

ESM Table 1 – The risk of islet autoimmunity (IA) and type 1 diabetes associated with weight and length/height z-scores by age and time-varying model of growth up to 10 years of age in children having first-degree relative/s with type 1 diabetes and increased HLA-conferred risk of type 1 diabetes (N=2,149)

Age, years	Any IA <sup>a</sup> (n=305)			IAA First Antibody (n=183)			GADA First Antibody (n=189)			Multiple IA* (n=190)		
	HR	95% CI	P value	HR	95% CI	P value	HR	95% CI	P value	HR	95% CI	P value
Weight z score												
1	1.12	0.99-1.26	0.07	1.10	0.94-1.28	0.25	0.97	0.84-1.13	0.74	1.11	0.95-1.30	0.18
2	1.05	0.93-1.19	0.42	1.08	0.93-1.27	0.32	1.00	0.86-1.16	0.98	1.14	0.97-1.34	0.11
3	1.05	0.92-1.20	0.48	1.11	0.94-1.31	0.24	0.98	0.83-1.14	0.76	1.16	0.97-1.39	0.09
4	1.07	0.92-1.23	0.39	1.05	0.88-1.25	0.59	0.98	0.83-1.16	0.80	1.16	0.96-1.41	0.12
5	1.06	0.91-1.23	0.45	1.02	0.85-1.22	0.87	1.02	0.87-1.20	0.79	1.21	0.99-1.48	0.06
6	1.07	0.93-1.23	0.37	1.01	0.85-1.20	0.95	1.06	0.90-1.24	0.50	1.24	1.02-1.51	0.03
7	1.05	0.91-1.21	0.52	1.02	0.85-1.21	0.86	0.98	0.84-1.15	0.80	1.17	0.96-1.43	0.13
8	1.03	0.89-1.20	0.64	1.03	0.87-1.23	0.73	1.05	0.90-1.24	0.53	1.07	0.87-1.31	0.53
9	1.03	0.88-1.20	0.71	1.03	0.86-1.24	0.75	1.03	0.87-1.22	0.73	1.14	0.91-1.43	0.26
10	0.96	0.82-1.13	0.62	1.07	0.89-1.28	0.48	0.99	0.84-1.17	0.93	0.98	0.76-1.26	0.87
Length/height z score												
1	1.08	0.95-1.23	0.25	1.10	0.93-1.31	0.26	0.98	0.83-1.16	0.86	1.08	0.91-1.27	0.40
2	1.03	0.90-1.18	0.66	0.95	0.80-1.13	0.55	1.01	0.86-1.19	0.88	1.16	0.97-1.38	0.10
3	1.08	0.94-1.24	0.29	1.03	0.87-1.22	0.75	1.00	0.85-1.18	1.00	1.21	1.01-1.45	0.04
4	1.03	0.89-1.18	0.72	1.01	0.84-1.20	0.95	1.00	0.85-1.18	0.99	1.08	0.90-1.30	0.42
5	1.05	0.91-1.21	0.54	1.02	0.85-1.22	0.81	1.02	0.87-1.20	0.82	1.14	0.94-1.39	0.18
6	0.96	0.84-1.10	0.56	0.96	0.81-1.14	0.63	1.00	0.85-1.17	0.97	1.01	0.83-1.22	0.91
7	0.96	0.83-1.11	0.58	0.94	0.78-1.13	0.52	0.96	0.81-1.13	0.60	1.03	0.84-1.26	0.79
8	1.00	0.87-1.16	0.96	1.00	0.84-1.20	0.98	1.00	0.85-1.19	0.96	1.04	0.85-1.28	0.71
9	1.00	0.86-1.17	0.96	1.01	0.83-1.22	0.93	0.97	0.81-1.15	0.69	1.04	0.83-1.30	0.75
10	0.96	0.82-1.14	0.67	1.06	0.88-1.29	0.53	0.95	0.80-1.13	0.59	0.93	0.72-1.20	0.58
Weight z score up to 10 years	1.10	0.97-1.25	0.13	1.10	0.93-1.29	0.28	1.02	0.87-1.19	0.80	1.19	1.02-1.39	0.03
Length/height z score up to 10 years	1.08	0.95-1.22	0.27	0.93	0.78-1.11	0.42	0.98	0.84-1.16	0.85	1.22	1.03-1.43	0.02
Weight z score (joint modeling)	1.06	0.91-1.23	0.43	1.01	0.83-1.22	0.96	0.98	0.81-1.17	0.79	1.16	0.96-1.40	0.13
Length/height z score (joint modeling)	1.09	0.93-1.27	0.29	1.01	0.83-1.23	0.93	1.02	0.84-1.24	0.82	1.19	0.98-1.45	0.08

<sup>a</sup>Antibodies include insulin autoantibodies (IAA), islet antigen-2, GAD (GADA), and zinc transporter 8 autoantibodies.

