

# PATIENT CARE ORDERS Please use black ink ballpoint po

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Weight (kg)	Known Adve	erse Read	ctions or Int		3							TRANSCRIPTION
	FOOD [	] No	☐ Ye:	s (list)								
	LATEX	l No	☐ Ye:	· ·								
Diabetes Management – Subcutaneous Insulin Therapy											1	
	Patient Eating Order Set (Adult)											
***See Suggestions for Management on Reverse***										-		
***Non-insulin antihyperglycemic agents or corticosteroid therapy may impact glycemic control***												
Capillary Blood Glucose Monitoring												
Before breakfast, lunch, supper 2200 h and PRN												
Scheduled Insulin  • Discontinue all previous insulin orders												
Discontil					efore Lu	nch	Before	Supper		At 220	00 h	
Nutritiona	al Give	)	_ units	Give	∋ u	nits	Give	units				
(Bolus) Insulin:		utane			cutaneou		subcutar		F09/	of the	maal au	
Insulin:  Aspart  If it is anticipated that the patient will not eat more than 50% of the meal or is NPO, do not give mealtime insulin												
Basal												
Insulin:												
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Correction Dose Insulin Algorithms												
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Insulin Re	sistant:		ients re	quiring	80 units	or mor		eduled ins	ulin/c		::	
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12.1 to	14.0	4		2	6	3	8	4				
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20.1 to		10		5	12	6	14	7				Pharmacy Use Only:
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Prescriber Printed Name Designat		ıtion	Signatu	ire		Date (YYYY	//MM/DI	D) Time	(HHMM):	Page 1 of 1		

#### SUGGESTIONS FOR MANAGEMENT OF HYPERGLYCEMIA IN NON-CRITICALLY ILL HOSPITALIZED PATIENTS

#### Insulin requirements can be broken down into:

## **Scheduled Insulin**

Doses of insulin given on a consistent basis

There are 2 types:

#### Basal insulin:

• long-acting insulin required in all patients with type 1 diabetes and most patients with type 2 diabetes to maintain euglycemia, even when NPO (hepatic gluconeogenesis can serve as a continuous source of blood glucose).

#### Nutritional (or bolus) insulin:

- rapid-acting insulin given just before a meal in anticipation of the glycemic spike that occurs due to carbohydrate ingestion
- this dose is given even when the blood glucose is in the normal range

# Correction (or Supplemental) Insulin

Rapid-acting insulin that is given in addition to scheduled nutritional insulin (or given at other times of the day) as a response to unusual hyperglycemia.

If correction dose insulin is required, the patient would likely benefit from an increase in the total daily dose the following day.

If the patient is admitted with good control on insulin therapy, continue their usual insulin regimen and adjust as necessary

#### Selecting a Basal-Bolus Regimen in an Eating Patient Previously not on Insulin

#### Step 1. Calculate starting total daily dose (TDD) of insulin:

Use 0.3 units/kg/day if patient has "insulin sensitivity" [lean or malnourished patients, elderly, acute or chronic kidney disease (especially dialysis-requiring)]

Use 0.4 units/kg/day in "usual" patients (no features of insulin sensitivity or insulin resistance)

Use 0.5 - 0.6 units/kg/day if patient has "<u>insulin resistance</u>" (obese patients or receiving high doses of glucocorticoids) Adjust TDD up or down based on:

Past response to insulin

Presence of hyperglycemia inducing agents, stress

# Step 2. Determine scheduled insulin dose:

Divide TDD to 50% basal, 50% bolus

Divide bolus insulin by 3 and give before each meal

<u>Basal Insulin:</u> use non-peaking, longer-acting insulin as it provides continuous insulin action, even when the patient is fasting. Glargine or determined the patient is fasting.

Nutritional (also called bolus, prandial or mealtime) insulin: Rapid-acting insulin (aspart) is preferred.

## Step 3. Select an appropriate correction (supplemental) insulin scale AC meals:

Correction (supplemental) insulin: usually rapid-acting insulin (the same as the nutritional insulin). Frequent use suggests a need to modify the basal and/or nutritional insulin doses.

Initially select the Correction Insulin scale that matches the category used to calculate the starting TDD of insulin (i.e., "insulin sensitive", "usual", "insulin resistant")

Adjust the Correction Insulin Scale as needed:

- Increase from "insulin sensitive" to "usual" or "usual" to "resistant" if fasting and pre-meal BG are persistently greater than 8.0 mmol/L and no hypoglycemia
- If hypoglycemia, decrease from "insulin resistant" to "usual" or from "usual" to "insulin sensitive"

#### Example:

80 kg obese woman

Step 1: TDD = 80 kg x 0.5 units/kg/day = 40 units

Step 2: Give 50% basal (20 units), 50% bolus (20 units)

Basal: insulin glargine or detemir 20 units typically given at 2200 h

Bolus: insulin aspart 7 units (20 ÷ 3) before each meal

Step 3: Select "Usual Algorithm" Correction Insulin Scale as total daily dose of scheduled insulin per day is 40 units

# For Patients Previously Controlled on Oral Antihyperglycemics

May use correction dose algorithm alone for patient with type 2 diabetes in addition to oral antihyperglycemic agents.