



# Insulin Pump Start Orders

## PATIENT INFORMATION

PATIENT'S NAME (FIRST, MIDDLE, LAST)	DATE OF BIRTH (MONTH/DAY/YEAR)
HEALTHCARE PROVIDER (HCP)	DATE ORDER REQUESTED (MONTH/DAY/YEAR)

**1 Insulin Training Details:** Tandem pumps are indicated for use with U-100 Analog insulin. HCP to specify prescribed insulin if other than U-100 Analog insulin: \_\_\_\_\_

**2 Long-Acting Insulin Discontinuation Instructions for Multiple Daily Injections (MDI):** Default will be used unless otherwise noted in Additional Instructions Section.

**Default:** Take usual dose of long-acting insulin. Turn on Control-IQ+ and set a temp basal rate to 0% to end when last injection of long-acting insulin is no longer active.

## 3 Personal Profile Settings:

<b>Multiple Daily Injections: Option 1</b> Default: Use Profile Settings Calculator in Pump or on pg. 2 of this form.	<b>Profile Settings Calculator (see page 2)</b>				
	<b>Start Time</b>	<b>Basal Rate (u/hr)</b>	<b>Correction Factor</b>	<b>Carb Ratio</b>	<b>Target BG</b>
	12:00AM				110mg/dL

OR

<b>Multiple Daily Injections: Option 2</b> Complete Personal Profile Table by entering a Start Time, Basal Rate, Correction Factor, Carb Ratio and Target BG for <u>each</u> Time Segment. <u>Arrows, lines, or quotation marks cannot be accepted.</u>	<b>Personal Profile Table</b>				
	<b>Start Time</b>	<b>Basal Rate (0.0; 0.1-15U)</b>	<b>Correction Factor (1-600 mg/dL)</b>	<b>Carb Ratio (1-300g)</b>	<b>Target BG (single number/default 110mg/dL (70-250 mg/dL))</b>
<b>Currently Using Pump Therapy:</b> Default: Use current pump settings unless Personal Profile Table is completed.	12:00AM				

**Additional Instructions:** \_\_\_\_\_

\_\_\_\_\_

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By signing below, I have verified that the settings listed above are accurate. If Profile Settings Calculator (pg. 2) was used, I also verified that the Total Daily Insulin Dose (TDI/TDD) units, Weight (lbs.), and calculations are accurate.

HEALTHCARE PROVIDER SIGNATURE <b>X</b>	DATE (MONTH/DAY/YEAR) ____/____/____
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PATIENT'S NAME (FIRST, MIDDLE, LAST)	DATE OF BIRTH (MONTH/DAY/YEAR)
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## Profile Settings Calculator for MDI Transition to Pump Therapy.

**IMPORTANT:** *Profile Settings calculator should only be used for U-100 analog insulin. Do not use with patients under 6 years of age, in pregnancy or with non U-100 analog insulin. Complete Personal Profile Table on page 1.*

**Instructions:** Enter TDD/TDI below (Patient reported) and current body weight (in lbs) to generate settings.

Total Daily Insulin Dose (TDI/TDD) Long acting + rapid acting	Current Body Weight (lbs.)
_____ units	_____ lbs.

### Step 1: Calculate Total Daily Dose (TDD)

		FORMULA	CALCULATION	
Pump TDD	Pump TDD	Injection TDD x 0.75 = Pump TDD <sup>1,2</sup>	_____ units/day x 0.75 = Injection TDD	_____ units/day (Pump TDD)
	Weight-based TDD	Weight (lbs.) x 0.23 = Weight-based TDD <sup>1,2</sup>	_____ lbs. x 0.23 units = Weight	_____ units/day (Weight-based TDD)
	Averaged Pump TDD	(Pump TDD + Weight-based TDD) ÷ 2 = Averaged Pump TDD <sup>1,2</sup>	( _____ units/day + _____ units/day ) ÷ 2 = Pump TDD                      Weight-based TDD	_____ units/day (Averaged Pump TDD)

### Step 2: Use Averaged Pump TDD to Calculate the Following Pump Initiation Settings

Basal Rate	Total Daily Basal Units	Pump TDD x % Basal (50%) = Total Daily Basal <sup>1,2</sup>	_____ units/day x $\frac{0.5}{\% \text{ Basal}}$ = Averaged Pump TDD	_____ units/day (Total Daily Basal)
	Initial Basal Rate	Total Daily Basal ÷ 24 hours = Initial Basal Rate <sup>1,2</sup>	_____ units ÷ 24 hours = Total Daily Basal	_____ units/hour (Initial Basal Rate)
Corr Factor	Correction Factor (Insulin Sensitivity Factor)	1700 ÷ Pump TDD = Correction Factor <sup>1</sup>	1700 ÷ _____ units = Averaged Pump TDD	_____ mg/dL: 1 unit (Correction Factor)
Carb Ratio	Carb Ratio (Insulin to Carb Ratio)	450 ÷ Pump TDD = Carb Ratio <sup>1</sup>	450 ÷ _____ units/day = Averaged Pump TDD	_____ grams: 1 unit (Carb Ratio)

\*TDD = Total Daily Dose; TDI = Total Daily Insulin

**Warning:** Control-IQ+ technology should not be used by anyone under the age of two years old. It should also not be used in patients who require less than 5 units of insulin per day or who weigh less than 20 pounds.

#### References:

1 Grunberger, G., Abelseth, J., Bailey, T., Bode, B., Handelsman, Y., Hellman, R.,... Tamborlane, W., (2014) Consensus Statement by the American Association of Clinical Endocrinologist/American College of Endocrinology Insulin Pump Management Task Force. Endocrine Practice, 20(5), 463-489.

2 Hinnen D, DeGroot J. Therapy Intensification: Technology and Pattern Management. In: The Art and Science of Diabetes Care and Education, 5th edition. Chicago: Association of Diabetes Care and Education Specialists; 2021: 592-593