

The 3rd Generation Real-Time CGM System

GlucoMen[®] iCan



Take Your **Time**
Live **in Range**



glucomen-ican.com

A.MENARINI
diagnostics

The 3rd Generation System



	1 st Generation	2 nd Generation	3 rd Generation
	Use oxygen (O ₂) as the electron transfer medium in combination with a high operating voltage	Use artificial redox agents as the electron transfer media in combination with lower operating voltages	
	<ul style="list-style-type: none">✓ Vulnerable to interference from electrochemically active endogenous and exogenous chemicals✓ Vulnerable to oxygen interference when tissue O₂ levels go down	<ul style="list-style-type: none">✓ Less interfered by oxidizable chemicals as compared to 1st generation sensors✓ Less interfered by oxygen concentration as compared to 1st generation sensors	<ul style="list-style-type: none">✓ Limited susceptibility to interference from oxidizable chemicals✓ Immune to oxygen interference
Reaction	O ₂ / H ₂ O ₂ oxidoreduction	Mediated oxidoreduction	Direct electron transfer
Enzyme	Glucose Oxidase (GOx)	Glucose Oxidase (GOx)	Modified Glucose Dehydrogenase-FAD (GDH-FAD)
Interferant	Acetaminophen, O ₂	Ascorbic Acid, O ₂	No interference from Acetaminophen, Ascorbic Acid, and O ₂

GDH-FAD Based Technology



High Accuracy:
8.71% overall MARD



Interference Resistance

No Interference from Acetaminophen, Ascorbic Acid (Vitamin C), and O₂

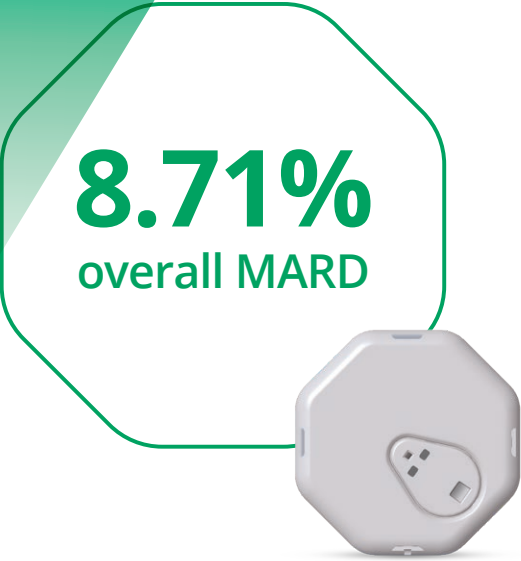


15-Day Effective and Comfortable Wear Life

Full-Featured App



High Accuracy



Confirmed **Sensor Accuracy**
Across Multiple Glucose Ranges

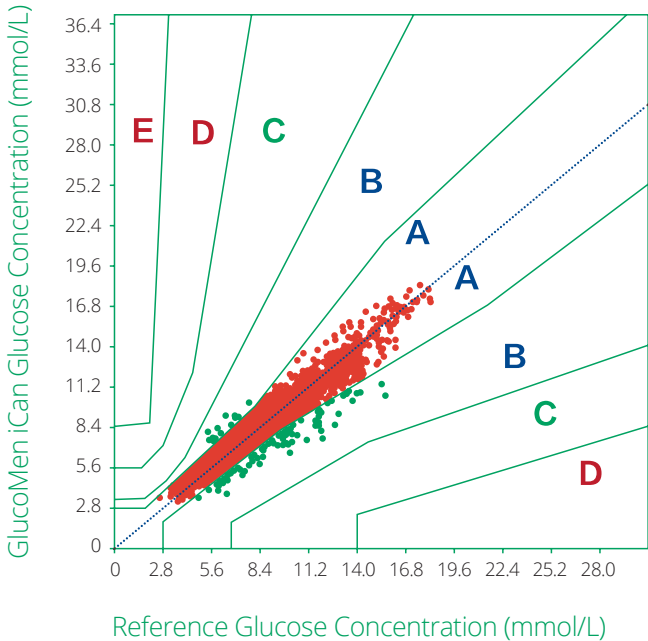
YSI glucose level, mmol/L	% within ±0.83 mmol/L or 15%	% within ±1.11 mmol/L or 20%	% within ±1.67 mmol/L or 30%	% within ±2.22 mmol/L or 40%	MAD, mmol/L or MARD,%	Matched pairs
<3.9	94.74	100.00	100.00	100.00	0.55	39
3.9-10.0	83.64	93.00	98.69	99.56	8.94	1,143
10.0-13.9	85.38	93.99	98.96	100.00	7.99	383
>13.9	92.23	97.09	99.03	100.00	6.14	103
Overall	84.83	93.65	98.80	99.70	8.71	1,668

