

Table S1. Key features of main CGM systems available on the Italian market

All information in this table is coming from the official User Guides and the eBook “Overview diabetes technology for healthcare providers “(last access July 2024; https://www.diabetotech.com/free_resources)

	Dexcom G6	Dexcom G7	Dexcom One Plus	Eversense E3	Simplera	Freestyle Libre 2	Freestyle Libre 2 Plus	Freestyle Libre 3	Syai Tag
Approved Age, years	≥2	≥2	≥2	≥18	≥2	≥4	≥2	≥4	≥18
FDA’s iCGM designation	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No
Threshold alerts (Range)	Yes, optional (Low: 60-100 mg/dL; High: 120-400 mg/dL)	Yes, optional (Low: 60-150 mg/dL; High: 100-400 mg/dL)	Yes, optional (Low: 60-150 mg/dL; High: 100-400 mg/dL)	Yes, high alert is optional (Low: 60-115 mg/dL; High: 125-350 mg/dL)	Yes, optional (Low: 60-90 mg/dL; High: 100-400 mg/dL)	Yes, optional (Low: 60-100 mg/dL; High: 120-400 mg/dL)	Yes, optional (Low 60-100 mg/dL; High: 120-400 mg/dL)	Yes, optional (Low: 60-100 mg/dL; High: 120-400 mg/dL)	Yes, optional (Low: 60-150 mg/dL; High: 80-450 mg/dL)
Rate of change alerts	Yes	Yes	No	Yes	Yes	No	No	No	Yes
Urgent Low Glucose	≤55 mg/dL	≤55 mg/dL (silenceable for 6 hours)	No	<40 mg/dL	≤54 mg/dL	No	No	No	<55 mg/dL
Predictive alerts	Yes (20 min before 55 mg/dL)	Yes (20 min before 55 mg/dL)	No	Yes (10-20-30 min before low and/or high)	Yes (up to 60 min before low and/or high)	No	No	No	Yes (20-30 min before low and/or 55 mg/dL)
Delay 1st High Alert	No	Yes	Yes	No	No	No	No	No	Yes
Snooze/ Repeat	No	Yes	Yes	Yes	Yes	No	No	No	Yes
Integration with other devices	Insulin pump, connected pen (through Glooko)	Insulin pump, connected pen (through Glooko)	Connected pen (through Glooko)	No	Smart pen	Connected pen	Connected Pens, Insulin Pumps	Insulin pump	No
Application Sites	Upper arm, abdomen, upper buttocks (2-17 years)	Upper arm, abdomen, buttocks (2-6 years)	Upper arm, abdomen, buttocks (2-6 years)	Upper arm	Upper arm, upper buttocks (2-17 years)	Upper arm	Upper arm	Upper arm	Upper arm
Dedicated receiver	Yes	Yes	Yes	No	No	Yes	Yes	Yes (not in all countries)	No
Transmitter & sensor	Non-preassembled	Preassembled	Preassembled	Non-preassembled	Preassembled	Preassembled	Preassembled	Preassembled	Preassembled

Size, mm	36x19x8	24x27.3x4.6	24x27.3x4.6	Sensor: 18.3x3.5; transmitter: 37.6x48x8.8	29x29x4.7	35x35x5	35x5X5	21x21x 2.9	24x24x3.5
Notes entry	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Calibration	Optional	Optional	Optional	2x/day, from Day 21 1x/day	Optional	No	No	No	No
Interferences	Hydroxyurea, acetaminophe n > 1 g every 6 hours	Hydroxyurea, acetaminophe n > 1 g every 6 hours	Hydroxyurea, acetaminophe n > 1 g every 6 hours	Mannitol, sorbitol,tetrac yclines	Hydroxyurea, acetaminophe n	Ascorbic acid > 500 mg/day	Ascorbic Acid > 1,000 mg/day	Ascorbic acid > 500 mg/day	Ascorbic acid, acetaminophe n, xylose, maltose
Impermeability	IP28	IP58	IP58	IP67	IP48	IP27	IP27	IP27	IPX8
Sensor duration, days	10	10 (+12 optional hours)	10 (+12 optional hours)	180	7	14	15	14	14
Warm up, hours	2	0.5	0.5	24	0.5	1	1	1	0.5
Use in pregnancy	Indicated	Indicated	Indicated	Not tested	Not contraindicate d	Indicated	Indicated	Indicated	Not contraindicate d
Non-adjunctive use	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Data sharing	Yes	Yes	Yes	Yes	Yes	Yes	yes	Yes	Yes
Download data platform	Dexcom Clarity	Dexcom Clarity	Dexcom Clarity	Eversense DMS	Carelink	Libreview	Libreview	Libreview	Syai - Doctor

FDA, United States Food And Drug Administration; iCGM, integrated Continuous Glucose Monitoring; IP, Ingress Protection