



The MiniMed Paradigm[®] Veo[™] System

Live More, Worry Less

—
First CGM-ready insulin pump with
automatic insulin shut-off mechanism

www.medtronic-diabetes.co.uk



The freedom YOU deserve

Round-the clock support for the very first time with the **FIRST** CGM-ready insulin pump with automatic insulin shut-off mechanism



The frustrating thing about diabetes is that it's always there, which can sometimes seem a little overwhelming. Wherever you are, and whatever you're doing, your diabetes is something you can't afford to forget about. If you are prone to hypoglycaemia the pressure can seem even greater, simply because fear and effects of hypoglycaemia can sometimes be debilitating.

Can you ever relax when you have diabetes?

With the Paradigm® Veo™ System, the answer is a resounding **“yes”** – because it has been carefully designed to offer the very best protection against glycaemic instability. When used with the MiniLink™ Transmitter and glucose sensor, it will:

- Monitor and record your glucose levels 24/7
- Allow you to identify trends and make appropriate adjustments to your lifestyle/treatment
- Warn you when your glucose levels stray from your target range

Most significantly of all, the Paradigm Veo is the **first insulin pump** equipped with an 'automatic insulin shut-off mechanism'. In other words, the pump will **automatically suspend insulin delivery** when your glucose levels fall to a pre-set level*. Unlike any other pump, Veo will **actively protect you even when you are asleep** – and this represents a **major breakthrough** in the history of diabetes management.

Why choose the Paradigm Veo?

Quite simply, Veo will give you well-deserved **peace of mind**. Every waking hour – and every sleeping hour too – it can be on hand to monitor your diabetes, offering helpful suggestions and protecting against excessively high or low glucose levels.

With the Paradigm Veo, you may not be able to forget about your diabetes completely, but you'll certainly spend less time worrying about it.

* Requires the use of Continuous Glucose Monitoring - CGM (p.4)



The Paradigm Veo System will help manage your diabetes 24 hours a day

What makes the Paradigm Veo special?

24/7 control

Continuous Glucose Monitoring (CGM) gives you all the information you need to make the right decisions.

Flexibility

The pump can accommodate your unique requirements, with a minimum basal rate of 0.025 U per/hr and a maximum bolus of 75 units.

Bolus Wizard®

Does the calculations for you and suggests bolus amounts*

Individual

5 colour options and a range of SKINS allow you to personalise your pump

Hypoglycaemic protection

Insulin delivery is halted if your glucose levels are too low.

Freedom

Small and discreet, it gives you the freedom to set your own routine. Eat, sleep and exercise whenever you like.

Sound advice

Simple alerts recommend action to keep your glucose levels stable.

* The Bolus Wizard calculator uses your personal settings, blood glucose readings, carbohydrate intake and active insulin duration to suggest a bolus amount.

Real understanding and control 24/7

Make all the right decisions with Continuous Glucose Monitoring (CGM)

Understanding your glucose levels is vital if you are to manage your diabetes effectively. Unfortunately, fingerstick tests only give you a fraction of the information you need. Even if you test several times a day, you only ever see 'snapshots' and may miss numerous highs and lows.

6-day Glucose Sensor Life:

Medtronic has addressed this problem by designing pumps with Continuous Glucose Monitoring (CGM) capability. When combined with a glucose sensor, the Veo allows you to view your glucose values for up to six days at a time.

CGM gives you and your doctor a clear and continuous picture of your glucose values at all times – and helps you make all the right decisions for your health.

Stress-free diabetes management?

With the Paradigm Veo and its CGM capability (use of MiniLink™ Transmitter and sensor), interstitial glucose readings are updated every five minutes and displayed on the pump screen¹. You can then see the direction in which your glucose is moving. By analysing "trend" information you can also genuinely help **to manage your diabetes more effectively**. Indeed, it is often a lack of information that leaves you vulnerable to dangerously high or low glucose levels.