HRs adjusted for birth weight z score (for weight z-score models) and birth length z-score (for length/height z-score models), sex, HLA risk, maternal type 1 diabetes status, mode of delivery, and breastfeeding duration and stratified by region of residence. Presented p-values are nominal (uncorrected) p-values, and were considered significant if < 0.005.

ESM Table 2 – The risk of islet autoimmunity (IA) associated with overweight (includes obese) and obesity by age and time-varying model of overweight (includes obese) and obesity and up to 10 years of age using International Obesity Task Force BMI cut-off points (N=2,149)

Age, years	Any IA <sup>a</sup> (n=305)			IAA First Antibody (n=183)			GADA First Antibody (n=189)			Multiple IA * (n=190)		
	HR	95% CI	P value	HR	95% CI	P value	HR	95% CI	P value	HR	95% CI	P value
Overweight (%)												
2	0.92	0.59-1.44	0.73	0.90	0.51-1.60	0.73	0.90	0.53-1.53	0.69	0.93	0.52-1.65	0.80
3	0.84	0.56-1.25	0.39	1.00	0.62-1.61	0.99	1.04	0.66-1.63	0.86	0.76	0.44-1.31	0.32
4	1.22	0.86-1.73	0.27	0.96	0.59-1.55	0.85	1.11	0.72-1.70	0.64	1.28	0.81-2.03	0.30
5	1.02	0.71-1.47	0.90	1.03	0.65-1.62	0.90	1.16	0.79-1.72	0.44	1.45	0.92-2.28	0.11
6	1.15	0.80-1.64	0.45	1.12	0.72-1.74	0.62	1.12	0.76-1.67	0.56	1.54	0.96-2.45	0.07
7	1.01	0.72-1.43	0.95	1.12	0.74-1.70	0.60	1.00	0.68-1.45	0.98	1.31	0.83-2.06	0.25
8	0.94	0.66-1.32	0.71	1.23	0.83-1.82	0.31	1.01	0.69-1.47	0.96	1.13	0.71-1.79	0.62
9	0.92	0.65-1.31	0.64	1.37	0.93-2.02	0.11	0.90	0.61-1.32	0.59	1.11	0.67-1.82	0.68
10	0.75	0.51-1.11	0.15	1.12	0.74-1.70	0.60	0.98	0.67-1.44	0.93	0.85	0.47-1.53	0.59
Obesity (%)												
2	1.24	0.50-3.03	0.64	0.89	0.22-3.61	0.87	1.45	0.53-3.95	0.47	1.67	0.61-4.61	0.32
3	0.97	0.40-2.36	0.94	1.64	0.67-4.04	0.28	1.37	0.56-3.37	0.49	1.01	0.32-3.20	0.99
4	1.68	0.88-3.21	0.12	1.76	0.81-3.81	0.15	1.16	0.51-2.65	0.72	2.18	1.00-4.76	0.05
5	1.20	0.66-2.18	0.55	0.94	0.41-2.15	0.88	0.90	0.43-1.85	0.77	1.56	0.75-3.26	0.24
6	1.27	0.74-2.18	0.38	0.96	0.47-1.99	0.92	1.05	0.56-1.95	0.89	1.58	0.78-3.17	0.20
7	1.33	0.80-2.22	0.27	1.42	0.77-2.63	0.26	1.15	0.66-2.02	0.62	1.25	0.60-2.63	0.55
8	1.20	0.73-1.97	0.48	1.67	0.97-2.88	0.06	1.31	0.78-2.21	0.31	1.38	0.71-2.70	0.35
9	1.26	0.75-2.12	0.38	1.26	0.68-2.34	0.46	1.11	0.63-1.97	0.71	1.35	0.64-2.87	0.43
10	0.99	0.55-1.78	0.98	1.37	0.75-2.50	0.30	1.11	0.63-1.97	0.71	0.96	0.38-2.46	0.94
Overweight up to 10 years	0.99	0.65-1.49	0.94	1.08	0.62-1.88	0.80	0.76	0.46-1.26	0.28	1.21	0.74-1.98	0.45
Obesity up to 10 years	0.67	0.27-1.64	0.38	1.28	0.51-3.21	0.60	0.55	0.20-1.52	0.25	1.96	0.94-4.12	0.07
Overweight (joint modeling)	0.68	0.41-1.12	0.13	0.63	0.32-1.22	0.17	0.81	0.45-1.44	0.47	1.15	0.63-2.10	0.65
Obesity (joint modeling)												

<sup>a</sup>Antibodies include insulin autoantibodies (IAA), islet antigen-2, GAD (GADA), and zinc transporter 8 autoantibodies.

