



# InSight Vet CGM

# CGM Introduction

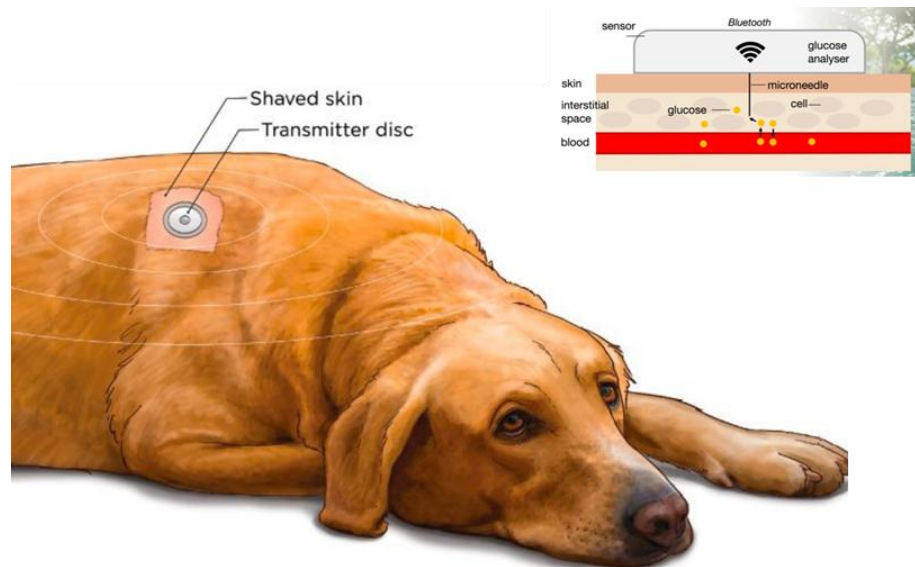
Continuous Glucose Monitors (CGMs) are devices that can attach to a patient for up to two weeks, measuring glucose levels in the interstitial fluid during that time. In recent years, these devices have become more affordable and applicable in veterinary medicine.

Compared to traditional blood glucose testing, CGMs provide real-time comprehensive glucose data, enabling users to manage glucose levels more accurately, making them essential tools for managing diabetic patients.

CGMs consist of three main components:

1. A flexible electrode inserted through a guide device into the interstitial (subcutaneous) space of the patient's skin.
2. A small transmitter attached to the probe, which adheres to the patient's skin surface.
3. Monitoring software (using a smartphone).

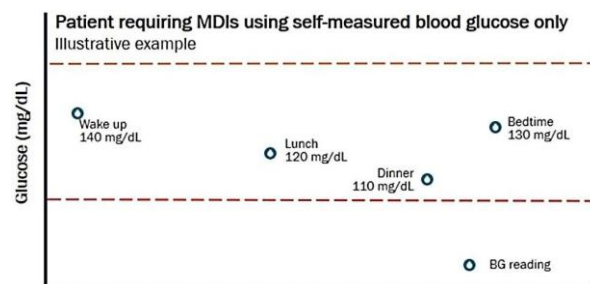
The sensor is compatible with X-rays but not with computed tomography or magnetic resonance imaging. In human devices, CGMs can be directly connected to an insulin delivery system.



# CGMs vs. Traditional Blood Glucose Testing

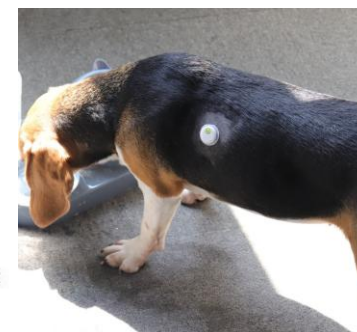
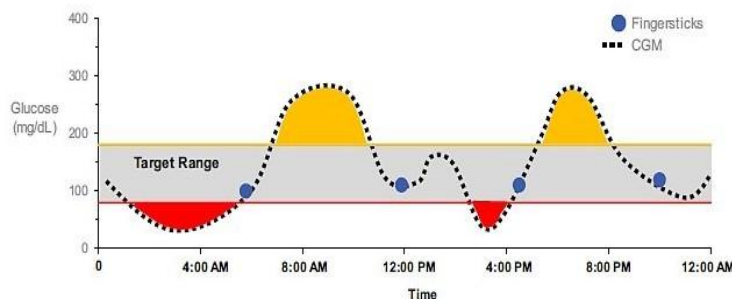
## Traditional BG Testing

- ❑ 10+ blood samples per day to draw the curve
- ❑ One-time measurement, cannot reflect the full picture
- ❑ No real-time hypo/hyperglycaemia alerts
- ❑ Painful and stressful for pets, difficult for pet owners to operate



## CGM

- ✓ CGMs (Continuous Glucose Monitors)
- ✓ No frequent blood sampling
- ✓ Up to 14 days of continuous monitoring
- ✓ Comprehensive reports, providing valuable insights for informed decisions
- ✓ Real-time alerts

