1. Please mark your response to the following statements				
1 = strongly disagree, 5 = strongly agree				
	n=	Overall %	MDI %	Pump %
a. I feel healthy				
1	*28*	1.8	1.8	1.8
2	*87*	5.6	7.4	5
3	*287*	18.6	19.5	18.3
4	*683*	44.3	42.1	45.1
5	*455*	29.5	29.2	29.6
Decline to answer	*2*	0.1	0	0.2
b. I can do anything I set out to				
1	*28*	1.8	1.5	1.9
2	*72*	4.7	4.9	4.6
3	*233*	15.1	14.9	15.2
4	*607*	39.4	42.1	38.5
5	*598*	38.8	36.7	39.5
Decline to answer	*4*	0.3	0	0.3
c. Taking care of my diabetes is among my top priorities				
1	*21*	1.4	1.5	1.3
2	*33*	2.1	2.6	2
3	*105*	6.8	7.9	6.4
4	*436*	28.3	25.4	29.3
5	*931*	60.4	61.3	60.1
Decline to answer	*16*	1	1.3	1
d. I feel confident in managing my diabetes				
1	*24*	1.6	1.8	1.5
2	*64*	4.2	5.4	3.7
3	*202*	13.1	16.4	12
4	*654*	42.4	41	42.9
5	*590*	38.3	34.9	39.4
Decline to answer	*8*	0.5	0.5	0.5
e. I have the tools to manage my diabetes				
1	*32*	2.1	2.8	1.8
2	*61*	4	5.9	3.3
3	*211*	13.7	15.6	13
4	*612*	39.7	41	39.2
5	*618*	40.1	34.1	42.1
Decline to answer	*8*	0.5	0.5	0.5

2. On a scale from 1-5, how confident are you in:				
1 = not confident, 5 = very confident				
a. Controlling your glucose				
1	*21*	1.4	2.1	1.1
2	*88*	5.7	6.2	5.6
3	*398*	25.8	27.9	25.1
4	*767*	49.7	46.4	50.9
5	*267*	17.3	17.4	17.3
Decline to answer	*1*	0.1	0	0.1
b. Calculating insulin doses				
1	*9*	0.6	0.5	0.6
2	*51*	3.3	5.1	2.7
3	*231*	15	16.7	14.4
4	*677*	43.9	45.9	43.2
5	*571*	37	31.3	39
Decline to answer	*3*	0.2	0.5	0.1
c. Counting carbs				
1	*26*	1.7	2.1	1.6
2	*94*	6.1	8.5	5.3
3	*309*	20	22.8	19.1
4	*641*	41.6	37.7	42.9
5	*463*	30	28.5	30.6
Decline to answer	*9*	0.6	0.5	0.6
d. Avoiding hypoglycemia				
1	*25*	1.6	1.5	1.6
2	*139*	9	8.5	9.2
3	*497*	32.2	32.1	32.3
4	*669*	43.4	43.3	43.4
5	*212*	13.7	14.6	13.5
Decline to answer	*0*	-	-	-
e. Managing glucose during and after exercise				
1	*83*	5.4	4.6	5.6
2	*218*	14.1	10.8	15.3
3	*511*	33.1	30.8	33.9
4	*551*	35.7	39.2	34.5
5	*167*	10.8	13.6	9.9
Decline to answer	*12*	0.8	1	0.7
3. Do you have regular access to smart phones, computers and/or tablets?				
1 = no access, 5 = a lot of access				

