Instructions for Calculating Insulin Dose When Moderate to Large Urine Ketones are Present

For use with rapid-acting insulin: Humalog, Novolog, Apidra

Obtain the following information: Insulin-to-carbohydrate ratio: 1 unit/g Correction factor/insulin sensitivity factor: 1	grams unit/	Blood glucose target: 70 mg/dl Urine ketones: □ moderate □ large	-
Check blood glucose. Blood glucose reading:	mg/dL		
If blood glucose is less than 150 mg/dL, eat/ for these carbohydrates. Recheck blood gluc glucose is greater than 150 mg/dL.			
If blood glucose is greater than 150 mg/dL,	proceed to Ste	p 1.	
Calculate insulin dose as follows:			
Step1→ Calculate correction insulin dose.			
(blood glucose = (blood glucose ÷ reading) target)	(correcti sensitiv	ion factor/ = units (correction insu vity factor) dose)	ılin
Step 2→ Calculate ketone insulin dose.			
If moderate ketones present, calculate as fo (correction insulin dose) x 1.5 = u If large ketones present, calculate as follows (correction insulin dose) x 2.0 = u	units (treatments:		
Step 3→ Calculate food insulin dose if carbohydrate this step.			o
Food	Amount	Carbohydrate (grams)	
		Total carb:	
(total carb) ÷ (insulin-to-carb ro	atio) = u	nits (food insulin dose)	
Step 4→ Calculate total insulin dose needed to treat	t urine ketones	5.	
(treatment insulin dose) + (food i	nsulin dose) = _	total units insulin to be given using syringe or insulin pen	
Round total insulin dose to nearest half unit. If on insulin pump, give insulin by syringe/pe		pump site.	

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