

Electronic supplementary material

ESM Table 1: *General Linear Regression Models Predicting Height Velocity (cm/yr and z-score)*

by Family History of type 1 diabetes (mother vs father vs sibling; n=1772)

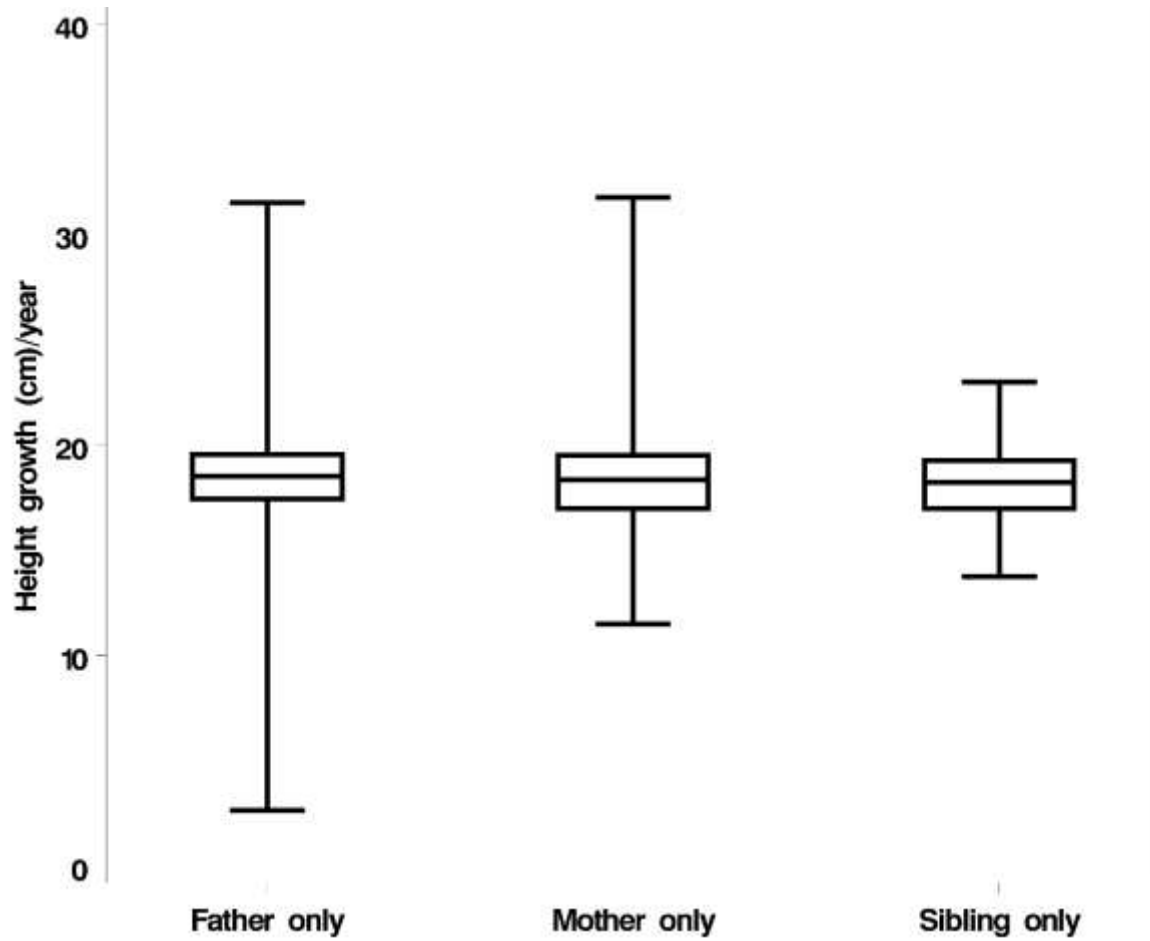
Parameters	Univariate Models			Multivariate Model ^c		
				β	SE (β)	<i>p</i> value
Model 1 (cm/yr)						
Family history from mother	0.30	0.14	0.038	-0.54	0.15	<0.001
Family history from father	0.10	0.14	0.464	-0.14	0.14	0.327
Gestational age (weeks)	-0.11	0.03	<0.001	-0.06	0.03	0.069
Northern European ^a	0.56	0.11	<0.001	0.31	0.10	0.002
Central Europe I ^a	0.26	0.14	0.064	0.47	0.13	<0.001
Male	0.23	0.09	0.012	0.39	0.08	<0.001
Vaginal delivery	0.10	0.09	0.260	0.18	.009	0.045
First diet other infant formula ^b	-5.55	1.93	0.004	-3.70	1.70	0.029
Birth weight (kg)	-0.56	0.08	<0.001	0.59	0.10	<0.001
Birth length (cm)	-0.32	0.02	<0.001	-0.38	0.02	<0.001
Duration of breast feeding	-0.04	0.02	0.117	-0.05	0.02	0.013
Treatment group assignment casein hydrolysate formula	0.03	0.09	0.773	-0.01	0.08	0.900
Birth order	-0.12	0.05	0.012	-0.13	0.05	0.004

