

Bath and North East Somerset, Swindon and Wiltshire Together

Intermittent and Real Time Continuous Glucose Monitoring (CGM) Systems available on FP10

A CGM system is made up of a **sensor** (small device that senses how much glucose is in the interstitial fluid) and a **reader or receiver** (small device that displays the results OR you can get results directly through app on smartphone). With Real-time CGM, results are automatically **transmitted** via Bluetooth. Intermittent CGM requires the user to wave (scan) the sensor for a reading.

	Freestyle Libre 2	Dexcom One	GlucoMen Day	GlucoRx AIDEX
Real-time CGM (rtCGM)	No	Yes	Yes	Yes
Intermittent CGM (isCGM)	Yes	No	No	No
MARD*	9.2	9.0	9.7	9.1
Published accuracy data	Yes (T1 n=133)	Yes (T1 n=260)	Yes (T1 n=55)	Yes (T1 n=14)
Sensor life	14 days	10 days	14 days	14 days
Sensor warm up time	60 mins	120 mins	55 mins	60 mins
Transmitter life and reordering information	N/A	3 months pharmacy to order replacements free of charge <u>read more here</u>	5 years	4 years
Reader available	Yes	Yes	Yes	No So this device is not an option for those without compatible apps/smart phones.
App needed	LibreLink	Dexcom One	GlucoMen Day CGM	GlucoRx AIDEX
Capillary glucose calibration	No	No	Every 48 hours See product information; will require BG test strips)	No
High & low alarms	Yes	Yes	Yes	Yes
Predictive alarms	No	No	Yes	No
Stand-alone use	Yes	Yes	Yes	Yes
Pump compatibility	No	No	No	No
Closed loop compatibility	No	No	No	No
Data share HCP	Libreview	Clarity	GlucoLog web	CGM Viewer
Data share friends/family	Yes	No	Yes	Yes
UK approved wearable site	Upper arm	Buttocks**, abdomen & upper arm	Lower back, abdomen & upper arm	Abdomen & upper arm
Further info	freestylelibre.com	dexcom.com	glucomenday.com	glucorx.co.uk

*MARD = mean absolute relative difference (MARD). This parameter is used to characterize the measurement performance of CGM systems. <u>Read more here</u>

**2-17 years old, please check individual manufacturers' guidelines for age specific licences

For learning modules specifically on diabetes technology, see https://abcd.care/dtn/academy Also see local guidance BSW ICB Policy for diabetes wearable technology for adults and children living with T1 Diabetes And national guidance NG17, NG18 policy for diabetes wearable technology for adults and children living with T1 Diabetes And national guidance NG17, NG18 policy for diabetes wearable technology for adults and children living with T1 Diabetes

Adapted, with permission, from Diabetes Specialist Nurse Forum UK Version 2.0 August 22 'Intermittent and real time continuous glucose monitoring systems comparison chart'.

Approved at BSW APC December 2022