Supporting Information

Figure 1: CGM TIME Trial CONSORT Flow Diagram

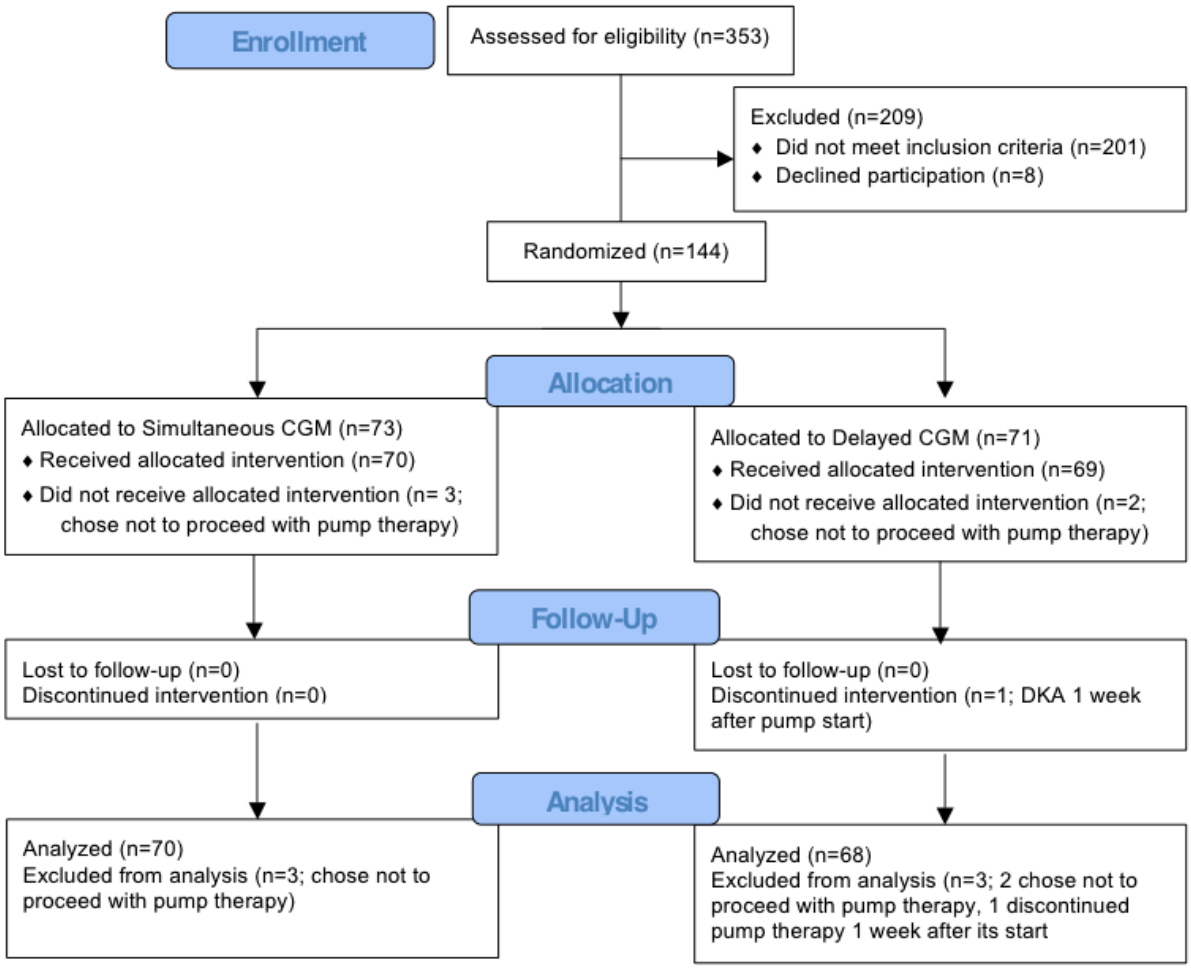


Table 1: Association between CGM adherence hours and HbA1c at 6 months after CGM initiation as determined by ordinary least squares regression, adjusted for baseline HbA1c, age group, gender, ethnicity, history of severe hypoglycemia and site, with Site 1 as reference given it had the largest sample size.

Parameter	Coefficient	SE	95% Confidence Interval	t	P
Baseline HbA1c	0.47	0.06	0.34 to 0.59	7.46	<0.001
Age Group (13-18)	0.09	0.12	-0.14 to 0.33	0.78	0.439
Gender (Female)	0.21	0.12	-0.02 to 0.44	1.81	0.072
Site 2	0.17	0.18	-0.17 to 0.52	0.98	0.330
Site 3	0.16	0.18	-0.19 to 0.51	0.90	0.368
Site 4	0.27	0.19	-0.10 to 0.63	1.44	0.153
Site 5	-0.39	0.18	-0.74 to -0.04	-2.18	0.031
Average CGM hours/100	-0.38	0.15	-0.68 to -0.09	-2.53	0.013
Average CGM hours/100 ^2	0.03	0.02	-0.01 to 0.07	1.37	0.172
Ethnicity (Caucasian)	-0.16	0.18	-0.51 to 0.18	-0.92	0.36
History of Severe Hypoglycemia in 12 months Before Study Entry	0.12	0.19	-0.25 to 0.49	0.63	0.528

