

Continuous Glucose Monitoring Systems

Product Name (Manufacturer)	Components	Description
DexCom Seven with Open Choice (DexCom)	Sensor, transmitter, receiver	FDA-approved for up to 7 days of continual use. Three pieces: Sensor is placed under the skin by 0.5-mm introducer needle; transmitter snaps into sensor and forms a waterproof pod that wirelessly transmits glucose information every 5 minutes to the receiver; and receiver displays real-time glucose data and trends. Alerts user when levels are above or below customized targets. Open Choice feature interfaces with any approved blood glucose monitor for calibration and lets user set any blood glucose value between 40 and 400 mg/dl. Receiver range is 5 feet. Approved for ages 18 and older. Includes DexCom's Data Manager 2, which downloads data from receiver to PC to analyze your glucose history.
FreeStyle Navigator (Abbott Diabetes Care)	Sensor, transmitter, receiver	Three components: sensor, which can be worn for up to 5 days on the back of the upper arm or abdomen; transmitter, which sends glucose readings to the receiver anywhere within a 10-foot range; and receiver, which displays glucose information. Arrows displayed on receiver project glucose rate and direction of change. Continuous glucose readings every minute. Customizable alarms alert user in advance of low and high blood glucose. Approved for ages 18 and older. Built-in FreeStyle blood glucose monitor to calibrate and to confirm blood glucose readings.
Guardian Real-Time (Medtronic Diabetes)	Sensor, transmitter, monitor	Three components: sensor, transmitter, and monitor. Glucose readings are taken every 10 seconds and averaged every 5 minutes for 24 hours a day. Continual use for up to 3 days. Customizable alarms. Trend graphs show effect of diet, exercise, medication, and lifestyle in 3-, 6-, 12-, and 24-hour increments. Approved for ages 7 and older. Trend arrows point up or down to show direction and rate of change.
MiniMed Paradigm Real-Time System (Medtronic Diabetes)	Sensor, transmitter, insulin pump	Integrated insulin pump and continuous glucose monitor. Continual use for up to 3 days. Reads glucose levels every 10 seconds. Customizable alarms. Receiver works within a 6-foot range. Approved for ages 7 and older. Functions similar to the Guardian Real-Time but relays data and information to MiniMed insulin pump. See pumps section (starting on page 49) for description of insulin pump functions.