

[R] = v	will be ordered	ICU Glycemic Control Protocol Orders		
T= Too	day; N = Now (date and time ordered))		
Height		kg		
		[] No known allergies		
	dication allergy(s): tex allergy []Other:			
		and have a blood glucose greater than 150 mg/dL X 2 measurements, or ONE		
		L for Cardiovascular Surgery patients. This is NOT for treatment of DKA or		
[R]	ICU Glycemic Control Protocol Initiate	T;N		
		Patient Care		
	Nursing Communication	T;N, ICU Glycemic Control Protocol: Contact Pharmacy to remove insulin from TPN with next bag change		
[R]	Nursing Communication	T;N, ICU Glycemic Control Protocol: Change Insulin drip every 24 hours		
[R]	Nursing Communication	T;N, ICU Glycemic Control Protocol: Comment: Discontinue ICU Glycemic Co protocol when patient is transferred from ICU, initiate standard sliding scale protocol unless otherwise indicated by MD. If patient eating an oral diet, begin g4hrs with Sliding Scale.		
[R]	Nursing Communication	T;N, ICU Glycemic Control Protocol: Call MD for IV fluids containing dextrose (patient not receiving TPN or enteral feedings) when blood glucose falls below i mg/dL and continue until insulin infusion is discontinued.		
[R]	Whole Blood Glucose Nsg (Bedside Glucose Nsg)	Routine, q1h(std), ICU Glycemic Control Protocol: Check bedside glucose resubefore starting insulin infusion. Change to q2h when blood glucose has remain in goal range for 4 hours. If blood glucose remains in goal range for 4 consecu q2h results (8 hours), may change bedside glucose to q4h. Resume q1h beds glucose any time the infusion is stopped and restarted, for any infusion rate change or change in nutrition infusion rates. Continuous Infusions		
[]	Dextrose 5% in Water	1,000 mL, IV, Routine, Comment: For use with ICU Glycemic Control Protocol.		
		Begin when blood glucose falls below 200 mg/dL and continue until insulin infu is discontinued. Infuse over,		
		1,000 mL, IV, Routine, Comment:For use with ICU Glycemic Control Protocol. Begin when blood glucose falls below 200 mg/dL and continue until insulin infu is discontinued. Infuse over		
	Dextrose 5% with 0.45% NaCl (D5 1/2NS)	1,000 mL, IV, Routine, Comment: For use with ICU Glycemic Control Protocol. Begin when blood glucose falls below 200 mg/dL and continue until insulin infusi is discontinued. Infuse over		
[R]	ICU Glycemic Control Insulin Infusion	100 units / 100 mL, IV, T;N, titrate, Comment: see Reference text for titration parameters. Hold Insulin if patient is out of ICU for a procedure. Restart upon return to ICU. Hold insulin infusion if TPN or continuous enteral feeds are stopp for any reason unless the patient is receiving another source of exogenous glucose (D5W, D10W). Resume insulin infusion when TPN/enteral feedings are resumed. Resume insulin at the previous rate if TPN/enteral feedings are resum at the previous rate. If TPN/enteral feedings are resumed at a different rate sta insulin protocol from the beginning.		
[R]	.ICU Glycemic Control Protocol ref text	See Reference Text, N/A, N/A, Routine		
[]	insulin regular	Medications units, Injection, IV Push, once, BOLUS, Comment: See ICU Glycemic		
	glucose (Dextrose 50% in water	Control Protocol reference text for dose 25 mL, Injection, IV Push, prn, PRN Other, specify in Comment, Routine,		
	Syringe) glucose (Dextrose 50% in water	Comment: As needed per ICU Glycemic Control Protocol 50 mL, Injection, IV Push, prn, PRN Other, specify in Comment, Routine,		
	Syringe)	Comment: As needed per ICU Glycemic Control Protocol		
[R]	Potassium Level	Laboratory STAT, T;N, once, Type: Blood, Nurse Collect, Comment: Obtain before starting ICU Glycemic Control Infusion		
		Consults/Notifications		
[]	Notify Physician-Once	T;N, Notify: Physician, Stat serum potassium (K+) before starting insulin infusion no recent K+ available. If K+ is <3.3 (if less than 2.8 if on HYPOTHERMIA protocol) call MD for K+ replacement orders before starting insulin infusion.		
[]	Consult Clinical Pharmacist	Start at: T;N, Special Instructions: D/C all previous insulin orders (including ins in TPN) and antidiabetic medications. Patient is on ICU Glycemic Control Protor verify patient is receiving a source of exogenous glucose, (tube feeds,D5,TPN) prior to starting insulin infusion.		

ICU Glycemic Control Reference Text RESTRICTION: Patients must be in an intensive care unit

- PHYSICIAN 1) Order " ICU Glycemic Control Protocol."
- 1) Order ICO stylerinic Control Protocol:
 2) Patients must have a blood glucose (BG) greater than 150 mg/dl x 2 measurements
 or ONE BG measurement greater than 180 mg/dL for Cardiovascular Surgery patients
 3) This is NOT for the treatment of diabetic ketoacidosis (DKA) or Hyperglycemic hyperosmolar syndrome (HHS). PHARMACIST 1) D/C all previous insulin orders (including insulin in TPN) and antidiabetic medication orders.

