# 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 | Clarity  Follow App  Glooko | Freestyle Libre 3 | | Clarity  Glooko | 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/A  combined 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? | Yes  Follow App | Yes  LibreLinkup | | No | Yes |
| Data share option with HCP? | Yes  Clarity | Yes  LibreView | | 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