

Surrey Heartlands Integrated Care System (ICS) Area Prescribing Committee

Summary and Comparison of CGM available on FP10

	Dexcom One	Dexcom One+	Freestyle Libre 3	Freestyle Libre 2	Freestyle Libre 2 Plus
Accuracy	MARD* 9%	MARD 8.2%	7.80%	9.20%	8.20%
PRICE Drug Tariff May 24	£23 (+£18 for transmitter every 3 mths)	£24.97	£42	£35	£37.50
Sensor Lifespan	up to 10-day lifespan	up to 10-day lifespan + 12-hour grace period	14days	14days	15days
Sensor size	Small sensor	Smaller sensor	Smaller sensor	small sensor	smaller sensor
Warm up of sensor?	2-hour warm up	30 minute warm up	60minutes warm up	60minutes warm up	60minutes warm up
Water resistance	Water resistance 2.4m - up to 24 hours	Water resistance 2.4m - up to 24 hours	Water-resistant up to 1 metre of water for 30 minutes. Can be worn while bathing, showering, swimming, and exercising	Water-resistant up to 1 metre of water for 30 minutes. Can be worn while bathing, showering, swimming, and exercising	Water-resistant up to 1 metre of water for 30 minutes. Can be worn while bathing, showering, swimming, and exercising
Transmitter	Separate 3-month transmitter	No separate transmitter required	No separate transmitter required	No separate transmitter required	No separate transmitter required
Alerts & Functionality	High and Low alerts	High and Low alerts	High and Low alerts	High and Low alerts	High and Low alerts
	Delay 1st Alert	Delay 1st Alert	Signal loss alert	Signal loss alert	Signal loss alert
Events	N/A	Ability to add Events and Notes			
Calibration	N/A	Optional calibration	Factory Calibrated	Factory Calibrated	Factory Calibrated
Data Share/ Follow	Clarity app – healthcare professionals	Clarity app shares with healthcare providers- Dexcom One+ app - Max 10 people	Libre View app - up to 20 people	Libre View app - up to 20 people	Libre View app - up to 20 people
Real-time or intermittently scanned readings	Glucose readings Real-time (minute-to-minute)	Glucose readings Real-time (minute-to-minute)	Glucose readings Real-time (minute-to-minute)	Glucose readings Real-time (minute-to-minute)	Glucose readings Real-time (minute-to-minute)
Connectivity	Smartphone iOS and Android	Smartphone iOS and Android	Smartphone iOS and Android	Smartphone iOS and Android	Smartphone iOS and Android
Dexcom Receiver	Dexcom Receiver	Dexcom Receiver and Smartwatch	Freestyle Libre Receiver	Freestyle Libre Receiver	Freestyle Libre Receiver
Wear Location	Back of arm	Back of upper arm	Back of upper arm	Back of upper arm	Back of upper arm
	Abdomen	Abdomen			
	Upper buttocks (children only 2-6)	Upper buttocks (children only 2-6)			
Age	2yrs	2yrs	4yrs	4yrs	2yrs

*Glossary

MARD: The mean absolute relative difference. A parameter used to characterise the measurement performance of systems (sensor + algorithm) for continuous glucose monitoring. Typically, a CGM system with a MARD <10% is regarded to have good analytical performance. The less the MARD is, the closer are the CGM readings to comparison values. Heinemann et al (2020)

Heinemann L, Schoemaker M, Schmelzeisen-Redecker G, Hunzmann R, Kassab A, Freckmann G, Reiterer F, Del Re L (2020) Benefits and Limitations of MARD as a Performance Parameter For Continuous Glucose Monitoring in the Interstitial Space. Journal of Diabetes Science and Technology Jan:14 (1):135-150