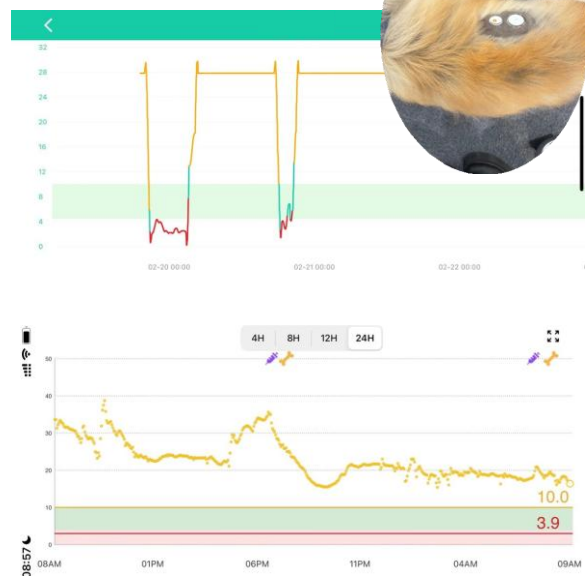


# Human CGM vs. Pet CGM

## Why Should you use CGM Specially Designed for Pets

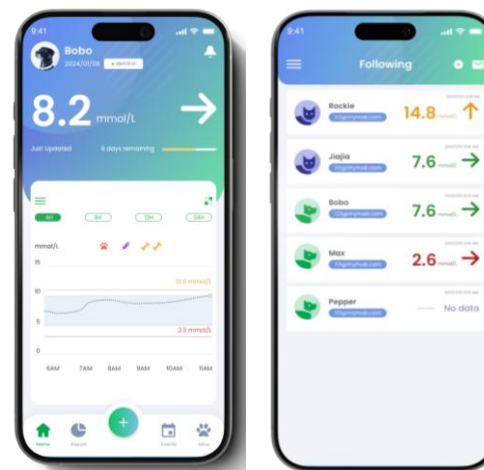
### Human CGM

- ☐ Glucose range is designed for humans
- ☐ Algorithm is designed for humans
- ☐ No after-sale service
- ☐ Software is designed for humans



### Pet CGM

- ☐ Specially designed calibration algorithm for cats and dogs
- ☐ Specially designed probe for pets
- ☐ The glucose thresholds, parameters and alert ranges are suitable for cats and dogs
- ☐ InSight Vet CGM App allows veterinarians account to monitor data for multiple diabetic pets





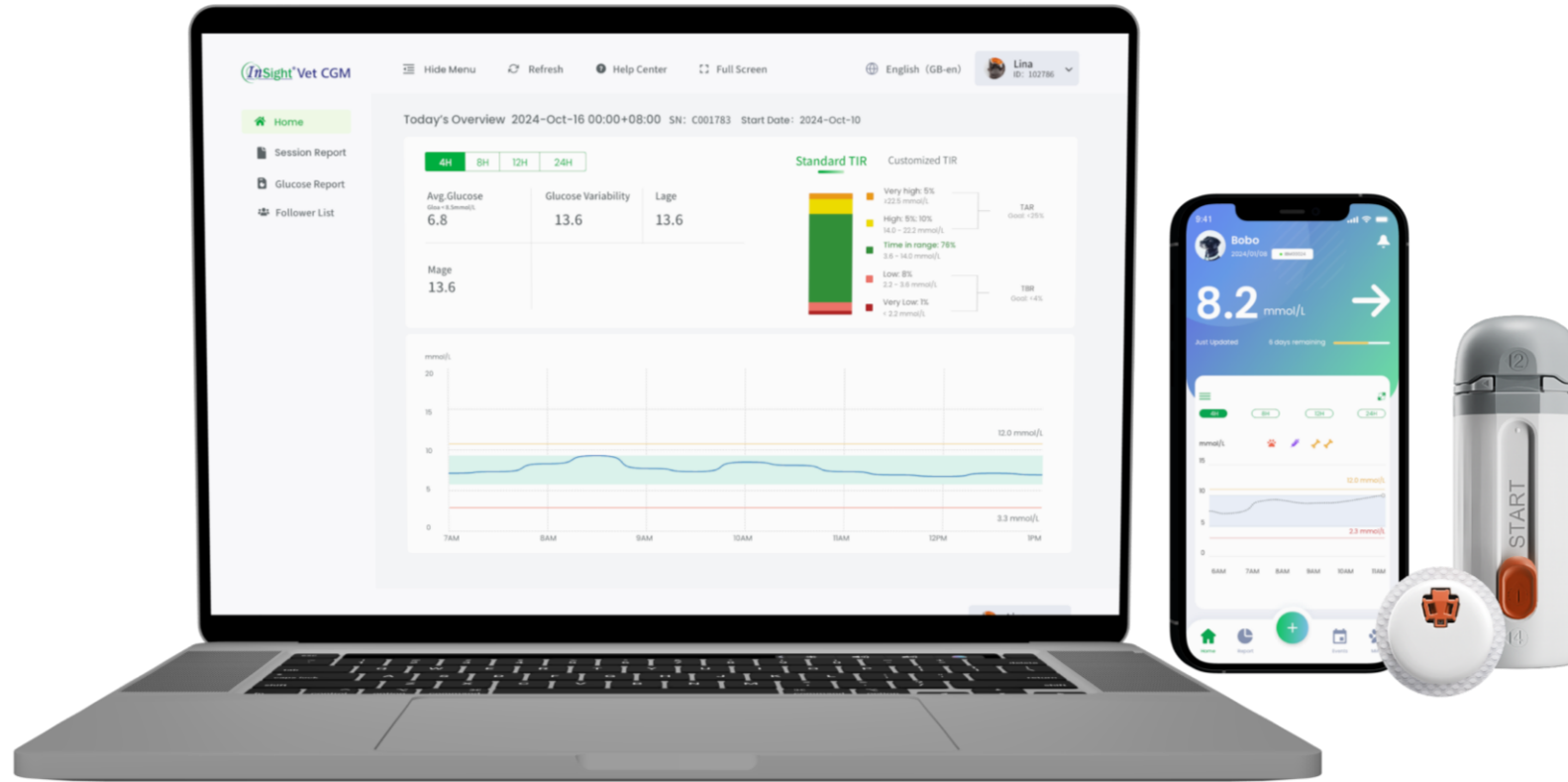
# Goals of Wearing a CGM

- ☐ Owner feels supported and can easily cope with the care of their diabetic pet
- ☐ Resolution of clinical signs
- ☐ Avoidance of insulin-induced hypoglycaemia

## When to use a CGM

- ☐ Rapidly improve diabetic control
- ☐ To understand a specific problem
- ☐ The owner wants to use it
- ☐ Sick diabetics in hospital

