St. Luke's-Roosevelt Hospital Hyperglycemia Work Sheet:

Weight:	Kg	Height:	cn
Initial FS:		Time:	
Date:		Initial BG:	

please stamp patient name plate

Initiating an Insulin Infusion:

- 1. Insulin Infusion Mix: 100 Units Reg. insulin / 100 ml NS.
- 2. Priming: Flush 50 cc of infusion through all IV tubing.
- 3. Target Blood Glucose (BG): 100-150 mg/dL
- 4. Bolus & Initial Insulin Infusion Rate:
 - □ Bolus 4 units Reg. Insulin for BG > 250 mg/dL
 - \Box For patients \leq 70 Kg, start @ 0.5 units/hr then follow tier (1)
 - \Box For patients > 70 Kg, start @ 1 units/hr then follow tier (2)
- Maintenance IV FLUIDS: Should contain dextrose infused at a constant rate if patient is NPO and BG is less than 250 mg/dL.
 - □ D5 NS at 100 ml/hour.
 - \square D5 ½NS at 100 ml/hour.
 - $\hfill\Box$ D10 NS at 40 ml / hour (for patients with fluid restriction or renal failure).
 - □ Additive: KCL meq/liter (generally 20 meq/L)
- 6. BG Monitoring: FS q 1 hr
 - Follow patient tier and change infusion rate according to the table.
 - If no *decrease* in BG ranges for 3 consecutive measures *move up a tier* within the same range.
 - If FS at goal for 3 consecutive readings, change FS to q 2 hrs x 3, if no change FS q 4 hrs.
 - Change back to frequent monitoring FS q1 hr for: Significant change in clinical condition, Initiation or cessation of corticosteroids or vasopressors, Initiation or cessation of hemodialysis, Initiation, cessation or change in nutritional support.

Time FS	FS	Infusion Rate	New Rate	Signature
12:00 AM		Kate		
1:00 AM				
2:00 AM				
3:00 AM				
4:00 AM				
5:00 AM				
6:00 AM				
7:00 AM				
8:00 AM				
9:00 AM				
10:00 AM				
11:00 AM				
12:00 PM				
1:00 PM 2:00 PM				
3:00 PM				
4:00 PM				
5:00 PM				
6:00 PM				
7:00 PM				
8:00 PM				
9:00 PM				
10:00 PM				
11:00 PM				

BG Range	Tier 1	Tier 2	Tier 3	Tier 4	Tier 5
Mg/dL	Units/hr				
< 60		Hypoglycemia Protocol			
61-99	Stop Infusion Drip				
100-150	0.5	1	2	3	4
151-200	1	2	3	5	6.5
201-240	1.5	3	4.5	7	8
241-280	2	4	6	9	10.5
281-300	2.5	5	7.5	11	13
301-320	3	6	9	13	15.5
321-360	3.5	7	10.5	15	18
> 360	4	8	12	17	20.5

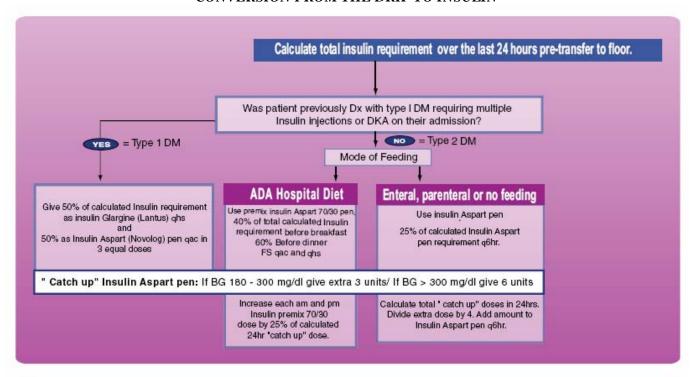
Hypoglycemia Protocol: $BG \le 60$ SAM PROTOCOL

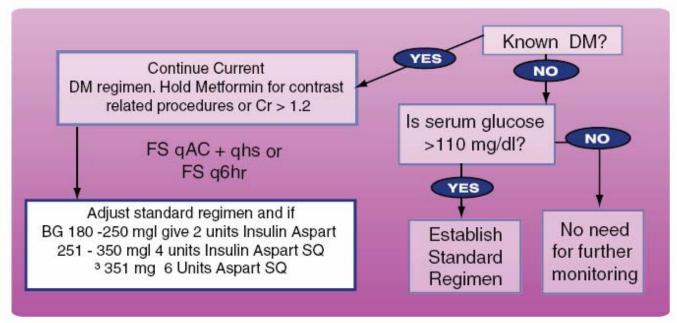
- STOP INSULIN INFUSION
- Assess Patient, Is patient Conscious and Cooperative?
- Management:
 - 1. Yes: give patient 4 oz of Orange Juice
 - 2. No: give 1 amp (25 g) D50 IV
 - 3. Recheck FS in 20 mins
 - 4. If still low repeat SAM.
- When BG ≥ 100, Resume management per tier1
- For patients in DKA or HONKC please refer to the appropriate management protocol.
- For patients leaving the ICU for a procedure(s):
 - Call MD if Patient will go off the floor.
 - Turn insulin infusion off, check fingerstick on return back to the unit and resume infusion.

RN Signature:	 	

Version 1.7.2 ICU, October. 2006

CONVERSION FROM THE DRIP TO INSULIN





Types of INSULIN & Onset of Action

Insulin	Onset	Peak	Duration
Rapid Acting /Aspart (Novolog)	5-15 min	30-90 min	5 hours
Short Acting / Regular U 100 (Novolin R)	30-60 min	2-3 hours	5 -8 hours
Long Acting / Glargine (Lantus)	2-4 hours	No peak	20-24 hours
Premixed / 70% NPA 30% Aspart (Novolog Mix)	5-15 min	Dual	10-16 hours