1	*10*	0.6	0.5	0.7
2	*3*	0.2	0.3	0.2
3	*7*	0.5	1	0.3
4	*72*	4.7	5.4	4.4
5	*1446*	93.8	92.6	94.2
Decline to answer	*4*	0.3	0.3	0.3
4. Select all the phone technologies that you currently use				
Landline	*468*	30.4	27.9	31.2
Cellular phone/Flip phone (little to no internet capability)	*87*	5.6	6.4	5.4
Smartphone + touch screen (internet connection)	*1496*	97	94.9	97.7
5. How interested are you in using or acquiring a smartphone app to help you manage your diabetes?				
1 = not interested, 5 = very interested				
1	*68*	4.5	6.2	3.9
2	*51*	3.3	1.8	3.9
3	*174*	11.4	12.9	10.9
4	*251*	16.5	18.1	15.9
5	*948*	62.2	59.7	63
Decline to answer	*33*	2.2	1.3	2.5
6. How often do you have your phone with you?				
0% = never 100% = all the time				
0%	*5*	0.3	0.8	0.2
1-25%	*13*	0.8	1.3	0.7
25-50%	*27*	1.8	2.1	1.6
50-75%	*161*	10.4	9.5	10.8
75-100%	*1336*	86.6	86.4	86.7
Decline to answer	*0*	0	-	-
7. How often do you wear a fitness monitor (i.e. Fitbit, Apple Watch, or Garmin)?				
0% = never, 100% = all the time				
0%	*802*	52	61.5	48.8
1-25%	*88*	5.7	7.4	5.1
25-50%	*57*	3.7	3.1	3.9
50-75%	*118*	7.7	6.7	8
75-100%	*474*	30.7	21.3	33.9
Decline to Answer	*3*	0.2	0	0.3
8. On average, how often do/have you use(d) a phone application to manage your diabetes?				

Every couple of days or less	*810*	52.5	54.4	51.9
1-2x per day	*71*	4.6	3.3	5
3-4x per day	*88*	5.7	7.2	5.2
5-6x per day	*67*	4.3	5.1	4.1
>6x per day	*421*	27.3	23.8	28.5
Decline to Answer	*85*	5.5	6.2	5.3
9. Have you ever used a phone application to calculate your insulin dose?				
Yes - I currently use a phone application to calculate my insulin dose	*112*	7.3	12.3	5.6
Yes - I used a phone application in the past to calculate my insulin dose but stopped using it	*132*	8.6	7.7	8.9
No - I have never used a phone application to calculate my insulin dose	*1298*	84.2	80	85.6
10. How often do you use a meter (such as Accu-check Expert Meter) to calculate your insulin doses?				
0% = never, 75-100% = almost all the time				
0%	*682*	44.2	44.1	44.3
1-25%	*156*	10.1	10	10.2
25-50%	*92*	6	6.4	5.8
50-75%	*154*	10	9.7	10.1
75-100%	*446*	28.9	29	28.9
Decline to Answer	*12*	0.8	0.8	0.8
11. On average, how often do you take a finger stick to test your glucose?				
Every couple of days or less	*54*	3.5	6.2	2.6
1-2x per day	*374*	24.3	25.4	23.9
3-4x per day	*467*	30.3	26.7	31.5
5-6x per day	*337*	21.9	21	22.1
7-8x per day	*173*	11.2	11	11.3
9-10x per day	*78*	5.1	4.6	5.2
>10x per day	*57*	3.7	4.9	3.3
Decline to Answer	*2*	0.1	0.3	0.1
12. How often do you wear a CGM? (Section for CGM users only)				
0% = never, 100% = all the time				
0%	*1*	0.1	0.5	0
1-25%	*12*	1	0.5	1.1
25-50%	*24*	2.1	2.1	2.1
50-75%	*79*	6.8	7.3	6.7
75-100%	*1047*	90	89.5	90.1
Decline to answer	*0*	-	-	-

13. How often do you look at your CGM throughout the day?				
Rarely	*4*	0.3	0.5	0.3
1-3x per day	*20*	1.7	1	1.9
4-6x per day	*96*	8.3	7.3	8.4
>6x per day	*1043*	89.7	91.1	89.4
Decline to Answer	*0*	-	-	-
14. On average, how often do you review your extended CGM glucose history on your phone or using a tool such as Dexcom Clarity?				
I am not aware of these tools	*133*	11.4	7.3	12.2
I am aware of these tools but have never used them	*217*	18.7	13.6	19.7
1 time per month	*325*	27.9	28.8	27.8
1 time per week	*239*	20.6	24.1	19.9
Multiple times per week	*136*	11.7	12	11.6
Daily	*101*	8.7	12.6	7.9
Decline to answer	*12*	1	1.6	0.9
15. How often do you use a CGM device used to perform the following actions?				
1 = never, 5 = very often				
a. Check if you have high or low glucose				
Never, 1	*5*	0.4	0.5	0.4
2	*35*	3	1.6	3.3
3	*95*	8.2	9.9	7.8
4	*1028*	88.4	88	88.5
5	*0*	-	-	-
Decline to answer	*0*	-	-	-
b. Check your glucose before eating				
Never, 1	*9*	0.8	0	0.9
2	*13*	1.1	1	1.1
3	*45*	3.9	3.1	4
4	*110*	9.5	6.3	10.1
5	*985*	84.7	89.5	83.7
Decline to answer	*1*	0.1	0	0.1
c. Check your glucose before exercising				
Never, 1	*14*	1.2	1	1.2
2	*26*	2.2	2.1	2.3
3	*51*	4.4	4.7	4.3
4	*109*	9.4	8.9	9.5
5	*954*	82	82.7	81.9