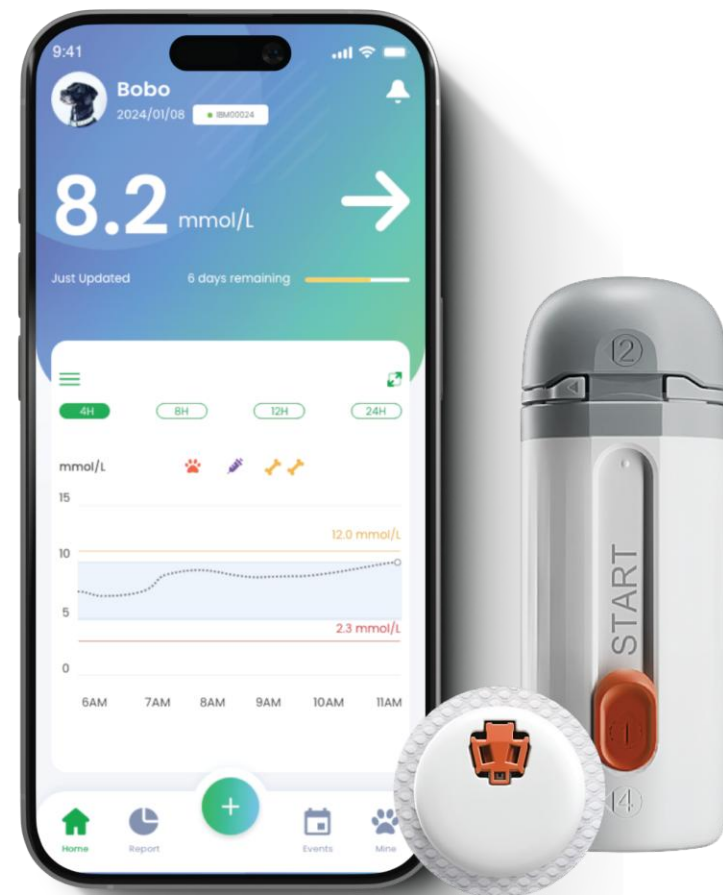
Dr. Linda Fleeman, Animal Diabetes Australia



# CGM Introduction

# Product Matrix

<b>Data Interval</b>	3 minutes
<b>Monitoring Up To</b>	14 days
<b>Calibration</b>	Factory Calibration
<b>Waterproof</b>	IP27
<b>Shelf Life</b>	18 months
<b>Age</b>	8 months+
<b>Warm-up Time</b>	30 minutes
<b>MARD (Mean Absolute Relative Difference)</b>	7.38%
<b>Prediction Trend</b>	Yes



# Product Composition



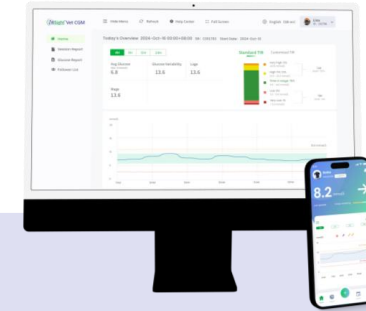
## Applicator

- ☐ Disposable
- ☐ Passive activation



## Sensor

- ☐ Bluetooth connection
- ☐ One data point every three minutes, monitoring for 14 days
- ☐ Flexible probe, comfortable and imperceptible to wear
- ☐ IP27 protection rating, water-resistant
- ☐ For daily use



## App & Web Portal

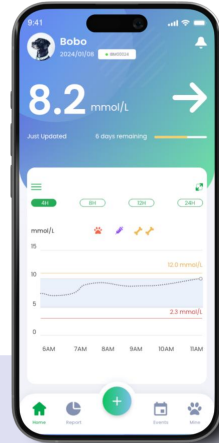
- ☐ Receive data through a compatible smartphone app
- ☐ Cloud-based portal for analysing and generating blood glucose reports
- ☐ Facilitates sharing with Vets and other owners



# Software



1. Sensor detects glucose and sends data to smart device via Bluetooth.



2. App receives glucose data. Displays real-time glucose and generates reports.

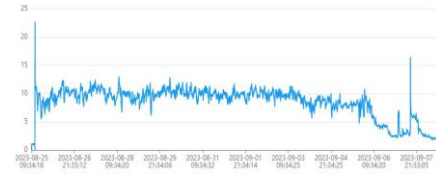
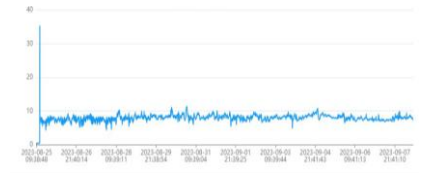
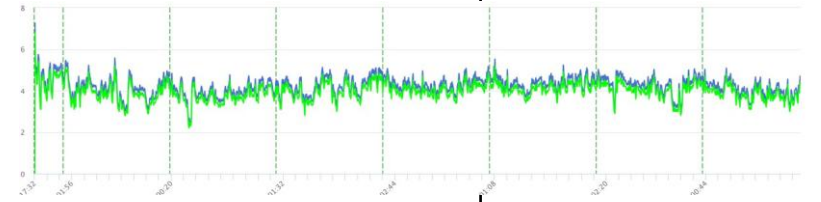