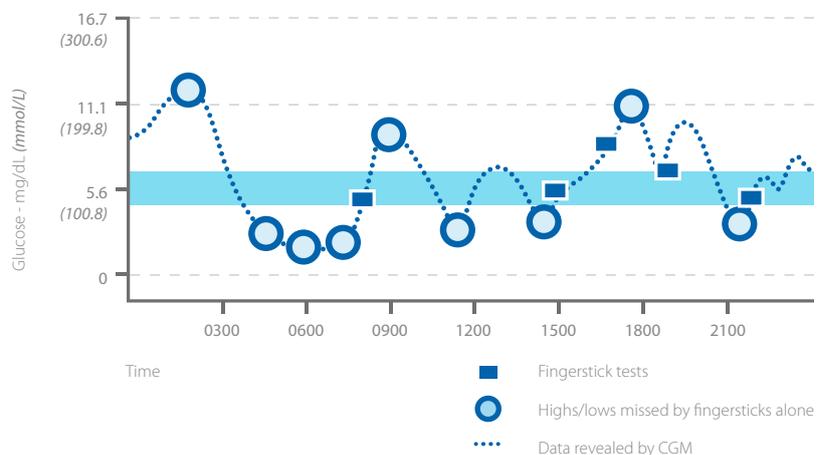
Without a doubt, CGM represents a major breakthrough in the history of diabetes management. Put simply, CGM can take the stress out of managing your diabetes by giving you all the important information you need.

No need to change your whole routine

While research shows that CGM helps manage diabetes better², we understand that not everybody is ready to monitor their glucose levels in this way. You may, for example, be keen to continue with your existing fingerstick routine only. That's why we refer to the Paradigm Veo as "CGM-Ready", which means you can switch CGM functionality on or off at any time – depending on your preferences and requirements. With the CGM function off, you will keep on enjoying the benefits of the Paradigm Veo as an insulin pump in its own right. With the CGM function on, you will in addition benefit from the Low Glucose Suspend (LGS), the automatic insulin shut-off mechanism.

Continuous Glucose Monitoring

The highs and lows revealed



1. This data is intended to supplement, not replace, blood glucose information obtained using standard home blood glucose monitoring devices. Fingersticks required when adjusting insulin delivery or calibrating the glucose sensor.

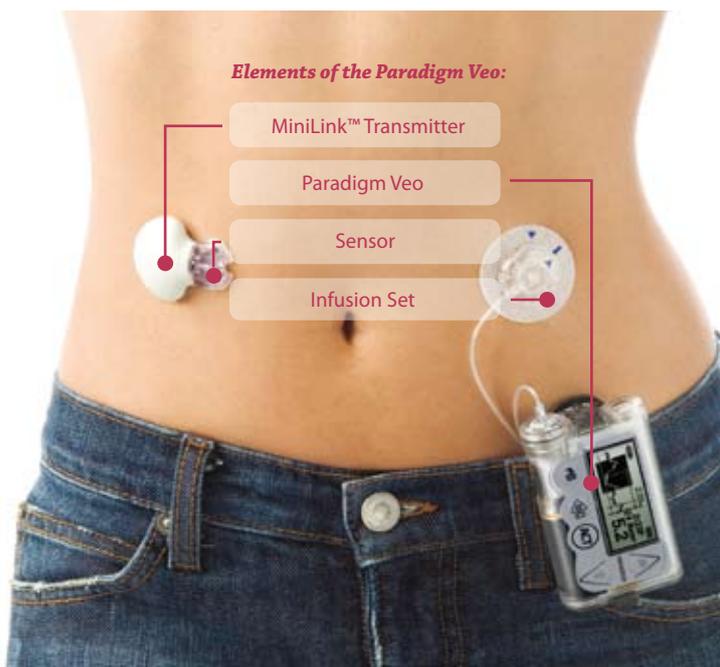
2. Kaufman FR, Gibson LC, Halvorson M, Carpenter S, Fisher LK, Pitukhevanont P. A pilot study of the continuous glucose monitoring system: clinical decisions and glycemic control after its use in pediatric type 1 diabetic subjects. *Diabetes Care*. 2001;24(12):2030-2034.



