**ICU Dynamic Insulin Drip Protocol Version 4 6/11/15**

After provider order for initiation of a protocol, nursing may place orders found within the protocol using the Policy/Protocol - No Esign Req order source. (This protocol is initiated thru the ordering of the insulin drip medication order)

**Nursing Orders**

Point of care: capillary blood glucose: every hour until capillary glucose is within goal range x 4 then every 2 hours; titrate insulin infusion as directed

Glucose Target Range: 120-180 mg/dL

Insulin Drip Rate Calculation Instruction

Initial Rate: (BG-60) X 0.02 = UNITS/hour insulin

\*\*BG=Current Blood Glucose

\*\*0.02 is the multiplier

Rate Adjustments to initial rate:

1) Whenever BG is greater than 180 mg/dL INCREASE multiplier by 0.01

2) Whenever BG is less than 120 mg/dL DECREASE multiplier by 0.01

3) Whenever BG is 120-180 NO change in multiplier

\*\*Please note: YOU MUST RECALCULATE THE INSULIN RATE WITH EVERY BLOOD GLUCOSE EVEN IF THE MULTIPLIER DOESN'T CHANGE\*\*

\*\*TARGET REFERS TO THE BLOOD GLUCOSE NOT THE (BG- 60)\*\*

Notify provider managing insulin infusion

IF capillary blood glucose remains greater than 350 mg/dL for 2 hours

IF capillary blood glucose less than 70 mg/dL twice in a row

IF patient is scheduled for surgery

IF another provider turns off insulin drip for any reason

IF feedings, TPN or steroids are started, stopped or changed

***For Post-Op Major Vascular Surgery Patients:***

After patient has begun eating:

Do not titrate insulin drip for first 2 hours after meal

Discontinue insulin drip 2 hours after meal unless infusing at > 3 UNITS/hour

IF insulin drip is infusing at > 3 UNITS/hour: NOTIFY PROVIDER

**Hypoglycemia Treatment:**

***Glucose Level less than 80 mg/dL***

dextrose 50% in water (D50W)

intravenous push as needed for capillary blood glucose < 80 mg/dL

Dose using this formula: (100- BG) X 0.3= mL of D50W;

DECREASE multiplier by 0.01 and continue insulin infusion AND re-check capillary blood glucose in 15 minutes repeat as needed;

Resume protocol when blood glucose is greater than 80 mg/dL