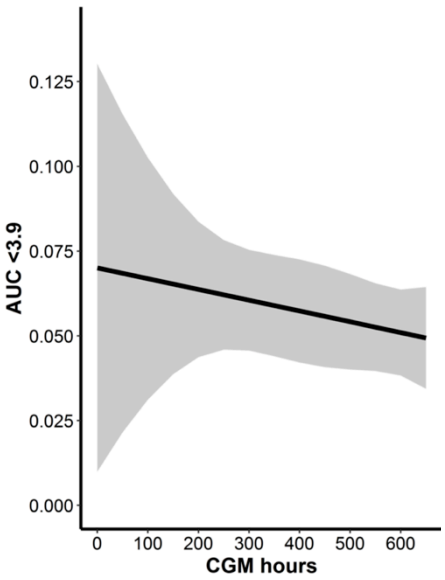
Model LR; $X^2 = 90.49$ (df=11), $P<0.001$; $R2 = 0.49$, N=134

<u>Figure 2 A&B:</u> Association Between Area Under the Curve (AUC) for time spent in Hypoglycemia and Hyperglycemia, as determined by ordinary least squares regression with cluster adjustment. The x-axis in the figures represents the mean CGM hours per 28-day period between CGM initiation and 6 months later.

AUC for Hypoglycemia (BG <3.9 mmol/L):

Factor	F	d.f.	P
CGM hours	1.66	2	0.192
Nonlinear	0.00	1	1.000
Ages 13-18	1.88	1	0.170
Female	2.01	1	0.157
Site	5.60	4	<0.001
REGRESSION	3.47	8	<0.001

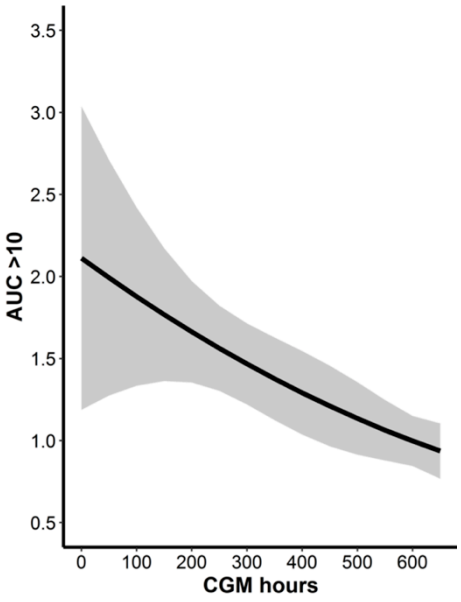
$R^2 = 0.10$, $n = 741$



AUC for Hyperglycemia (BG >10 mmol/L):

Factor	F	d.f.	P
CGM hours	13.94	2	<0.001
Nonlinear	0.13	1	0.720
Ages 13-18	0.04	1	0.834
Female	0.08	1	0.773
Site	4.01	4	0.003
REGRESSION	7.54	8	<0.001

$R^2 = 0.18$, $n = 741$



List of CGM TIME Trial Study Group Members:

Personnel are listed as (PI) for Principal Investigator, (I) for Co-Investigator, (C) for Co-ordinators, (DNE) for Diabetes Nurse Educators, (RD) for Dieticians. Children's Hospital of Eastern Ontario: Margaret L. Lawson (PI), Brenda Bradley (Project Manager), Christine Richardson (DNE), Jennilea Courtney (C), Tammy Cooper (RD). McMaster Children's Hospital: Karen McAssey (I), Janice Muileboom (DNE), Anne Marie DiGravio (RD), Elizabeth Helden (C), Amiee Hill (C). Children's Hospital, London Health Sciences Centre: Cheril Clarson (I), Chantelle Black (DNE), Ruth Duncan (DNE), Keira Evans (C), Jenna MacIsaac (RD), Margaret Watson (C). Markham-Stouffville Hospital: Susan E. Kirsch (I), Alanna Landry (DNE), Marilyn Fry (RD), Sameer Datwani (C), Lindsay Meldrum (C). Hospital for Sick Children: Farid H. Mahmud (I), Jacqueline R. Curtis (I), Lynne Cormack (DNE), Kamaljeet Sahota (C), Vanita Pais (RD). Biostatistics: Jason Chan MSc and Ken Tang PhD, CHEO Research Institute. Coordinating Center: Robarts Clinical Trial: Cynthia J. Downie, Liz Liddiard, Dildeep Kaur, Melody Chow, Helen Sun. Biostatisticians: Gopalan Rajamannar PhD, Robarts Clinical Trials; Nicholas Barrowman PhD, CHEO Research Institute. JDRF Canadian Clinical Trial Network: Olivia Lou, Concepcion Nierras. Data Safety Monitoring Board: Heather J. Dean (Chair), William V. Tamborlane, Howard A. Wolpert.