

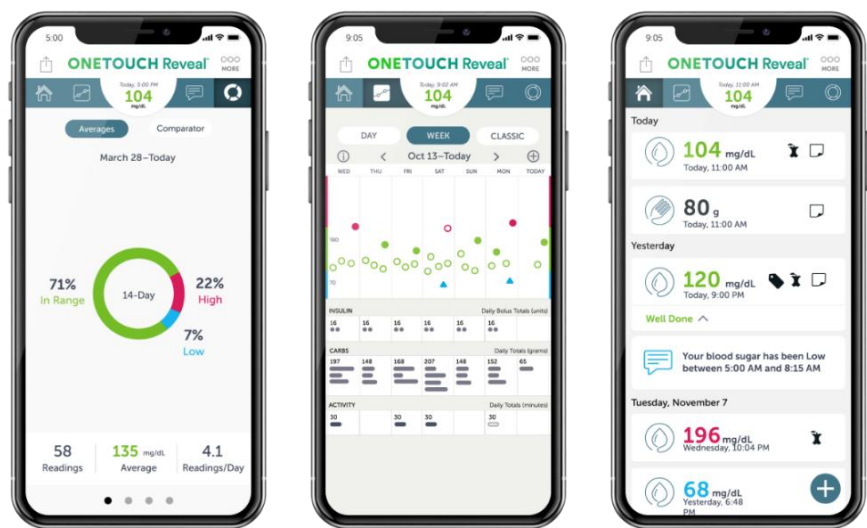
Digital Supplement.

Manuscript Title: Sustained Reductions in Hyperglycemia Using a Diabetes App with Connected Glucose Meters in People with Type 2 Diabetes at Higher Risk for Complications.

This analysis is based on pooled app data from the Bluetooth® connected OneTouch Verio Flex and Verio Reflect blood glucose meters shown below. These connected BGMs transmit blood glucose data automatically to the OneTouch Reveal diabetes app.



Shown below are a selection of app screens, including the home screen, electronic log book with previous and current blood glucose readings, and a timeline of events, including manually-entered patient information.



Supplemental Evidence

Conversion formula: mg/dL divided by 18 = BG value in mmol/L.

Group 1 - Glycemic changes in non-insulin users with baseline mean BG >180 mg/dL

Improved glycemic outcomes using the app and connected meters in non-insulin-using PwT2D at higher risk for hyperglycemic complications (baseline mean BG >180 mg/dL)						
	90 Baseline (n=8,034)	90 days (n=8,034)	180 Baseline (n=6,540)	180 days (n=6,540)	365 Baseline (n=4,890)	365 days (n=4,890)
Glycemic & app metrics	First 14 days	Last 14 days	First 14 days	Last 14 days	First 14 days	Last 14 days
Mean blood glucose (mg/dL)	221.5 mg/dL	-54.9 mg/dL (166.6 mg/dL)	221.3 mg/dL	-58.6 mg/dL (162.7 mg/dL)	219.9 mg/dL	-58.3 mg/dL (161.6 mg/dL)
% Readings >250 mg/dL	27.5%	-18.7 %pts (8.8%)	27.4%	-19.0 %pts (8.4%)	26.6%	-18.4 %pts (8.2%)
% Readings >180 mg/dL	70.6%	-38.6 %pts (32.0%)	70.6%	-41.9 %pts (28.7%)	70.0%	-42.8 %pts (27.2%)
% RIR 70-180 mg/dL	29.2%	+38.2 %pts (67.4%)	29.2%	+41.5 %pts (70.7%)	29.9%	+42.2 %pts (72.1%)
% RITR 70-140 mg/dL	7.5%	+30.7 %pts (38.2%)	7.4%	+34.4 %pts (41.8%)	7.6%	+35.6 %pts (43.2%)
% Readings <70 mg/dL	0.1%	+0.5 %pts (0.6%)	0.1%	+0.5 %pts (0.6%)	0.1%	+0.6 %pts (0.7%)
% Readings <54 mg/dL	0.0%	+0.1 %pts (0.1%)	0.0%	+0.1 %pts (0.1%)	0.0%	+0.2 %pts (0.2%)
Check frequency per day	1.7 checks	-0.6 (1.1)	1.7 checks	-0.8 (0.9)	1.7 checks	-0.8 (0.9)
Time on app (average per week over 5 years)		17 minutes		17 minutes		19 minutes
App sessions (average per week over 5 years)		3.5 sessions		3.8 sessions		4.1 sessions

*All changes are means of the within subject differences between baseline (first 14 days after OneTouch Reveal app registration) and the last 14-days prior to the end of each timeframe. Subjects must have at least 4 checks in each 14-day period and ≥ 26 checks in 90 days, ≥ 52 checks in 180 days, or ≥104 checks in 365 days. Changes in readings in ranges from baseline to each endpoint are shown as percentage point differences (% pts). App metrics show the mean level of app engagement per week, averaged over the full timeframe. RITR = Readings in Tight Range; RIR = Readings in Range, PwT2D = people with type 2 diabetes.