Decline to answer	*9*	0.8	0.5	0.8
d. Check your glucose before bedtime				
Never, 1	*9*	0.8	0	0.9
2	*14*	1.2	0.5	1.3
3	*48*	4.1	3.1	4.3
4	*96*	8.3	8.4	8.2
5	*996*	85.6	88	85.2
Decline to answer	*0*	-	-	-
e. Look at trend arrows				
Never, 1	*4*	0.3	0.5	0.3
2	*12*	1	0	1.2
3	*60*	5.2	3.1	5.6
4	*128*	11	12.6	10.7
5	*958*	82.4	83.8	82.1
Decline to answer	*1*	0.1	0	0.1
f. Modify insulin dosing				
Never, 1	*20*	1.7	1	1.9
2	*32*	2.8	1	3.1
3	*99*	8.5	6.3	9
4	*193*	16.6	18.3	16.3
5	*818*	70.3	73.3	69.8
Decline to answer	*1*	0.1	0	0.1
16. How often do you make changes to your long-acting insulin (i.e. Lantus)?				
Daily	*51*	3.3	8.5	1.6
Weekly	*79*	5.1	9.7	3.6
Monthly	*135*	8.8	16.2	6.2
Every three months (i.e. after a doctor's visit/after my A1C)	*449*	29.1	58.5	19.2
Decline to answer	*828*	53.7	7.2	69.4
17. How often do you make changes to your short-acting (Novolog, Humalog, or Apidra) insulin ratios (such as carb ratios or factors)?				
I don't use ratios to calculate my insulin dose	*66*	4.3	8.2	3
Daily	*361*	23.4	44.9	16.1
Weekly	*117*	7.6	5.1	8.4
Monthly	*263*	17.1	8.7	19.9
Every 3 months Every three months (i.e. after a doctor's visit/after my A1C)	*680*	44.1	29.5	49
Decline to answer	*55*	3.6	3.6	3.6
18. How soon would you want to know about a predicted hypoglycemic event?				

Never	*3*	0.2	0.3	0.2
5 mins prior	*111*	7.2	9	6.6
15 mins prior	*543*	35.2	37.7	34.4
30 mins prior	*663*	43	37.7	44.8
>1 hour prior	*219*	14.2	15.1	13.9
Decline to answer	*3*	0.2	0.3	0.2
19. How often do you want to review changes to insulin doses?				
Never	*34*	2.2	4.9	1.3
Daily	*413*	26.8	35.9	23.7
Weekly	*450*	29.2	23.3	31.2
Monthly	*371*	24.1	19.5	25.6
Every few months	*248*	16.1	15.4	16.3
Decline to answer	*26*	1.7	1	1.9
20. How interested would you be in a phone app with the following new features? Note this phone app would automatically receive your glucose level from a CGM and receive insulin doses from insulin pens.				
1 = not interested, 2 = very interested				
a. Displays your predicted glucose trends over the next couple of hours				
1	*67*	4.3	4.9	4.2
2	*46*	3	4.1	2.6
3	*80*	5.2	5.9	4.9
4	*232*	15	16.4	14.6
5	*1111*	72	68.7	73.2
Decline to Answer	*6*	0.4	0	0.5
b. Assists you in avoiding hypoglycemia				
1	*49*	3.2	2.8	3.3
2	*32*	2.1	2.6	1.9
3	*60*	3.9	4.9	3.6
4	*187*	12.1	12.6	12
5	*1209*	78.4	77.2	78.8
Decline to Answer	*5*	0.3	0	0.4
c. Sets goals, such as a target average glucose				
1	*107*	6.9	6.7	7
2	*97*	6.3	5.6	6.5
3	*184*	11.9	14.6	11
4	*322*	20.9	23.8	19.9
5	*827*	53.6	49.2	55.1
Decline to Answer	*5*	0.3	0	0.4