Model 2 (z-score)						
Family history from mother	0.07	0.04	0.136	-0.16	0.04	<0.001
Family history from father	0.12	0.05	0.014	-0.04	0.04	0.362
Gestational age (weeks)	-0.05	0.01	<0.001	-0.02	0.01	0.070
Northern Europe ^a	0.17	0.04	<0.001	0.09	0.03	0.001
Central Europe II ^a	0.005	0.05	0.930	0.07	0.04	0.124
Central Europe I ^a	0.07	0.05	0.147	0.16	0.04	<0.001
Vaginal delivery	0.02	0.03	0.519	0.05	0.03	0.072
First diet other infant formula	-1.73	0.62	0.006	-1.03	0.49	0.035
Birth weight (kg)	-0.31	0.03	<0.001	0.17	0.03	<0.001
Birth length (cm)	-0.14	0.004	<0.001	-0.16	0.01	<0.001
Duration of breast feeding	-0.01	0.007	0.143	-0.02	0.01	0.010
Treatment group assignment casein hydrosylate formula	0.01	0.03	0.790	-0.01	0.02	0.726
Birth order	-0.05	0.015	0.001	-0.04	0.01	0.002

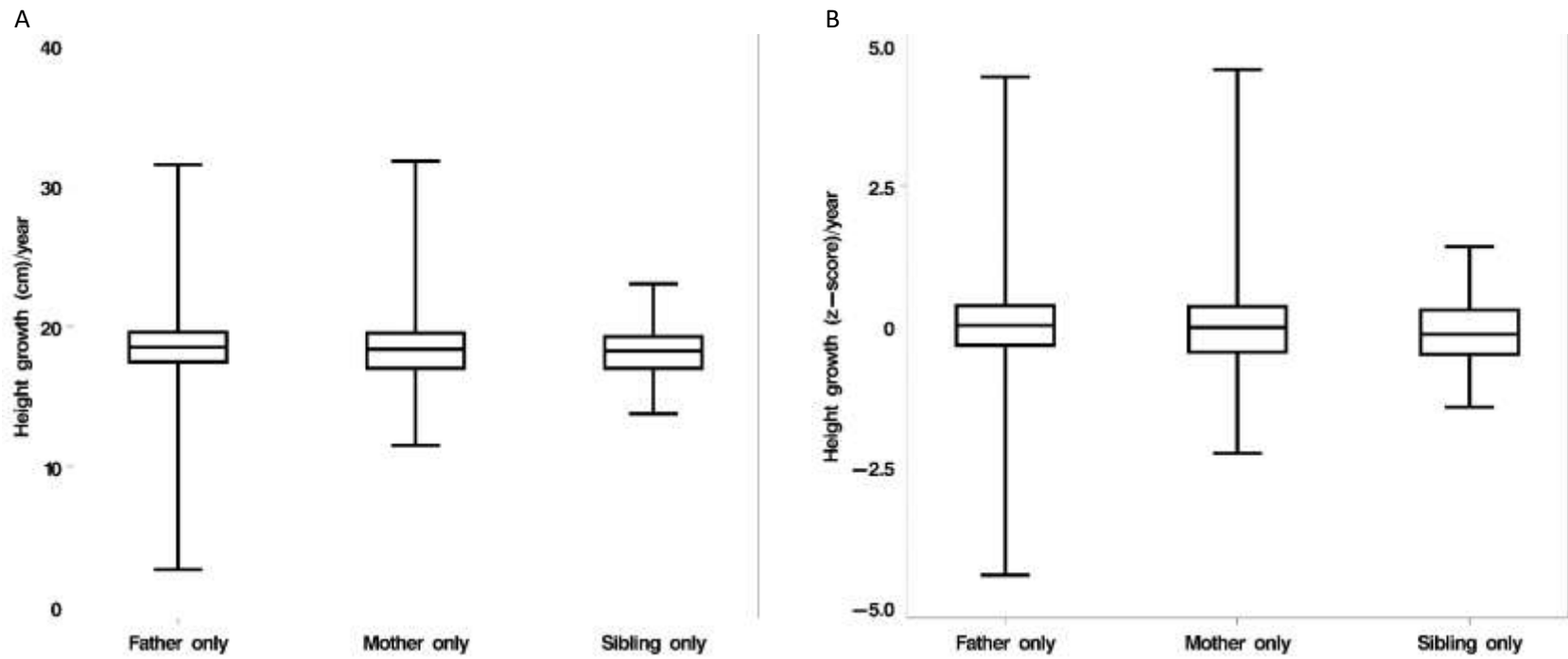
^a Region were defined as Northern Europe (Finland, Sweden), Central Europe I (Czech Republic, Estonia, Hungary, Poland), Central Europe II (Germany, Luxembourg, The Netherlands, Switzerland), Southern Europe (Italy, Spain), USA, Canada or Australia

