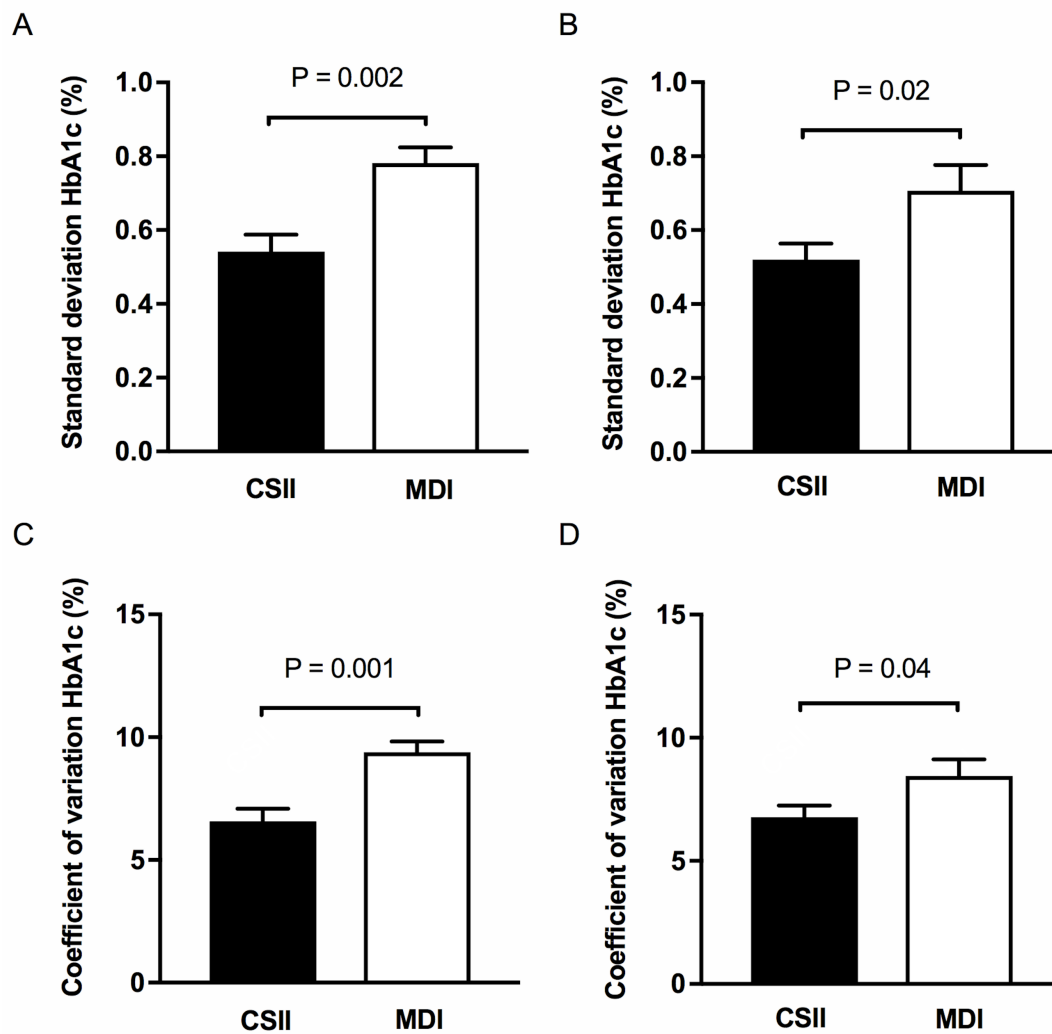


Supplementary Table 1. Clinical characteristics of adults with Type 1 diabetes by location.

Location	Royal North Shore Hospital	St Vincent's Hospital	P value
N	394	112	
CSII (n (%))	98 (24.9)	66 (58.9)	< 0.001
Age (years)	38±16	36±12	0.23
Women (n (%))	189 (62)	65 (58)	0.049
Years of diabetes	17±14	18±13	0.47
Years CSII therapy	5±4	7±3	0.026
Vascular complications (n (%))*	161 (41)	31 (30)	0.04
Severe hypoglycaemia (n (%))†	84 (22)	-	-
Socioeconomic status (decile):			
Advantage / Disadvantage			
Education & occupation	9±2	7±2	< 0.001
	9±2	7±3	< 0.001
Years follow-up	3.0±1.9	7.0±5.9	< 0.001
HbA1c measures (n)	7±4	15±13	< 0.001
Time between HbA1c (days)	238±197	237±185	0.98
Mean HbA1c			
%	8.0±1.5	7.7±1.5	0.06
[mmol/mol]	[64±16]	[60±12]	

Data are mean ± standard deviation, or n (percentage). * Microvascular and macrovascular complications. † Any episode of severe hypoglycaemia recorded in the medical record.