Verify patient is receiving some source of exogenous glucose (eg tube feeds, D5, TPN) prior to initiating infusion.
 Standard IV Insulin Infusion: 100 units Regular Human Insulin/100 ml NS (Final conc: 1 unit/ml)

NURSING

If patient has insulin in TPN, contact Pharmacy to remove insulin from TPN with next bag change.
 Stat serum potassium (K+) before starting insulin infusion, if no recent K+ available. If K+ is <3.3 (less than 2.8 if on HYPOTHERMIA protocol) call MD for K+ replacement orders before starting insulin infusion.
 Change insulin drip every 24 hours.
 Check bedside BG before starting infusion and Q1H. (ONLY utilize venous draw for BG monitoring in patient on HYPOTHERMIA protocol)

- 4) Check bedside BG before starting infusion and Q1H. (ONLY utilize venous draw for BG monitoring in patient on HYPOTHERMIA protocol)
 Change to Q2H accuchecks when BG has remained in the goal range for 4 hours.
 If BG remains within goal range for 4 consecutive Q2H accuchecks (8 hours), may decrease accuchecks to Q4H.
 5) Resume Q1H accuchecks any time the infusion is stopped & restarted, for any infusion rate change, or change in nutrition infusion rates.
 6) Document infusion rate and BG values on flow sheet.
 7) Call MD for Deartose containing IV fluid orders (f) patient not receiving TPN or enteral feedings) when blood glucose falls below 200 mg/dl and continue until insulin infusion is discontinued.
 8) HOLD insulin infusion when TPN enteral feedings are resumed.
 Resume insulin at the previous rate if TPN enteral feedings are resumed.
 Resume insulin infusion if patient is out of the ICU for a procedure. Restart upon return to ICU.
 10) Discontinue (CU and initiate standard insulin sliding scale orders unless otherwise indicated by MD.
 Patient is transferred from the ICU and initiate standard insulin sliding scale.

PT ICU Glycemic Control Protocol-23026-QM0509

Target range: serum glucose 100 to 150 mg/dL								
	sulin Infusion:							
ICU Bed Blood Glucose greater than 150mg/dl for two measurements								
blood Glucose greater than Toollig/di for two measurements								
OR ANY Blood		•	ovascular Surgery pati					
Glucose:	151-190 mg/dL	191-240 mg/dL	241-300 mg/dL	301-400 mg/dL	greater than 400 mg/dL			
IVP Bolus:	2 units	4 units	6 units	10 units	14 units and Call MD			
Initial Rate:	1 units/hr	2 units/hr	3 units/hr	4 units/hr	5 units/hr			
	Infusion rate as follow	/S:						
Glucose	Interventions							
less than or	DC infusion and give 50mL D50 IVP: Call MD and recheck glucose in 15 min.							
equal to 60	1. If glucose remains less than 60 mg/dL, repeat 25 mL D50 IVP every 15 minutes until glucose is greater							
mg/dL	than 100 mg/dL.							
	 When glucose is greater then 125 mg/dL, restart infusion at 1/2 the previous rate (rounded to the nearest whole unit. 							
61-99 mg/dL		ock alucose in 1 br						
or-ss mg/u∟	D/C infusion and recheck glucose in 1 hr. 1. If glucose remains less than 80 mg/dL, give 25 mL D50 IVP every 15 minutes until glucose is greater than 100 mg/dL and call							
MD. 2. When glucose is greater than 125 mg/dL, restart insulin infusion at 1/2 the previous r					te (rounded to the			
	nearest whole unit).	J ,						
Glucose	Interventions							
Target Range								
100-150 mg/dL								
	e rate by 50% (1/2 the previous rate,							
	rounded to the nearest whole unit)							
Oliveran								
Glucose 151-180 mg/dL	Titration Increase infusion by 1	1 unit/br						
181-210 mg/dL	,							
211-250 mg/dL								
251-290 mg/dL								
291-340 mg/dL	Increase infusion by 5							
341-400 mg/dL	Increase infusion by 6							
greater than	morease initiation by c	J dilletti						
400mg/dL**	Increase infusion by 7	7 unit/hr						
U 1			1 400mg/dL after 1 h	our - CALL MD				
**If greater than 400mg/dL after 1 hour - CALL MD Special Considerations/Interventions								
			us reading at anytime	. decrease rate by 5	0% (round to the nearest whole unit)			
1. If glucose drops by more than 100 mg/dL from previous reading at anytime, decrease rate by 50% (round to the nearest whole unit) and recheck glucose in 1 hr.								
2. If glucose drops by more than 50 mg/dL from previous reading at anytime, decrease rate by 25% (round to the								
	unit) and reak all all		· · · · · · · · · · · · · · · · · · ·	···· · ·· · ··· · ····················	•			

nearest whole unit) and recheck glucose in 1 hr.