

Supplementary Data

SUPPLEMENTARY TABLE S1. END-OF-STUDY QUESTIONNAIRE RESULTS

Question	Adult					Pediatric				
	Mean	SD	Median	Range	≥4	Mean	SD	Median	Range	≥4
The Suspend by Sensor features are easy to use.	6.4	0.59	6	5–7	23 (100.0%)	6.2	0.83	6	4–7	16 (100.0%)
It is easy to modify the Low Settings on this pump.	6	0.82	6	4–7	23 (100.0%)	5.6	1.03	6	4–7	16 (100.0%)
It is easy to understand what my sensor glucose value is at any time.	6.5	0.85	7	4–7	23 (100.0%)	6.9	0.34	7	6–7	16 (100.0%)
I trust the sensor glucose readings displayed on this pump.	5.5	1.16	6	3–7	21 (91.3%)	5.8	0.91	6	4–7	16 (100.0%)
I received only the relevant alerts I wanted.	5.4	1.27	5	3–7	20 (87.0%)	4.5	1.59	5	2–7	11 (68.8%)
It is easy to understand when insulin was suspended due to sensor values.	6.3	0.76	6	4–7	23 (100.0%)	6.3	0.93	6.5	4–7	16 (100.0%)
When a pump “Suspended by Sensor” event occurs, it is clear whether it has “Suspended before Low” or “Suspended on Low.”	6	0.9	6	4–7	23 (100.0%)	5.8	1.22	6	4–7	16 (100.0%)
I feel confident in my insulin pump resuming basal insulin, after the pump is “Suspended by Sensor.”	6.2	0.9	6	4–7	23 (100.0%)	6.4	0.72	6.5	5–7	16 (100.0%)
It is easy to understand when basal insulin was resumed.	6.5	0.67	7	5–7	23 (100.0%)	6.5	0.73	7	5–7	16 (100.0%)
It is easy to manually resume basal insulin, after the pump is “Suspended by Sensor.”	6.5	0.67	7	5–7	23 (100.0%)	6.3	1.08	7	4–7	16 (100.0%)
This pump system, with the Suspend by Sensor features, fits into my lifestyle.	6.4	1.03	7	4–7	23 (100.0%)	6.6	0.81	7	4–7	16 (100.0%)
This pump system, with the Suspend by Sensor features, does not interfere with my daily activities.	6	1.26	6	3–7	21 (91.3%)	6.6	0.62	7	5–7	16 (100.0%)
I feel confident using this pump system, with the Suspend by Sensor features, to manage my diabetes.	6.4	0.84	7	5–7	23 (100.0%)	6.6	0.5	7	6–7	16 (100.0%)
The Suspend by Sensor features provide protection against lows.	6.5	0.73	7	5–7	23 (100.0%)	5.9	1	6	4–7	16 (100.0%)
The Suspend by Sensor features make it easier for me to manage my lows.	6.2	0.95	6	4–7	23 (100.0%)	6.3	0.68	6	5–7	16 (100.0%)
I feel confident that I manage my lows better with the Suspend by Sensor features.	6.1	1.12	6	3–7	22 (95.7%)	6.2	0.66	6	5–7	16 (100.0%)
The Suspend by Sensor features help me feel confident about my daily diabetes management.	6	0.85	6	4–7	23 (100.0%)	6.2	0.83	6	4–7	16 (100.0%)
I feel this pump system helps me achieve better glucose control.	6.2	1.03	6	4–7	23 (100.0%)	6.3	1.13	7	3–7	15 (93.8%)
This pump system is easy to use and reduces some of the burden of my daily diabetes management.	6	1.15	6	4–7	23 (100.0%)	6	1.03	6	4–7	16 (100.0%)
I am satisfied with my experience using this pump system with the Suspend by Sensor features.	6.3	1.06	7	3–7	22 (95.7%)	6.3	0.79	6	4–7	16 (100.0%)
I feel protected from lows by using the Suspend before Low feature.	6.3	0.96	7	4–7	23 (100.0%)	5.8	1.18	5.5	3–7	15 (93.8%)
I feel protected from lows by using the Suspend on Low feature.	5.6	1	6	4–7	22 (100.0%)	5.5	1.21	5	3–7	15 (93.8%)
I would like to continue using this insulin pump system.	6.5	0.99	7	4–7	23 (100.0%)	6.6	0.89	7	4–7	16 (100.0%)
I would like to continue using the Suspend before Low feature.	6.6	0.85	7	4–7	22 (100.0%)	6.6	0.62	7	5–7	16 (100.0%)
I would like to continue using the Suspend on Low feature.	6	1.26	7	3–7	22 (95.7%)	6.6	0.62	7	5–7	16 (100.0%)

(continued)

SUPPLEMENTARY TABLE S1. (CONTINUED)

<i>Question</i>	<i>Adult</i>					<i>Pediatric</i>				
	<i>Mean</i>	<i>SD</i>	<i>Median</i>	<i>Range</i>	<i>≥4</i>	<i>Mean</i>	<i>SD</i>	<i>Median</i>	<i>Range</i>	<i>≥4</i>
I would recommend this insulin pump system, with the Suspend by Sensor features, to another person with diabetes.	6.7	0.71	7	5–7	23 (100.0%)	6.8	0.58	7	5–7	16 (100.0%)
The Suspend before Low feature helps protect against lows during the daytime.	6.3	0.78	6.5	5–7	22 (100.0%)	6.1	0.85	6	5–7	16 (100.0%)
The Suspend before Low feature helps protect against lows overnight.	6.7	0.57	7	5–7	22 (100.0%)	6.4	0.72	6.5	5–7	16 (100.0%)
The Suspend on Low feature helps protect against lows during the daytime.	5.9	1.04	6	3–7	20 (95.2%)	6	0.89	6	5–7	16 (100.0%)
The Suspend on Low feature helps protect against lows overnight.	6	1.07	6	3–7	20 (95.2%)	6.2	0.75	6	5–7	16 (100.0%)
The Suspend by Sensor features in this pump system makes it easier to manage my lows compared to using my previous pump system without these features.	6.5	1.04	7	3–7	22 (95.7%)	6.4	0.89	7	4–7	16 (100.0%)
The Suspend by Sensor features in this pump system provide more protection from lows than using my previous pump system without these features.	6.5	0.99	7	3–7	22 (95.7%)	6.4	0.73	7	5–7	16 (100.0%)
The Suspend by Sensor features in this pump system are more effective in managing my lows than using my previous pump system without these features.	6.4	1.2	7	3–7	22 (95.7%)	6.4	0.72	6.5	5–7	16 (100.0%)
I am able to better control my glucose levels with this system than with my current pump system without these features.	6.2	1.15	7	3–7	22 (95.7%)	6.1	0.96	6	4–7	16 (100.0%)
I prefer to use this pump system, with the Suspend by Sensor features, to manage my diabetes compared to using my previous pump system without these features.	6.4	1.16	7	3–7	22 (95.7%)	6.8	0.4	7	6–7	16 (100.0%)