^b First diet defined as breast milk, study formula, Nutramigen, other infant formula or other milk, or a combination of these (2 types of milk) received within the first 3 days of life

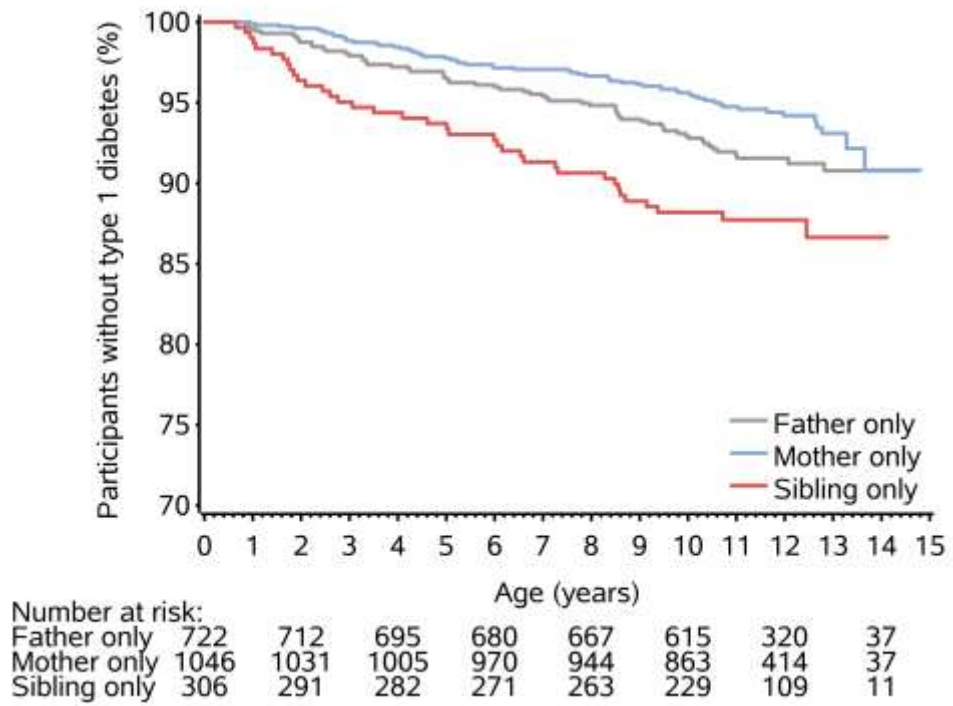
^c Intercepts [β (SE (β), P value)] - Model 1 = 38.29 (1.37, <0.001), Model 2 = 8.15 (0.40, <0.001)



ESM Figure 1 – Difference in BMI (z-score) at 2 years of age by family history [mother (n=877) vs father (n=645) vs sibling (n=250)] ($p = 0.054$)



ESM Figure 2 – Difference in height velocity during the first 2 years of life by family history [mother (n=877) vs father (n=645) vs sibling (n=250)]. a) velocity in cm/yr, ($p = 0.053$) b) velocity as z-score/yr ($p = 0.041$)



ESM Figure 3 – Time to type 1 diabetes by family history (mother vs father vs sibling), (Log-Rank Chi-Square 17.2; $p < 0.001$)

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