CARE4 Tip Sheet – WebAcute, Web ED and OM Hyperglycemia Management Order Set

Overview

The purpose of this tip sheet is to highlight some steps to include when ordering insulin for basal bolus correction for adults in the acute inpatient setting.

Select the order set for Hyperglycemia Management from the Orders tab. Aliases have been added for an easy look up (Insulin, Subcut Insulin, Sliding Scale).

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Orders SUBMIT 2										2		
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C O = > Hyperglycemia Management										☆		
🛅 📭 > Subcut Insulin [Hyperglycemia Management]												

The first order when opening the order sets is the POC (Point of Care) Capillary Blood Glucose. Multiple monitoring times are displayed for your selection. If more frequencies need to be displayed, select the ^(a) button to expand the options.

POC Capillary Blood Glucose							
BEDTIME							
Q1DX3							
Physician Instructions	x 3 days at 0200						
Q4HR							
TIDAC							

Most patients should receive scheduled and supplemental/correction insulin. The scheduled insulin (Basal and Prandial) is listed with the appropriate frequencies. Enter the dose (units) on the selected scheduled time.

*****Important Note:** If the patient doesn't require any insulin dose during certain time of the day, DON'T enter a "0 Dose". Only select the dose on the times that the patient needs one and edit the order as necessary.



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SoloStar]			
s SoloStar] 5 unit SUBCUT BEDTIME SCH 🔳	16/09/2021 21:00	STOP DATE	New
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ting			
G KwikPen]			
G KwikPen]3 unit subcut QAMCC SCH 🕕 🗐	16/09/2021 08:00	STOP DATE	New
Give 15 minutes before meal			
	A SoloStar] Sunit SUBCUT BEDTIME SCH	Agement SoloStar] SoloStar] SoloStar] 5 unit SUBCUT BEDTIME SCH SoloStar] SoloStar] 5 unit SUBCUT BEDTIME SCH SoloStar] Sol	nagement

If a correctional (supplemental) insulin dose is required open the Correctional (Supplemental) Insulin section where different regimens (low, medium, or high) are available for ordering.

Q≣ ∨ Hyperglycemia Management 💽 💽	Clear Al	· 👘 🖌	2
✓ Medications			
Correctional (Supplemental) insulin			
Avoid the routine use of Correctional (Supplemental) insulin (i.e. "sliding scale") ALONE for glycemic control, as it can lead to suboptimal glucose control. In correctional insulin should be used as part of an insulin regimen that includes basal and prandial/meal-time insulin.	nstead, 😭		
Frequent use of Corrective Insulin Scale suggests a need to modify the basal and/or nutritional insulin doses.			
If Correctional (Supplmental) insulin is used with Prandial insulin, both insulins should be the same type/brand Suggested frequency is before meals with or without bedtime dosing, or every 4-6 hours			
> insulin lispro [HumaLOG KwikPen] (Low-dose) Similar Order Selected			
> insulin lispro [HumaLOG KwikPen] (Med-dose) Similar Order Selected			
> insulin lispro [HumaLOG KwikPen] (High-dose) Similar Order Selected			
> insulin regular [HumuLIN R KwikPen] (Low-dose)			
> insulin regular [HumuLIN R KwikPen] (Med-dose)			
> insulin regular [HumuLIN R KwikPen] (High-dose)			

The dose string will display the content of the standard regimen.

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✓ Medicat	ions								
✓ insulin	insulin lispro [HumaLOG KwikPen] (Low-dose) Similar Order Selected								
See Pro	tocol SUBCUT TIDAC SCH 🕐	0							
Protocol		insulin Corrective I	low-Dose Regimen						
	Conditi	on	Dose/Route	Instruction					
	If Blood Glucose : Correction insulin dose : less than 4 mmol/L Give 0 unit								
			Give 0 unit	Initiate Hypoglycemia Protocol					
	4-10 mmol/L		Give 0 unit	Give only SCHEDULED insulin dose					
	10.1-12 mmol/L		Give 1 unit	in addition to SCHEDULED insulin dose					
	12.1-16 mmol/L		Give 2 units	in addition to SCHEDULED insulin dose					
	16.1-18 mmol/L		Give 3 units	in addition to SCHEDULED insulin dose					
	18.1-20 mmol/L		Give 4 units	in addition to SCHEDULED insulin dose					
	above 20 mmol/L	above 20 mmol/L		Contact MRP for orders					
Protocol Te:	×t	Low Dose (Insulin-	Sensitive) Correction Sliding	g Scale is for usual total daily insulin requirement is less than 40 ur	nits/day				
Notify MRP	if BG is above 20 mmol/L,								



As the regimen has standard conditions, doses, and administration instructions, **it is advice not to edit it.** However, If the regiment needs to be adjusted, you must select the order first.

-	Q ≣ ∨ Hyperglycemia Managem	ent 🕶 💿			Clear All	*
	✓ Medications					
	✓ insulin lispro [HumaLOG Kwik See Protocol SUBCUT BEDTIME S	Pen] (Med-dose) сн 🕑 🖩	16/09/2021 21:00	STOP DATE	New	
	Label Comments					
	Dose Instruction				•	

On the selected order, the regimen has been defaulted. Select the e to open the scale and hover over the item that needs to be edited.

