

Post Cardiac/Critical Care Insulin Infusion Advisor

The Post Cardiac Insulin Infusion Advisor and Critical Care Insulin Infusion Advisor are tools that should be used in managing glucose control through the administration of an insulin drip for any post cardiac surgery patient and critical care patient. They review documentation as well as lab results to recommend the appropriate action to nursing staff so that patients maintain an acceptable glucose level. The advisor will also account for mealtime dosing of supplemental insulin with subcutaneous orders and is recommended to run for a course of 48 hours.

How to Initiate the Insulin Infusion Advisor

Order Critical Care Advisor

< - A Orders	
🕂 Add 🍶 Document Medication by Hx Reconciliation 🕶 🚴 Cl	heck Interactions
Orders Medication List	
Search for "Critical Care Insulin Infusion Advisor"	Search: crit Advanced Options 👻 Typ
The Advisor will open as soon as you click the order.	Critical Care Admission
Diagnosis (Problem) being Addressed this Visit	Critical Care Insulin Infusion Advisor
Diagnosis (Froblem) being Addressed this Visit	Ane Critical Care Services for Each add 30 min

Order Post Cardiac Surgery Advisor

< > • 🏦 Orders		
Add @ Document Medication by Hx Reconciliation • > C Orders Medication List	Check Interactions	
View Diagnoses & Problems Diagnoses (Problems	Search: post cardiac sur Post Cardiac Surgery In: "Enter" to Search	Advanced Options V Type: 🔂 Inpatient
Add Source Display: Active Active Add Annotated Display: Code	 Anesthesia Cardiology Cardiothoracic Surgery Common Rads - CT Common Rads - MRI Common Rads - US ENT Gastroenterology General Surgery Infectious Disease Medicine 	Search for "Post Cardiac Surgery Insulin Infusion Advisor". The Advisor will open as soon as you click on the order. Comprenensive metabolic Panel Culture Blood Hemoglobin and Hematocrit Hepatic/Liver Function Panel



Address Questions

KHAN, TEST EMR: DHL2354253 ENR: DHL0000000654984	DOB: 12/20/1990 (24 Years) Sex: Male	Visi Loc: Atte	t Type: Inpatient ation: DHL MED1 0149-A nding: CERNER		
Critical Care Insulin Infusion Protocol				2	2
The patient is:			Patient Data		
Patient is: Diabetic, Insulin Treated			Vital Signs		
What type of insulin would you like to give with Use mealtime insulin: Insulin Aspart Orders for Signature	meals? Cancel	Sign	Temperature Blood Pressure Heart Rate Respiratory Rate		63 Kg
The above two questions must be	Communication Type:	~	Labs		
They help to determine the correct			BMP		
track in the algorithm to use as well as the insulin to be used to cover the			Magnesium Phosphorous		
glucose.			ABG		
Click Sign to complete the order.			VBG		
			Lactate		
			Home Medications		

Workflow for Using the Insulin Infusion Advisor



- When the clinician logs into PowerChart or refreshes the screen the protocol displays in the TOC (Table of Contents).
- When a new blood glucose is resulted, the protocol tab turns yellow with a flag.
- Click the tab to open the Advisor.
- Verify the information displayed is the correct current information.
- The Advisor will display the recommended action to take based upon the information and the ordered track.
- Check the box next to any needed new orders and click sign to place the order.



Post Cardiac/Critical Care Insulin Infusion Advisor

Forming Universal Solutions by Integrating Our Network

KHAN, TEST Allergies: No Known Allergies Enc Type: Inpatient Admit Dt: 10/14,	Image: Critical Care Insulin Infusion Protocol Advisor Image: Amage:				
S B A R	KHAN, TEST EMR: DHL2354253 FIN: DHL0000000654984	DOB: 12/20/1990 (24 Years) Sex: Male	Visit Type: Inpatient Location: DHL MED1 0149-A Attending: CERNER	<u> </u>	
Results Review IView with IO Orders Insuin Protocol: Critical Care	Glucose (current) 150 mg/dL	Glucose (previous 1 hour) 08/07 08:14 08/06 14:43 (1051 minutes prior)	Patient Vital S Weight Termore	65 kg	
Any time a new glucose r or a meal is documented. Protocol section in the Ta of Contents will turn yello	n Rate 2 units/hr esult The ble W. ent Care	Vou MUST verify that all of the information is the most current and up to date to allow the algorithm to process correctly. If the patient has just eaten a meal, please chart the meal in IView, and then click Confirm.	Heart Rate Respiratory Rate Oxygen Saturation		
Allergies Histories Patient Information	Orders for Signature	Cancel Sign	BMP 08/07/2015 Glucose 150 Sodium	08:14 ^{mg/dL} ≡	

If the information is NOT correct in the current information section, staff must exit the advisor and update the Insulin drip rate in IView - IV Titrations (Vitals Quick View band) and dock the Glucometer to send the updated results to the chart.

