

## What is a DIY APS?



## ABCD Nationwide DIY-APS Audit - Objectives

ABCD is setting up a nationwide audit of closed-loop systems in real clinical use in the UK, to include both do-it-yourself (DIY APS) and, in due course, commercially available closed-loop options. The aims are twofold: to ascertain whether the experience in real clinical use matches the data from limited clinical trials or self-reported outcomes (in the case of DIY APS) and, where evidence is lacking, to provide evidence to support the use of these systems which may guide future practice. Clinicians with users of closed-loop systems under their care, will be invited to submit the data that they routinely collect as they monitor the progress of their patients to the nationwide audit. This has been **mandated** as a necessary part of caring for those using DIY APS by recent position statements from Diabetes UK.

An IT tool has been developed for worldwide distribution, and is fully GDPR/information governance compliant, to make this process as easy and user friendly as possible. It will also facilitate easy analysis of locally collected data by the local clinicians. ABCD hopes to gain insight into efficacy but, perhaps most importantly, the safety of DIY APS. ABCD hopes that the data from the nationwide audit will inform future practice and guidelines. From the data submitted in the audit ABCD hopes it might be able to quantify and analyse in detail:

- How users discovered DIY APS and who helped in the initial setup?
- What proportion of patients are using components funded by NHS compared to other forms of funding?
- How safe is DIY APS? What adverse events, if any, are experienced by users?
- What are the reasons for discontinuing DIY APS (if any)?
- What is the impact on HbA1c of DIY APS usage?
- What is the impact on glucose variability of DIY APS usage?
- What is the impact on weight of DIY APS usage?
- What are the effect on NHS resources of usage of DIY APS, including hospital admissions and ambulance callouts for hypoglycaemia?
- What are the impacts of DIY APS usage on hypoglycaemia awareness?
- What is the impact on Diabetes Distress Screening Scale of DIY APS usage?
- How satisfied are patients with the use of DIY APS?