

Appendix 1: Supplementary online material

Table 1. Dataset of HbA1c and Time-in-Range values used in the regression analysis for the FGM sensor group. The follow-up column shows the time of the relevant visits, while the CGM column is the percentage of actual CGM use in the 90-day timeframe preceding the visit. Diff columns show the relative percentage difference between the observed TIR and the estimated values computed with the regression analyses for the whole dataset and the FGM group respectively.

Follow-up visit (day)	CGM (%)	HbA1c		% TIR				
		%	mmol/mol	observed	estimated (all data)	% diff.	estimated (FGM only)	% diff.
365	77	5.4	36	77	81	5	78	1
365	83	5.6	38	65	79	22	75	15
365	73	5.7	39	69	78	13	74	7
180	76	5.7	39	82	78	-5	74	-10
180	78	5.7	39	71	78	10	74	4
90	96	5.8	40	83	77	-7	73	-12
90	96	5.8	40	84	77	-8	73	-13
365	75	5.9	41	68	75	10	72	6
90	80	6.0	42	66	74	12	71	8
90	93	6.1	43	91	73	-20	69	-24
180	76	6.1	43	85	73	-14	69	-19
90	94	6.4	46	71	69	-3	66	-7
365	72	6.5	48	66	68	3	65	-2
365	75	6.7	50	67	66	-1	62	-7
180	76	6.7	50	62	66	6	62	0
90	87	6.7	50	59	66	12	62	5
90	80	6.7	50	56	66	18	62	11
365	73	6.8	51	71	65	-8	61	-14
90	91	6.8	51	67	65	-3	61	-9
180	75	6.8	51	34	65	91	61	79
365	74	6.8	51	62	65	5	61	-2
90	95	6.9	52	49	63	29	60	23
365	76	7.0	53	56	62	11	59	5
90	90	7.0	53	52	62	19	59	14
90	94	7.1	54	78	61	-22	58	-26
180	76	7.1	54	51	61	20	58	14
90	88	7.1	54	55	61	11	58	5
180	77	7.1	54	40	61	53	58	45
365	76	7.2	55	81	60	-26	56	-31
365	74	7.2	55	59	60	2	56	-5
180	75	7.2	55	58	60	3	56	-3
365	74	7.2	55	61	60	-2	56	-8
180	73	7.2	55	53	60	13	56	6
365	76	7.2	55	42	60	43	56	33

90	85	7.2	55	68	60	-12	56	-18
90	93	7.3	56	58	59	2	55	-5
365	76	7.3	56	62	59	-5	55	-11
365	75	7.3	56	68	59	-13	55	-19
365	76	7.3	56	69	59	-14	55	-20
90	92	7.4	57	53	57	8	54	2
180	74	7.4	57	67	57	-15	54	-20
365	75	7.4	57	62	57	-8	54	-13
90	93	7.4	57	72	57	-21	54	-25
180	77	7.5	58	82	56	-32	53	-35
90	91	7.5	58	46	56	22	53	15
90	94	7.5	58	67	56	-16	53	-21
90	90	7.5	58	44	56	27	53	21
365	77	7.5	58	57	56	-2	53	-7
180	76	7.5	58	57	56	-2	53	-7
90	90	7.6	60	41	55	34	52	27
365	70	7.6	60	69	55	-20	52	-25
90	91	7.6	60	55	55	0	52	-5
180	75	7.6	60	65	55	-15	52	-20
90	96	7.6	60	48	55	15	52	8
180	74	7.6	60	68	55	-19	52	-23
180	75	7.6	60	46	55	20	52	13
90	93	7.7	61	65	54	-17	51	-21
180	75	7.8	62	30	52	73	49	63
180	75	7.8	62	50	52	4	49	-2
180	73	7.8	62	36	52	44	49	37
180	75	7.9	63	43	51	19	48	12
365	76	7.9	63	57	51	-11	48	-16
365	76	8.0	64	34	50	47	47	38
365	72	8.0	64	62	50	-19	47	-24
90	97	8.1	65	51	49	-4	46	-10
90	97	8.1	65	64	49	-23	46	-28
180	77	8.1	65	51	49	-4	46	-10
90	88	8.3	67	36	46	28	43	19
90	92	8.5	69	46	44	-4	41	-11
180	74	8.5	69	22	44	100	41	86
90	93	8.6	70	37	43	16	40	8
365	76	8.7	72	38	42	11	39	3
365	72	8.7	72	43	42	-2	39	-9
365	71	8.8	73	42	40	-5	38	-10
180	77	8.8	73	36	40	11	38	6
90	96	8.8	73	48	40	-17	38	-21
180	77	8.9	74	48	39	-19	36	-25
180	71	9.0	75	48	38	-21	35	-27