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ZZTEST, CABG EMR: STM000555 27065981 FIN: STM0000000000555 37746326	DOB: 01/01/1970 (45 Years) Sex: Male	Visit Type: Inpatient Location: STM ICU 353-A Attending: Hanna MD, Eh	reload(WL)
Post Cardiac Surgery Insulin Infusion 1	Protocol		9 2
Insulin Management		Patient Data	
Glucose (current) 180 mg/dL 08/10 15:2: Insulin Rate 5 units/hr 08/07 12:00 Meal Chart Meal	Glucose (previous 1 hour) O 180 mg/dL 08/07 13:05 (4458 minutes prior) O 200 mg/dL 08/07 13:02 (4461 minutes prior) O	Vital Signs Weight Temperature Blood Pressure Heart Rate Respiratory Rate Oxygen Saturation	100 kg 38 DegC 145 / 80 mmHg 76 bpm 18 br/min 93 %
Patient Care		Labs	
Fingerstick q1H Interval Orders for Signature	Cancel Sign	BMP Glucose Sodium Potassium Chloride CO2 Anion Gap BUN Creatinine Magnesium Phosphorous Lactic Acid Magnesium Phosphorous ABG	08/06/2015 10:19 350 mg/dL 142 mmol/L 108 mmol/L 24 mmol/L 10 16 mg/dL 1.40 mg/dL 2.0 mg/dL 2.0 mg/dL



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If there are multiple glucoses resulted within the hour time frame, the advisor will not default a selection of the previous glucose, as you can see here. The nurse must select which glucose they would like the advisor to evaluate in order to activate the confirm button.

Critical Care Insulin Infusion Protocol Advisor				-0	
KHAN, TEST EMR: DHL2354253 FIN: DHL0000000654984	DOB: 12/20/19 Sex: Male	90 (24 Years)	Visit Type: Location: Attending:	Inpatient DHL MED1 CERNER	0149-A
Critical Care Insulin Infusion Protocol				۲	æ
Insulin Management	61 T 1		Patient Data		
Glucose 150 mg/dL	Glucose 6/24 19:19	200 mg/dL	Vital Signs		
Insulin Drip Rate 1 units hr	Glucose 6/24 09:25 Glucose 6/22 18:39	50 mg/dL 230 mg/dL	Weight	1	100 kg
Meal (Breakfast) 40 %	Glucose 6/22 18:22	190 mg/dL	Blood Pressure		
Confirm			Respiratory Rate		
Recommendation:			Oxygen Saturation		
Hold insulin drip			Labs		
Administer Insulin SubQ dose: 2 units				06/22/2015	18:17
Mealtime Dose	The advisor will then r	ecommend a IV rec	commendation which	175 140 m	mg/dL umol/L
e insum Aspan - Chins Subcutateous Once	meal was documente	d. By checking the t	pox next to the Insulin	4.3 m	umol/L
Patient Care	Aspart and signing, t	his will place the ord	fer to administer the	20.0 m	umol/L umol/L
Fingerstick q1H Interval		SubQ Insulin.		8 =	amol/L
Orders for Signature	Cancel	Sign	BUN	1.5	mg/dL mg/dL
			Magnesium	0.90	

How to Discontinue Insulin Infusion Advisor

Along with discontinuing IV insulin infusion, it is recommended that you also discontinue the Insulin Infusion Protocol. This order can be found under the medications category.

Protocols (Critical Care Ordered Protocol, IV, As Directed, Start date: 08/06/15 14:42:45 CDT Insulin Infusion Proto Protocol, IV, As Directed, Start date: 08/06/15 14:42:45 CDT Insulin Infusion Proto Ordered 1 inch, Ointment, Topical, q6H, Duration: 30 Days, First Dose: Routine, Start date: 07/22/15 18:00:00 CDT, Stop date: 08/21/15 12:00:00 CDT Include 10-12 hr nitrate free interval daily.	⊿	Medications		
Introglycerin Ordered 1 inch, Ointment, Topical, q6H, Duration: 30 Days, First Dose: Routine, Start date: 07/22/15 18:00:00 CDT, Stop date: 08/21/15 12:00:00 CDT Include 10-12 hr nitrate free interval daily.			Protocols (Critical Care Ordered Insulin Infusion Proto	Protocol, IV, As Directed, Start date: 08/06/15 14:42:45 CDT
(nitroglycerin 2% topi Include 10-12 hr nitrate free interval daily.		M 🌮 🐂	nitroglycerin Ordered	1 inch. Ointment. Topical. d6H. Duration: 30 Days. First Dose: Routine. Start date: 07/22/15.18:00:00 CDT. Stop date: 08/21/15.12:00:00 CDT
		0044	(nitroglycerin 2% topi	Include 10-12 hr nitrate free interval daily.

*This order does not require pharmacy verification

- 1. Find the protocol order under Medications.
- 2. Right-click
- 3. Select Cancel/Discontinue from the options shown.
- 4. Enter the reason for discontinuing the protocol, if appropriate.
- 5. Click Orders for Signature
- 6. Click Sign.