d. Suggests behavioral changes, such as sleep, exercise or nutrition based on past glucose control				
1	*126*	8.2	8.2	8.2
2	*109*	7.1	6.2	7.4
3	*197*	12.8	14.4	12.2
4	*383*	24.8	26.7	24.2
5	*722*	46.8	44.6	47.6
Decline to answer	*5*	0.3	0	0.4
e. Calculates insulin doses				
1	*130*	8.4	5.4	9.5
2	*98*	6.4	6.2	6.4
3	*169*	11	10.5	11.1
4	*290*	18.8	21.3	18
5	*848*	55	56.7	54.4
Decline to answer	*7*	0.5	0	0.6
f. Provides suggestions on how much short acting insulin to give for meal				
1	*108*	7	4.6	7.8
2	*75*	4.9	4.4	5
3	*144*	9.3	10	9.1
4	*309*	20	21.8	19.4
5	*900*	58.4	59.2	58.1
Decline to answer	*6*	0.4	0	0.5
g. Provides insulin on board as a feature				
1	*100*	6.5	6.4	6.5
2	*68*	4.4	5.4	4.1
3	*134*	8.7	10.8	8
4	*230*	14.9	18.7	13.6
5	*989*	64.1	56.9	66.6
Decline to Answer	*21*	1.4	1.8	1.2
h. Suggests changes to timing of insulin doses radio				
1	*69*	4.5	2.8	5
2	*53*	3.4	4.4	3.1
3	*122*	7.9	12.1	6.5
4	*334*	21.7	22.6	21.4
5	*956*	62	57.7	63.5
Decline to Answer	*8*	0.5	0.5	0.5
i. Provides suggestions on how much long acting (basal) insulin to give				
1	*333*	21.6	5.1	27.2
2	*81*	5.3	7.7	4.4

