Understanding Diabetes Technology

Insulin Delivery Systems Traditional Method - Pen injections

Connected Pens

Insulin is injected into the skin through a needle. Data held in the pen and is downloadable.

Patch Pumps

Insulin held in a small pod/patch connected to a cannula and attached to the skin, which needs to be changed every 2-3 days. Controlled via handheld device connected to Bluetooth.

Tubed Pumps

Insulin is delivered from a small pump device through a tube into a cannula, which sits just under the skin and has to be replaced every 2-3 days. Controlled using the handheld pump device.

Roche omnipod Medtronic Medtrum t:slim novo nordisk®

Glucose Monitoring Systems Traditional Method - Finger Prick

Flash (Available via prescription)

Also known as intermittent CGM (ICGM)

Small sensor reads glucose level in interstitial fluid and when scanned with reader or phone gives glucose reading and pattern of previous 8 hours. Alarms can be set for high and/or low readings.

Abbott Libre Libre 2

Continuous Glucose Monitoring

Small sensor reads glucose level in interstitial fluid and automatically sends realtime data to reader or phone to be viewed at any time. Options to set alarms for high and/or low readings. Can be used as part of a closed-loop system.

Libre 3 Medtrum Medtronic dexcom®

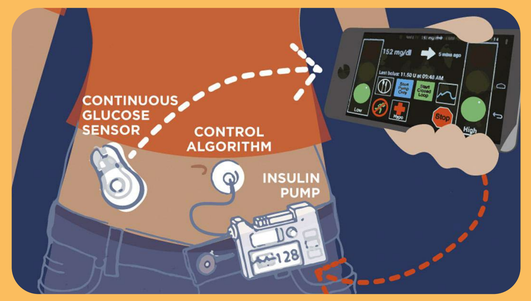
Closed Loop Systems Traditional Method - None

Hybrid Closed Loops

A pump working together with a CGM.

Insulin delivered via a pump under the control of data coming from the CGM via an algorithm which is either held within the pump or on a phone app.

Insulin is automatically adjusted with limited intervention from the patient, however carbohydrate calculations for food need to be entered.



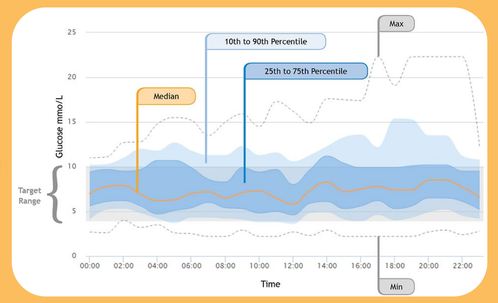
Not all combinations of pump/cgm available.

Medtronic 780G CamAPS | FX t:slim WITH Control-IQ TECHNOLOGY

Data Uploading Traditional Method - Hand Written Diary

Generic

Generic systems speed up the efficiency of teams by reducing the number of software packages needed to view data in clinics, however, not all devices currently allow uploading to generic systems.



Industry Generated

Industry developed systems allow upload of individual company devices only to share data with medical teams and support self-management.

All offer extensive and similar reporting options.

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