Group 1 - Glycemic changes in insulin users with baseline mean BG >180 mg/dL

Improved glycemic outcomes using the app and connected meters in insulin-using PwT2D at higher risk for hyperglycemic complications (baseline mean BG >180 mg/dL)						
	90 Baseline (n=4,515)	90 days (n=4,515)	180 Baseline (n=3,660)	180 days (n=3,660)	365 Baseline (n=2,898)	365 days (n=2,898)
Glycemic & app metrics	First 14 days	Last 14 days	First 14 days	Last 14 days	First 14 days	Last 14 days
Mean blood glucose (mg/dL)	229.2 mg/dL	-42.5 mg/dL (186.7 mg/dL)	227.6 mg/dL	-40.9 mg/dL (182.5 mg/dL)	225.8 mg/dL	-47.4 mg/dL (178.4mg/dL)
% Readings >250 mg/dL	33.5%	-15.9 %pts (17.6%)	32.5%	-14.9 %pts (16.7%)	31.8%	-16.6 %pts (15.2%)
% Readings >180 mg/dL	71.0%	-26.9 %pts (44.1%)	70.6%	-26.5 %pts (41.2%)	70.3%	-31.2 %pts (39.1%)
% RIR 70-180 mg/dL	28.5%	+26.1 %pts (54.6%)	28.8%	+25.8 %pts (57.4%)	29.1%	+30.3 %pts (59.4%)
% RITR 70-140 mg/dL	10.1%	+20.0 %pts (30.1%)	10.1%	+20.3 %pts (33.4%)	10.3%	+24.8 %pts (35.1%)
% Readings <70 mg/dL	0.5%	+0.8 %pts (1.3%)	0.6%	+0.8 %pts (1.4%)	0.5%	+1.0 %pts (1.5%)
% Readings <54 mg/dL	0.1%	+0.2 %pts (0.3%)	0.2%	+0.2 %pts (0.4%)	0.1%	+0.2 %pts (0.3%)
Check frequency per day	1.9 checks	-0.5 (1.4)	1.9 checks	-0.6 (1.3)	1.9 checks	-0.7 (1.2)
Time on app (average per week over 5 years)		21 minutes		22 minutes		24 minutes
App sessions (average per week over 5 years)		3.9 sessions		4.2 sessions		4.6 sessions

*All changes are means of the within subject differences between baseline (first 14 days after OneTouch Reveal app registration) and the last 14-days prior to the end of each timeframe. Subjects must have at least 4 checks in each 14-day period and ≥ 26 checks in 90 days, ≥ 52 checks in 180 days, or ≥104 checks in 365 days. Changes in readings in ranges from baseline to each endpoint are shown as percentage point differences (% pts). App metrics show the mean level of app engagement per week, averaged over the full timeframe. RITR = Readings in Tight Range; RIR = Readings in Range, PwT2D = people with type 2 diabetes.

Group 2 - Glycemic changes in **non-insulin users** with baseline mean **BG >155 mg/dL**

	Improved glycemic outcomes using the app and connected meters in non-insulin-using PwT2D at higher risk for hyperglycemic complications (baseline mean BG >155 mg/dL)					
	90 Baseline (n=15,277)	90 days (n=15,277)	180 Baseline (n=12,443)	180 days (n=12,443)	365 Baseline (n=9,531)	365 days (n=9,531)
Glycemic & app metrics	First 14 days	Last 14 days	First 14 days	Last 14 days	First 14 days	Last 14 days
Mean blood glucose (mg/dL)	194.9 mg/dL	-36.5 mg/dL (158.4 mg/dL)	194.8 mg/dL	-38.7 mg/dL (156.1 mg/dL)	193.8 mg/dL	-37.9 mg/dL (155.5 mg/dL)
% Readings >250 mg/dL	16.0%	-10.0 %pts (6.0%)	15.9%	-10.0 %pts (5.9%)	15.2%	-9.3 %pts (5.9%)
% Readings >180 mg/dL	50.4%	-25.2 %pts (25.2%)	50.4%	-26.6 %pts (23.8%)	49.5%	-26.5 %pts (23.0%)
% RIR 70-180 mg/dL	49.4%	+24.8 %pts (74.2%)	49.4%	+26.3 %pts (75.7%)	50.4%	+25.9 %pts (76.3%)
% RITR 70-140 mg/dL	15.5%	+26.8 %pts (42.3%)	15.4%	+29.7 %pts (45.1%)	15.6%	+30.1 %pts (45.7%)
% Readings <70 mg/dL	0.2%	+0.4 %pts (0.6%)	0.2%	+0.4 %pts (0.6%)	0.2%	+0.5 %pts (0.7%)
% Readings <54 mg/dL	0.0%	+0.1 %pts (0.1%)	0.0%	+0.1 %pts (0.1%)	0.0%	+0.2 %pts (0.2%)
Check frequency per day	1.7 checks	-0.7 (1.0)	1.6 checks	-0.7 (0.9)	1.6 checks	-0.8 (0.8)
Time on app (average per week over 5 years)		17 minutes		18 minutes		19 minutes
App sessions (average per week over 5 years)		3.5 sessions		3.8 sessions		4.1 sessions