BMI – body mass index.

HRs adjusted for birth weight z score and birth length z score, sex, HLA risk, maternal type 1 diabetes status, mode of delivery, and breastfeeding duration and stratified by region of residence. Presented p-values are nominal (uncorrected) p-values, and were considered significant if < 0.005. Shaded analyses: model failed to converge.

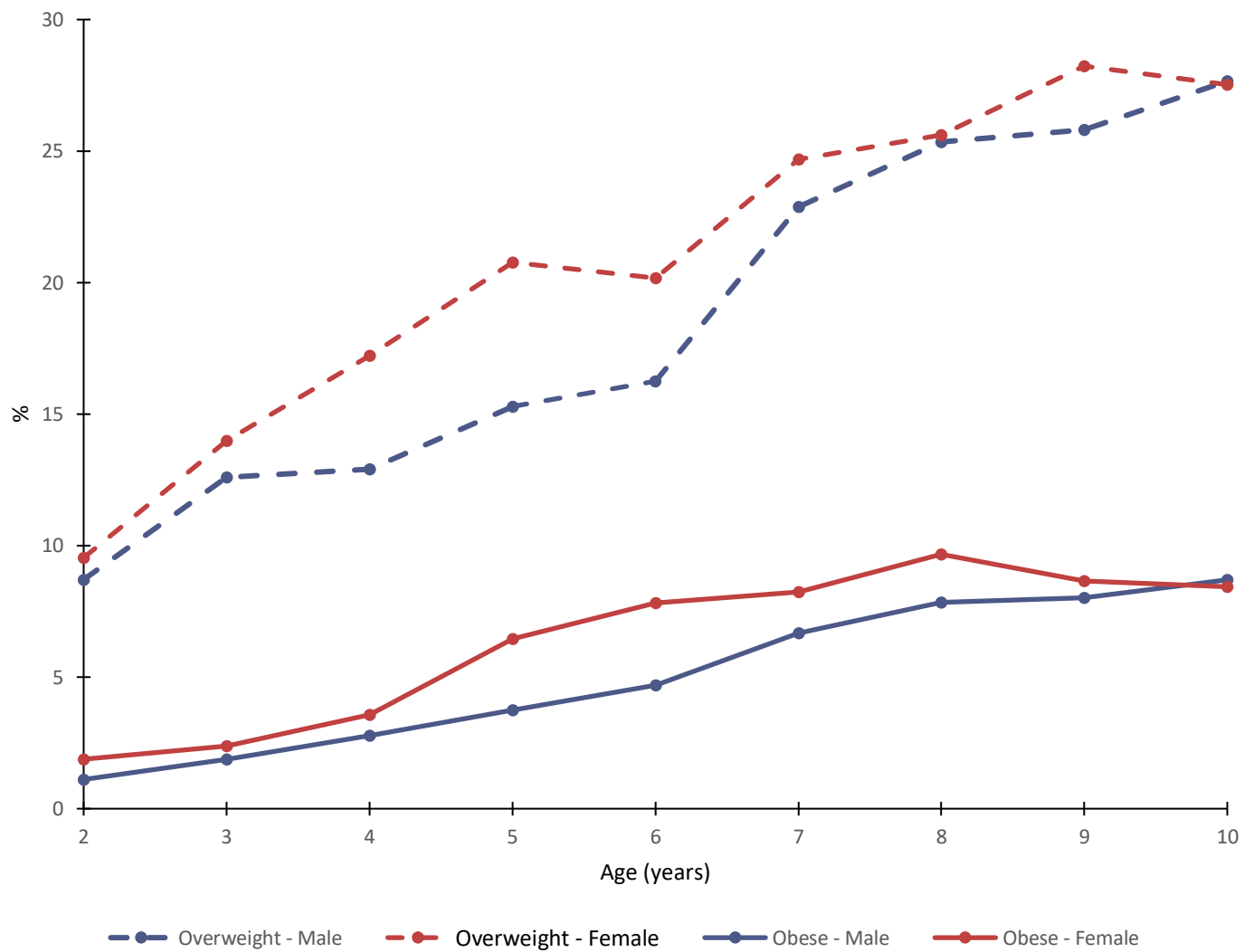
ESM Table 3 – The risk of type 1 diabetes associated with weight and length/height z-scores by age and time-varying model of growth up to 10 years of age in children having first-degree relative/s with type 1 diabetes and increased HLA-conferred risk of type 1 diabetes (N=2,149)