CURRENT		ENTER				SUR,Wo
CORRENT	Edit Protocol				Cance	Save HC
Favorites 💌 Sort	insulin lispro [HumaLOG Ki Start: 16/09/2021 21:00	wikPen] (Med-dose) See Pro Stop:	otocol SUBCUT BEDTIME			OR
0 ≣ ∨ Hyperglycem	*Protocol	insuli	n Corrective Med-Dose HS Regimen		•	
✓ Medications		Condition	Dose/Route	Instruction		/21
See Protocol SUBC		If Blood Glucose :	Correction insulin dose :		×	
Label Comments		less than 4 mmol/L	Give 0 unit	Initiate Hypoglycemia Protocol	×	- 18
		4-10 mmol/L	Give 0 unit	Give only SCHEDULED insulin dose	×	
Dose Instruction		10.1-14 mmol/L	Give 1 unit	in addition to SCHEDULED insulin dose	×	igr
\geq		14.1-16 mmol/L	Give 2 units	in addition to SCHEDULED insulin dose	×	0
See Protocol SUBC		16.1-20 mmol/L	Give 3 units	in addition to SCHEDULED insulin dose	×	- 15
Protocol		above 20 mmol/L	Contact MRP for orders		×	Ma
If Bloo less th 4-8 m	Protocol Text	Mediu	um Dose (Standard) Correction Sliding	g Scale is for usual total daily insulin requirement	nt is 40-80 units/day	s vata

Selection of the appropriate regimen can also be done by clicking on the "Protocol" drop down menu. It will display all the different standardized regimens available in the system.

	CAITER							
Edit Protocol							Cancel	Save
insulin lispro [HumaLOG K Start: 16/09/2021 21:00	(wikPen] (High-dose) Stop:	See Protocol	SUBCUT BEDTIME					
*Protocol	Conditio If Blood Glucose : less than 4 mmol/L 4-8 mmol/L	insulin Corr insulin Corr insulin Corr insulin Corr insulin Corr insulin Corr insulin Corr insulin Corr insulin Ind	ective High-Dose HS Regin rective High-Dose HS Regin rective High-Dose Regimi rective Low-Dose HS Reg rective Low-Dose HS Reg rective Med-Dose HS Reg rective Med-Dose Regime ividualized Correction Sca Protocols Q	nen gimen en en gimen en sle	nstruction mia Protocol	×	•	Î
	8.1-10 mmol/L 10.1-12 mmol/L		Give 1 unit Give 2 units	in addition to	SCHEDULED insulin d SCHEDULED insulin d	ose ×		
	12.1-14 mmol/L 14.1-16 mmol/L		Give 3 units Give 4 units	in addition to	SCHEDULED insulin d SCHEDULED insulin d	ose X		
	16.1-18 mmol/L		Give 6 units Give 7 units	in addition to	SCHEDULED insulin d SCHEDULED insulin d	ose ×		



There is also an **Insulin Individualized Correction Scale** if customization on the conditions, dose and instructions is required.

	ENTER							
Edit Protocol							Cancel	Save
insulin lispro [HumaLOG K Start: 16/09/2021 21:00	wikPen] (High-dose) Stop:	See Protocol :	SUBCUT BEDTIME					
*Protocol		insulin Indiv	idualized Correction Scale				•	Î
	Condition	*	Dose/Route*	I	nstruction			- 1
	If Blood Glucose :		Correction insulin dose :			×		- 1
	less than 4 mmol/L		Give 0 unit	Initiate Hypoglyce	mia Protocol	×		- 1
	mmol/L		Give unit	Give only SCHEDU	LED insulin dose	×		- 1
	above 20 mmol/L		Contact MRP for orders			×		- 1
						×		- 1
								- 1
Protocol Text		Please fill in	Protocol table for individualize	ed correction scale				- 1
5								- 1
R.								

If more fields are need, click Enter on the last completed field and it will add more fields. To remove unnecessary fields, click on the X button.

	Edit Protocol					Cancel	Save
ort	insulin regular [HumuLIN R Start: 16/09/2021 16:30	KwikPen] (High-dose) Se Stop:	e Protocol SUBCUT TIDAC				
em	*Protocol	insul	in Individualized Correction Scale			•	A
		Condition*	Dose/Route*	Instruction			. 1
abo		If Blood Glucose :	Correction insulin dose :		×		- 1
ar [less than 4 mmol/L	Give 0 unit	Initiate Hypoglycemia Protocol	×		- 1
υвс		mmol/L	Give unit	Give only SCHEDULED insulin dose	×		- 1
				XXXX	×		- 1
				xxxxx	×		- 1
				XXXXX	×		- 1
							- 1

Additional to the Hyperglycemia Management options, the **Hypoglycemia protocol** has been added within the same set. Once it is selected, it will reflex the orders for the treatment of the hypoglycemia episode. All orders are preselected to avoid errors and, are part of the Protocol that contains specific instructions for the nurses to follow in case of a hypoglycemic event.