YSI, Yellow Springs Instrument; **MAD**, mean absolute difference is provided for glucose levels <3.9 mmol/L, and is expressed as mmol/L; **MARD**, mean absolute relative difference is provided for glucose levels ≥3.9 mmol/L, and is expressed as %.

Clinical Accuracy

1,668 data pairs, **100%** fell in zones **A+B**

Consensus Error Grid*



A: no effect on clinical action; **B**: little or no effect on clinical outcome;
C: likely to affect clinical outcome; **D**: could have significant medical risk;
E: could have dangerous consequences.

* Consensus Error Grid for Type 1 Diabetes

	Count	Prop	95%CI
A	1,559	93.47%	(92.18%, 94.55%)
B	109	6.53%	(5.45%, 7.82%)
C	0	0.00%	
D	0	0.00%	
E	0	0.00%	
A+B	1,668	100%	(99.77%, 100.00%)

For Self-Monitoring of Blood Glucose (SMBG) meters **EN ISO 15197:2015** requires 99% of all data pairs to be located in Zones A+B.

Demonstrated **Single Digit MARD** Stability Over 15 Day Wear Life



Interference Resistance



Stop Negative Influence by:

Acetaminophen
Oxygen (O₂)
Ascorbic Acid (Vitamin C)

No Clinically Relevant
Effect Observed
With Moderate
Physical Exercise

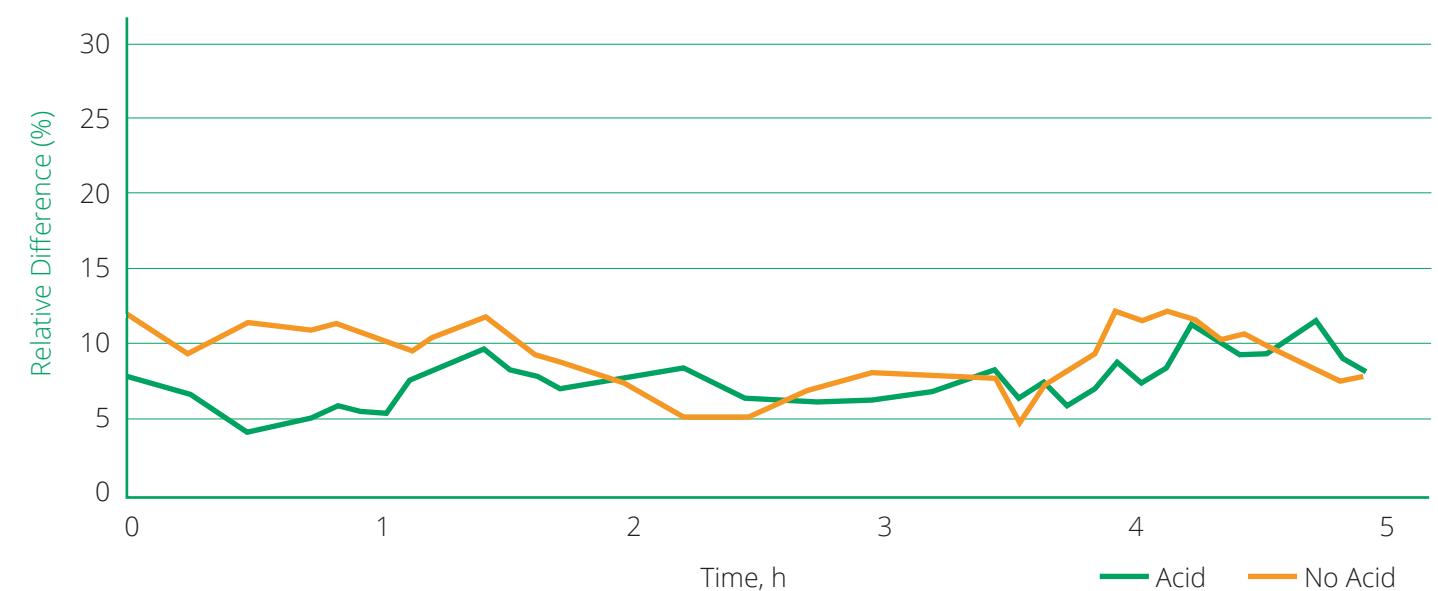
BG range (YSI), mmol/L	Δ MAD, mmol/L	Δ MARD, %
<3.9	-0.04	
3.9-10.0		-1.2
>10.0		-1.7
Overall		-1.3

