

## SIDE BY SIDE COMPARISONS OF GLUCOSE MONITORING SYSTEMS (Updated 2020)

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) and Intermed Medical NZ.

	Abbott Freestyle Libre	Dexcom G6	Medtronic Guardian™ 3 transmitter (G3) (GS3 Sensor)	Medtronic Guardian Connect (G3 Transmitter & GS3 Sensor)	MiniLink Transmitter (Enlite Sensor)
<b>CGM or FGM?</b>	FGM	CGM	CGM	CGM	CGM
<b>Stand alone or integrated with pump?</b>	Stand alone	Stand alone and compatible with Tandem t:slim X2™ Insulin Pump	Integrated with Minimed 640G Insulin Pump	Stand-alone system communicates to a mobile phone/smart device.	Integrated with 522/722,554/754 Medtronic pumps
<b>Age limitations</b>	From 4 years <sup>a</sup>	From 2 years	Over 2 years old	Over 2 years old	No age restrictions
<b>Accuracy/MARD<sup>b</sup></b>	13.9% (4–17 year olds)	9.6% (6 – 17 year olds) 9.9% (2 – 5 year olds)	8.7% (Combined Ages)	8.7% (Combined Ages)	10.8% (Combined Ages)
<b>Do you still need to do finger-pricks?</b>	Yes, during times of rapidly changing glucose levels or for hypoglycaemia.	No	Yes – to calibrate the system twice per day	Yes – to calibrate the system twice per day	Yes – to calibrate the system twice per day
<b>Live sharing data?</b>	No unless linked to a third party device	Yes –up to 10 followers	No	Yes, up to 5 care partners	No
<b>Low/high glucose alarms?</b>	Yes, only at time of scan.	Yes	Yes	Yes	Yes
<b>Are glucose trends displayed?</b>	Yes	Yes	Yes	Yes	Yes
<b>Range: How close does the sensor have to be to the receiver?</b>	Reader needs to “scan” the sensor (1-4 cm apart) even through clothing	6 metres	About 1.8 metres	About 6 metres	About 1.8 metres
<b>Affected by medications?</b>	No	No	Yes, Paracetamol <sup>c</sup>	Yes, Paracetamol <sup>c</sup>	No
<b>Sensor life</b>	Up to 14 days	10 days	7 days	7 days	6 days

<b>Transmitter Life</b>	N/A	3 months	Over a year	Over a year	Over a year
<b>Transmitter Warranty Period</b>	Up to 14 days	3 months	12 months	12 months	12 months
<b>Combined Sensor + Transmitter Size</b>	3.5 cm diameter and 0.5 cm thick	4.1 x 2.2 x 0.8 cm	2.87 x 3.58 x 0.96 cm Transmitter is approximately 5.4 gm	2.87 x 3.58 x 0.96 cm Transmitter is approximately 5.4 gm	2.87 x 3.58 x 0.96 cm Transmitter is approximately 5.4 gm
<b>Warm Up Period</b>	60 minutes	2 hours	Up to 2 hours	Up to 2 hours	Up to 2 hours
<b>Water Resistance?</b>	1 metre of water for up to 30 minutes	2.4 metres of water for 24 hours	Waterproof 2.4 meters for 30 minutes	Waterproof 2.4 meters for 30 minutes	Waterproof 2.4 meters for 30 minutes
<b>How do I obtain the device?</b>	MediRay New Zealand <a href="http://www.mediray.co.nz">www.mediray.co.nz</a> 0800 106 100 <a href="mailto:info@mediray.co.nz">info@mediray.co.nz</a>	New Zealand Medical & Scientific (NZMS) <a href="http://www.nzms.co.nz">www.nzms.co.nz</a> +64 9 259 4062 <a href="mailto:nzms@nzms.co.nz">nzms@nzms.co.nz</a>	Intermed Medical NZ <a href="http://www.intermed.co.nz">www.intermed.co.nz</a> 0800 333 444 <a href="mailto:orders@intermed.co.nz">orders@intermed.co.nz</a>	Intermed Medical NZ <a href="http://www.intermed.co.nz">www.intermed.co.nz</a> 0800 333 444 <a href="mailto:orders@intermed.co.nz">orders@intermed.co.nz</a>	Intermed Medical NZ <a href="http://www.intermed.co.nz">www.intermed.co.nz</a> 0800 333 444 <a href="mailto:orders@intermed.co.nz">orders@intermed.co.nz</a>

<sup>a</sup> 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.

<sup>b</sup> 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.

<sup>c</sup> Paracetamol may falsely raise glucose levels.