Hypoglycemia Management	
As Per Protocol Per Protocol Poc Capillary Blood Glucose Poc Capillary Blood Glucose As Per Protocol Reflex 16/09/2021 15:53 Poc Capillary Blood Glucose As Per Protocol Reflex 16/09/2021 15:53 Poc Capillary Blood Glucose Poc Note: Protocol Reflex 16/09/2021 15:53 Poc Note:	
Pecfexed Orders from Protocol Hypoglycemia Management (Hyperglycemia Management) Hypoglycemia Management Hypoglycemia Management POC Capillary Blood Glucose As Per Protocol Reflex 16/09/2021 15:53 PRN Conscious and not NPO Wild-Moderate Hypoglycemia: Nod Glucose 3.0-3.9 mmol/L dextrose [Dex4 Fast Acting Glucose Liquiblast] Similar Order Selected	
Hypoglycemia Management POC Capillary Blood Glucose As Per Protocol As Per Protocol Physician Instructions For hypoglycemia protocol PRN VConscious and not NPO Wild-Moderate Hypoglycemia: Wild-Moderate Hypoglycemia: Used Glucose 3.0-3.9 mmol/L dextrose [Dex4 Fast Acting Glucose Liquiblast] Similar Order Selected Instruction (Day G Link Acting Clucose Liquiblast] Similar Order Selected	Deselect
POC Capillary Blood Glucose As Per Protocol Reflex 16/09/2021 15:53 hysicien Instructions For hypoglycemia protocol PRN PRN Vide-Moderate Hypoglycemia: Vide-Moderate Hypoglycemia: Nide-Glucose 3.0-3.9 mmol/L Vide-Moderate Atting Glucose Liquiblast] Similar Order Selected Idextrose [Dav4 Fast Acting Glucose Liquiblast] Similar Order Selected Vide-Moderate Hypoglycemia	
As Per Protocol Reflex 16/09/2021 15:53 thysician Instructions For hypoglycemia protocol PRN V Conscious and not NPO Wild-Moderate Hypoglycemia: slood Glucose 3.0-3.9 mmol/L v dextrose [Dex4 Fast Acting Glucose Liquiblast] Similar Order Selected	
PrN	
PRN Conscious and not NPO Mild-Moderate Hypoglycemia: Blood Glucose 3.0-3.9 mmol/L dextrose [Dex4 Fast Acting Glucose Liquiblast] Similar Order Selected	
✓ Conscious and not NPO Mild-Moderate Hypoglycemia: alood Glucose 3.0-3.9 mmol/L ✓ dextrose [Dex4 Fast Acting Glucose Liquiblast] Similar Order Selected	
Mild-Moderate Hypoglycemia: alood Glucose 3.0-3.9 mmol/L < dextrose [Dex4 Fast Acting Glucose Liquiblast] <u>Similar Order Selected</u>	
Slood Glucose 3.0-3.9 mmol/L A dextrose [Dex4 Fast Acting Glucose Liquiblast] Similar Order Selected A dextrose [Dex4 Fast Acting Glucose Liquiblest] 15 = 0.0 0000000 1000	
dextrose [Dex4 Fast Acting Glucose Liquiblast] <u>Similar Order Selected</u>	
destance [Devid End Advance Liquidates] 15 - 20 PORTONI (201	
C dextrose [Dex4 Fast Acting Glucose Liquidiast] 15 g PO PROTOCOL PRN	

To see the content of the Protocol, click on the P and it will display the full document. This is a non-editable document.

Ð≣ ∨ Hyperglycemia Management					Clear All	*			
V Medications									
Hypoglycemia Management									
> Protocol Hypoglycemia Managemen	> Protocol Hypoglycemia Management								
As Per Protocol	P	New	16/09/2021 15:51						
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View Protocol	Cancel	Save	
Protocol Hypoglycemia Management As Per Protocol Start: 16/09/2021 15:51 Stop:			
B i U >			
Hypoglycemia Protocol ++THIS PROTOCOL MUST BE ORDERED (EITHER BY A PHYSICIAN OR MEDICAL DIRECTIVE) PRIOR TO UTILIZATION++			•
If Patient is <u>CONSCIOUS</u> and <u>NOT NPO:</u> Mild-Moderate Hypoglycemia: Blood Glucose 3.0-3.9 mmol/L Administer the followina:			
dextrose 15 grams (60mL) or 1 bottle of carbohydrate (CHO) glucose drink (Ex: Dex4 Liquidblast) orally as needed			
Nursing Interventions			
 Treat immediately after point of care testing (POCT) Repeat glucometer reading 15 minutes after administering treatment If blood glucose less than 4 mmol/L, may repeat x 1 dose (max 2 doses) Notify Provider if blood glucose remains less than 4 mmol/L after second dose 			
 Repeat glucometer reading every 15 minutes until blood glucose greater than 4 mmol/L without symptoms. 			
Severe Hypoglycemia: Blood glucose 2.9 mmol/L or lower		•	•

Laboratory, Consults and Referrals orders have been also added to the Hyperglycemia Management Order set at the bottom for a quick selection when needed.