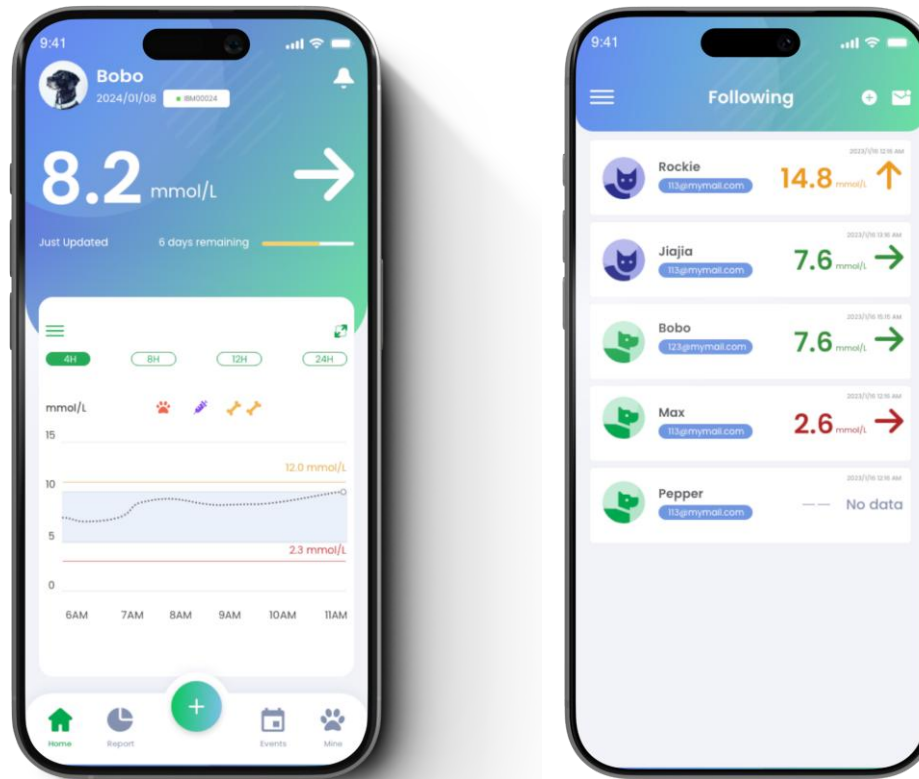
3. The doctor-side management dashboard retrieves blood glucose data from the cloud, making it convenient for doctors and pet owners to manage their pet's blood glucose levels.

# Animal Test



# Animal Data Overview

Sensor	Name	Date Started	Date Removal	Data Overview	
F0974	Victor (Dog)	2023-08-25 12:20	2023-09-08 14:00		Upon removal, a slight shedding phenomenon was observed, and hair growth in the excised area is relatively rapid.
F1075	Pea (British Shorthair)	2023-08-25 12:20	2023-09-08 14:13		
C000294	Miaomiao (British Shorthair)	2024-07-03 17:20	-		



# InSight Vet CGM App Introduction

# Download App & Sensor Pairing

Download InSight Vet CGM



Follow the instructions in the app and pair the sensor

**Sign Up**

Enter email

Validation code **Send**

Country

Enter password

Confirm password

Password setting rules

☒ Agree Use of Terms & Privacy Policy

**Next**

Already have an account? [Sign-in here](#)

< **My fur kid is a**

**Dog**

**Cat**

**Confirm**

< **Wearing Sensor**

Follow the arrow.  
Push the button upwards until it can no longer be pushed.

Follow the arrow.  
Tear off the pull tab on the top cap and open the cover.

Follow the arrow.  
Press the button until you hear a click.

