How to Calculate Insulin Dosage from a Corrective Scale

Step 1:

Enter your patients Mar, select the medication to be administered by scanning the medication. Scan and verify your patient.

Step 2:

Part 1: Identify which scale (A or B) should be used based on how many carbohydrates have been eaten.

Part 2: Identify the amount of insulin to be administered by reviewing the corrective scale.

For example: if your patients finger stick blood sugar (FSBS) was 253 and they have eaten their breakfast with 30 grams of carbohydrates then they would need to receive 5 units of insulin.

How to Calculate Insulin Dosage from a Corrective Scale

Step 1:

Enter your patients Mar, select the medication to be administered by scanning the medication. Scan and verify your patient.

Medication	Start	Stop	Status
Insulin Aspart See Protocol CARB COVERAGE 1:5 Trade: NovoLOG Flexpen Give: See Protocol Dose Instructions: Give 1 Unit of Aspart for Every 5 GM CHO Eaten At Meals	XX/XX/XX 0800		Active

Step 2:

Review Dose Instructions to identify the ratio for insulin amount to carbohydrates eaten.

Medication	Start	Stop	Status
Insulin Aspart See Protocol CARB COVERAGE 1:5 Trade: NovoLOG Flexpen Give: See Protocol Dose Instructions: Give 1 Unit of Aspart for Every 5 GM CHO Eaten At Meals	XX/XX/XX 0800		Active

Step 3:

Verify how many carbohydrates have been eaten at the meal.

Step 4:

Divide the number of carbohydrates eaten by the number provided in the Dose Instructions to give you the total units of insulin required.

For example: if your patient has eaten their breakfast totaling 30 grams of carbohydrates then they would need to receive 6 units of insulin. 30 CHO/ 5= 6 units.

Medication	Start	Stop	Status
Insulin Aspart See Protocol CARB COVERAGE 1:5 Trade: NovoLOG Flexpen Give: See Protocol Dose Instructions: Give 1 Unit of Aspart for Every 5 GM CHO Eaten At Meals	XX/XX/XX 0800		Active

Practice Questions

Medication	Start	Stop	Status
Insulin Aspart See Protocol SUBCUT TID.WITH.MEALS SCH Trade: NovoLOG Flexpen Give: See Protocol **Dose Instructions:** SEE PROTOCOL **Label Comments:** *TI FOR HUMALOG,APIDRA * 28 DAY EXPIRATION *HIGH RISK MEDICATION-USE WITH CAUTION* *NAME IS SIMILAR TO OTHER MEDS, USE CAUTION*	12/04/17 12:00		Active

Protocol	None

Condition	Dose/Route	Instruction
Corrective Scale #2 (TDI 26-50 UNITS)		
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Fingerstick Blood Glucose	Insulin Units	
150-199 mg/dl	Scale A = 2 unit/ Scale B = 1 unit	
200-249 mg/dl	Scale A = 3 unit/ Scale B = 1 unit	
250-299 mg/dl	Scale A = 5 unit/ Scale B = 2 unit	
300-349 mg/dl	Scale A = 7 unit/ Scale B = 3 unit	
350-400 mg/dl	Scale A = 8 unit/ Scale B = 4 unit	
Greater than 400 mg/dl	Scale A = 9 unit/ Scale B = 4 unit	Call Provider

Protocol Text	USE SCALE A WHEN MEAL OF 30 OR MORE CHO EATEN OR WHEN TUBE FEED/TPN RUNNING. USE SCALE B WHEN NPO, MEAL OF <30GM CHO EATEN, TUBE FEED/TPN NOT RUNNING, AND HS. *NOT APPROPRIATE TO USE SCALE IF LESS THAN 3 HOURS SINCE PREVIOUS MEAL AND SCALE DOSE*

1. Your patients FSBS was 99 and they have eaten their breakfast with 30 grams of carbohydrates then they would need to receive how many units of insulin? _____

2. Your patients FSBS was 300 and they have eaten their breakfast with 30 grams of carbohydrates then they would need to receive how many units of insulin? _____

3. Your patients FSBS was 288 and they have eaten their breakfast with 20 grams of carbohydrates then they would need to receive how many units of insulin? _____

4. Your patients FSBS was 488 and they have eaten their breakfast with 30 grams of carbohydrates then they would need to receive how many units of insulin? _____

5. Your patients FSBS was 249 and they have refused breakfast then they would need to receive how many units of insulin? _____

Medication	Start	Stop	Status
Insulin Aspart See Protocol CARB COVERAGE 1:5 Trade: NovoLOG Flexpen Give: See Protocol Dose Instructions: Give 1 Unit of Aspart for Every 5 GM CHO Eaten At Meals	XX/XX/XX 0800		Active

6. Your patient has eaten their breakfast totaling 25 grams of carbohydrates then they would need to receive how many units of insulin? _____

7. Your patient has eaten their breakfast totaling 40 grams of carbohydrates then they would need to receive how many units of insulin? _____

8. Your patient has eaten their breakfast totaling 35 grams of carbohydrates then they would need to receive how many units of insulin? _____

9. Your patient has eaten their breakfast totaling 5 grams of carbohydrates then they would need to receive how many units of insulin? _____

10. Your patient has eaten their breakfast totaling 25 grams of carbohydrates then they would need to receive how many units of insulin? _____

You have two insulin orders for the next 5 questions.

Medication	Start	Stop	Status
Insulin Aspart See Protocol SUBCUT TID.WITH.MEALS SCH Trade: NovoLOG Flexpen Give: See Protocol **Dose Instructions:** SEE PROTOCOL **Label Comments:** *TI FOR HUMALOG,APIDRA * 28 DAY EXPIRATION *HIGH RISK MEDICATION-USE WITH CAUTION* *NAME IS SIMILAR TO OTHER MEDS, USE CAUTION*	12/04/17 12:00		Active

Protocol	None

Condition	Dose/Route	Instruction
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Greater than 400 mg/dl	Scale A = 9 unit/ Scale B = 4 unit	Call Provider
Protocol Text	USE SCALE A WHEN MEAL OF 30 OR MORE CHO EATEN OR WHEN TUBE FEED/TPN RUNNING. USE SCALE B WHEN NPO, MEAL OF <30GM CHO EATEN, TUBE FEED/TPN NOT RUNNING, AND HS. *NOT APPROPRIATE TO USE SCALE IF LESS THAN 3 HOURS SINCE PREVIOUS MEAL AND SCALE DOSE*	

Medication	Start	Stop	Status
Insulin Aspart See Protocol CARB COVERAGE 1:5 Trade: NovoLOG Flexpen Give: See Protocol Dose Instructions: Give 1 Unit of Aspart for Every 5 GM CHO Eaten At Meals	XX/XX/XX 0800		Active

11. Your patients FSBS was 253 and they have eaten their breakfast with 30 grams of carbohydrates then they would need to receive how many units of insulin? _____

12. Your patients FSBS was 253 and they have eaten their breakfast with 15 grams of carbohydrates then they would need to receive how many units of insulin? _____

13. Your patients FSBS was 140 and they have eaten their breakfast with 30 grams of carbohydrates then they would need to receive how many units of insulin? _____

14. Your patients FSBS was 422 and they have eaten their breakfast with 30 grams of carbohydrates then they would need to receive how many units of insulin? _____

15. Your patients FSBS was 148 and they are NPO then they would need to receive how many units of insulin? _____