Diabetes management made easier

A simple system you can trust

The Paradigm® Veo™ is part of a system of small components, which **work together seamlessly** to monitor your glucose levels and send them wirelessly to the pump. The information is then displayed clearly on the pump's screen, giving you up-to-date glucose readings day and night.



How do the pieces fit together?

The tiny glucose sensor fits under the skin in a virtually painless process. It then measures glucose levels in the interstitial fluid, adding more detail to the information you already receive from your Bayer CONTOUR™ LINK fingerstick measurement.

To give you the most accurate information possible, the sensor records glucose readings every five minutes – that's 288 a day. And for your convenience, when combined with the sensor, the Veo allows you to view your glucose values for up to six days at a time. The MiniLink™ Transmitter, which is comfortable, discreet and waterproof*, communicates all of this information wirelessly to the pump.

For even greater control, you can use Medtronic's CareLink™ Personal therapy management software, which allows you to upload and view your data on a secure internet site. This helps you to analyse the readings and identify trends.

Bolus made easier

Calculating the correct bolus dose is not easy, which is why the Paradigm Veo also incorporates a patented bolus calculator called Bolus Wizard®. At the touch of a few buttons, the Bolus Wizard calculator uses your personal settings, blood glucose readings, carbohydrate intake and active insulin duration to suggest a bolus amount. So instead of wasting time working out complex sums in your head, you can rely on the Paradigm Veo to do the math.

It's so simple and does the hard work for you!

* Waterproof up to a depth of 2.4m

Only Medtronic delivers a truly integrated diabetes management system

The components of the Paradigm Veo System work in sync with each other. Each component forms part of a therapy which improves clinical results^{3/4/5/6}.



1. MiniLink™ Transmitter and Continuous Glucose Sensor



2. Bayer CONTOUR™ LINK Glucose Meter



3. CareLink™ Therapy Management Software



Paradigm Veo



Remote Control - This is not part of the integrated system but it is a useful add-on

Overview of components

1. MiniLink™ Transmitter and Continuous Glucose Sensor – Wireless, integrated communication

- Combined with the sensor, Veo allows you to view your glucose values for up to 6 days at a time
- New calibration algorithm in the Veo improves accuracy and sensitivity in hypoglycaemia detection
- Sensor measures glucose levels in interstitial fluid
- Small, discreet and waterproof to a depth of 2.4m

2. Bayer Contour™ Link Glucose Meter – Wireless transmission, accurate information

- Minimises data entry mistakes through wireless transmission of blood glucose results to the pump
- Simplifies bolus dosing with Bolus Wizard® calculator and reduces steps required for sensor calibration
- No coding necessary - No Coding™ technology eliminates - miscoding errors

3. CareLink™ Therapy Management Software – Reports for better understanding and control

- Superior insight into glycaemic control thanks to pump, CGM and BG meter data
- Access and monitoring of your patients' information at-a-glance in-clinic with CareLink™ Pro, which helps to optimise therapy
- Secure data uploading at home via CareLink™ Personal allowing your patients to view their own reports

3. Pickup JC, Sutton AJ. Severe hypoglycaemia and glycaemic control in Type1 diabetes: meta-analysis of multiple daily insulin injections compared with continuous subcutaneous insulin infusion. *Diabet Med* 2008;25:765-774.

4. Bruttomesso D, et al. Continuous subcutaneous insulin infusion (CSII) in Veneto region: efficacy, acceptability and quality of life. *Diabet Med*. 2002;19: 628-634.
5. Garg S, Zisser H, Schwartz S, et al. Improvements in glycaemic excursions with a transcutaneous, real-time continuous glucose sensor. *Diabetes Care*. 2006. 29:44-50.

6. Coriveau, et al. Effect of CareLink, an internet-based insulin pump monitoring system, on glycaemic control in children in type 1 diabetes mellitus. *Journal of Pediatric Diabetes*. 2008;9 (Part II):16-22.

