			
SSI	5.2, AND urine output	■40 mEq/L in N/S (0.9%)	as needed	4.5 to 5.0	■20 mEq/L KCl in N/S		
POTASSIUM	established		ł				
Ъ	Initial K less than 3.3	■40 mEq/L in N/S (0.9%)	MD to reassess K	16 1/ uiuuu uuuiu	■HOLD KCl and access	i- 2 h	
		and HOLD INSULIN INFUSION	every hour and restart INSULIN when	If K rises again to greater than	■HOLD KCl and reasse i.e. infuse saline only t		
		in osion	K+ is greater than 3.3	5.2 mmol/L	site	oug.i c.iis iv	
	COAL INCLUMENTATION FOR AT LEAST 24 LIPS		*			ONCE STABLE: i.e.	
	GOAL: INSULIN INFUSION FOR AT LEAST 24 HRS BLOOD SUGAR DECREASES BY 3 to 4 mmol/L/hr		* blood sugar	Once glucose by glucometer with good lab comparison,			
	If patient on a personal insulin pump,		that falls more rapidly than the	is below 12 mmol/L for 6 consecutive hours, glucometer can be done every four hours			Se Glucose less than 12 mmol/L AND pH greater than 7.30
	discontinue prior to treatment		goal 3 to 4 mmol/L per hour, requires MD	ONGOING: Adjust insulin drip as follows:		AND Negative ketones	
	■ IV#2 saline lock until insulin infusion begins			Glucose	Rate of	Further	AND Anion gap less than 10 mmol/L AND Insulin drip has been x 24 hours
	■Prepare solution and hang:			in mmol/L	insulin drip	Comment	
				III IIIIIIOI/L	modim unp	Comment	AND Insulin unp has been x 24 hours
	_	ınits in 500 mL D5W	intervention	- ,	·		Next steps:
	(Humulin R, Novolin	units in 500 mL D5W ge Toronto, Regular)		Less than or	■HOLD insulin drip	■Give 25 mL of	Next steps: GLUCOMETER FOUR TIMES A DAY
	(Humulin R, Novolin	units in 500 mL D5W ge Toronto, Regular) =1 unit)		Less than or equal to 4	■HOLD insulin drip ■Recheck glucose		Next steps: GLUCOMETER FOUR TIMES A DAY START/RESTART BASAL AND
z	(Humulin R, Novolin (10 ml FIRST: Program pump for we	units in 500 mL D5W ge Toronto, Regular) =1 unit)		Less than or	■HOLD insulin drip ■Recheck glucose in 30 minutes then	■Give 25 mL of	Next steps: GLUCOMETER FOUR TIMES A DAY START/RESTART BASAL AND BOLUS INSULINS AS FOLLOWS:
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BICARBONATE	(Humulin R, Novolin (10 ml FIRST: Program pump for wo 0.1 UNITS/KG/HOUR NEXT: program pump to del already hanging, as follows: 0.1 x patients weight in kg 0.1 x	units in 500 mL D5W ge Toronto, Regular) =1 unit) eight based dosing at iver bolus of the solution g. = units for infusion bolus =units calculation by (initials) this bolus over 8 sing on pump, and will require up to 8 ery high for those 8 min OT PUSH RAPID BOLUS tto 33 minutes sed insulin at d glucose is less than r six consecutive hours, the right. ATER THAN 7.05 es is less than 7.0 apy: L bag of 0.45% NaCl ium Bicarbonate thru IV #1 N/S	■Recheck ABGs and electrolytes at one hour from first check ■Stop Bicarbonate infusion when pH	Less than or equal to 4 mmol/L 4 to 8.9 mmol/L GOAL GLUCOSE: 9 to 11.9 mmol/L 12 to 15.9 mmol/L Greater than 16 mmol/L Greater than 20 mmol/L	■HOLD insulin drip ■Recheck glucose in 30 minutes then Resume drip as per table ■Decrease rate by 0.05 units/kg/hour ■Increase rate by 0.1 units/kg/hour ■Increase rate by 0.1 units/kg/hour ■loss of 0.1 units/kg/hour	■Give 25 mL of D50% IV push If current drip at 0.05, then reduce by 50%(never off) Glucometer every 2 hours Glucometer every hour	Next steps: ■ GLUCOMETER FOUR TIMES A DAY ■ START/RESTART BASAL AND BOLUS INSULINS AS FOLLOWS: 1. for patients previously on insulin: a) restart basal s/c insulin (lantus/levemir/NPH) two hours before discont- inuing IV insulin infusion. and DAILY (every 24 hours) b) restart bolus s/c insulin (novorapid/humalog/ apidra) dose at next meal 2. for patients newly diagnosed or home dosing unknown a) Calculate basal insulin requirements (lantus/ levemir/NPH) as follows: 0.25 x patients weight in kg = units of insulin for basal dose
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Physician Signature with Date/time

Reference: Diabetes Flowsheet and DKA Carepathway
Reference: Diabetes Management Team, Groves Memorial Community Hospital