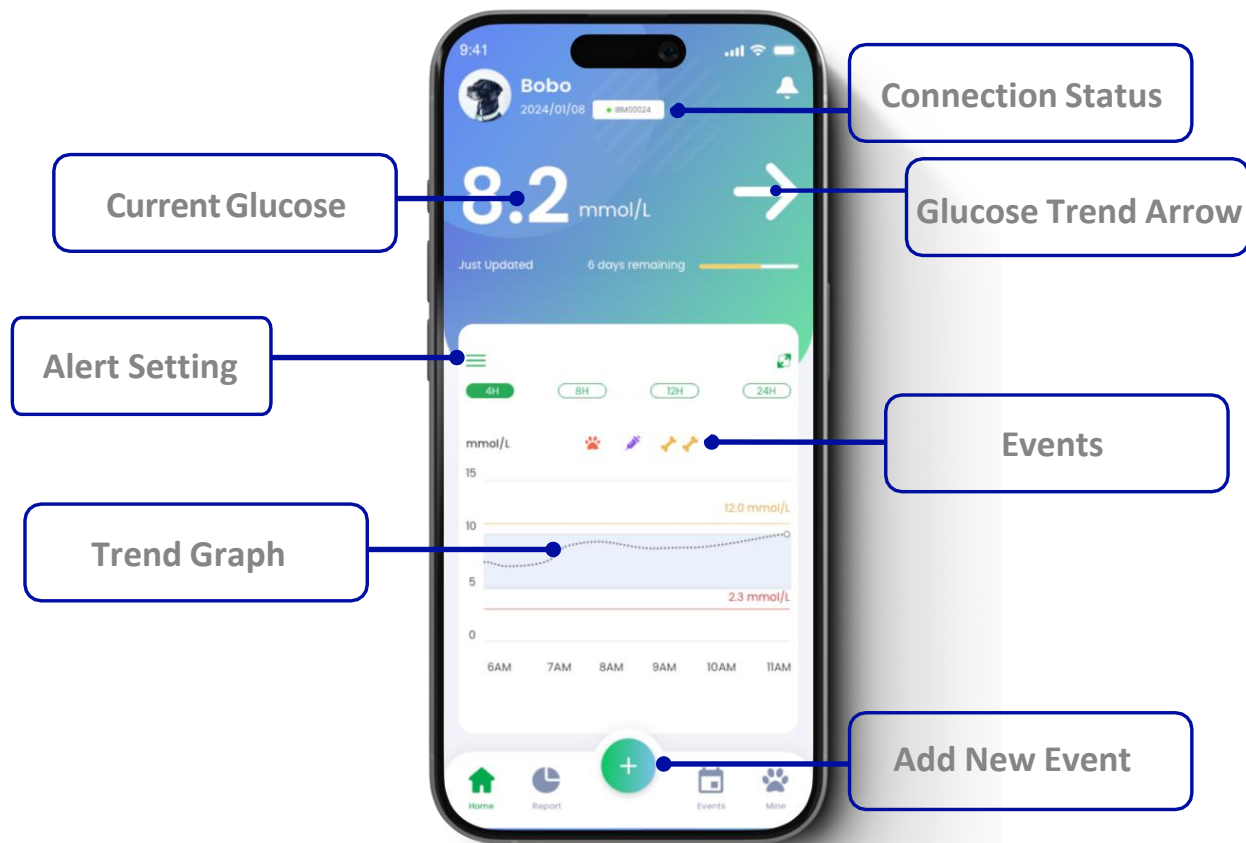
**Next**

**Connecting Sensor**

**Connect**



# App Home Screen



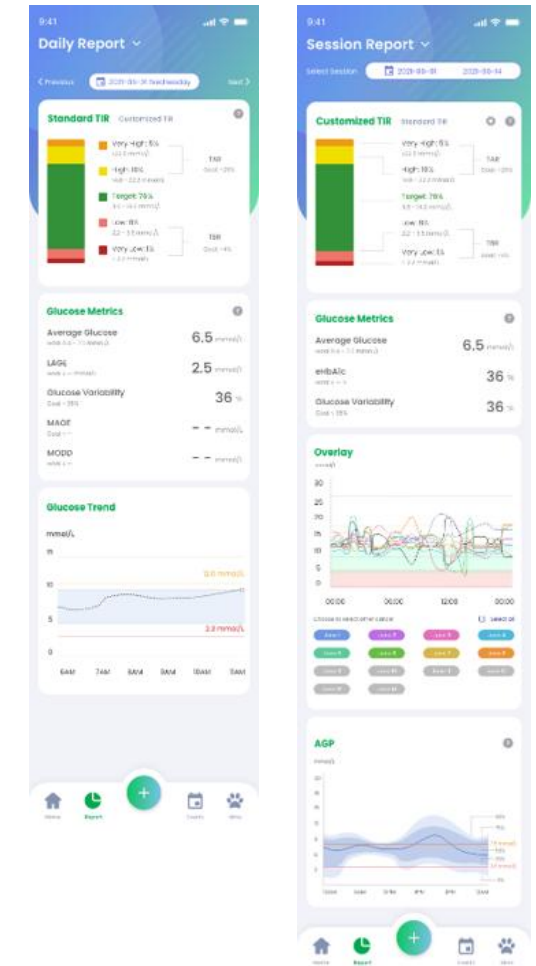
## Trend Arrow Definition

↑↑	Glucose is rapidly rising
↑	Glucose is rising
↗	Glucose is slowly rising
→	Glucose is steady
↘	Glucose is slowly falling
↓	Glucose is falling
↓↓	Glucose is rapidly falling

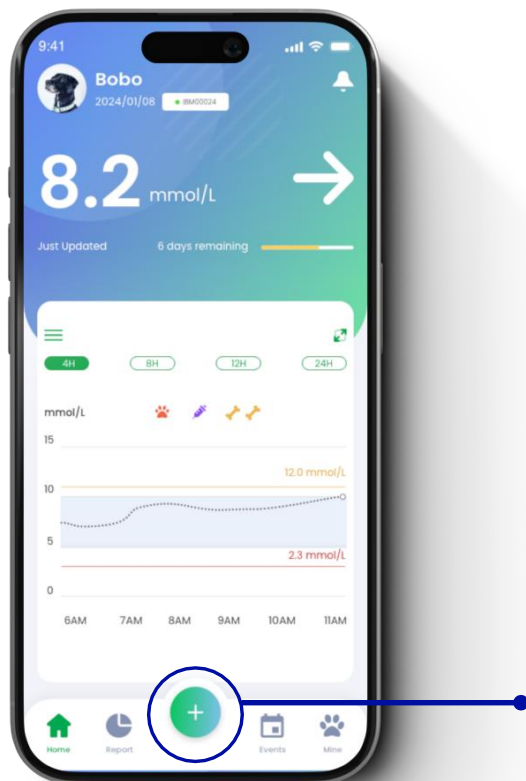
# Glucose Reports



- ❑ Average Glucose Level: The average of all glucose measurements during sensor monitoring, used to evaluate overall blood glucose levels.
- ❑ Maximum Blood Glucose Fluctuation: Evaluates the maximum fluctuation in blood glucose levels, specifically the difference between the highest and lowest glucose readings of the day.
- ❑ Coefficient of Variation: The degree of dispersion of all glucose measurements during sensor monitoring, used to assess blood glucose variability.
- ❑ Mean Amplitude of Glycaemic Excursions (MAGE): Evaluates the extent of intra-day blood glucose fluctuations. After removing all glucose fluctuations that did not exceed a certain threshold, the average value is calculated based on the first valid fluctuation direction to reflect blood glucose variability.
- ❑ Mean of Daily Differences (MODD): Evaluates the degree of inter-day blood glucose fluctuation, reflecting the consistency of blood glucose levels from day to day. It is the average of the absolute differences between corresponding measurements within a complete 48-hour period. The MODD for a specific day reflects the fluctuation in glucose levels between that day and the previous day.
- ❑ Estimated Glycated Haemoglobin (eA1C): Glycated haemoglobin (HbA1C) is considered the gold standard for blood glucose control and is related to microvascular and macrovascular complications in diabetes. It reflects the average blood glucose level over the past 2-3 months (110 days in dogs, 70 days in cats). In other countries, the cost of testing pet A1C is at least 99 USD, and the blood sample needs to be sent to a specialised laboratory for testing. The more glucose data available from the CGM, the more accurate the estimated A1C will be. Additionally, the level of A1C reduction is positively correlated with the frequency of CGM use.



