

SIDE BY SIDE COMPARISONS OF GLUCOSE MONITORING SYSTEMS (Updated 2023)

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	Abbott Freestyle Libre-2	Aidex	Dexcom G6	Dexcom G7	Medtronic Guardian™ 4 transmitter & Guardian Sensor 4	Medtronic Guardian™ 3 transmitter & Guardian Sensor 3	Medtronic Guardian Connect (Guardian Connect Transmitter & Guardian Sensor 3)
CGM or iCGM?	iCGM	CGM	CGM	CGM	CGM	CGM	CGM	CGM
Ability to use Hybrid Closed Loop Therapy when integrated with pump	Stand-alone system	Stand-alone system	DIY Only	Compatible with Tandem t:slim X2™ Insulin Pump	Stand-alone system	Compatible with MiniMed 770G / 780G Insulin Pump	Partially with Minimed 640G Insulin Pump	Stand-alone system
Age limitations	From 4 years ^a	From 4 years ^a	From 14 years	From 2 years	From 2 years	No age restrictions	No age restrictions	No age restrictions
Accuracy/MARD^b	13.9% (4–17 year olds)	9.7% (4–17 year olds)	9.08%	9.6% (6 – 17 year olds) 9.9% (2 – 5 year olds)	18+ (arm) – 8.2% 18+ (abdomen) – 9.1% 7-17 (arm) – 8.1% 7-17 (abdomen) – 9.0%	10.8%	8.7% (Combined Ages)	8.7% (Combined Ages)
Do you still need to do finger-pricks?	Yes, during times of rapidly changing glucose levels or for hypoglycaemia.	If sensor glucose does not match the way you are feeling.	If sensor glucose does not match the way you are feeling.	No	No	No, calibration free	Yes – to calibrate the system twice per day	Yes – to calibrate the system twice per day
Live sharing data?	No unless linked to a third party device	Yes	Yes	Yes – up to 10 followers	Yes – up to 10 followers	Yes, up to 5 care partners	No	Yes, up to 5 care partners
Low/high glucose alarms?	Yes, only at time of scan.	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Are glucose trends displayed?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

As kaitiaki (caregivers/guardians) of diabetes related services, it is a collective responsibility to establish an environment that facilitates a pathway for people with diabetes to navigate te ao mate huka - the world of diabetes

Te Kaiwhakahaere Māori te Roopu mate huka Debbie Rawiri - Te Whatu Ora Waitaha Canterbury

	Abbott Freestyle Libre	Abbott Freestyle Libre	Aidex	Dexcom G6	Dexcom G7	Medtronic Guardian™ 4 transmitter & Sensor	Medtronic Guardian™ 3 transmitter & Sensor	Medtronic Guardian Connect
Range: How close does the sensor have to be to the receiver?	Reader needs to “scan” the sensor (1-4 cm apart) even through clothing	For alarm notifications the Reader within 6 meters of sensor and 1-4cm from Sensor to scan	2 metres	6 metres	6 metres	About 6 metres	About 1.8 metres	About 6 metres
Affected by medications?	No	Yes, Vitamin C ^d	No	No	Yes, Hydroxyurea	Yes, Paracetamol ^c	Yes, Paracetamol ^c	Yes, Paracetamol ^c
Sensor life	Up to 14 days	Up to 14 days	14 days	10 days	10 days with 12 hour grace period	7 days	7 days	7 days
Transmitter Life	N/A	N/A	4 years +	3 months	N/A	Over a year	Over a year	Over a year
Transmitter Warranty Period	Up to 14 days	Up to 14 days	4 years	3 months	N/A	12 months	12 months	12 months
Combined Sensor + Transmitter Size	3.5 cm diameter and 0.5 cm thick	3.5 cm diameter and 0.5 cm thick	35mm (L) x 21mm (W) x 9mm (H)	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	2.87 x 3.58 x 0.96 cm Transmitter is approx 5.4 gm
Warm Up Period	60 minutes	60 minutes	60 minutes	2 hours	30 minutes	2 hours	Up to 2 hours	Up to 2 hours
Water Resistance?	1 metre of water for up to 30 minutes	1 metre of water for up to 30 minutes	1 metre of water for 30 minutes	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	Waterproof 2.4 meters for 30 minutes
How do I obtain the device?	MediRay New Zealand www.mediray.co.nz 0800 106 100 info@mediray.co.nz	MediRay New Zealand www.mediray.co.nz 0800 106 100 www.freestylelibre.co.nz	Order online from www.intuitivetherapeutics.co.nz	New Zealand Medical & Scientific (NZMS) www.nzms.co.nz +64 9 259 4062 nzms@nzms.co.nz	New Zealand Medical & Scientific (NZMS) www.nzms.co.nz +64 9 259 4062 nzms@nzms.co.nz	Intermed Medical NZ www.medtronicdiabetes.intermed.co.nz 0800 333 444 orders@intermed.co.nz	Intermed Medical NZ www.medtronicdiabetes.intermed.co.nz 0800 333 444 orders@intermed.co.nz	Intermed Medical NZ www.medtronicdiabetes.intermed.co.nz 0800 333 444 orders@intermed.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)