Supplemental Information S1

Study Protocol

The protocol has been previously peer reviewed and published.


Link to published protocol: [https://doi.org/10.1186/s12902-019-0378-z](https://doi.org/10.1186/s12902-019-0378-z)

No changes were made to the published protocol, but one change was made to the ANZCTR registration prior to publishing the protocol. This change broadened the recruitment inclusion eligibility by lowering the minimum entry HbA1c from 9.5% (80 mmol) to 9.0% (75 mmol) in response to shifting international glycemic targets in the years immediately prior to the start of the study (American Diabetes Association, International Society for Pediatric and Adolescent Diabetes, National Institute for Health and Care Excellence). This change occurred after only one participant was approached and enrolled (and not impacted by this change; i.e. HbA1c of this participant was 12.7% [115 mmol/mol])."
Supplemental Figure S2. Changes in HbA1c between study groups over 6 month trial. Models adjusted for gender and baseline HbA1c (75-<100 mmol/mol, ≥100 mmol/mol) and incorporated baseline Hba1c as repeated measures. Marginal means and 95% CIs for HbA1c (mmol/mol). Note at neither time point did between-group differences in change meet statistical significance (p<0.05).
It does not hurt when the sensor is put on

Wearing the sensor does not get in the way of my activities

I do not mind wearing the sensor on my arm

Weating the sensor does not get in the way of my activities

It does not hurt when the sensor is put on

I like how my glucose readings are shown on the screen

It gives me more information than my current glucose meter to take care of my diabetes

The FreeStyle Libre helps me to understand how my activities change my glucose levels

It is more private to scan the sensor than to do a finger prick

It is easier to scan the sensor than to do a finger prick

It is quicker to scan the sensor than to do a finger prick

It is more comfortable to scan the sensor than to do a finger prick

It is easy to scan the sensor

It makes me feel more interested in taking care of my diabetes

It is easy to put the sensor on

I do not mind wearing the sensor on my arm
Supplemental Figure S3. Acceptability of “flash” intermittently scanned continuous glucose monitoring system among adolescents and young adults with type 1 diabetes. n=33 for all responses except “I like how my glucose readings are shown on the screen” (n=3, missing data). Non-validated questionnaire used from previous research by Edge et al.