

## **CV Surgery Insulin Protocol**

## **INSULIN DRIP**

- 1. Mix drip with 100 Units Novolin R (Regular Insulin) into 100 mL of Normal Saline (1Unit/1 mL)
- 2. Prime IV tubing with Insulin Drip and place on infusion pump.
- 3. Start Insulin Drip with the following formula:
  - a. (Blood Glucose 60) x 0.03 = Number of Units of Insulin/Hour
  - b. Note: Use the current blood glucose, and the starting "multiplier" is 0.03
- 4. Titrate the drip hourly based on the following criteria:
  - a. BG > 140 Increase multiplier by 0.01
  - b. BG </= 100 Decrease multiplier by 0.01
  - c. BG is between 101 140 No change in the multiplier
- 5. Recalculate the insulin dose every hour with the latest BG even if the multiplier does not change
- 6. If BG < 80, recheck in 30 minutes
- 7. If BG < 60:
  - a. Give D5W IV push using the following formula:
    - 1. (100-BG) x 0.3 = Milliliters of D50W to be given IV push
  - b. Decrease the insulin drip multiplier by 0.01 and continue insulin drip
  - c. Recheck BG in 15 minutes
- 8. While on the drip, call the Hyperglycemic Management Team if any below occur:
  - a. BG < 60 twice in a row after intervention
  - b. BG < 70 twice in a row
  - c. BG > 200 on 3 consecutive Accuchecks and trend isn't moving toward target zone
  - d. Do not D/C insulin drip between 11pm and 5am. If by 9pm, it looks like you may have criteria to wean off the drip before 5am, then call for specific orders
- 9. Obtain lab glucose for verification if BG < 50 OR > 450

## WEANING INSULIN DRIP

- 1. Convert to a subcutaneous insulin regimen, if you have no increase in the multiplier for 8 hours. A decrease in the multiplier is considered a favorable condition for weaning the insulin drip.
- 2. Call the Hyperglycemic Management Team for the subcutaneous Novolin N weaning dose order. Have the patient's weight (kg), HgbA-1C, and the total number of insulin units given on the insulin drip over the past 24 hours.
- 3. Administer Novolin N dose subcutaneously 2 hours prior to the discontinuation of the drip.
- 4. See flow sheet at the bottom of this reference text for further weaning instructions.
- 5. If BG is trending up, call the Hyperglycemic Management Team.

## CV SURGERY SLIDING SCALE - REGULAR INSULIN SUBCUTANEOUS

Symptomatic	
Non-symptomatic	

<60 -> 1 Amp D50W IV push
60-70 -> ¾ Amp D50W IV push
70-80 -> ½ Amp D50W IV push
70-80 -> No treatment and recheck BG in 1 hour
81-140 -> 0 Units
141-160 -> 2 Units
161-180 -> 4 Units
181-200 -> 6 Units
201-224 -> 8 Units
201-224 -> 8 Units
250-299 -> 12 Units
300-324 -> 14 Units
>300-324 -> 20 Units, Call Hyperglycemic Management Team