GlucoMen iCan relies on a modified GDH-FAD enzyme sensor which **overcomes the issues related to oxygen limitation.**

No Clinically Relevant
Effect Observed With
Ascorbic Acid

BG range (YSI), mmol/L	Δ MAD, mmol/L	Δ MARD, %
<3.9	-0.17	
3.9-10.0		-1.1
>10.0		-1.7
Overall		-1.6

iCan vs YSI MARD: With and Without **Ascorbic Acid**

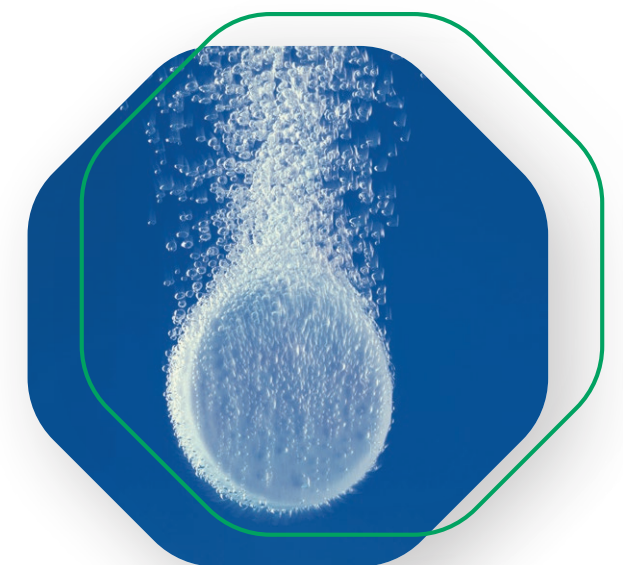


Why Ascorbic Acid?

Ascorbic Acid is one of the most commonly taken **OTC / GSL vitamin supplements.**

Vitamin C is a strong antioxidant that inactivates free radicals and can be oxidized at the surface of electrochemical strips/sensors, producing electrons that increase the measured current, leading to overestimated glucose readings.*

GlucoMen iCan relies on a low operating voltage sensor which overcomes this issue.



* Cho J, Ahn S, Yim J, Cheon Y, Jeong SH, Lee SG, Kim JH. Influence of Vitamin C and Maltose on the Accuracy of Three Models of Glucose Meters. Ann Lab Med. 2016 May;36(3):271-4. doi: 10.3343/alm.2016.36.3.271. PMID: 26915620; PMCID: PMC4773272.

High Wearability



15-Day Effective and Comfortable Wear Life



Pricking Calibrating Scanning



Demonstrated Effective Sensor Wear Life

Mean Sensor Wear Life: exceeds 14 Days

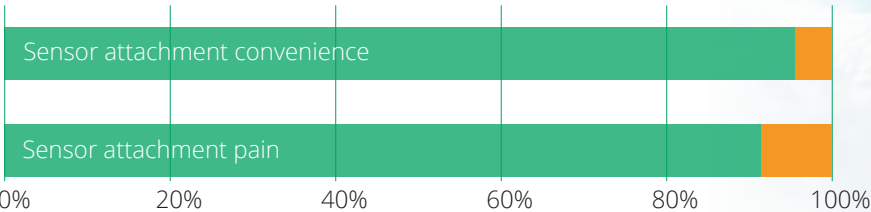
	Indicator	Per Protocol Set (n=57 subjects)
Sensor Wear Life [Days]	Sensors (missing)	114 (0)
	Mean (SD)	14.75 (1.29)
	Median	15.00