*All changes are means of the within subject differences between baseline (first 14 days after OneTouch Reveal app registration) and the last 14-days prior to the end of each timeframe. Subjects must have at least 4 checks in each 14-day period and ≥ 26 checks in 90 days, ≥ 52 checks in 180 days, or ≥ 104 checks in 365 days. Changes in readings in ranges from baseline to each endpoint are shown as percentage point differences (% pts). App metrics show the mean level of app engagement per week, averaged over the full timeframe. RITR = Readings in Tight Range; RIR = Readings in Range, PwT2D = people with type 2 diabetes.

Group 2 - Glycemic changes in **insulin users** with baseline mean **BG >155 mg/dL**

	Improved glycemic outcomes using the app and connected meters in insulin-using PwT2D at higher risk for hyperglycemic complications (baseline mean BG >155 mg/dL)					
	90 Baseline (n=7,419)	90 days (n=7,419)	180 Baseline (n=6,044)	180 days (n=6,044)	365 Baseline (n=4,781)	365 days (n=4,781)
Glycemic & app metrics	First 14 days	Last 14 days	First 14 days	Last 14 days	First 14 days	Last 14 days
Mean blood glucose (mg/dL)	204.6 mg/dL	-28.7 mg/dL (175.9 mg/dL)	203.4 mg/dL	-29.7 mg/dL (173.7 mg/dL)	202.4 mg/dL	-31.9 mg/dL (170.5 mg/dL)
% Readings >250 mg/dL	22.6%	-9.2 %pts (13.4%)	21.9%	-8.6 %pts (13.3%)	21.4%	-9.1 %pts (12.3%)
% Readings >180 mg/dL	55.9%	-18.3 %pts (37.6%)	55.5%	-19.6 %pts (35.9%)	55.4%	-21.0 %pts (34.4%)
% RIR 70-180 mg/dL	43.3%	+17.7 %pts (61.0%)	43.7%	+18.9 %pts (62.6%)	43.9%	+20.1 %pts (64.0%)
% RITR 70-140 mg/dL	17.4%	+17.0 %pts (34.4%)	17.4%	+19.3 %pts (36.7%)	17.4%	+21.1 %pts (38.5%)
% Readings <70 mg/dL	0.8%	+0.6 %pts (1.4%)	0.8%	+0.7 %pts (1.5%)	0.7%	+0.9 %pts (1.6%)
% Readings <54 mg/dL	0.2%	+0.1 %pts (0.3%)	0.2%	+0.2 %pts (0.4%)	0.2%	+0.2 %pts (0.4%)
Check frequency per day	1.9 checks	-0.5 (1.4)	1.9 checks	-0.6 (1.3)	1.9 checks	-0.6 (1.3)
Time on app (average per week over 5 years)		21 minutes		22 minutes		24 minutes
App sessions (average per week over 5 years)		4.1 sessions		4.4 sessions		4.8 sessions