Age, years	From multiple IA <sup>a</sup> to Type 1 Diabetes (n=133)			Type 1 Diabetes (n=172)		
	HR	95% CI	P value	HR	95% CI	P value
Weight (z score)						
1	1.22	0.97-1.53	0.09	1.22	1.03-1.44	0.02
2	1.34	1.06-1.68	0.01	1.25	1.05-1.49	0.01
3	1.48	1.13-1.92	0.004	1.27	1.04-1.55	0.02
4	1.33	1.00-1.77	0.05	1.20	0.96-1.51	0.11
5	1.35	0.99-1.83	0.06	1.23	0.96-1.57	0.10
6	1.57	1.12-2.19	0.009	1.31	1.02-1.69	0.03
7	1.51	1.08-2.10	0.02	1.16	0.89-1.51	0.27
8	1.42	1.01-1.99	0.04	1.23	0.93-1.62	0.15
9	1.79	1.10-2.90	0.02	1.36	0.97-1.90	0.07
10	3.69	1.40-9.69	0.008	1.15	0.76-1.73	0.52
Length/height z score						
1	1.03	0.83-1.28	0.79	1.03	0.86-1.23	0.78
2	1.10	0.85-1.42	0.48	1.19	0.99-1.44	0.06
3	1.10	0.86-1.41	0.46	1.15	0.94-1.41	0.17
4	1.04	0.81-1.35	0.75	1.02	0.82-1.27	0.84
5	0.96	0.72-1.29	0.80	1.07	0.84-1.36	0.58
6	0.92	0.69-1.25	0.61	0.96	0.75-1.23	0.73
7	1.11	0.81-1.54	0.51	1.01	0.77-1.33	0.94
8	1.04	0.72-1.51	0.82	1.10	0.82-1.46	0.52
9	1.38	0.82-2.32	0.22	1.06	0.75-1.48	0.74
10	1.04	0.47-2.26	0.93	0.79	0.51-1.21	0.28
Weight z-score up to 10 years	1.28	1.03-1.60	0.03	1.30	1.06-1.60	0.01
Length/height z score up to 10 years	1.08	0.86-1.35	0.51	1.27	1.03-1.58	0.03
Weight z score (joint modeling)	1.53	1.16-2.03	0.003	1.43	1.20-1.72	<0.001
Length/height z score (joint modeling)	1.32	0.98-1.78	0.07	1.20	0.98-1.45	0.07

<sup>a</sup>Antibodies include insulin autoantibodies, islet antigen-2, GAD, and zinc transporter 8 autoantibodies; the number of children with multiple IA = 190.

IA – islet autoimmunity.

HRs adjusted for birth weight z score and birth length z score, sex, HLA risk, maternal type 1 diabetes status, mode of delivery, and breastfeeding duration and stratified by region of residence. Presented p-values are nominal (uncorrected) p-values, and were considered significant if < 0.005.



ESM Fig 1 – Proportion (%) of overweight (including obese) and obese children aged 2 to 10 years

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<b>Spain</b>	<b>SPA01 - Hospital Universitario Cruces, BioCruces, UPV/EHU, CIBERDEM, CIBERER Bilbao, Spain</b>	Castano Gonzalez Frutos Oyarzabal	Luis Teba Mirentxu	National Investigator Local Coordinator Co-Investigator
	<b>SPA02 - Madrid - Hospital Clinico San Carlos</b>	Serrano-Ríos Martínez-Larrad Hawkins	Manuel María Teresa Federico Gustavo	National Investigator Local Coordinator Co-Investigator
	<b>SPA03 - Madrid - Hospital Gregorio Marañon</b>	Rodriguez Arnau	Dolores	Co-Investigator
<b>Sweden</b>	<b>SWE01 - Linköping - University of Linköping</b>	Ludvigsson Smolinska Konefal	Johnny Malgorzata	National Investigator National Coordinator
	<b>SWE02 - Uddevalla - Uddevalla Hospital</b>	Hanas	Ragnar	Local Investigator

	<b>SWE03 - Göteborg - GothenburgThe Queen Silvia Children's Hospital</b>	Lindblad	Bengt	Local Investigator
	<b>SWE05 - Halmstad - Halmstad Hospital</b>	Nilsson	Nils-Östen	Local Investigator
	<b>SWE06 - