

ADDITIONAL FILE 1

Table S1. Country-specific measures of deprivation, and sources of regional and national reference type 1 diabetes population data.

Characteristics	AddIT UK	AddIT Canada	AddIT Australia
Deprivation Measure	Index of Multiple Deprivation (IMD) 2015	Canadian Marginalization Index (CAN-Marg) 2016	Socioeconomic Indices for Areas (SEIFA) 2016
Sub-Domain	N/A	Material Resources (MR)	Index of Relative Socioeconomic Disadvantage (IRSD)
Geographic Unit	Lower-layer Sorting Output Area (LSOA)	Dissemination Area (DA)	Postcode Area (POA)
Pediatric Type 1 Diabetes References	UK	Canada	Australia
Regional	National Pediatric Diabetes Audit (NPDA) 2015-16 & 2019-20	Regional data from the Hospital for Sick Children	Australasian Diabetes Data Network (ADDN)
National	National Pediatric Diabetes Audit (NPDA) 2015-16	Canadian Chronic Disease Surveillance System (CCDSS) 2016 & Pediatric Diabetes Network 2017-18	Australian Institute of Health & Welfare Data (AIHW) 2018

Table S2: Raw counts and proportions of the UK, Canadian and Australian cohorts of AddIT across deprivation quintiles. Intra-quintile differences are presented.

AddIT Cohort	Reference Population	Type	Index	Quintile	AddIT		Reference		OR	95% CI		P
					N	%	N	%		Low	High	
UK	NPDA	National	IMD 2015	Q1 (most)	8	4.6	5,823	21.6	0.176	0.075	0.354	<0.0001
				Q2	11	6.4	5,428	20.1	0.271	0.132	0.497	<0.0001
				Q3	39	22.5	5,198	19.2	1.224	0.833	1.762	0.247
				Q4	50	28.9	5,256	19.4	1.686	1.187	2.364	0.0027
				Q5 (least)	65	37.6	5,317	19.7	2.460	1.777	3.383	<0.0001
				Total	173	-	27,052	-				
	NPDA subset	Regional	IMD 2015	Q1 (most)	8	4.6	4,700	23.3	0.160	0.068	0.323	<0.0001
				Q2	11	6.4	4,338	21.5	0.248	0.122	0.457	<0.0001
				Q3	39	22.5	3,921	19.4	1.209	0.822	1.742	0.287
				Q4	50	28.9	3,641	18.0	1.850	1.301	2.595	<0.001
				Q5 (least)	65	37.6	3,609	17.9	2.768	1.999	3.808	<0.0001
Total				173	-	20,210	-					
Canada	PDN/CCDSS	National	MR 2016	Q1 (least)	92	29.5	4,780	20.0	1.673	1.294	2.148	<0.0001
				Q2	88	28.2	4,780	20.0	1.571	1.211	2.024	<0.001
				Q3	58	18.6	4,780	20.0	0.913	0.673	1.221	0.569
				Q4	36	11.5	4,780	20.0	0.522	0.357	0.741	<0.001
				Q5 (most)	38	12.2	4,780	20.0	0.555	0.384	0.782	<0.001
				Total	312	-	23,900	-				
	SickKids	Regional	MR 2016	Q1 (least)	92	29.5	225	30.1	0.970	0.717	1.307	0.883
				Q2	88	28.2	141	18.9	1.688	1.225	2.319	0.001
				Q3	58	18.6	103	13.8	1.427	0.984	2.057	0.049
				Q4	36	11.5	114	15.3	0.724	0.471	1.094	0.122
				Q5 (most)	38	12.2	164	22.0	0.493	0.328	0.729	<0.001
Total				312	-	747	-					
Australia	AIHW	National	IRSD 2016	Q1 (most)	10	6.9	4,207	20.4	0.292	0.137	0.554	<0.0001
				Q2	19	13.2	4,361	21.1	0.568	0.331	0.926	0.0182
				Q3	34	23.6	4,209	20.4	1.209	0.796	1.793	0.350
				Q4	29	20.1	4,099	19.8	1.019	0.652	1.545	0.917
				Q5 (least)	52	36.1	3,788	18.3	2.518	1.753	3.583	<0.0001
				Total	144	-	20,664	-				
	ADDN	Regional	IRSD 2016	Q1 (most)	10	6.9	445	7.2	0.955	0.444	1.828	0.999
				Q2	19	13.2	831	13.5	0.971	0.562	1.591	0.999
				Q3	34	23.6	1,324	21.6	1.123	0.738	1.673	0.540
				Q4	29	20.1	1,312	21.4	0.928	0.592	1.411	0.837
				Q5 (least)	52	36.1	2,226	36.3	0.993	0.690	1.417	0.999
Total				144	-	6,138	-					

