

## How to Calculate Insulin Dosage from a Corrective Scale

### Step 1:

Enter the patient's MAR, scan and verify the patient, and then scan the medication to be administered.

Start	Medication (Route)	Time	Sun Dec 29	TODAY Mon Dec 30
12/30/24 12:00 12/30/25 11:59 Unverified UnAcknowledged	<b>Insulin Aspart See Protocol SUBCUT TID.WM.HS SCH</b> Trade: NovoLOG Flexpen Rx#: U00005746 [M] [P] [SI]	08:00		
	Give: See Protocol <b>▼ Dose Instructions:</b> Corrective Scale #2 - See protocol <b>Label Comments:</b> *TI FOR HUMALOG, APIDRA * 28 DAY EXPIRATION *HIGH RISK MEDICATION-USE WITH CAUTION* *NAME IS SIMILAR TO OTHER MEDS, USE CAUTION* Dispose of med waste in Black bin	12:00		
		17:00		
		22:00		

### Step 2:

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

**For example:** if your patient's finger stick blood sugar (FSBS) was 253. Review the corrective scale to determine number of units.

Medication Detail			
<a href="#">Detail</a>   <a href="#">History</a>   <a href="#">Flowsheet</a>   <a href="#">Monograph</a>   <a href="#">AssocData</a>   <a href="#">Prot/Taper</a>   <a href="#">Order</a>   <a href="#">Links</a>			
Medication	Start	Stop	Status
<b>Insulin Aspart See Protocol SUBCUT TID.WM.HS SCH</b> Trade: NovoLOG Flexpen Give: See Protocol <b>Dose Instructions:</b> Corrective Scale #2 - See protocol <b>Label Comments:</b> *TI FOR HUMALOG, APIDRA * 28 DAY EXPIRATION *HIGH RISK MEDICATION-USE WITH CAUTION* *NAME IS SIMILAR TO OTHER MEDS, USE CAUTION* Dispose of med waste in Black bin	12/30/24 12:00	12/30/25 11:59	Unverified
Protocol: Corrective Scale #2 (TDI 26-50 UNITS)			
Condition	Dose/Route	Instruction	
Corrective Scale #2 (TDI 26-50 UNITS)			
Fingerstick Blood Glucose	Insulin Units		
150-199 mg/dl	2 unit		
200-249 mg/dl	3 unit		
250-299 mg/dl	5 unit		
300-349 mg/dl	7 unit		
350-399 mg/dl	8 unit		
greater than or = 400 mg/dl	9 unit	Call Provider	
Protocol Text: *If the corrective scale dose has been administered within the past 4 hours, do not use corrective scale again unless approved by prescriber*			

The total number of insulin units the patient would need to receive 5 units of insulin.

## How to Calculate Insulin-to-Carb Ratio

### Step 1:

Enter the patient's MAR, scan and verify the patient, and then scan the medication to be administered.

12/30/24 12:00 12/30/25 11:59 Unverified UnAcknowledged	Insulin Aspart See Protocol SUBCUT TID.WM.HS SCH Trade: NovoLOG Flexpen Rx#: U00005747 [M] [P] [E] [SI] [ ]	<table border="1"> <tr><td>08:00</td><td></td><td></td></tr> <tr><td>12:00</td><td></td><td></td></tr> <tr><td>17:00</td><td></td><td></td></tr> <tr><td>22:00</td><td></td><td></td></tr> </table>	08:00			12:00			17:00			22:00		
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Give: See Protocol  
 ▼ **Dose Instructions:**  
 Carb Coverage 1:5 gm CHO  
**Label Comments:**  
 \*TI FOR HUMALOG, APIDRA \*  
 28 DAY EXPIRATION  
 \*HIGH RISK MEDICATION-USE WITH CAUTION\*  
 \*NAME IS SIMILAR TO OTHER MEDS, USE CAUTION\*  
 Dispose of med waste in Black bin

### Step 2:

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

12/30/24 12:00 12/30/25 11:59 Unverified UnAcknowledged	Insulin Aspart See Protocol SUBCUT TID.WM.HS SCH Trade: NovoLOG Flexpen Rx#: U00005747 [M] [P] [E] [SI] [ ]	<table border="1"> <tr><td>08:00</td><td></td><td></td></tr> <tr><td>12:00</td><td></td><td></td></tr> <tr><td>17:00</td><td></td><td></td></tr> <tr><td>22:00</td><td></td><td></td></tr> </table>	08:00			12:00			17:00			22:00		
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Give: See Protocol  
 ▼ **Dose Instructions:**  
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 28 DAY EXPIRATION  
 \*HIGH RISK MEDICATION-USE WITH CAUTION\*  
 \*NAME IS SIMILAR TO OTHER MEDS, USE CAUTION\*  
 Dispose of med waste in Black bin

### 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:** Your patient has eaten their breakfast totaling 30 grams of carbohydrates. According to the 1:5 insulin-to-carbohydrate ratio, the patient would need to receive 6 units of insulin.

