

SIDE BY SIDE COMPARISONS OF GLUCOSE MONITORING SYSTEMS (Updated September 2024)

This comparison table of the features of the most current systems available in Aotearoa/New Zealand and is designed to help you find the technology that best meets your individual needs and preferences. None of these devices are currently funded. This information was provided by MediRay New Zealand, New Zealand Medical & Scientific (NZMS) Intermed Medical NZ, and Intuitive Therapeutics.

	Abbott Freestyle Libre-2	Abbott Freestyle Libre 3+	Dexcom One +	Dexcom G6	Dexcom G7	Medtronic Guardian™ 4 transmitter & Guardian Sensor 4	Medtronic Guardian Connect (Guardian Connect Transmitter & Guardian Sensor 3)	Aidex
	Funded from October 1 st 2024	Funded from October 1 st 2024	Funded from October 1 st 2024	Funded from October 1 st 2024	Funded from October 1 st 2024			
Ability to use Hybrid Closed Loop Therapy when integrated with pump	Stand-alone system	Only Compatible with mylife YpsoPump and pending for Tandem T-Slim x2 pump	Stand-alone system	Compatible with Tandem t:slim X2™ Insulin Pump and mylife YpsoPump	Compatible with Tandem t:slim X2™ Insulin Pump	Compatible with MiniMed 770G / 780G Insulin Pump	Stand-alone system	DIY Only
Age limitations	From 4 years ^a	From 2 years	From 2 years	From 2 years	From 2 years	No age restrictions	No age restrictions	From 14 years
Accuracy/MARD^b	9.7% (4–17 year olds)	8.6% paediatric (age 6-17) 7.5% adult	18+ (arm) – 8.2% 18+ (abdomen) – 9.1% 7-17 (arm) – 8.1% 7-17 (abdomen) – 9.0%	9.6% (age 6 – 17) 9.9% (age 2 – 5)	18+ (arm) – 8.2% 18+ (abdomen) – 9.1% 7-17 (arm) – 8.1% 7-17 (abdomen) – 9.0%	10.8%	8.7% (Combined Ages)	9.08%
Do you still need to do finger-pricks?	If sensor glucose does not match the way you are feeling.	Finger pricks are required if glucose readings and alarms do not match symptoms or expectations	No	No	No	No, calibration free	Yes – to calibrate the system twice per day	If sensor glucose does not match the way you are feeling.
Live sharing data?	Yes	No - Unless linked via insulin pump device	Yes – up to 10 followers if using phone app	Yes – up to 10 followers if using phone app	Yes – up to 10 followers if using phone app	Yes, up to 5 care partners	Yes, up to 5 care partners	Yes

	Abbott Freestyle Libre 2	Abbott Freestyle Libre 3 Plus	Dexcom ONE+	Dexcom G6	Dexcom G7	Medtronic Guardian™ 4 transmitter & Sensor	Medtronic Guardian Connect	Aidex
Low/high glucose alarms?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Are glucose trends displayed?	Yes	Yes via insulin pump device	Yes	Yes	Yes	Yes	Yes	Yes
Range: How close does the sensor have to be to the receiver?	For alarm notifications the Reader within 6 meters of sensor and 1-4cm from Sensor to scan	10 metres	6 metres	6 metres	6 metres	About 6 metres	About 6 metres	2 metres
Affected by medications?	Yes, Vitamin C ^d	No	Yes, Hydroxyurea	No	Yes, Hydroxyurea	Yes, Paracetamol ^c	Yes, Paracetamol ^c	No
Sensor life	Up to 14 days	Up to 15 days	10 days with 12 hour grace period	10 days	10 days with 12 hour grace period	7 days	7 days	14 days
Transmitter Life	N/A	N/A	N/A	3 months	N/A	Over a year	Over a year	4 years +
Transmitter Warranty Period	Up to 14 days	N/A	N/A	3 months	N/A	12 months	12 months	4 years
Combined Sensor + Transmitter Size	3.5 cm diameter and 0.5 cm thick	21 x 2.9mm	24 x 27.3 x 4.6mm	4.1 x 2.2 x 0.8 cm	24 x 27.3 x 4.6mm	2.87 x 3.58 x 0.96 cm Transmitter is approx. 5.4 gm	2.87 x 3.58 x 0.96 cm Transmitter is approx 5.4 gm	35mm (L) x 21mm (W) x 9mm (H)
Warm Up Period	60 minutes	60 minutes	30 minutes	2 hours	30 minutes	2 hours	Up to 2 hours	60 minutes
Water Resistance?	1 metre of water for up to 30 minutes	1 metre of water for up to 30 minutes	2.4 metres for 24 hours	2.4 metres of water for 24 hours	2.4 metres for 24 hours	Waterproof 2.4 meters for 30 minutes	Waterproof 2.4 meters for 30 minutes	1 metre of water for 30 minutes
Distributor	MediRay New Zealand www.mediray.co.nz	MediRay New Zealand www.mediray.co.nz	New Zealand Medical & Scientific (NZMS) www.nzms.co.nz	New Zealand Medical & Scientific (NZMS) www.nzms.co.nz	New Zealand Medical & Scientific (NZMS) www.nzms.co.nz	Intermed Medical NZ www.medtronicdiabetes.intermed.co.nz	Intermed Medical NZ www.medtronicdiabetes.intermed.co.nz	Order online from www.intuitivetherapeutics.co.nz

^a The indication for children (age 4 - 17) is limited to those who are supervised by a caregiver who is at least 18 years of age.

^b MARD = Mean Absolute Relative Difference. This reflects the difference between the glucose monitor readings and the glucose values obtained from a lab analyser. A lower value means values are closer to the lab reference values, therefore deemed more accurate. The practical implications of these differences are not considerable.

^c Paracetamol may falsely raise glucose levels.

^d Vit C may falsely raise sensor readings – (taking more than 500mg of ascorbic acid per day, may affect Sensor readings)