

# The Bolus Wizard™ Calculator – it's all about simplicity

The Bolus Wizard calculator is a feature of the Paradigm® 512/712 insulin pump that makes it easy to achieve better blood glucose control. The Bolus Wizard calculates a bolus dose based on current blood glucose value and/or food intake. The recommended bolus becomes more accurate when the Bolus Wizard suggests an insulin dose which is based on your personal settings.

## Insulin dosing is easier and more precise than ever

Good control is made simpler when you don't have to calculate boluses manually. You simply customize the pump with your personal information with up to eight different settings per day for:

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

You then test your blood glucose and/or enter a carbohydrate value. The Bolus Wizard uses your pre-set information and estimates the boluses for you. The more precise dosing improves pump therapy by reducing variations in blood glucose levels.

## The individual calculations optimise pump therapy

Paradigm 512/712 is the only pump available with the Bolus Wizard feature that lets you set different blood glucose targets throughout the day. This unique personalization helps ensure that bolus estimates are more closely matched to your body's needs throughout the day. This can help you achieve even better blood glucose control for optimal therapy.

## Bolus calculations become easier

Using a bolus estimator has been shown to decrease the need for post-meal correction boluses\*. This means the Bolus Wizard can help you match insulin delivery to your needs more easily and accurately. The Bolus Wizard also reduces mathematical errors, by helping you calculate complex corrections and carbohydrate ratios.

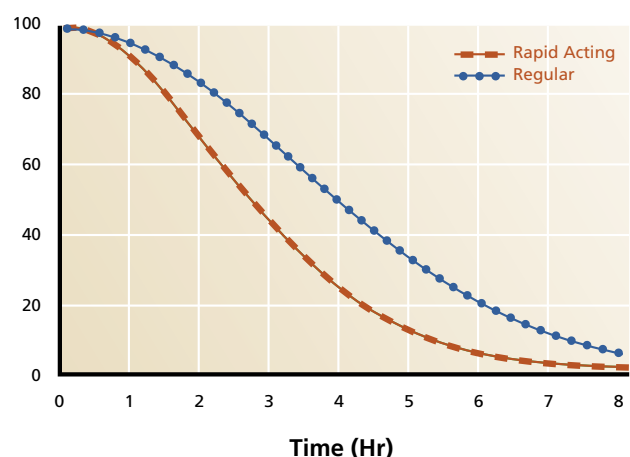
\* Gross T™, Kayne D, King A, et al. A bolus calculator is an effective means of controlling postprandial glycaemia in patients on insulin pump therapy. *Diabetes Technol Ther.* 2003;5(3):365-9.



## The Bolus Wizard helps prevent hypoglycaemia

The Bolus Wizard keeps track of the amount of active insulin from previous boluses, helping you to avoid over-correction for a post-meal rise in your blood glucose. When your blood glucose is above target, the Bolus Wizard automatically takes into account the amount of active insulin still in your body. This helps you avoid hypoglycaemia, resulting from too much insulin.

## Active insulin remaining over time



Insulin action and duration are variable. While most insulin from a bolus may be used within five hours, a small amount remains active for a few more hours. The Bolus Wizard uses a unique mathematical calculation based on published scientific data to track how much insulin is still active from previous boluses.

# Insulin doses closely match your needs

## 1. Test your blood glucose with a blood glucose meter.

Enter the result into your 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 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 displays the most comprehensive list of estimated details available:

### ESTIMATE DETAILS

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

## The Bolus Wizard in practice

The following clinical examples demonstrate how the Bolus Wizard can be customized to help you easily adjust your therapy and keep a stable blood glucose level for optimal control.

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

**Background:** Marie has had problems with hypoglycaemia in the middle of the night. Her doctor wants her blood glucose target to be over 8.4 mmol/L before bedtime.

**Solution:** Marie can set a blood glucose target throughout the day for 5.5 mmol/L and a second one for 8.4 mmol/L 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:** Alexander needs more insulin for food in the morning than he does later in the day. He has a carbohydrate ratio of one unit per eight grams at breakfast and one unit per twelve grams during the rest of the day.

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

The Bolus Wizard is just one of the many innovative features available for the Paradigm 512/712 insulin pump. For more information about the Paradigm 512/ 712 insulin pump, please visit [www.minimed.com](http://www.minimed.com).