Work With The Results

Once you complete these steps, your observations will help you design a comprehensive therapy plan including medication, diet and exercise routine that meets the patient's health needs.

For additional information or to offer your professional insights, please call your Medtronic Diabetes Specialist at 1.800.646.4633





Safety Information

Medtronic Diabetes Continuous Glucose Monitoring Systems

Patients should always discuss potential risks and benefits with a physician. Please review the product manual prior to use for detailed instructions and disclosure.

Prescription Device Warning

Caution: US law restricts this device to sale by, or on the order of, a licensed physician.

Indications for Use

Medtronic Diabetes Continuous Glucose Monitoring Systems are indicated to record interstitial glucose levels in persons 7 years of age or older who have Type 1 or Type 2 diabetes. This information is intended to supplement, not replace, blood glucose information obtained using standard home blood glucose monitoring devices. A confirmatory fingerstick is required prior to treatment. Continuous Glucose Monitoring information may be downloaded and displayed on a computer and reviewed by healthcare professionals. This information may allow identification of patterns of glucose-level excursions above or below the desired range, facilitating therapy adjustments that may minimize these excursions. A version of the product specially designed for children is indicated for patients age 7-17.

Contraindications

Successful operation of Medtronic Diabetes Continuous Glucose Monitoring Systems requires adequate vision and hearing. Use of Medtronic Diabetes Continuous Glucose Monitoring Systems is not recommended for patients whose impaired vision or hearing does not allow full recognition of the monitor signals and alarms, or who do not have a caregiver that can perform this function for them.

Warnings/Precautions

Medtronic Diabetes Continuous Glucose Monitoring Systems users should be educated to program and operate the monitor and respond to alarm conditions prior to attempted use of the system. The current and voltage signals shown in the monitor are to be used only for finding potential problems with Medtronic Diabetes Continuous Glucose Monitoring Systems and do not indicate the current glucose value. Infection and/or site irritation may result from improper insertion and maintenance of insertion site.

Please visit www.minimed.com/precautions/CGMS for complete safety information.

Diabetes Headquarters

Medtronic Diabetes 18000 Devonshire Street Northridge, CA 91325 www.medtronicdiabetes.com 1.800.646.4633

Medtronic MiniMed, Inc. All rights reserved. 9401201-012 022207



A 3-Step Methodology for **Interpreting Historical Continuous Glucose Monitoring Data**



Get REAL Insights with Continuous Glucose Monitoring

Continuous glucose monitoring (CGM) measures glucose 24/7 giving you and your patients meaningful insights to help guide therapy decisions. CGM records glucose readings every five minutes – up to 288 glucose measurements per day, nearly 100 times more information than three daily fingerstick measurements.

Medtronic Diabetes introduces an effective methodology for interpreting CGM data. The process has been simplified into three essential steps:

Step 1: Look at the Overnight Period Step 2: Look at the Pre-prandial Period Step 3: Look at the Post-prandial Period.

Each step represents a consistent and systematic approach to interpreting glucose values and making therapy changes.

Overview

Complete the steps in order of 1, 2 and 3. A step isn't complete until you have addressed all of the patient's issues. You always assess the patient for hypoglycemia first. Your finding will determine the rest of the steps.

• If your patient is hypoglycemic, take the time to resolve the issue now before moving on.

• If hypoglycemia isn't detected, then check for hyperglycemia.

Assess the patient for hyperglycemia only after verifying that the patient does not have hypoglycemia or has been properly treated for hypoglycemia.

• Once you have successfully treated the condition, continue to the next step.

Once you print out the patient's CGM report, you're ready to begin Step 1. The three diagrams illustrate how the process flows between steps.

Focus On Cause And Effect

From one time period to the next, you are measuring the effect that the type and amount of food, daily activities, and the insulin therapy has on the patient's rate of glucose output. This cause and effect relationship is central to the cycle of steps recommended here and will help guide you toward the appropriate treatment.

Preparation

Start your evaluation by establishing a target range of glucose values based on the patient's circumstances or condition and on the guidelines of organizations such as the American Diabetes Association (ADA), the European Association for the Study of Diabetes (EASD), and the American Association of Clinical Endocrinologists (AACE):

• Hypoglycemia Unawareness – Raise the target glucose values.

• Pregnancy – Lower the target glucose values.

- Age Use ADA consensus guidelines, patient needs and your expertise to set age-appropriate glucose values.
- Other Considerations In cases of known hyperglycemia, the disease state and other admitted illnesses may also determine your target values.

A Sensible And Realistic Approach

The methodology recognizes that high or low glucose values may be caused by external factors, such as physical exertion or lapses from the advised eating schedule. At each step, you are encouraged to treat the issue and then wait for any remaining effects to fully subside before moving on.

A 3-Step Methodology

For Interpreting Historical CGM Data





 Definition The 2 to 3 hour period following a meal or snack. Normal peak glucose values are unique for this period, and are unique for each age group. Diabetes management optimized At this point, you have scientifically validated the clinical correctness of the patient's therapy management. 	3 Look at post-prandial period	Hypoglycemia? YES NO Go to B	Is the insuli overestima: • Was the tir Should the rather thar • Did a secon Is there an is • What was t • Did the tim Intervene
	 Definition The 2 to 3 hour period following a meal or snack. Normal peak glucose values are unique for this period, and are unique for each age group. 	Hyperglycemia? YES No Diabetes management optimized At this point, you have scientifically validated the clinical correctness of the patient's therapy management.	Re-evalua Is the issue • Was the ins Is the bolus • Was the rig • Was it mea Is there ar • What was i • How much • Might diffe outcome? Correct th

Is too much insulin the issue?

- Was the insulin-to-carbohydrate ratio incorrectly
- Was any remaining active insulin from a prior bolus

- What was the type and quantity of food? • Did the timing of insulin allow for the particular food?
- What is the effect of exercise or daily activities?

Re-evaluate on next visit

Is the insulin prescribed for the meal being

- Was the insulin-to-carbohydrate ratio miscalculated? • Did the report overlook any active insulin remaining from
- What was eaten and how much?
- Was the timing of the insulin appropriate to the type of

Is there an issue with exercise or daily activities?

Correct the problem then proceed to Step 3.



Special Considerations

- The validity of a pre-prandial breakfast, lunch or dinner may be compromised or diminished by between-meal snacks due to their potential effects on glucose values.
- Dawn Phenomenon Some patients occasionally experience a marked rise in glucose levels when they wake up in the morning. This temporary increase applies exclusively to pre-prandial breakfast.



Special Considerations

- You're measuring the effectiveness of the insulin given before the last meal in: 1) regulating glucose output and; 2) responding to the glycemic load attributed to the meal and its residual insulin and post-prandial activities.
- Any insulin, including rapid insulin, must be taken before the meal.
- Remember that it is not all about medication at the post-prandial step

in prescribed for the meal being ted?

- ning, type and size of the bolus correct? bolus have been a dual-wave or square wave 1 a normal bolus?
- nd medication affect the therapy

issue with exercise or daily activities? ssue?

- the type and quantity of food?
- ning of insulin allow for the particular food?

ate on next visit

- timing? sulin taken before the meal
- the issue? ght type given? asured accurately?

n issue with food?

- in the food? was eaten? rent foods achieve a more favorable
- ne problem.