

SUPPLEMENTARY DATA

Supplementary Table 1. Detailed univariate and multivariate regression analysis.

Predictive variable	Outcomes							
	A1C		Δ hypoglycemia* <50 mg/dL		Δ hypoglycemia* <60 mg/dL		Δ hypoglycemia* <70 mg/dL	
	<i>R</i> ²	<i>P</i>	<i>R</i> ²	<i>P</i>	<i>R</i> ²	<i>P</i>	<i>R</i> ²	<i>P</i>
Age	0.038	0.17	0.001	0.83	0.001	0.86	0.003	0.70
Type 1 diabetes duration	0.056 (0.056) §	0.091 (0.0093) [§]	0.001	0.82	0.005	0.62	0.005	0.63
A1C on MDI	0.403 (0.403) §	0.00001 (0.00001) [§]	0.027	0.25	0.014	0.41	0.008	0.54
Mean blood glucose on MDI [†]	0.051	0.11	0.086	0.034	0.106	0.017	0.061	0.077
Blood glucose <70 mg/dL (3.9 mmol/L) on MDI [†]	0.028	0.24	0.106	0.017	0.144	0.0044	0.104	0.54
Blood glucose <60 mg/dL (3.3 mmol/L) on MDI [†]	0.015	0.39	0.140	0.0052	0.148	0.0038	0.061	0.078
Blood glucose <50 mg/dL (2.8 mmol/L) on MDI [†]	0.063	0.43	0.340 (0.340) [§]	0.00001 (0.00001) [§]	0.165	0.002	0.061	0.076
SMBG measurements per day on MDI [†]	0.006	0.59	0.023	0.29	0.019	0.34	0.033	0.2
Mean SD of blood glucose on MDI [†]	0.051	0.81	0.001	0.81	0.001	0.87	0.003	0.7
%CV on MDI [†]	0.084	0.036	0.010	0.48	0.156	0.0029	0.111	0.014
LBGI on MDI [†]	0.126	0.0084	0.235	0.00013	0.195 (0.195) §	0.0007 (0.0013) [§]	0.111 (0.111) [§]	0.014 (0.018) [§]
HBGI on MDI [†]	0.126	0.81	0.057	0.089	0.072	0.054	0.038	0.17
ADRR on MDI [†]	0.015	0.43	0.017	0.4	0.018	0.38	0.020	0.36

*Δ hypoglycemia is the difference in number of hypoglycemic events on CSII versus MDI. [†]All data derived from SMBG were calculated from the 1-month period preceding the visit. [§]Results in parentheses are of the stepwise multivariate analysis.

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Supplementary Figure 1. Panel A shows the regression line of baseline A1C for prediction of A1C change on CSII. Panel B shows the correlation between baseline A1C and baseline LBGI. Dotted lines represent 95% CI.