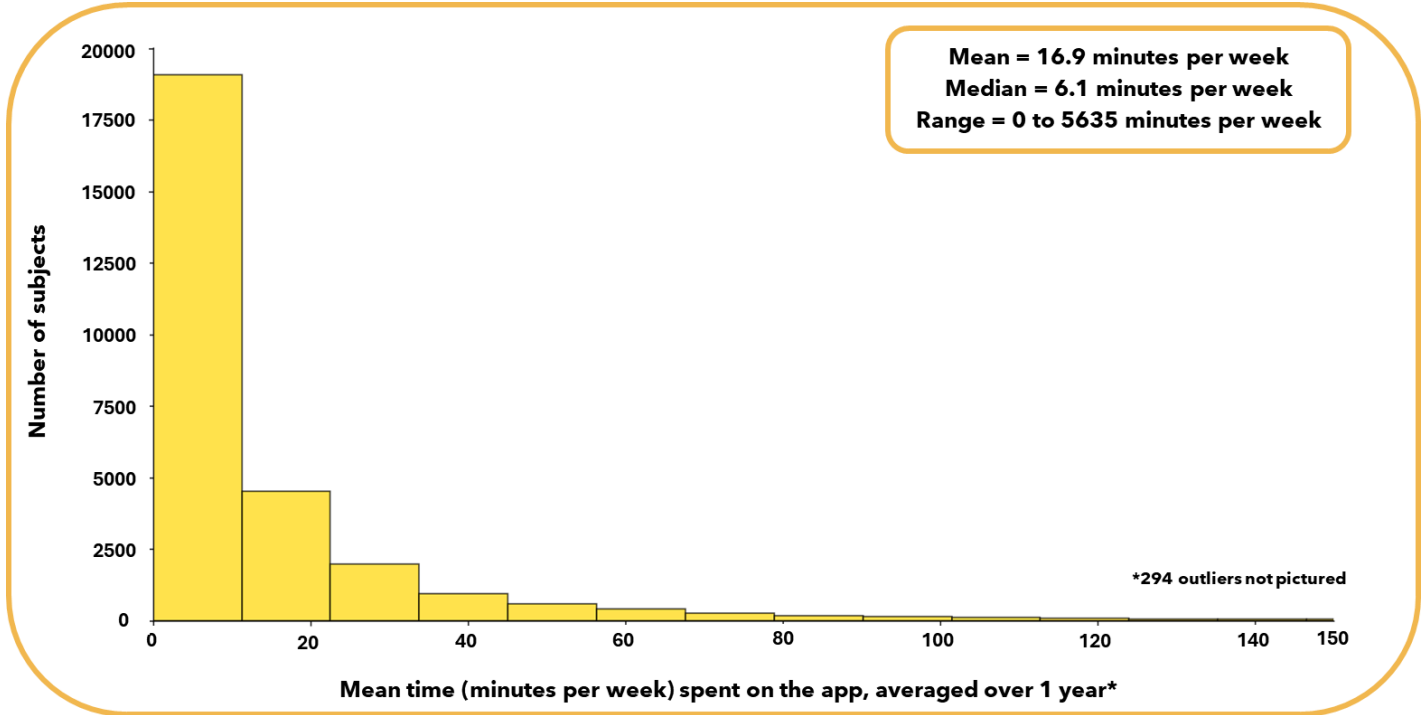
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Group 3 - Overall changes in glycemia in PwT2D with baseline mean BG >155 and <180mg/dL

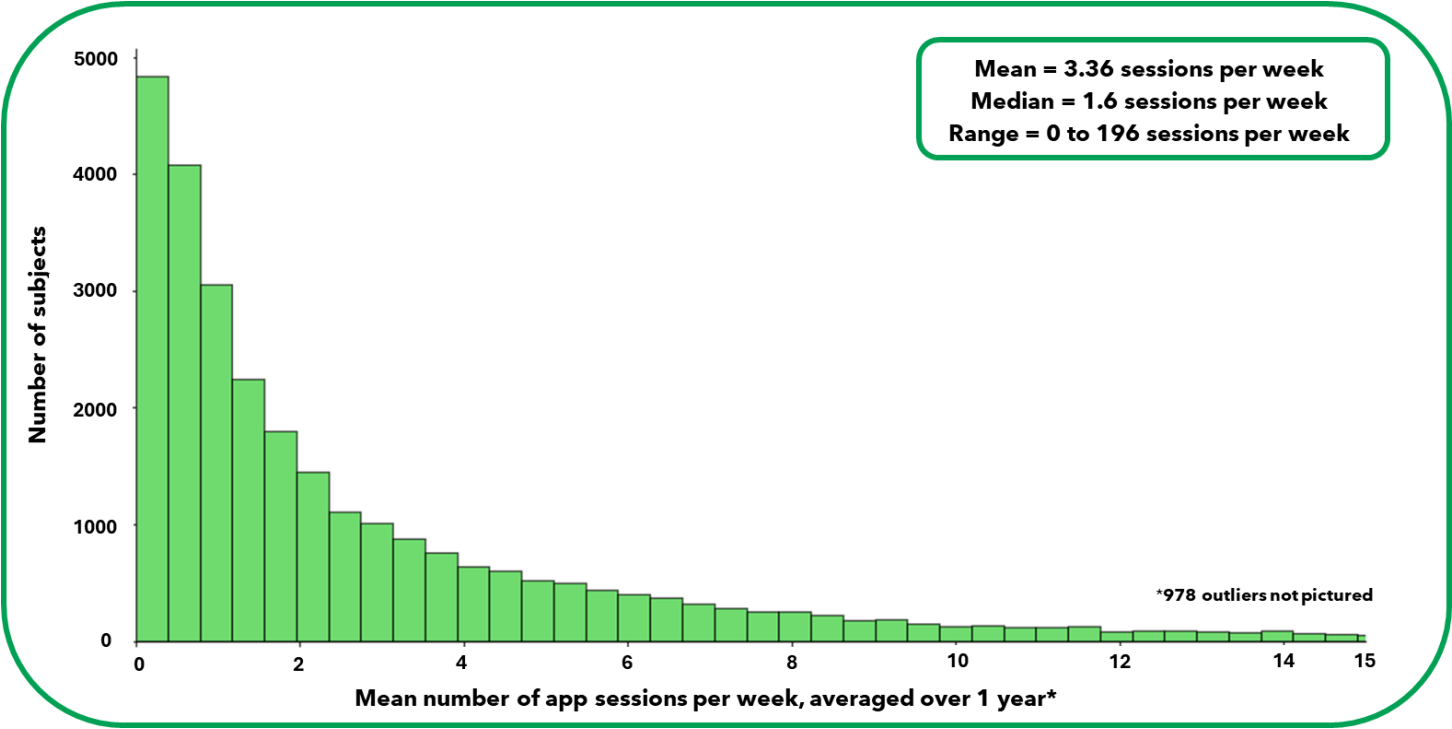
Glycemic & app metrics	Improved glycemic outcomes using the app and connected meters in PwT2D at higher risk for hyperglycemic complications (baseline mean BG >155 and <180 mg/dL)					
	90 Baseline (n=9,787)	90 days (n=9,787)	180 Baseline (n=8,018)	180 days (n=8,018)	365 Baseline (n=6,323)	365 days (n=6,323)
	First 14 days	Last 14 days	First 14 days	Last 14 days	First 14 days	Last 14 days
Mean blood glucose (mg/dL)	166.5 mg/dL	-14.2 mg/dL (152.5 mg/dL)	166.5 mg/dL	-14.2 mg/dL (152.3 mg/dL)	166.6 mg/dL	-14.6 mg/dL (152.0 mg/dL)
% Readings >250 mg/dL	4.1%	-0.1 %pts (4.0%)	4.0%	+0.6 %pts (4.6%)	4.0%	+0.8 %pts (4.8%)
% Readings >180 mg/dL	29.9%	-9.2 %pts (20.7%)	29.8%	-8.7 %pts (21.1%)	29.8%	-8.6 %pts (21.2%)
% RIR 70-180 mg/dL	69.6%	+8.9 %pts (78.5%)	69.7%	+8.4 %pts (78.1%)	69.7%	+8.1 %pts (77.8%)
% RITR 70-140 mg/dL	24.9%	+20.1 %pts (45.0%)	24.7%	+21.6 %pts (46.3%)	24.4%	+22.6 %pts (47.0%)
% Readings <70 mg/dL	0.5%	+0.3 %pts (0.8%)	0.5%	+0.3 %pts (0.8%)	0.5%	+0.5 %pts (1.0%)
% Readings <54 mg/dL	0.1%	+0.1 %pts (0.2%)	0.1%	+0.1 %pts (0.2%)	0.1%	+0.1 %pts (0.2%)
Check frequency per day	1.7 checks	-0.6 (1.1)	1.7 checks	-0.7 (1.0)	1.7 checks	-0.7 (1.0)
Time on app (average per week over 5 years)		18 minutes		19 minutes		20 minutes
App sessions (average per week over 5 years)		3.8 sessions		4.1 sessions		4.4 sessions

*All changes are means of the within subject differences between baseline (first 14 days after OneTouch Reveal app registration) and the last 14-days prior to the end of each timeframe. Subjects must have at least 4 checks in each 14-day period and ≥ 26 checks in 90 days, ≥ 52 checks in 180 days, or ≥ 104 checks in 365 days. Changes in readings in ranges from baseline to each endpoint are shown as percentage point differences (% pts). App metrics show the mean level of app engagement per week, averaged over the full timeframe. RITR = Readings in Tight Range; RIR = Readings in Range, PwT2D = people with type 2 diabetes.

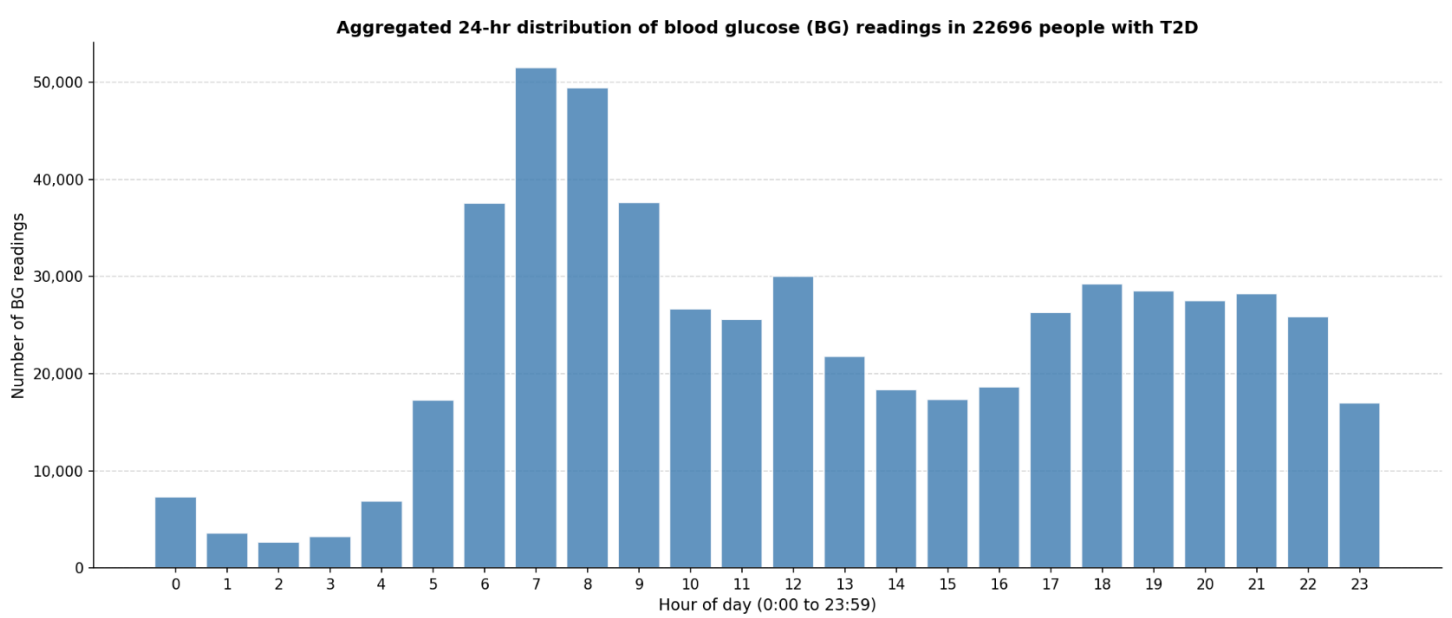
Summary of the average amount of time spent per week on the app by all 22,696 subjects



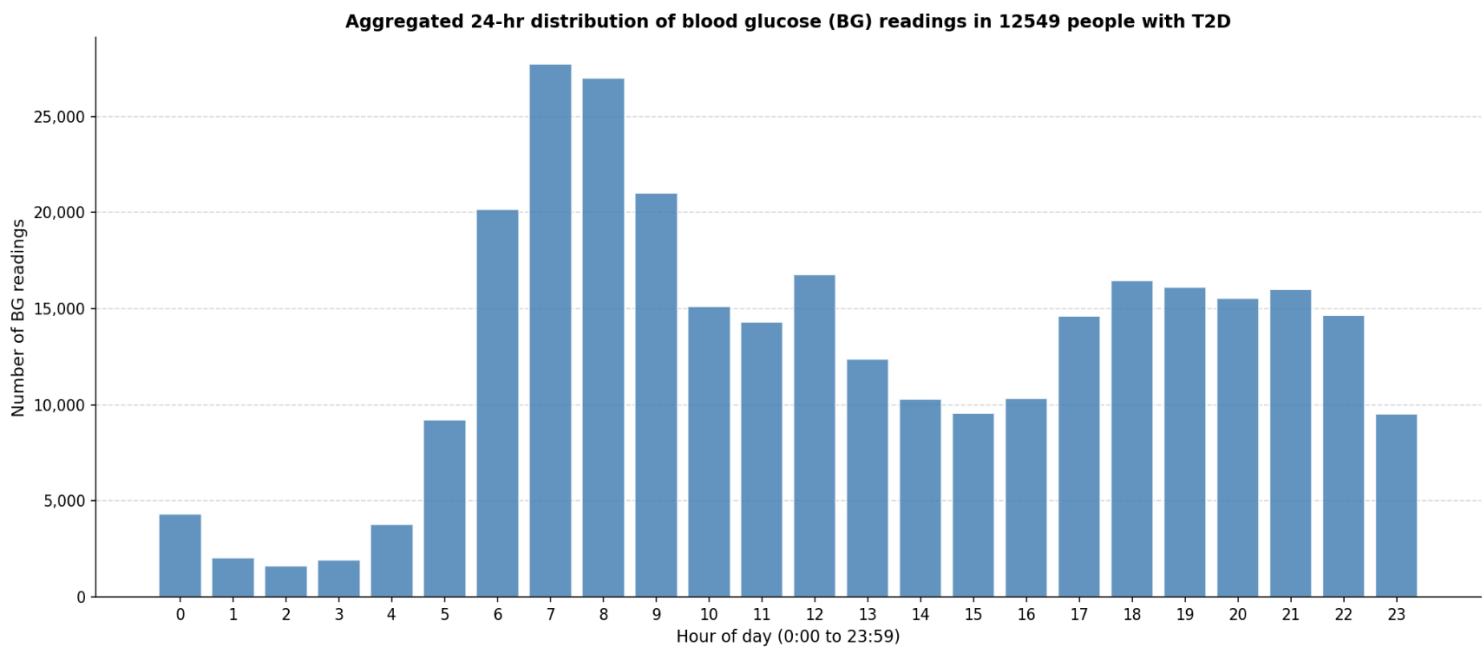
Summary of the average number of app sessions per week by all 22,696 subjects



