

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

Weight: _____ Kg Height: _____ cm
 Initial FS: _____ Time: _____
 Date: _____ Initial BG: _____

please stamp patient name plate

Initiating an Insulin Infusion:

- Insulin Infusion Mix:** 100 Units Reg. insulin / 100 ml NS.
- Priming:** Flush 50 cc of infusion through all IV tubing.
- Target Blood Glucose (BG): 80-120 mg/dL**
- Bolus & Initial Insulin Infusion Rate:**
 - Bolus 4 units Reg. Insulin for BG > 250 mg/dL
 - For patients ≤ 70 Kg, start @ 0.5 units/hr then follow tier (1)
 - 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.
 - D5 ½NS at 100 ml /hour.
 - D10 NS at 40 ml / hour (for patients with fluid restriction or renal failure).
 - Additive: KCL _____ meq/liter (generally 20 meq/L)
- 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.

BG Range	Tier 1	Tier 2	Tier 3	Tier 4	Tier 5
Mg/dL	Units/hr				
< 60	Hypoglycemia Protocol				
61-79	Stop Infusion Drip				
80-120	0.5	1	2	3	4
121-160	1	2	3	5	6.5
161-200	1.5	3	4.5	7	8
201-240	2	4	6	9	10.5
241-280	2.5	5	7.5	11	13
281-320	3	6	9	13	15.5
321-360	3.5	7	10.5	15	18
> 360	4	8	12	17	20.5

Time FS	FS	Infusion Rate	New Rate	Signature
12:00 AM				
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				

Hypoglycemia Protocol:

BG ≤ 60

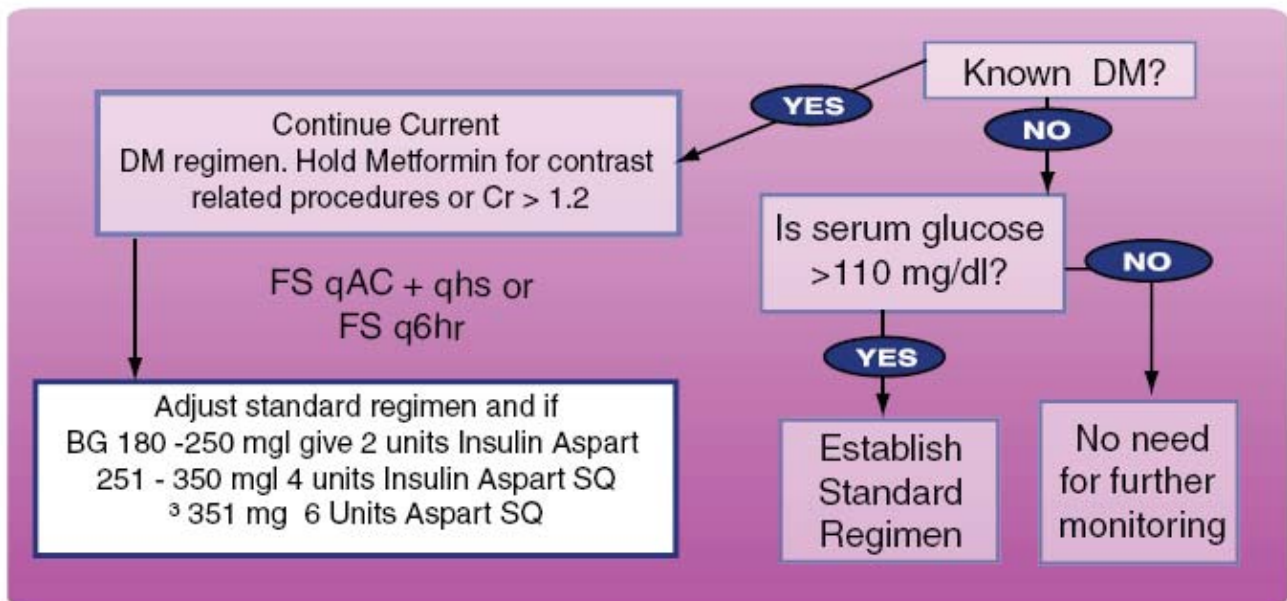
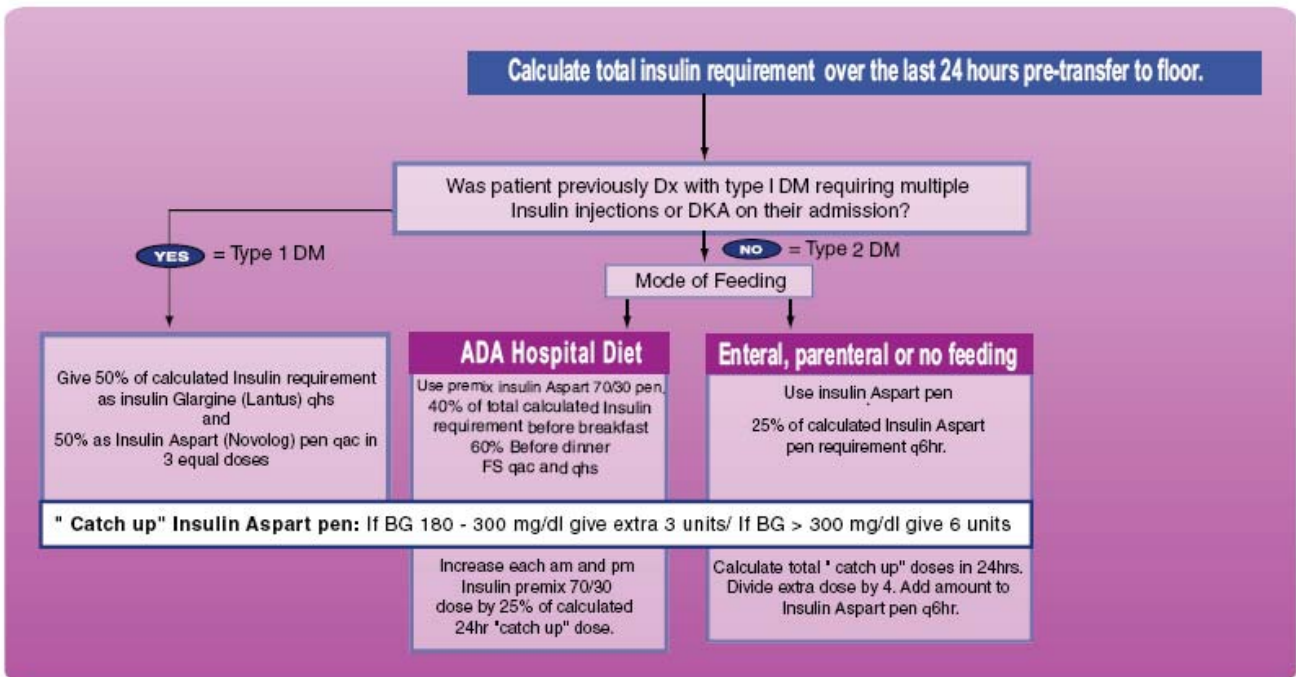
SAM PROTOCOL

- 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 tier 1

- For patients in DKA or HONKC please refer to the appropriate management protocol.
- For patients leaving the CCU 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: _____

CONVERSION FROM THE DRIP TO INSULIN



Types of INSULIN & Onset of Action

<u>Insulin</u>	<u>Onset</u>	<u>Peak</u>	<u>Duration</u>
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