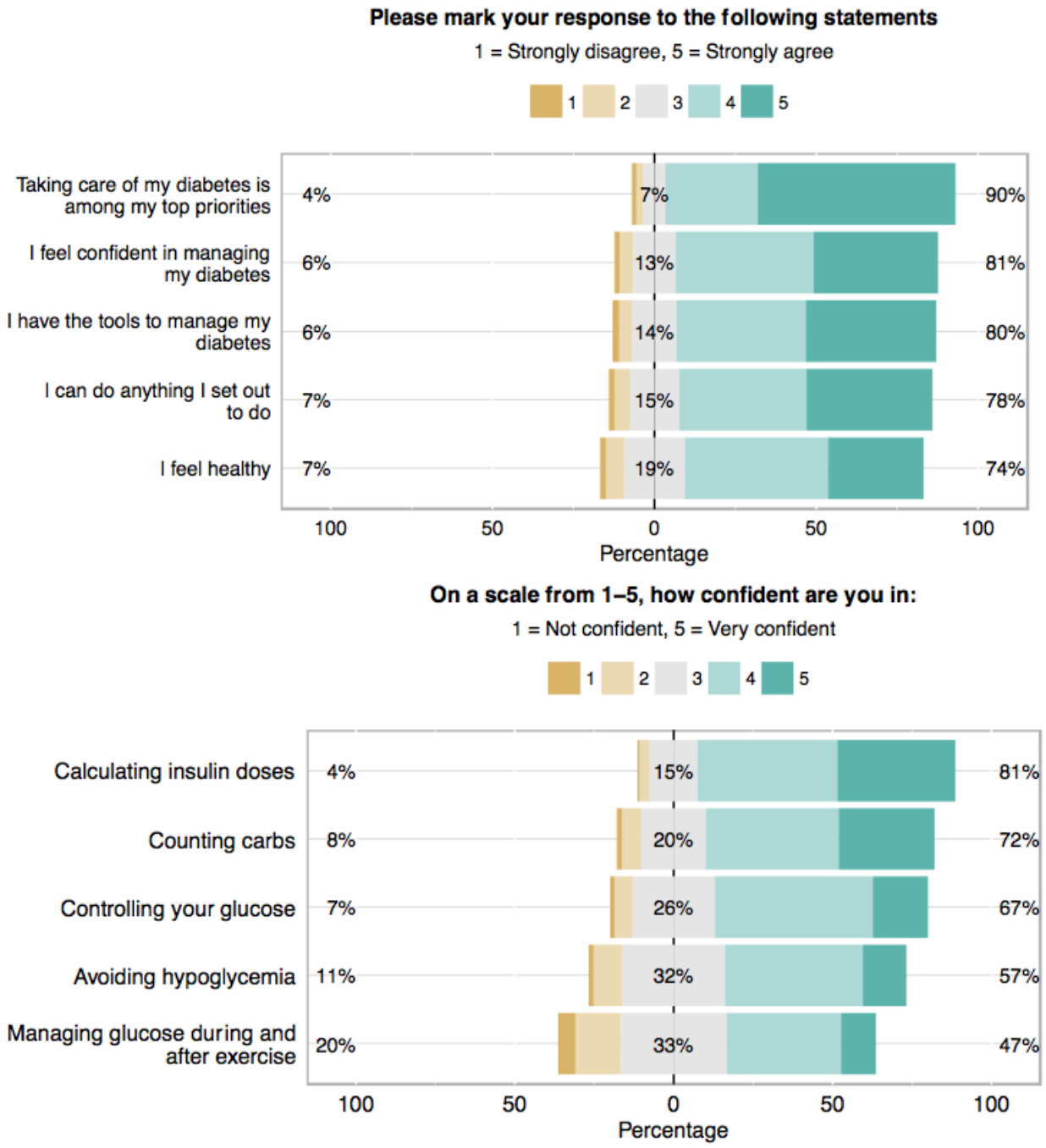
3	*145*	9.4	10.3	9.1
4	*214*	13.9	21.5	11.3
5	*680*	44.1	55.4	40.3
Decline to Answer	*89*	5.8	0	7.7
j. Is able to look at past meal glucose and suggest insulin to carb ratio				
1	*71*	4.6	4.4	4.7
2	*39*	2.5	4.1	2
3	*112*	7.3	8.2	6.9
4	*310*	20.1	20.3	20.1
5	*1005*	65.2	62.8	66
Decline to Answer	*5*	0.3	0.3	0.3
k. Is able to count carbs				
1	*76*	4.9	6.4	4.4
2	*49*	3.2	4.9	2.6
3	*115*	7.5	10	6.6
4	*241*	15.6	15.9	15.5
5	*1054*	68.4	62.1	70.5
Decline to answer	*7*	0.5	0.8	0.3
l. Enables you to enter meal characteristics (carbohydrate, protein, fat content) to help manage glucose				
1	*93*	6	6.9	5.7
2	*83*	5.4	7.4	4.7
3	*155*	10.1	11	9.7
4	*322*	20.9	24.1	19.8
5	*882*	57.2	50.3	59.5
Decline to answer	*7*	0.5	0.3	0.5
m. Enables you to capture photos of your meals and relate this to your glucose management (e.g. a certain meal resulted in higher glucose, or required more insulin)				
1	*174*	11.3	12.1	11
2	*122*	7.9	7.9	7.9
3	*216*	14	17.9	12.7
4	*273*	17.7	18.7	17.4
5	*751*	48.7	43.1	50.6
Decline to answer	*6*	0.4	0.3	0.4
n. Assists you in monitoring glucose during and after exercise				
1	*59*	3.8	3.1	4.1
2	*52*	3.4	4.1	3.1
3	*117*	7.6	8.7	7.2

4	*290*	18.8	23.3	17.3
5	*1019*	66.1	60.8	67.9
Decline to Answer	*5*	0.3	0	0.4
o. Displays predicted glucose trends taking exercise into consideration (i.e. if you are about to exercise or have just exercised)				
1	*58*	3.8	3.1	4
2	*45*	2.9	3.6	2.7
3	*95*	6.2	9	5.2
4	*273*	17.7	18.7	17.4
5	*1066*	69.1	65.6	70.3
Decline to Answer	*5*	0.3	0	0.4
p. Uses an activity tracker to monitor exercise and improve glucose trends over the next couple of hours				
1	*64*	4.2	3.1	4.5
2	*58*	3.8	4.6	3.5
3	*133*	8.6	12.6	7.3
4	*302*	19.6	23.6	18.2
5	*977*	63.4	55.4	66.1
Decline to Answer	*8*	0.5	0.8	0.4
21. How interested are you in a phone app that sends the following alerts?				
1 = not interested, 5 = very interested				
a. Hypoglycemic events				
1	*73*	4.7	4.6	4.8
2	*44*	2.9	2.6	3
3	*108*	7	10	6
4	*220*	14.3	16.2	13.6
5	*1094*	70.9	66.7	72.4
Decline to answer	*3*	0.2	0	0.3
b. Predicted hypoglycemic event				
1	*52*	3.4	2.6	3.6
2	*40*	2.6	2.6	2.6
3	*96*	6.2	7.9	5.6
4	*300*	19.5	22.3	18.5
5	*1051*	68.2	64.6	69.4
Decline to answer	*3*	0.2	0	0.3
c. Predicted nighttime hypoglycemic events				
1	*54*	3.5	2.6	3.8
2	*44*	2.9	3.1	2.8
3	*70*	4.5	7.9	3.4

