Adult Insulin Infusion Guidelines



To Start Insulin Drip

Blood Glucose: 151-199 200-250 251-300 301-350 >350

IV Bolus: No Bolus 3 units Reg 6 units Reg 9 units Reg 10 units Reg Rate: 2 units/hr 2 units/hr 3 units/hr 3 units/hr 4 units/hr



Blood Glucose Insulin Infusion Adjustment

<60 mg/dL Stop insulin infusion. Notify MD. Give 25ml of D50W and

recheck blood glucose every 30 minutes.

60 - 99 mg/dL Stop insulin infusion. Check blood glucose every 30 minutes.

When blood glucose is >120, restart insulin at 25% of previous

rate if glucose is >140 mg/dL, restart at 50% of the

previous rate

100 - 140 mg/dL

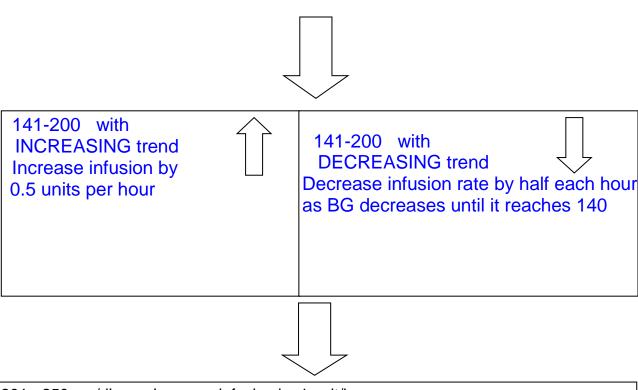
decrease

No Change; HOWEVER, if blood glucose continues to

over 3 consecutive checks, please decrease infusion by 0.5

units/hr.





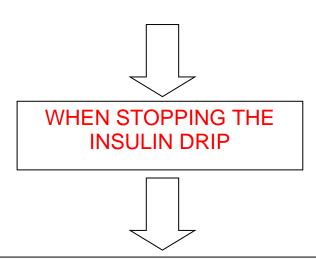
201 - 250 mg/dL Increase infusion by 1 unit/hr
251 - 300 mg/dL Bolus 4 units Reg, increase infusion by 2 units/hr
301 - 350 mg/dL Bolus 6 units Reg, increase infusion by 3 units/hr
351 - 400 mg/dL Bolus 8 units Reg, increase infusion by 3 units/hr
>400 Bolus mg/dL 10 units Reg, increase infusion by 3 units/hr. Notify MD



PLEASE NOTE

Check blood glucose every 1 hour

- Call MD for 2 (two) consecutive blood glucoses of greater than or equal to 250 mg/dL
- If patient is within 100-140 mg/dL for 2 consecutive hours, blood glucose checks may be decreased to every 2 hours
- When a change is made to the infusion rate, check blood glucose every 1 hour until stabilized for 2 consecutive hours
- If blood glucose drops by >50% at any time, decrease insulin rate by 50% and recheck in 1 hour
- If potassium is below 3.5 mmol/L notify ordering physician prior to starting insulin bolus/drip then monitor potassium level every 4 hours



- 1. Calculate 24 hr insulin requirement [Total Daily Dose (TDD)] from drip
- 2. Starting SQ insulin dose will be calculated as 80% of the total insulin received
- 3. Conversion from infusion to Lantus and Lispro regimen

 Lantus 50% of TDD at bedime + Lispro 50% of TDD divided as 3 doses with
 each meal

Example: 75 units TDD, 60 units is 80%= Lantus 30 units at bedtime and Lispro 30= 10 units per meal

OR

- 4. Conversion from infusion to NPH and Regular regimen NPH 2/3 of TDD in morning with a 2:1 NPH/Reg ratio for morning dose NPH 1/3 of TDD in evening with a 1:1 NPH/Reg ratio for evening dose Example: 58 units TDD, 46 units is 80% = morning dose of 46 X 0.66 = 30 units Morning dose is 30 units divided out as NPH 20 units and Regular 10 units
- Overlap time Start basal insulin prior to stopping insulin drip Lantus - stop drip 6 hours after Lantus dose NPH - stop drip 4 hours after NPH dose

Evening dose of NPH 8 units of Regular 8 units

- 6. Start meal time coverage with Lispro or Regular Insulin when patient is eating
- 7. IF the drip has been on for less than 24 hours calculate to 24 hours by multiplying. **Example**: if the drip is on for 8 hours multiply by 3 to calculate the TDD; if on 12 hours multiply by 2 to calculate the TDD