



HURON PERTH HEALTHCARE ALLIANCE

Allergies: NKA or: _____

Weight (kg) _____ Height (cm) _____

SCAN ALL ORDERS TO PHARMACY

HPHA – IV INSULIN INFUSION ORDER SET

INITIAL INSULIN INFUSION:

Target blood glucose: 8-11 mmol per L

- Discontinue all previous insulin orders
- Regular Human insulin 100 units in 100 mL sodium chloride 0.9% 100 mL (1 unit per mL)
- IV tubing must be primed before initiating insulin. Refer to the Adult Standard Infusion Chart for instructions
- Insulin infusions should be changed a minimum of every 24 hours. Change insulin infusions every day at 1600 hours (no matter when they are prepared)
- If patient is not already on infusion, initial infusion rates as per Initial Insulin Infusion Rate table
- If patient not on TPN or enteral feeds, initiate Dextrose 5%-sodium chloride 0.9% IV at _____mL per hour

Blood Glucose (mmol per L)	Initial Insulin Infusion Rate
Less than or equal to 11	No insulin required Recheck blood glucose in 4 hours
11.1-14	Start insulin infusion at 0.5 units per hour
14.1-18	Start insulin infusion at 1 unit per hour
18.1-20	Start insulin infusion at 2 units per hour
Greater than 20	Start insulin infusion at 3 units per hour

MAINTENANCE INSULIN INFUSION:

- Hold insulin and call MRP if blood glucose drops by 50% or more in one hour
- If blood glucose is not less than 11 mmol per L after 8 hours on protocol, notify MRP for added orders

Blood Glucose (mmol per L)	Intervention	Blood Glucose Monitoring Frequency
Less than 3.9	Hold infusion and give 25 mL of Dextrose 50% IV Call MRP Restart infusion at 50% of previous rate once blood glucose is greater than or equal to 8	Q30MIN
3.9-7.9	Hold infusion Restart infusion at 50% of previous rate once blood glucose is greater than or equal to 8	Q1H x3 then Q2H

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Processed by:	Date & Time	Reviewed by:	Date & Time
Practitioner Printed Name	Practitioner Signature	Date	Time



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MAINTENANCE INSULIN INFUSION CON'T:

Blood Glucose (mmol per L)	Intervention	Blood Glucose Monitoring Frequency
8-11 (target range)	If blood glucose has dropped by 50% or more since last measurement, hold infusion, recheck blood glucose in one hour and restart infusion at 50% of previous rate once blood glucose is greater than or equal to 8 Otherwise, no change to rate and follow monitoring as indicated	Q2H*
11.1-14	If blood glucose is lower than last measurement, no change to rate If blood glucose is the same or greater than last measurement, increase infusion rate by 1 unit per hour	Q1H
Greater than 14	If blood glucose is lower than last measurement, no change to rate If blood glucose is the same or greater than the last measurement, increase infusion rate by 2 units per hour	Q1H

- *Continue monitoring blood glucose as per table above until 3 consecutive blood glucose results are in target range (8-11 mmol per L) then measure blood glucose Q4H
- If neurological status decreases, perform STAT blood glucose to rule out hypoglycemia
- When reducing the insulin infusion rate, round down to the nearest 0.5 unit per hour

MRP to reassess insulin infusion when:

- Insulin infusion is less than 0.5 units per hour **OR**
- Continuous parenteral or enteral nutrition is interrupted **OR**
- Patient is NPO and dextrose containing IV is discontinued or IV access is lost

Processed by:	Date & Time	Reviewed by:	Date & Time
Practitioner Printed Name	Practitioner Signature	Date	Time