# Add Events



**Add new event** X

Exercise Insulin Food BG Weight

Please Enter BG Value  
Please enter

Photo Record  
[Camera Icon]

2021-06-01 14:08

**Confirm**

**Add new event** X

Exercise Insulin Food BG Weight

Food Name  
Please enter

Amount  
Please enter g

2021-06-01 14:08

**Confirm**

**Add new event** X

Exercise Insulin Food BG Weight

Please enter Mins

Intense Medium Low

Remark  
Please enter remark

2021-06-01 14:08

**Confirm**

**Add new event** X

Exercise Insulin Food BG Weight

Insulin Type  
Please Select

Insulin Dose  
Please enter Units

2021-06-01 14:08

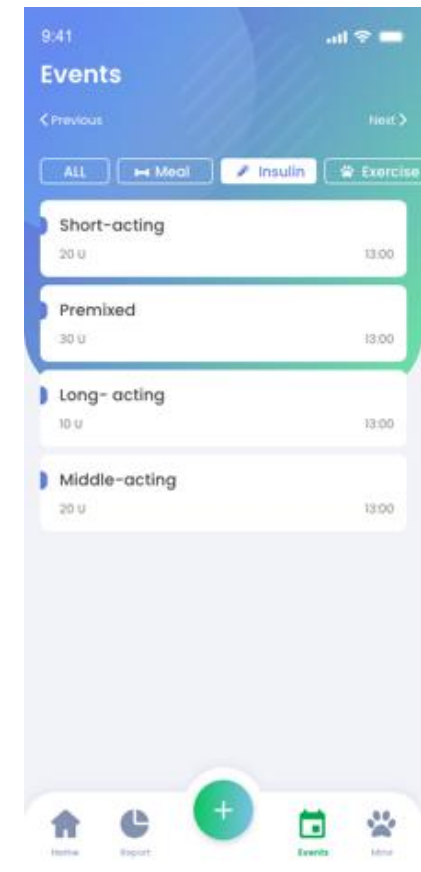
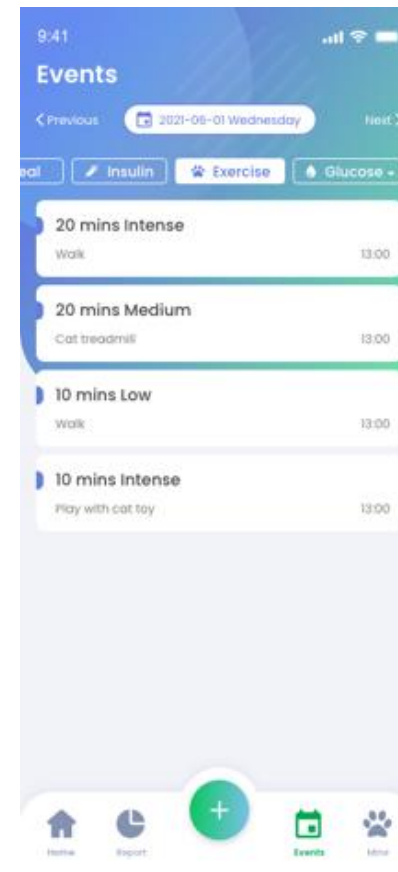
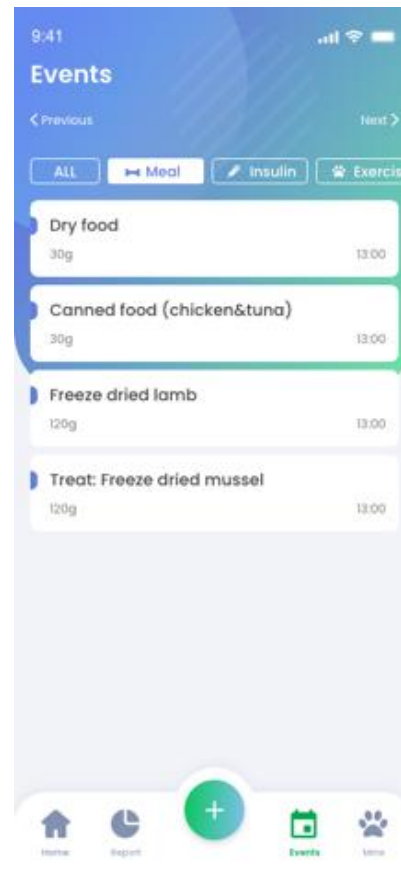
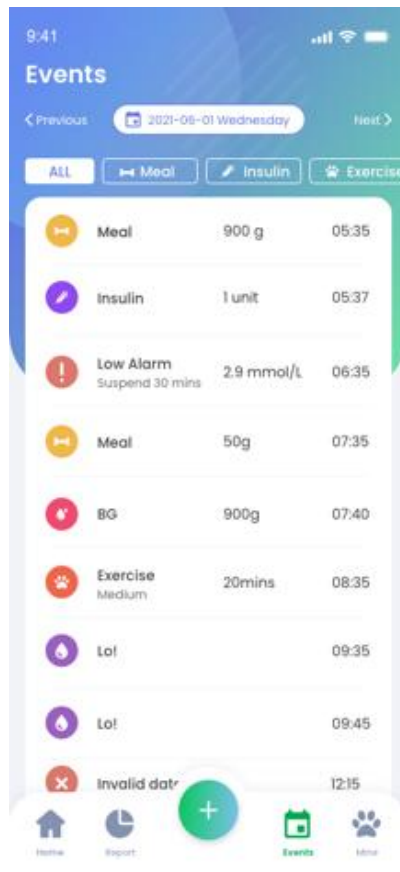
**Confirm**