Figure S1. Flowchart of study participants from the original AddIT UK, AddIT Canada and AddIT Australia cohorts included in the current study.

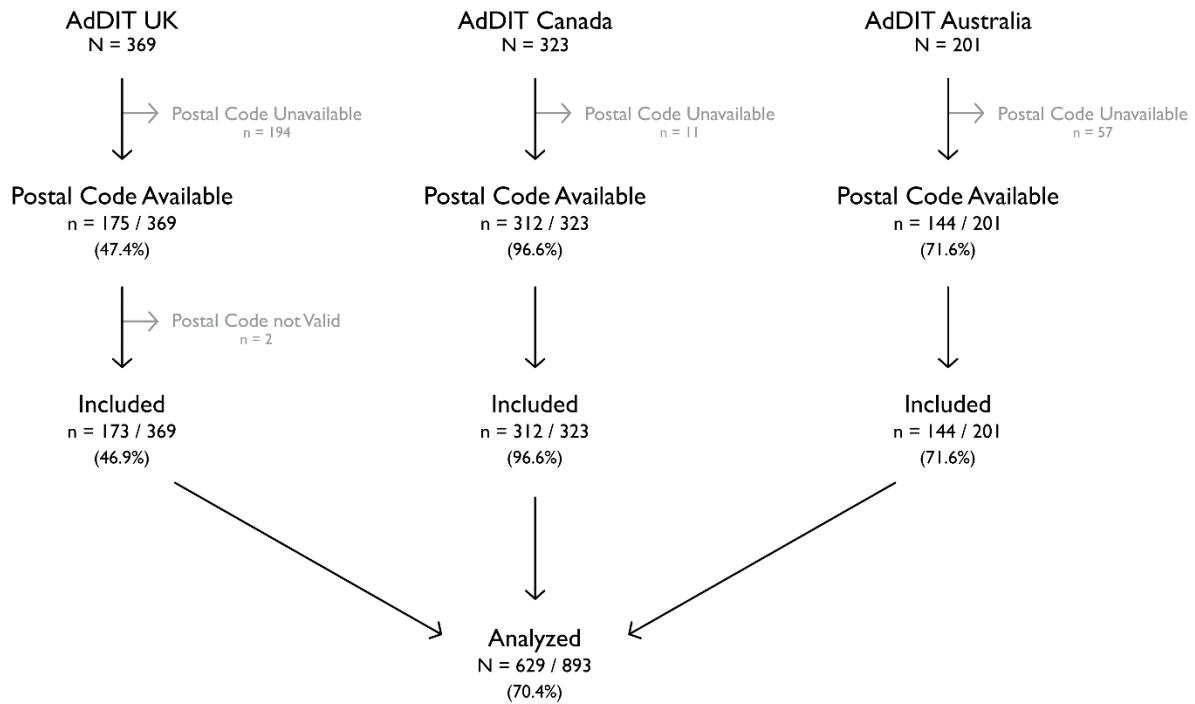


Figure S2. Distribution of the Experimental and Observational study arms among the A) AddIT UK and B) AddIT Canada cohorts across country-specific deprivation quintiles. Bars in colour represent the Experimental Arm whereas bars in white represent the Observational Arm. All participants of the AddIT Australia cohort were part of the Experimental Arm and thus not included.

