What is the Guardian RT System?

The Guardian RT system, recently approved by the U.S. Food and Drug Administration for Type 1 and Type 2 diabetes, is a continuous glucose monitoring system that displays an updated REAL-Time glucose value every five minutes and alerts veterinarians when glucose levels become too high or too low. This information helps veterinarians take action before they experience a problem.

This new technology gives veterinary practitioners access to REAL-Time glucose readings and alarms around the clock, so they can intervene in ways never before possible.

The Guardian RT system is the latest advance in diabetes management by Medtronic diabetes, the 20-year pioneer of continuous glucose monitoring and insulin pump therapy.

What are the benefits of continuous glucose monitoring?

1. Measures glucose levels continuously, thereby delivering more meaningful insights than testing strips

2. Better detects hypoglycemia and hyperglycemia for more proactive patient management

3. Helps guide therapy adjustment and reduces the risk of long-term complications like eye, nerve, kidney, and heart disease by 15% to 30%

4. Motivates patients to improve management

- REAL picture of glucose levels.
- REAL reduction in highs and lows.
- REAL improvements in diabetes control.
- REAL protection against long-term health risks.
EVALUATION OF A CONTINUOUS GLUCOSE MONITORING SYSTEM
FOR USE IN DOGS, CATS AND HORSES
Wiedmeyer, CE, Johnson, PJ, Cohn, LA, Meadows, RL

Purpose of Study: To evaluate a continuous glucose monitoring system (CGMS) for use in dogs, cats and horses.

Methods: Prospective clinical study in 7 horses, 3 cats, and 4 dogs that were clinically normal and 1 horse, 2 cats, and 3 dogs with diabetes mellitus.

Treatment: Interstitial glucose concentrations were monitored and recorded every 5 minutes by use of a CGMS. Interstitial glucose concentrations were compared with whole blood glucose concentrations as determined by a point-of-care glucose meter.

Results: There was a positive correlation between interstitial and whole blood glucose concentrations for clinically normal dogs, cats, and horses and those with diabetes mellitus. Events such as feeding, glucose or insulin administration, restraint, and transport to the clinic were recorded by the owner or clinicians and could be identified on the graph and associated with time of occurrence.

Conclusions: Data suggested that use of CGMS is valid for dogs, cats and horses. This system alleviated the need for multiple blood samples and the stress associated with obtaining those samples. Because hospitalization was not required, the information obtained from the CGMS provided a more accurate assessment of the animal’s glucose concentrations for an extended period, compared with measurement of blood glucose concentrations. Use of the CGMS will promote the diagnostic and research potential of serial glucose monitoring.

Guardian RT Monitor System                              $1495
Includes:
(Com Station, Guardian RT Software-Solution, USB Advanced Adapter, Sensors -pkg - 4 MMT-700)