Automated Insulin Delivery (AID) Systems

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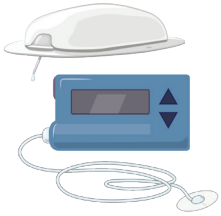
What are Automated Insulin Delivery Systems?

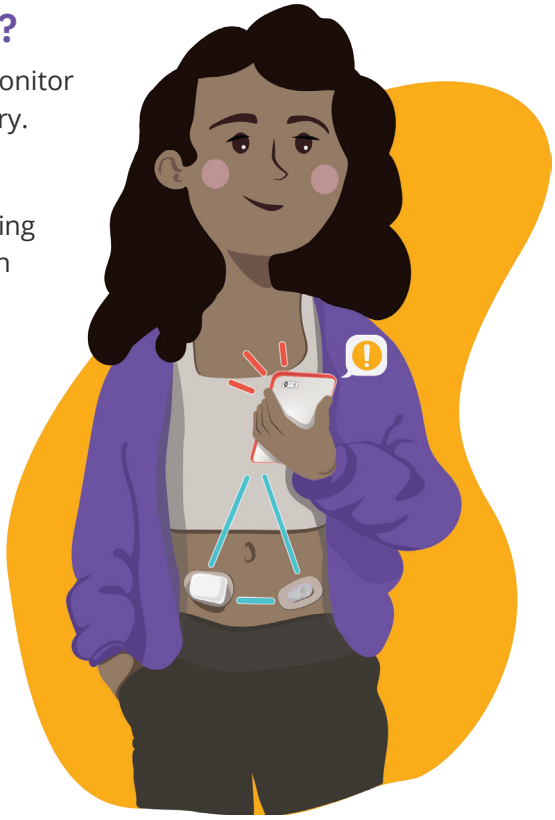
An insulin pump that communicates with a continuous glucose monitor (CGM) and smart algorithms to automatically adjust insulin delivery.

Continuous glucose monitor (CGM) tracks glucose values throughout the day and night, providing a value every few minutes in addition to the direction the glucose is trending (up, down, or stable).



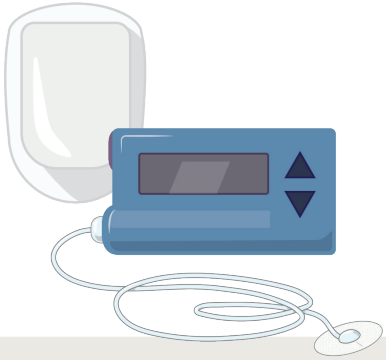
The Pod/insulin pump delivers insulin continuously through a tiny cannula in the skin. The smart algorithm contained within the Pod/insulin pump automatically adjusts insulin delivery based on CGM values.

AID application on a personal compatible smartphone, provided device, or the insulin pump itself lets you control and monitor the systems operations. For example, at lunch you can use the AID app or insulin pump to deliver a bolus for your meal.



How do AID Systems differ from standard insulin pumps?

Automated Insulin Delivery Systems – *continuously delivers insulin* ***based on CGM values***



Insulin Pump Therapy – *continuously delivers insulin* ***based on user programmed rates***

How can an AID system help me day-to-day?[1]

It helps maintain normal blood glucose during daily activities that impact glucose values:

EXERCISE

SLEEP

MEALS

STRESS

Automated Insulin Delivery (AID) Systems

What are the benefits of using an AID system?[1,2]

Less hypoglycemia

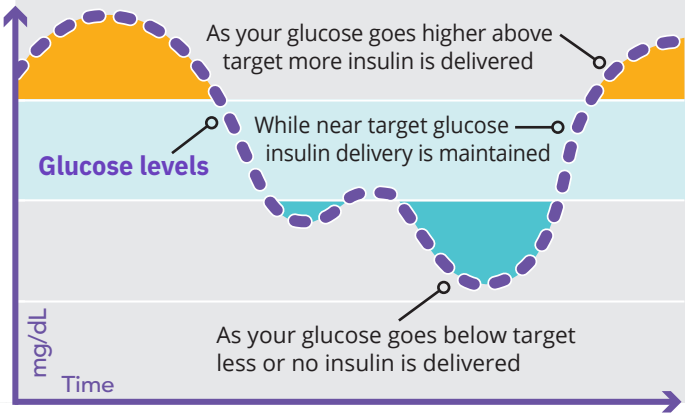
Less hyperglycemia

More time in range of 70-180 mg/dL

Improved quality of life

How does an AID system work?

Blood Glucose (BG) Predicted to be:	Automated basal insulin delivery:*
ABOVE Target BG	Generally increases insulin until sensor glucose trends back towards target
WITHIN Target BG	Insulin is maintained to help keep sensor glucose near target
BELOW Target BG	May decrease or pause insulin to help avoid low sensor glucose
LOW BG	Pauses insulin delivery to help prevent low sensor glucose



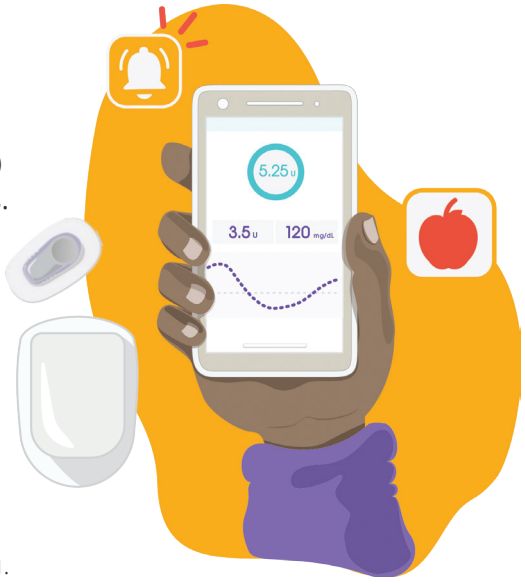
* General descriptions of Automated Insulin Delivery Systems currently cleared by the FDA

Do I need to do anything with an AID system?

Users are still an important part of the AID system.

AID systems are sometimes called hybrid closed loop systems (HCL) or sometimes "artificial pancreas" is used to describe these systems. This can be misleading since the user still plays an important part in using the system. The user still needs to:

- Program and deliver insulin for meals (Bolus)
- Change Pods/infusion sets and CGM sensors/transmitters
- Manage alerts and alarms



REFERENCE

1. Cinar A. Automated insulin delivery algorithms. *Diabetes Spectrum.* 2019;32(3);209-214.
2. *American Diabetes Association. 7. Diabetes technology:* Standards of Medical Care in Diabetes - 2021. *Diabetes Care 2021; 44(Suppl. 1); S85-S99*

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