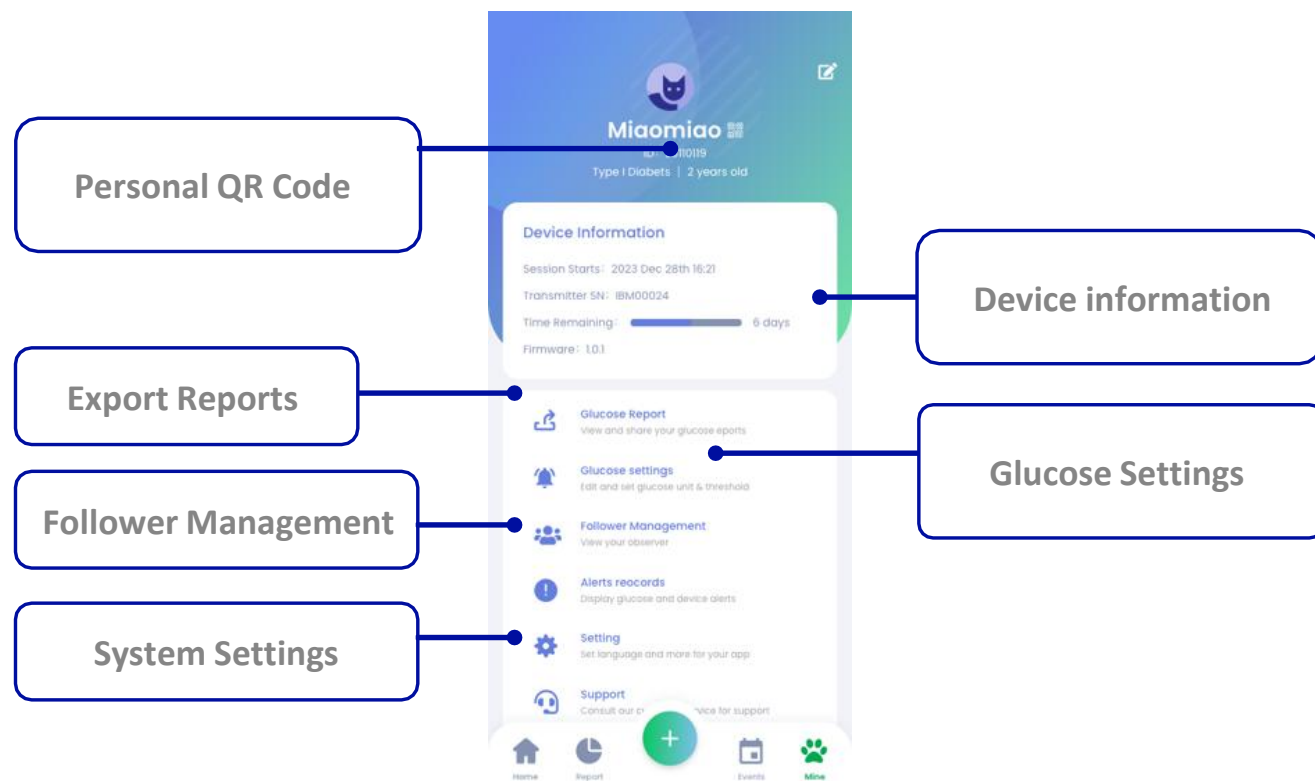
Recording events and observing blood glucose data allows pet owners and veterinarians to adjust the pet's diet and behaviours more promptly.

For example, when pre-meal blood glucose levels rise, reducing carbohydrate intake in the pet's food or taking a walk after meals can help prevent blood glucose spikes.

Using a CGM can also prevent hypoglycaemia during outdoor activities. By monitoring trends and receiving early warnings, pet owners and veterinarians can adjust the pet's insulin dosage before and after exercise to prevent blood glucose fluctuations.