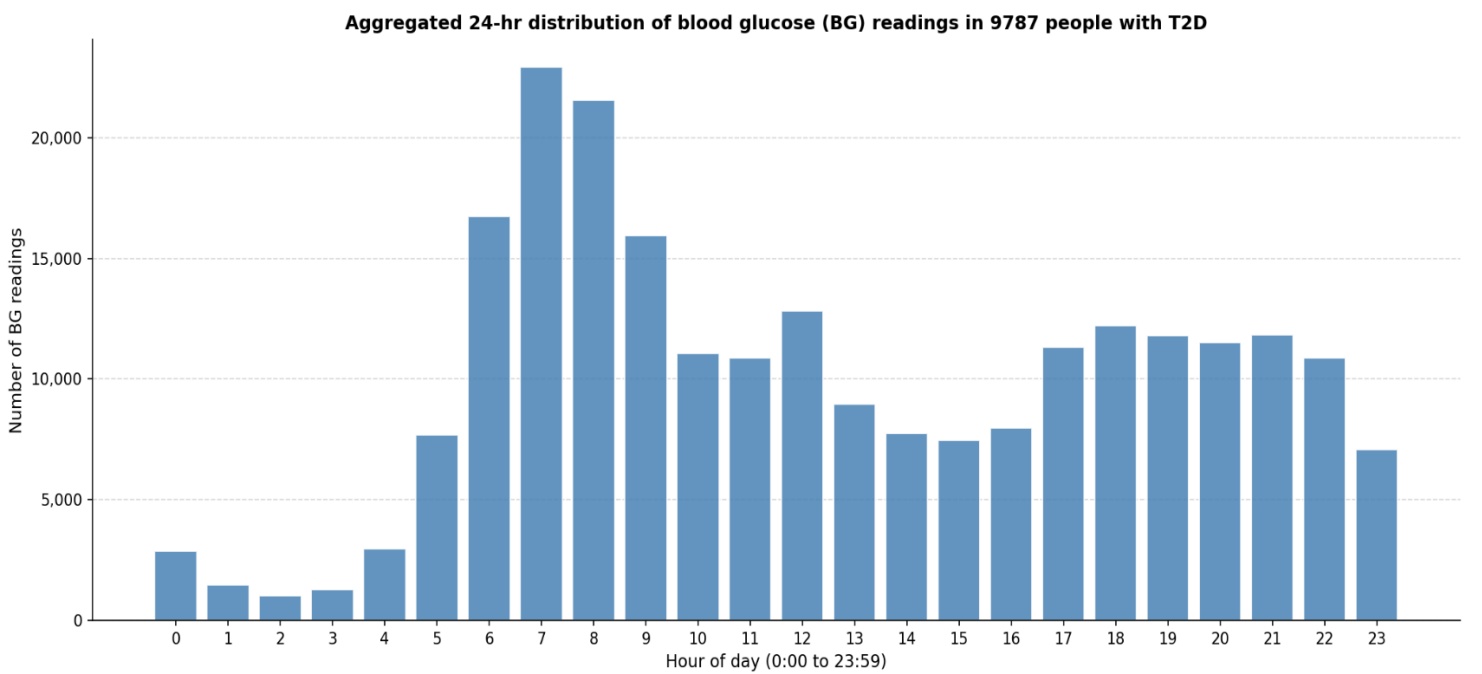
Distribution of BG readings across a modal day in T2Ds with baseline mean BG >155mg/dL



