

Bolus Wizard® Calculator MiniMed Paradigm® REAL-Time System

Insulin dosing is easier, safer, and more precise than ever

The Bolus Wizard® calculator makes it easier to achieve better blood glucose control. This patented dosing calculator uses your personal settings, blood glucose reading, carbohydrate entry, and the amount of active insulin still in your body to suggest a bolus amount for you. The Bolus Wizard Calculator takes the guesswork out of insulin dosing.^{1,2}

The most personalisation for more effective therapy

The Bolus Wizard calculator lets you set different blood glucose targets throughout the day. This unique personalisation helps ensure that bolus estimates are more closely matched to your needs, which can help you achieve even better blood glucose control.

Simply customise the calculator with your personal information with up to 8 different settings per day for:

- Blood glucose targets
- Carbohydrate ratios
- Insulin-sensitivity factors

Fewer errors, fewer corrections

The Bolus Wizard calculator:

- **Reduces calculation errors.** No need to calculate complex corrections and carbohydrate ratios. The Bolus Wizard calculator can do the calculations for you.
- **Decreases the number of correction boluses required.** Using a bolus estimator has been shown to reduce the need for post-meal correction boluses.¹ This means the Bolus Wizard calculator can help you more easily and accurately match insulin delivery to your body's needs throughout the day.

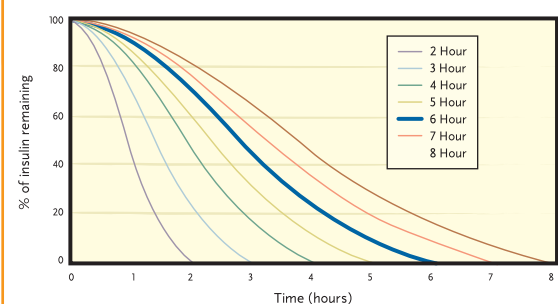


The MiniMed Paradigm 522 Insulin Pump Shown

Keeping track of active insulin helps prevent hypoglycaemia

One of the most common bolusing errors is to over-correct for a post-meal rise in your blood glucose. Over-correction may occur when the amount of insulin still active in your body is not properly taken into consideration. When your blood glucose is above target, the Bolus Wizard calculator automatically takes into account the amount of active insulin still in your body. This is designed to help you avoid hypoglycaemia, or low blood glucose, resulting from too much insulin.

Active insulin remaining over time²



Insulin action is not linear. While most insulin from a bolus may be used up within 6 hours, a small amount remains active for a few more hours. The Bolus Wizard calculator uses a unique mathematical algorithm based on published insulin-action curves to track how much insulin is still active from previous boluses.

Note: The Bolus Wizard calculator can customise insulin action curves between 2 and 8 hours in 1-hour increments. The default setting for these curves is 6 hours which most closely represents published scientific data.

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Dosing as easy as 1-2-3

- 1 Test your blood glucose with a blood glucose meter and enter the reading into the insulin pump.



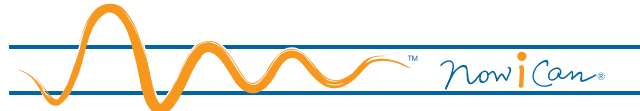
- 2 Enter the number of carbohydrates for your meal in grams or exchanges. If you are not eating and only want a correction bolus to lower high blood glucose, skip this step.



- 3 The Bolus Wizard calculator suggests an estimated insulin dose. You can accept or adjust the suggested amount and start delivery. To help you review the estimated dose, the Bolus Wizard calculator displays the most comprehensive list of estimate details available.

ESTIMATE DETAILS	
Est Total:	4.0U
Food Intake:	45gr
(Meter) BG:	8.8
Food:	3.0U
Correction:	2.0U
Active Ins:	1.0U
ACT to Proceed	
ESC to Back Up	

THE MINIMED
Paradigm® REAL-Time
 INSULIN PUMP AND CONTINUOUS GLUCOSE MONITORING SYSTEM



Medtronic Australasia Pty Ltd
 Diabetes Division
 97 Waterloo Road
 North Ryde NSW 2113 Australia
 Phone: (02) 9857 9000 Fax: (02) 9887 1829
 Toll Free: 1800 668 670
 www.medtronic-diabetes.com.au

You should always seek advice from your medical practitioner to determine your suitability for insulin pump therapy.

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The Bolus Wizard calculator in action

The following clinical examples demonstrate how the Bolus Wizard calculator can be customised to help you easily adjust your therapy and stay on track for optimal control.

Clinical Example #1: Different blood glucose targets needed for day and night.

Background: Kelly has had problems with hypoglycemia in the middle of the night. Her doctor wants her blood glucose target to be over 8.3 mmol/L (149 mg/dL) before bedtime.

Solution: Kelly can set a blood glucose target throughout the day for 5.5 mmol/L (99 mg/dL) and a second one for 8.3 mmol/L (149 mg/dL) starting at 8 p.m. So, if she decides to have a snack after 8 p.m., any bolus calculation will automatically be adjusted to her second, higher blood glucose target.

Clinical Example #2: Different insulin-to-carbohydrate ratios needed throughout the day.

Background: Sam needs more insulin in the morning for food than he does later in the day. He has a carbohydrate ratio of 1 unit per 8 grams at breakfast and 1 unit per 12 grams during the rest of the day.

Solution: Sam simply sets one carbohydrate ratio of 1 unit per 8 grams from 6-9 a.m. (the period of time he typically eats breakfast) and another ratio of 1 unit per 12 grams for the rest of the day. The Bolus Wizard calculator automatically remembers the different ratios, estimating more insulin for toast at breakfast and less insulin for the same bread at lunchtime.

1. Gross T, et al. *Diabetes Technol Ther.* 2003;5(3):365-9.
 2. Mudaliar SR, et al. *Diabetes Care.* 1999;22(9):1501-6.

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