# Events List

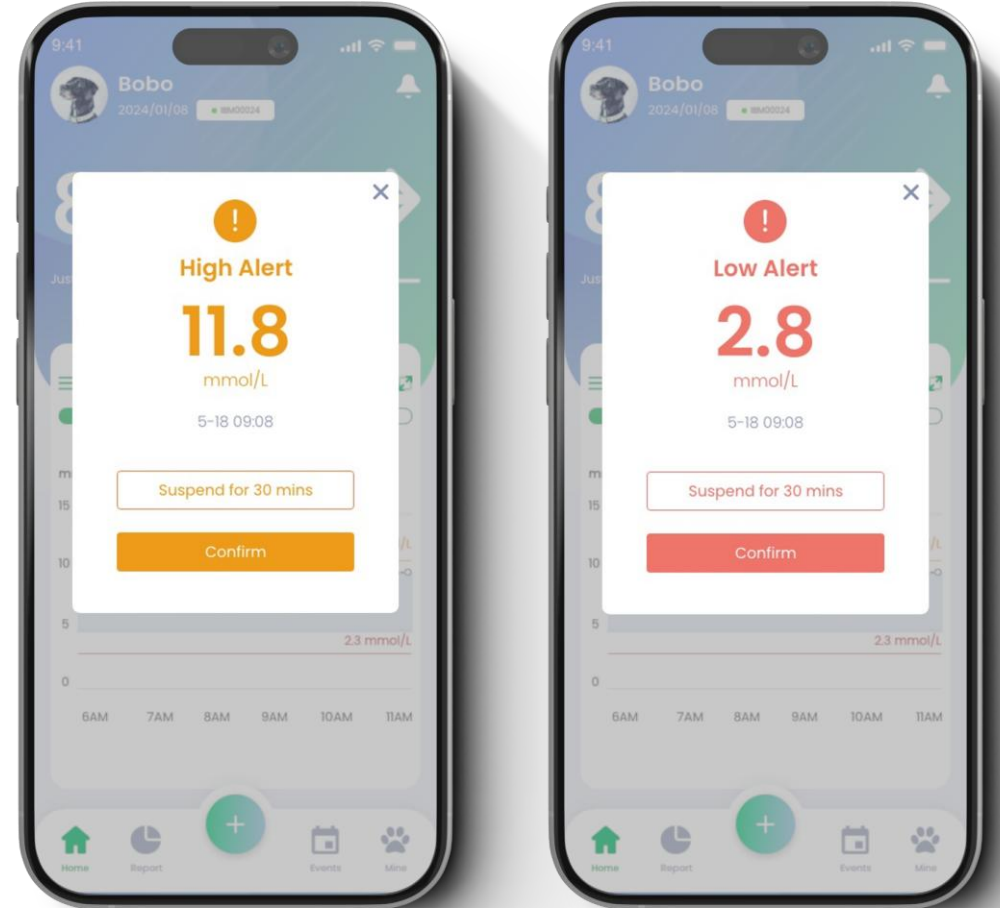




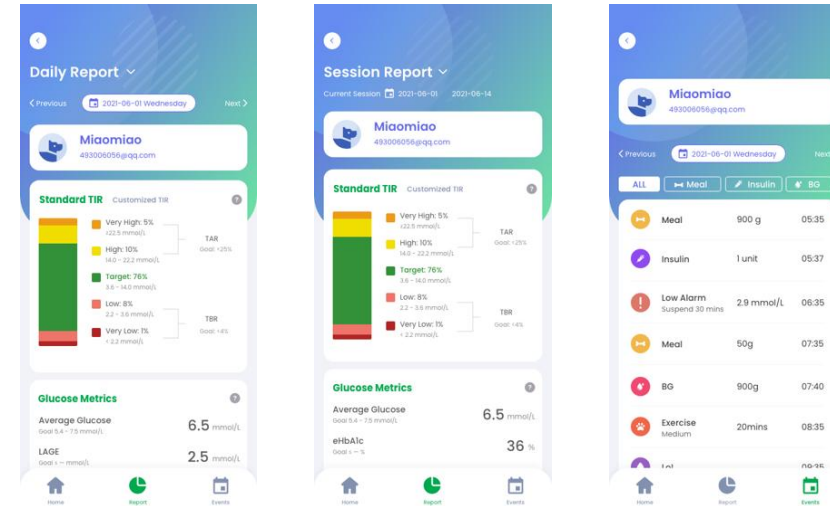


# Alert

When high or low glucose events occur, the app will send real-time notifications, allowing pet owners to take timely action.



# InSight Vet CGM App

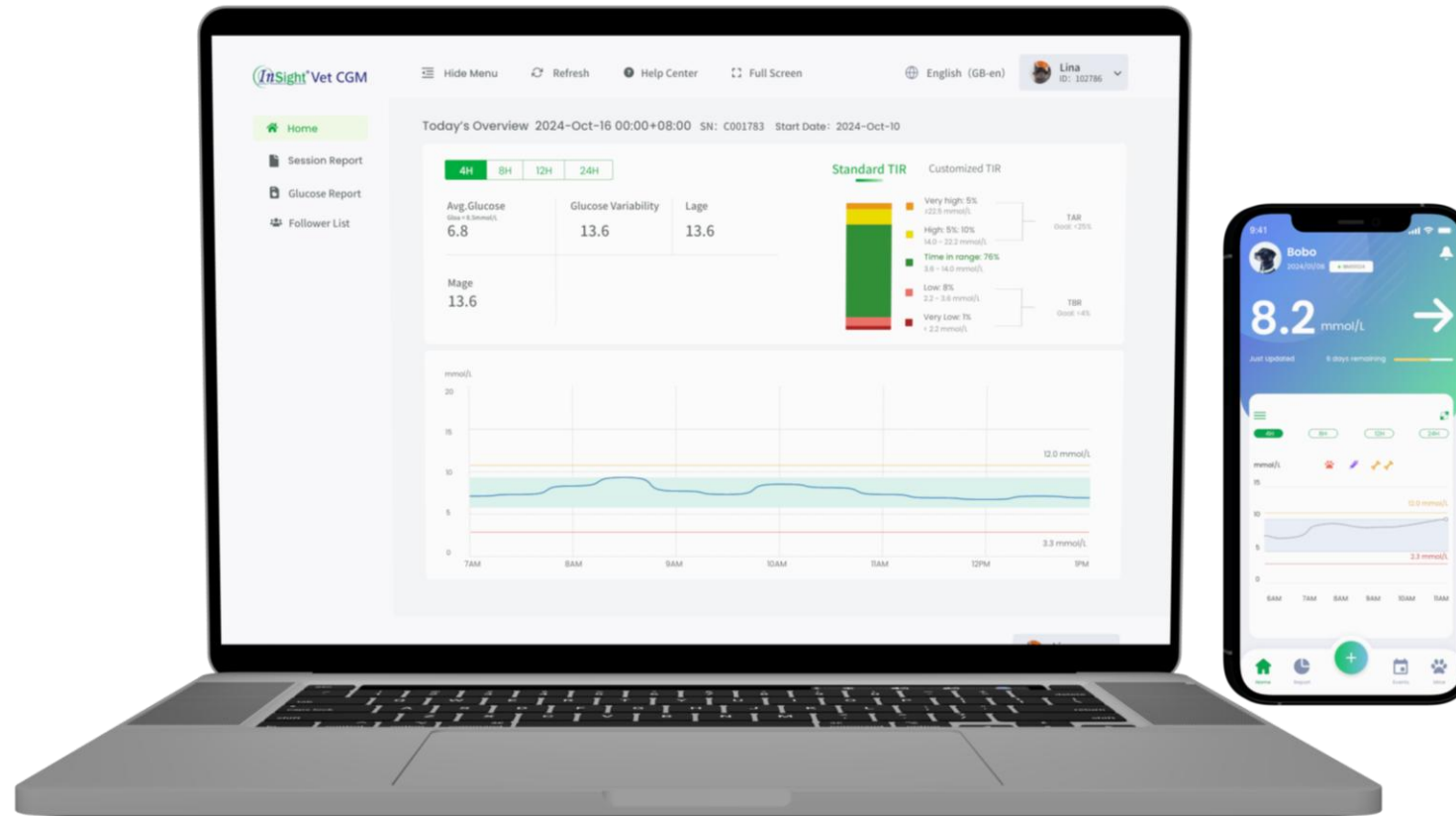


Download InSight Vet CGM



# Web Dashboard

[www.user.insightvetcgm.com](http://www.user.insightvetcgm.com)





**Thank You**