**Formula:**  $\frac{30 \text{ CHO}}{5 \text{ per ratio}} = 6 \text{ units.}$

## How to Calculate Corrective Scale and Insulin-to-Carb Ratio

### Step 1:

Enter the patient's MAR, scan and verify the patient, and then scan the medication to be administered for both the corrective scale and carb coverage scale.

**Medication Detail**

Detail | History | Flowsheet | Monograph | AssocData | Prot/Taper | Order | Links

Medication	Start	Stop	Status
<b>Insulin Aspart See Protocol SUBCUT TID.WM.HS SCH</b> Trade: NovoLOG Flexpen  Give: See Protocol <b>Dose Instructions:</b> Corrective Scale #2 - See protocol <b>Label Comments:</b> *TI FOR HUMALOG,APIDRA * 28 DAY EXPIRATION *HIGH RISK MEDICATION-USE WITH CAUTION* *NAME IS SIMILAR TO OTHER MEDS, USE CAUTION* Dispose of med waste in Black bin	12/30/24 12:00	12/30/25 11:59	Unverified

Protocol	Corrective Scale #2 (TDI 26-50 UNITS)
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Condition	Dose/Route	Instruction
Corrective Scale #2 (TDI 26-50 UNITS)		
=====	=====	=====
Fingerstick Blood Glucose	Insulin Units	
150-199 mg/dl	2 unit	
200-249 mg/dl	3 unit	
250-299 mg/dl	5 unit	
300-349 mg/dl	7 unit	
350-399 mg/dl	8 unit	
greater than or = 400 mg/dl	9 unit	Call Provider

Protocol Text	*If the corrective scale dose has been administered within the past 4 hours, do not use corrective scale again unless approved by prescriber*
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12/30/24 12:00 12/30/25 11:59 Unverified <span style="color: red;">UnAcknowledged</span>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15px; text-align: center;">✖</td> <td style="font-size: small;"> <b>Insulin Aspart See Protocol SUBCUT TID.WM.HS SCH</b>                      Trade: NovoLOG Flexpen                      Rx#: U00005747  <span style="font-size: x-small;">[M] [P] [E] [SI] [ ]</span> </td> </tr> </table> Give: See Protocol ✓ <b>Dose Instructions:</b> Carb Coverage 1:5 gm CHO <b>Label Comments:</b> *TI FOR HUMALOG,APIDRA * 28 DAY EXPIRATION *HIGH RISK MEDICATION-USE WITH CAUTION* *NAME IS SIMILAR TO OTHER MEDS, USE CAUTION* Dispose of med waste in Black bin	✖	<b>Insulin Aspart See Protocol SUBCUT TID.WM.HS SCH</b> Trade: NovoLOG Flexpen Rx#: U00005747 <span style="font-size: x-small;">[M] [P] [E] [SI] [ ]</span>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">08:00</td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> <tr> <td style="text-align: center;">12:00</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">17:00</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">22:00</td> <td></td> <td></td> <td></td> </tr> </table>	08:00				12:00				17:00				22:00			
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### Step 2:

Review Dose Instructions to identify the units of insulin for the corrective scale.

### 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 the carbohydrate coverage.

### Step 5:

Add the number of units from the corrective scale and the carbohydrate coverage together for total dose to be administered.

## Practice Questions

**Directions:** Calculate the number of units for the FSBS using the corrective scale only.

**Medication Detail**

[Detail](#) | [History](#) | [Flowsheet](#) | [Monograph](#) | [AssocData](#) | [Prot/Taper](#) | [Order](#) | [Links](#)

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greater than or = 400 mg/dl	9 unit	Call Provider

Protocol Text: \*If the corrective scale dose has been administered within the past 4 hours, do not use corrective scale again unless approved by prescriber\*

1. Your patients FSBS was 99 then they would need to receive how many units of insulin?
2. Your patients FSBS was 300 then they would need to receive how many units of insulin?
3. Your patients FSBS was 288 then they would need to receive how many units of insulin?
4. Your patients FSBS was 488 then they would need to receive how many units of insulin?
5. Your patients FSBS was 249 then they would need to receive how many units of insulin?

**Directions:** Calculate the number of units for the FSBS using the carbohydrate coverage scale only.

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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 15 grams of carbohydrates then they would need to receive how many units of insulin?

**\*You have two insulin orders for the next 5 questions.**

**Directions:** Calculate the number of units for the FSBS using the corrective scale and carbohydrate coverage scale.

**Medication Detail**

[Detail](#) | [History](#) | [Flowsheet](#) | [Monograph](#) | [AssocData](#) | [Prot/Taper](#) | [Order](#) | [Links](#)

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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 375 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?
16. Your patients FSBS was 285 and they have eaten their breakfast with 10 grams of carbohydrates then they would need to receive how many units of insulin?
17. Your patients FSBS was 300 and they have eaten their breakfast with 35 grams of carbohydrates then they would need to receive how many units of insulin?
18. Your patients FSBS was 410 and they have eaten their breakfast with 40 grams of carbohydrates then they would need to receive how many units of insulin?
19. Your patients FSBS was 236 and they have eaten their breakfast with 20 grams of carbohydrates then they would need to receive how many units of insulin?
20. Your patients FSBS was 225 and they are NPO then they would need to receive how many units of insulin?