

SERVICE	ATTENDING	RESIDENT	SEE FOR ALLERGIES
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OPERATING ROOM AND PRE-OP HOLDING INSULIN INFUSION PROTOCOL ORDERS
Goal BG Range = 100-140 mg/dL

- Discontinue All Previous Subcutaneous Insulin Orders
- Standard insulin infusion: 100 units/100 mL 0.9% Sodium chloride via an infusion device
- Confirm piggyback of 5% Dextrose at 100mL/hr is infusing
- Check blood glucose (BG) hourly

Treatment of Hypoglycemia (BG <70 mg/dL) or symptoms of hypoglycemia

- Turn off** insulin infusion for any BG below goal **AND**
- Give 25 mL (1/2 amp) of 50% dextrose IV if BG 50-69 mg/dL **OR**
- Give 50 mL (1 amp) of 50% dextrose IV if BG < 50 mg/dL.
- Recheck BG every 20 minutes until BG ≥100 mg/dL
 - IF BG is <70 mg/dL repeat 25 mL (1/2 amp) 50% dextrose
 - WHEN BG is ≥100 mg/dL, restart the insulin infusion at a lower dose by using one algorithm **LEFT** from previous algorithm (see "Evaluating Trends & Using Algorithms" section).

Algorithm 1 Start here for Type 1 DM		Algorithm 2 Start here for Type 2 DM		Algorithm 3 Do NOT Start here		Algorithm 4 Do not start here	
BG	Units/hr	BG	Units/hr	BG	Units/hr	BG	Units/hr
<70 = Hypoglycemia (See page 1 for treatment)							
70-99: Off x 20 minutes & recheck BG							
100-120	0.5	100-120	1	100-120	2	100-120	3
121-140	0.8	121-140	1.5	121-140	2.5	121-140	4
141-160	1.2	141-160	2	141-160	3	141-160	5.5
161-180	1.5	161-180	2.5	161-180	4	161-180	7
181-210	2	181-210	3	181-210	5	181-210	9
211-240	2.5	211-240	4	211-240	6	211-240	12
241-270	3	241-270	5	241-270	8	241-270	16
271-300	3.5	271-300	6	271-300	10	271-300	20
301-330	4	301-330	7	301-330	12	301-330	24
331-360	4.5	331-360	8	331-360	14	>330	28
>360	6	>360	12	>360	16		

Evaluating Trends & Using Algorithms:

Move right or left only one algorithm per BG check. Subtract current BG reading from previous BG reading for the change in BG.

- BG in goal range:**
 - If BG has decreased ≥100 mg/dL in one hour, move **LEFT** one algorithm and use appropriate rate from table
 - If BG has decreased <100 mg/dL in one hour, maintain patient within current algorithm and adjust rate until patient is in goal range for 4 hours
 - Once patient is within goal range for 4 hours, do NOT adjust rate unless BG exits goal range
- BG above goal range:**
 - If BG has not decreased by at least 60 mg/dL, move **RIGHT** one algorithm and use appropriate rate from table
 - If BG has decreased by 60-100 mg/dL, stay within current algorithm and use appropriate rate from table
 - If BG has decreased ≥100 mg/dL in one hour, move **LEFT** one algorithm and use appropriate rate from table
- Hypoglycemic event OR BG below goal range**
 - Turn off insulin infusion. Treat hypoglycemia if BG<70mg/dL Recheck BG in 20 minutes.

Move **LEFT** one algorithm and use appropriate rate from table when BG returns to goal range.

PHYSICIAN SIGNATURE	PRINT NAME	PAGER	UPIN/NPI	DATE	TIME
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PT.NO

NAME

DOB

OPERATING ROOM INSULIN INFUSION ORDERS

REV SEP 09

WHITE - MEDICAL RECORD
 CANARY - PHARMACY
 PINK - NURSING

PHYSICIAN ORDER - YELLOW