Table 2. Dataset of HbA1c and Time-in-Range values used in the regression analysis for the rtCGM sensor group. The follow-up column shows the time of the relevant visits, while the CGM column is the percentage of actual CGM use in the 90-day timeframe preceding the visit. Diff columns show the relative percentage difference between the observed TIR and the estimated values computed with the regression analyses for the whole dataset and the rtCGM group respectively.

Follow-up visit (day)	CGM (%)	HbA1c		% TIR				
		%	mmol/mol	observed	estimated (all data)	% diff.	estimated (rtCGM only)	% diff.
365	82	5.4	36	81	81	0	83	3
180	86	5.4	36	85	81	-5	83	-2
180	76	5.6	38	78	79	1	81	4
365	85	6.0	42	59	74	25	76	29
180	90	6.1	43	72	73	1	75	5
365	87	6.2	44	85	72	-15	74	-13
90	74	6.2	44	70	72	3	74	6
90	87	6.4	46	82	69	-16	72	-12
90	70	6.5	48	67	68	1	71	5
180	89	6.5	48	75	68	-9	71	-5
90	76	6.5	48	75	68	-9	71	-5
90	76	6.5	48	63	68	8	71	13
90	89	6.5	48	73	68	-7	71	-3
180	87	6.5	48	84	68	-19	71	-15
180	90	6.5	48	80	68	-15	71	-11
365	91	6.5	48	79	68	-14	71	-11
90	86	6.6	49	61	67	10	70	16
365	73	6.6	49	85	67	-21	70	-18
365	75	6.8	51	57	65	14	68	19
90	98	6.8	51	84	65	-23	68	-19
365	83	6.8	51	47	65	38	68	46
180	85	6.8	51	63	65	3	68	8
90	92	6.8	51	56	65	16	68	22
365	76	6.9	52	67	63	-6	67	1
180	91	7.0	53	57	62	9	66	15
90	75	7.0	53	49	62	27	66	35
90	73	7.0	53	59	62	5	66	13
180	81	7.1	54	61	61	0	65	7
90	76	7.1	54	62	61	-2	65	4
90	85	7.1	54	66	61	-8	65	-1
180	76	7.1	54	61	61	0	65	6
90	76	7.2	55	62	60	-3	63	1
180	77	7.4	57	60	57	-5	61	3
365	76	7.4	57	61	57	-7	61	0
365	85	7.4	57	55	57	4	61	11
90	90	7.5	58	54	56	4	60	12
365	89	7.5	58	64	56	-13	60	-6
180	77	7.5	58	43	56	30	60	41
90	84	7.5	58	53	56	6	60	13

180	75	7.6	60	58	55	-5	59	2
180	76	7.7	61	54	54	0	58	7
365	80	7.7	61	53	54	2	58	10
180	81	7.7	61	57	54	-5	58	1
90	88	7.8	62	46	52	13	57	25
90	91	7.8	62	40	52	30	57	44
365	90	7.9	63	66	51	-23	56	-15
180	78	7.9	63	55	51	-7	56	2
365	75	8.0	64	49	50	2	55	12
180	82	8.1	65	46	49	7	54	18
90	75	8.1	65	55	49	-11	54	-1
180	76	8.1	65	63	49	-22	54	-14
90	76	8.2	66	50	48	-4	53	7
90	90	8.2	66	54	48	-11	53	-2
365	78	8.4	68	49	45	-8	51	4
90	82	8.4	68	46	45	-2	51	10
90	73	8.4	68	47	45	-4	51	8
90	92	8.5	69	31	44	42	49	59
90	82	8.6	70	36	43	19	48	33
180	92	8.6	70	24	43	79	48	104
90	77	8.6	70	68	43	-37	48	-29
180	76	8.6	70	46	43	-7	48	5
180	88	8.6	70	61	43	-30	48	-22
180	71	8.6	70	34	43	26	48	40
365	83	8.6	70	36	43	19	48	33
180	76	8.6	70	48	43	-10	48	-1
180	78	9.0	75	29	38	31	44	54
90	77	9.1	76	38	37	-3	43	14
365	80	9.2	77	27	36	33	42	58