Peace of mind at last

Automatic protection from severe hypoglycaemia with the Paradigm® Veo™ System

Hypoglycaemia can be one of the most frightening aspects of living with diabetes. Many people also find it extremely **difficult to predict** – and therefore almost impossible to avoid. But what causes hypoglycaemia? There are actually several causes to consider, including alcohol consumption, diet and exercise. But hypoglycaemia can also occur if your body receives too much insulin. It is therefore vitally important to **make sure you are not delivering too much insulin** to your body when your glucose levels are already low. Unfortunately, this has always been easier said than done, both for pumpers and those using multiple daily injections (MDI).

Eventually, Medtronic hopes to develop a fully-automatic product that will function exactly like a healthy pancreas – monitoring glucose levels and delivering the right amount of insulin without any user intervention whatsoever. With the Paradigm Veo System, we have taken a huge stride in the right direction towards **‘Closing the loop’**.



So how is the Paradigm Veo different?

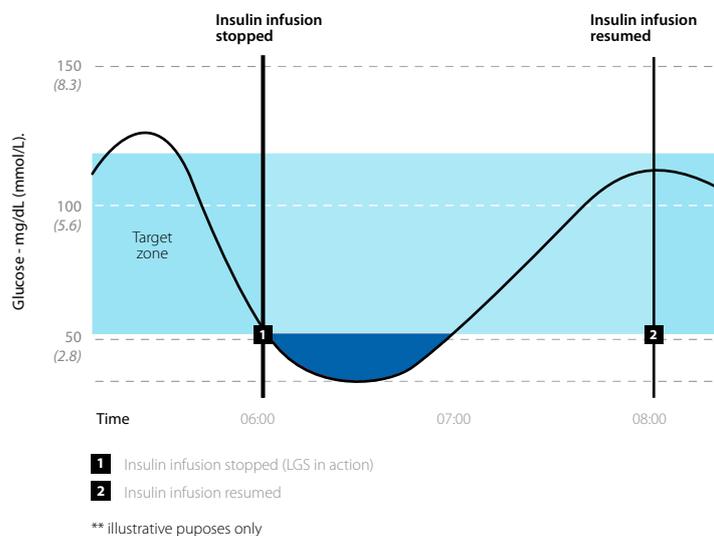
The Paradigm Veo is the world’s first insulin pump equipped with a Low Glucose Suspend (LGS) function, designed to help protect you from severe hypoglycaemia day and night.

Hypoglycaemia is a particular problem if you have a busy work and social life, with stress, alcohol consumption and exercise all contributing to the risk. LGS is therefore perfectly suited to young adults with hectic lifestyles.

With its CGM technology, the Paradigm Veo can anticipate a bad hypo and issue a warning. If no action is taken, the pump responds quickly by halting insulin delivery for two hours. You can even intervene manually at any time if you want insulin delivery to begin before this two-hour shut-off period is complete.

This added protection will give you the peace of mind you deserve – and will help you to continue living life to the full.

The Low Glucose Suspend in focus**



7. Bode B, Gross K, Rikalo N, Schwartz S, Wahl T, Page C, Gross T, Mastroiuto J. Alarms Based on Real-time Sensor Glucose Values Alert Patients to Hypo- and Hyperglycemia: The Guardian Continuous Monitoring System. *Diabetes Technol Ther.* 2004;6(2):105-113.

8. Garg S, Zisser H, Schwartz S, et al., Improvements in glycaemic excursions with a transcutaneous, real-time continuous glucose sensor. *Diabetes Care.* 2006. 29:44-50.

In addition to LGS, Veo offers innovative features:

Active Insulin Onboard

Helps prevent hypos by telling you how much insulin is still active from the previous bolus.

Rate of Change Alerts*

You are told when glucose levels are rapidly rising or falling, allowing you to take immediate action.

Trend Arrows Alerts*

Enjoy increased awareness of potential hypo- or hyperglycaemia thanks to the trend arrows, showing how fast and in which direction your glucose has moved over the past 20 minutes.

