



SCANNED TO PHARMACY

STAT MEDICATION

### CONTINUOUS IV INSULIN INFUSION For Cardiac Monitored Patients

**A. General Guidelines: For glucose management requiring intensive insulin treatment.**

1. The Blood Glucose (BG) goal will be 80-110 mg/dL, or per MD order \_\_\_\_\_ mg/dL
2. Patient source of exogenous glucose:  IV solution  TPN  Enteral  None
3. Insulin infusion should be **discontinued** when the patient is eating **AND** has received 1<sup>st</sup> dose of subcutaneous insulin &/or oral hypoglycemic agent.

**B. Initiating the Infusion:**

1. Start at **Level 1** **except** for the following patients per MD order:
  - Level 2:** Patients receiving *glucocorticoids* (methylprednisolone, dexamethasone) or mild DKA.
  - Level 2:** Diabetic patients who are receiving *more than 80 units* per day.
  - Level 3:** Patients with severe diabetic Ketoacidosis (DKA).

**No patients are started at Levels 3 or 4 without a specific physician's order to do so.**

Level 1		Level 2		Level 3		Level 4	
BG	Units/hr	BG	Units/hr	BG	Units/hr	BG	Units/hr
Less than 80	Off	Less than 80	Off	Less than 80	Off	Less than 80	Off
80-110	0.2	80-110	0.5	80-110	1	80-110	1.5
111-119	0.5	111-119	1	111-119	2	111-119	3
120-149	1	120-149	1.5	120-149	3	120-149	5
150-179	1.5	150-179	2	150-179	4	150-179	7
180-209	2	180-209	3	180-209	5	180-209	9
210-239	2	210-239	4	210-239	6	210-239	12
240-269	3	240-269	5	240-269	8	240-269	16
270-299	3	270-299	6	270-299	10	270-299	20
300-329	4	300-329	7	300-329	12	300-329	24
330-359	4	330-359	8	330-359	14	330-359	28
Greater than 360	6	Greater than 360	12	Greater than 360	16	Greater than 360	30

**Patient Monitoring: This will be utilized on patients with cardiac monitoring, in any unit, to assure adequate nursing care.**

1. The BG goal for patients receiving continuous insulin infusion is 80-110 mg/dL or per MD order (see above).
2. Check BG **every hour until it is within the goal range of 80-110 mg/dL for 4 hours** in a row, and then decrease to **every 2 hours X 2**. If stable and within the goal at that time, may decrease to every 4 hours.
3. If patient BG remains greater than 110 mg/dL, moving up and/or down within the selected level may be needed.
4. When the BG remains above the goal range, and the BG has not decreased by at least 60 mg/dL in one hour, advance to the next level of the algorithm (e.g. from Level 1 to Level 2) and check BG in 1 hour.
5. When the BG goes below 80 mg/dL, turn the infusion off.
  - Recheck BG every 20 minutes and restart insulin infusion if BG is 80 mg/dL or greater.
  - If the BG is between 80-110 mg/dL, restart the insulin infusion at a level lower than was previously used (e.g. restart at Level 1 if previously on Level 2).
  - If already at Level 1, restart patient at Level 1.
  - If the BG exceeds 110 mg/dL, restart at the same level of the algorithm.

**Less than 60 = Hypoglycemia (See below for treatment)**

**Treatment of Hypoglycemia:**

1. For BG *less than 60 mg/dL* **STOP** insulin infusion **AND** give **D50W IV**.
  - A. Patient *awake*: **Give 25 ml or 1/2 amp of D50W IV.**
  - B. Patient *not awake*: **Give 50 ml or 1 amp of D50W IV.**
2. Re-check BG **every 20 minutes** until greater than 80 mg/dL.
3. When BG is **greater than 80 mg/dL**, *restart infusion at the next lower level.*
4. **If patient was at Level 1, check with physician before restarting insulin infusion.**

**Reportable Conditions:**

Notify the MD if hypoglycemia does not resolve after two treatments.

Date \_\_\_\_\_ Time \_\_\_\_\_ Physician \_\_\_\_\_



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Patient Identification