Supplementary Figure 1. Long-term glycaemic variability in CSII and MDI participants by hospital location. Standard deviation of HbA1c over follow-up (0.5 ± 0.5 % [6 ± 7] mmol/mol) CSII, (0.8 ± 0.7 % [9 ± 8] mmol/mol) MDI, Royal North Shore Hospital (A) and standard deviation of HbA1c (0.5 ± 0.4 % [6 ± 4] mmol/mol) CSII,

(0.7 ± 0.5 % [11 ± 9] mmol/mol) MDI, St Vincent's Hospital (B). Coefficient of variation of HbA1c over follow-up (6.6 ± 5.1 % [10 ± 12] mmol/mol) CSII, (9.4 ± 7.7 % [13 ± 11] mmol/mol) MDI, Royal North Shore Hospital (C) and coefficient of variation of HbA1c (6.8 ± 3.8 % [9 ± 5] mmol/mol) CSII and (8.4 ± 4.6 % [21 ± 20] mmol/mol) MDI, St Vincent's Hospital (D). Black bars = CSII; white bars = MDI. Graphed values are Mean +/- SEM.

Supplementary Table 2. Clinical characteristics of adults with Type 1 diabetes by age subgroups of 18-26 years and greater than or equal to 26 years.

	18-26 y			≥ 26 y		
	CSII	MDI	P value	CSII	MDI	P value
N	54	69		110	273	
Age (years)	20±2	20±2	0.57	40±11	44±14	0.009
Women (n (%))	34 (63)	30 (43)	0.03	72 (65)	118 (43)	<0.001
Years of diabetes	9±5	8±6	0.48	21±13	20±15	0.56
Years CSII therapy	6±3	N/A	-	6±4	N/A	-
Vascular complications (n (%))*	5 (9)	10 (15)	0.35	44 (41)	122 (50)	0.12
Severe hypoglycaemia (n (%))†	4 (10)	5 (10)	0.96	10 (18)	65 (27)	0.17
Socioeconomic status (decile):						
Advantage/Disadvantage	9±2	9±2	0.12	8±3	9±2	<0.001
Education & occupation	9±2	9±2	0.41	8±3	9±2	<0.001
Study follow-up (years)	3±2.6	3.6±4.0	0.50	4.5±2.7	4.2±4.0	0.52
HbA1c measurements (n)	7±6	9±10	0.40	9±8	8±8	0.43
Time between HbA1c (days)	221±237	205±127	0.62	20±131	261±216	0.019
Mean HbA1c %	8.3±1.3	8.5±1.6	0.52	7.6±1.1	7.9±1.4	0.034
[mmol/mol]	[66±14]	[68±18]		[59±12]	[62±16]	

Data are mean ± standard deviation, or n (percentage). * Microvascular and/or macrovascular complications. † Any episode of severe hypoglycaemia recorded in the medical record.

Supplementary Table 3. Long-term glycaemic variability in individuals changing from MDI to CSII therapy by gender.

Gender	Male (n = 15)			Female (n= 41)		
	MDI (pre)	CSII (post)	P value	MDI (pre)	CSII (post)	P value
Mean HbA1c % [mmol/mol]	7.8±0.7 [62±8]	7.4±0.8 [57±8]	0.014	7.9±0.8 [62±9]	7.3±1.0 [57±10]	0.001
SD HbA1c % [mmol/mol]	0.6±0.4 [7±4]	0.4±0.2 [4±2]	0.007	0.8±0.5 [8±5]	0.5±0.4 [5±4]	<0.001
CV HbA1c % [mmol/mol]	7.9±4.5 [11±6]	5.1±3.2 [7±5]	0.013	9.7±5.8 [14±8]	6.4±4.1 [9±6]	0.001