Predictive Alerts*

You can set predictive alerts 5, 10, 15, 20, 25 or 30 minutes before a high or low glucose limit has been reached, allowing you to take early action.

Missed Meal Bolus Reminder

Helps avoid hyperglycaemia by warning you when a meal bolus may have been missed.

Low and High Threshold Alerts*

Benefit from additional protection with alerts whenever you are crossing the high or low glucose limit. The risk of hypo- or hyperglycaemia is minimised^{7/8}.

* Requires the use of CGM



L 15:00 - Looking forward to an afternoon in the sun

The right insulin pump for YOU

Why compromise?

At Medtronic, we passionately believe that diabetes should never hold you back. With the right technology and the right support, you should **be free to live your life to the full**, unhindered by your condition. That's why we have worked to make the Paradigm® Veo™ as **patient-friendly** as possible. From the Continuous Glucose Monitoring to the Low Glucose Suspend function, it is a pump that allows you to **Live More, Worry Less**.

Easy to use

Aside from its industry-leading functionality, the Paradigm Veo is also exceptionally **simple to operate**, which means you'll have no trouble whatsoever getting to grips with it.

Here are some of the features we have included to make your life a little easier:

- You only need to press a few buttons to make appropriate selection and adjustments
- Simple on-screen instructions help with the infusion set and reservoir changes
- An easily-accessible backlight illuminates the pump's screen in the dark
- Large, clear text makes all on-screen information easy to read

Small and discreet

The Paradigm Veo can be attached to a belt, kept in a pocket or hidden under clothing – and it is the same size and weight as a mobile phone or MP3 player. If you enjoy an active social life or like participating in sport, this is the pump for you.

What is your Colour?

With five different pump colours and a range of changeable SKINS, you can make sure your pump is as individual as you are.

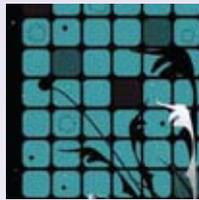




Paradigm Veo SKINS Techno



Paradigm Veo SKINS Pop



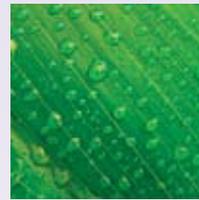
Paradigm Veo SKINS Blue Squares



Paradigm Veo SKINS Indian Summer



Paradigm Veo SKINS Bubbles



Paradigm Veo SKINS Leaf

* All colours and SKINS are subject to availability.



About Medtronic

Medtronic is a leader in diabetes technology with over 25 years of industry experience.

Medtronic is committed to Closing the Loop, and to the future of diabetes care.

Medtronic insulin pump and Continuous Glucose Monitoring (CGM) technology provides complete systems to cater to everyone's individual needs.

User safety

Indications

The Paradigm® Veo™ (554/754) pump systems are indicated for the continuous delivery of insulin, at set and variable rates, for the management of diabetes mellitus in persons requiring insulin. In addition, the pump system is indicated for continuous or periodic monitoring of glucose levels in the fluid under the skin, and possible low and high blood glucose episodes. The pump displays continuous glucose values and stores this data so that it can be analysed to track patterns and improve diabetes management. Pump history can be downloaded to a computer for analysis of historical glucose values. The continuous glucose values provided by the Paradigm® Veo™ (554/754) pump systems are not intended to be used directly for making therapy adjustments. Rather, they provide an indication that a confirmation fingerstick measurement may be required. All therapy adjustments should be based on measurements obtained using a home glucose monitor and not based on the value displayed by the pump.

Contraindications

Pump therapy is not recommended for people who are unwilling or unable to perform a minimum of four blood glucose tests per day and to maintain contact with their healthcare professional. Successful insulin pump therapy requires sufficient vision or hearing to allow recognition of the pump signals and alarms. Patients should always discuss benefits and potential risks with a physician. Please review the product's technical manual prior to use for detailed instructions and disclosure.



Try on the Paradigm® Veo™ 500-serie pump for size (actual size)

Get in touch

Speak to our experts today

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