# Summary and Comparison of CGM Table of choices for CGM for Children and Young People with Type 2 Diabetes.

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| **Features** |  |
| **Dexcom G7****Dexcom** | **Freestyle Libre 3** | **Dexcom One** | **Freestyle Libre 2** |
| Age Group Licence. | 2 years upwards | 4 years upwards | 2 years upwards | 4 years upwards |
| Prescribable on FP10?  | NO – hospital only  | NO – hospital only  | YES | YES |
| Real Time Device | Yes | Yes | Yes | No |
| Annual cost (exc receiver) | £2214  | £1121. | £925(inc transmit) | £910 |
| Sensor Cost | £51.25  | £43.00 | £25.00 | £35  |
| Current Availability Within SYHL | Available RED | Available RED | Requested – TLS tbc | Available BLUE |
| Where is the device sited? | Back of arm/abdomen.(upper buttocks 2-6 years) | Back of upper arm. | Back of arm/abdomen.(upper buttocks 2-17 years) | Back of upper arm. |
| Is a Separate Transmitter Needed? | No | No | Yes | No |
| Does the device have IOS/Android Compatibility? | Yes | Yes | Yes | Yes |
| Which App/ Sharing Platform | ClarityFollow AppGlooko | Freestyle Libre 3 | ClarityGlooko | Libreview |
| Calibration? | No | No | Possible | No |
| Is a receiver available? | Yes | No | Yes | Yes |
| Sensor Life | 10 days | 14 days | 10 days | 14 days |
| Transmitter Life | N/Acombined with sensor. | N/A combined with sensor | 3 months | N/A combined with sensor |
| Sensor Warm Up | 30 mins | 1 hour | 2 hours | 60 minutes |
| Predictive Low Glucose Alert | Yes | NO predictive low alert | No | No |
| Fixed Urgent Low Soon Alert | Yes:20 mins before low | Mandatory urgent low. | Low alert but not low soon. | Low alert but not low soon. |
| High Alerts | Yes | Yes | Yes | Yes |
| Approved for Non-Adjunctive use? | Yes | Yes | Yes | Yes |
| Water Resistant? | 2.4 meters up to 24 hours. | 1 meter up to 30 minutes. | 2.4 meters up 24 hours | 90cm for 30 minutes |
| Data share option with friends/family? | YesFollow App | YesLibreLinkup | No | Yes |
| Data share option with HCP? | YesClarity | YesLibreView | No | Yes |
| Mard\*? | 9% | 9.2% Paeds 9.7% | 9% | 9.2% Paeds 9.7% |
| CSII/Closed Loop Compatibilty? | No | No | No | No |

\*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