4	*237*	15.4	16.2	15.1
5	*1133*	73.5	70.3	74.6
Decline to answer	*4*	0.3	0	0.3
d. Hyperglycemic events				
1	*78*	5.1	4.4	5.3
2	*68*	4.4	4.1	4.5
3	*168*	10.9	13.6	10
4	*330*	21.4	24.4	20.4
5	*895*	58	53.6	59.5
Decline to answer	*3*	0.2	0	0.3
e. Predicted hyperglycemic events				
1	*64*	4.2	3.3	4.4
2	*65*	4.2	4.4	4.2
3	*152*	9.9	11.8	9.2
4	*352*	22.8	26.7	21.5
5	*905*	58.7	53.8	60.3
Decline to answer	*4*	0.3	0	0.3
f. Missed insulin doses				
1	*195*	12.6	9.7	13.6
2	*96*	6.2	4.9	6.7
3	*200*	13	10.3	13.9
4	*250*	16.2	18.5	15.5
5	*790*	51.2	56.4	49.5
6	*11*	0.7	0.3	0.9
Decline to answer	*0*	-		
g. Suggested changes to insulin dosing or carbohydrate intake based on exercise				
1	*72*	4.7	4.9	4.6
2	*53*	3.4	3.3	3.5
3	*147*	9.5	12.1	8.7
4	*350*	22.7	26.2	21.5
5	*916*	59.4	53.6	61.4
Decline to answer	*4*	0.3	0	0.3
h. Reminders to check your blood glucose				
1	*382*	24.8	22.3	25.6
2	*201*	13	11	13.7
3	*329*	21.3	22.6	20.9
4	*217*	14.1	13.6	14.2
5	*409*	26.5	30.5	25.2

6	*4*	0.3	0	0.3
Decline to answer	*0*	-	-	-
22. How soon would you want to know about a low blood sugar that will likely occur in the future?				
Never	*5*	0.3	0.5	0.3
5 mins prior	*92*	6	6.7	5.7
15 mins prior	*490*	31.8	36.2	30.3
30 mins prior	*742*	48.1	43.3	49.7
>1 hour prior	*212*	13.7	13.3	13.9
Decline to answer	*1*	0.1	0	0.1
23. How often would you want to be alerted to improve your glucose control (to avoid lows and highs)?				
I would not want to be alerted by a phone app to help control my diabetes	*175*	11.3	13.1	10.8
Up to 1-3 times per day	*749*	48.6	50.3	48
Up to 4-6 times per day	*270*	17.5	17.9	17.4
More than 6 times per day if needed	*320*	20.8	16.9	22
Decline to answer	*28*	1.8	1.8	1.8
24. How often do you want to review changes to insulin doses, for the purpose of adjusting basal doses, correction doses, and insulin to carb ratio?				
Never	*40*	2.6	3.8	2.2
Daily	*363*	23.5	34.4	19.9
Weekly	*627*	40.7	32.3	43.5
Monthly	*350*	22.7	19.2	23.9
Every few months	*146*	9.5	9	9.6
Decline to answer	*16*	1	1.3	1

Supplementary Table 1: Survey Questions and Responses. Complete text of the survey questions with the total number of responses, percentage for all respondents, respondent using MDI and respondents using pumps for each answer option for each question.



Supplementary Figure 1: Likert responses for question motivation and confidence questions. Responses related to the survey respondents' (a)motivation and (b)personal confidence in diabetes management. The percentages listed are for scores of 1, 3, and 5 from left to right. (1=Not interested, 3=Neutral, 5=Very interested)