SD, standard deviation

Nearly All Sensors (>99%) Operating Effectively at Day 15

	Indicator	Per Protocol Set (n=57 subjects)
Effective Sensors measured at Day 15	Effective Sensors (%)	107 (99.07%)
	Ineffective Sensors (%)	1 (0.93%)
	Total Sensors (missing)	108 (0)

Patient Reported Feedback Confirms Day 1 Comfort and Convenience



Good Fair Bad

Good	Fair	Bad
94.74% (54)	5.26% (3)	0.00% (0)
91.23% (52)	8.77% (5)	0.00% (0)

IP28 Rating Waterproof to 2.5 meters for up to 2 hours

Small & Light Sensor 32 mm width, 5.7 mm thickness 5.2 g weight

Hypoallergenic Tape Colophony, PVC, Latex, IBOA certified free

Full-Featured App

Seamless Readability and Optimized Display with an Intuitive User Interface

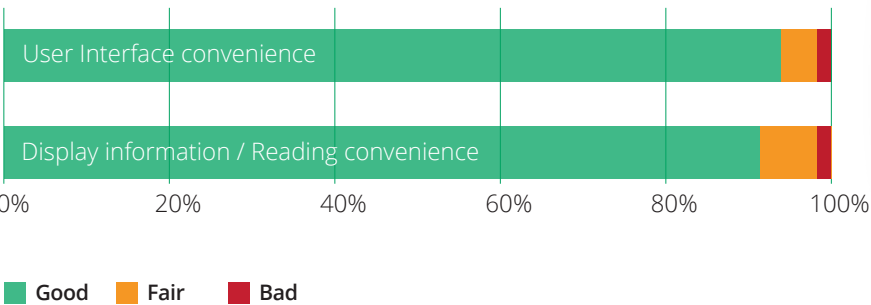


- Detailed **Trend Arrows** (7 modes)
- Multiple Day** View
- AGP** and Exclusive **Graph Report**
- Customizable high/low glucose **real-time Alerts**
- Available in more than **20 languages** (changeable at any time)
- Compatible with a **wide range of smartphones**
- In-App **Video Tutorials**



3-minute real-time data update
(7,200 glucose readings over 15 Days)

Validated by Users:
15 Days of Convenient Experience



Good	Fair	Bad
92.98% (53)	5.26% (3)	1.76% (1)
91.23% (52)	7.02% (4)	1.75% (1)

Simple to Connect with Caregivers and HCPs



iCan Reach App

- Reach partner receives the same view & alerts as user
- Reach HCP can receive data from 10 active users

iCan App



GlucoMen[®] iCan



TECHNICAL SPECIFICATIONS

GlucoMen iCan Sensor

Sensor glucose assay method: Amperometric electrochemical sensor

Sensor glucose result range: 2.0 mmol/L – 25.0 mmol/L

Sensor life: Up to 15 days

Shelf life: Up to 18 months

Transmitter battery type: 1 non-serviceable, non-rechargeable button cell inside the transmitter, DC 1.5 V

Data Communication Range: 6 meters (20 ft) unobstructed

IP Rating: IP28 (waterproof: 2.5 meters x 2 hours)

Storage and transport temperature: 2°C to 30°C (36°F to 86°F)

Storage and transport humidity: 10% - 90% Relative humidity

Operating temperature: 10°C to 42°C (50°F to 108°F)

Operating humidity: 10% - 90% Relative humidity

The iCan CGM APP operation environment minimum requirements:

Platform: Android 8.1 and above, iOS 14.1 and above

Bluetooth version: Bluetooth 5.0

Memory: 1 GB and above

CPU: Main frequency 1.4 GHz and above

Screen: No less than 12 cm (4.7 inches)

Resolution: No less than 1280x720

Storage capacity: No less than 500 MB

Network: WLAN (Wireless Local Area Network) or cellular network (4G and above), as well as Bluetooth function

Note: For the complete list of technical specifications, please refer to the **GlucoMen iCan User Guide**.

“ I can start wearing the
GlucoMen iCan on my
tummy from **age 2!** ”



References:

Data on file, Sinocare Meditech

This content is intended for Healthcare Professionals only.
Prescribing Information for GlucoMen iCan CGM System
may be found at glucomen.com