Distribution of BG readings across a modal day in T2Ds with baseline mean BG >180mg/dL



Distribution of BG across a modal day in T2Ds with baseline mean BG >155 and <180 mg/dL



Subjects with baseline mean BG >155mg/dL (SD/Confidence intervals for mean BG changes)

Subset	baseline 3 month	3 month	baseline 6 month	6 month	baseline 12 month	12 month
Sample Size	22696	22696	18487	18487	14312	14312
Insulin Users	7419	7419	6044	6044	4781	4781
Mean age @ reg.	56.8	56.8	57.2	57.2	57.6	57.6
SD age	13.4	13.4	13.4	13.4	13.2	13.2
Mean BGM	198.1	164.2	197.6	161.8	196.4	160.5
per<54	0.1	0.2	0.1	0.2	0.1	0.2
per<70	0.4	0.8	0.4	0.9	0.4	1
per 70 to 140	16.1	39.8	16	42.3	16.2	43.3
per 70 to 180	47.4	69.9	47.6	71.4	48.2	72.2
per > 180	52.2	29.3	52.1	27.7	51.4	26.8
per > 250	18.2	8.4	17.9	8.3	17.3	8.1
check freq (week)	12.3	8.1	12.2	7.2	12.1	6.9
check freq (day)	1.8	1.2	1.7	1	1.7	1
Time app (mins)	18	18	19	19	21	21
App sessions	3.7	3.7	4	4	4.3	4.3
SD Mean BGM	44.9	47.7	44.5	49	43	49.5
CI Lower BGM (95%)	197.5	163.5	197	161.1	195.7	159.7
CI Upper BGM (95%)	198.7	164.8	198.3	162.5	197.1	161.3

Subjects with baseline mean BG >180mg/dL (SD/Confidence intervals for mean BG changes)

Subset	baseline 3 month	3 month	baseline 6 month	6 month	baseline 12 month	12 month
Sample Size	12549	12549	10200	10200	7788	7788
Insulin Users	4515	4515	3660	3660	2898	2898
Mean age @ reg.	55.5	55.5	56	56	56.4	56.4
SD age	13.1	13.1	13	13	12.9	12.9
Mean BGM	224.3	173.8	223.6	169.8	222.1	167.8
per<54	0.1	0.2	0.1	0.2	0.1	0.2
per<70	0.3	0.8	0.3	0.9	0.3	1
per 70 to 140	8.4	35.3	8.4	38.8	8.6	40.2
per 70 to 180	29	62.8	29.1	65.9	29.6	67.4
per > 180	70.8	36.3	70.6	33.2	70.1	31.6
per > 250	29.7	12	29.3	11.4	28.5	10.8
check freq (week)	12.4	8.3	12.3	7.3	12.3	7
check freq (day)	1.8	1.2	1.8	1	1.8	1
Time app (mins)	18	18	19	19	21	21
App sessions	3.6	3.6	3.9	3.9	4.3	4.3
SD Mean BGM	45.5	54.6	45.1	55.6	43.6	55.7
CI Lower BGM (95%)	223.5	172.9	222.7	168.7	221.1	166.6
CI Upper BGM (95%)	225.1	174.8	224.4	170.9	223	169.1

Subjects with baseline mean BG >155 <180mg/dL (SD/Confidence intervals for mean BG changes)

Subset	baseline 3 month	3 month	baseline 6 month	6 month	baseline 12 month	12 month
Sample Size	9787	9787	8018	8018	6323	6323
Insulin Users	2802	2802	2318	2318	1853	1853
Mean age @ reg.	58.2	58.2	58.5	58.5	58.9	58.9
SD age	13.6	13.6	13.7	13.7	13.5	13.5
Mean BGM	166.5	152.3	166.5	152.3	166.6	152
per<54	0.1	0.2	0.1	0.2	0.1	0.2
per<70	0.5	0.8	0.5	0.8	0.5	1
per 70 to 140	24.9	45	24.7	46.3	24.4	47
per 70 to 180	69.6	78.5	69.7	78.1	69.7	77.8
per > 180	29.9	20.7	29.8	21.1	29.8	21.2
per > 250	4.1	4	4	4.6	4	4.8
check freq (week)	12.2	7.9	11.9	7.1	11.9	6.7
check freq (day)	1.7	1.1	1.7	1	1.7	1
Time app (mins)	18	18	19	19	20	20
App sessions	3.8	3.8	4.1	4.1	4.4	4.4
SD Mean BGM	7.1	33.6	7.1	37	7.1	39
CI Lower BGM (95%)	166.3	151.7	166.3	151.5	166.4	151
CI Upper BGM (95%)	166.6	153	166.6	153.1	166.8	153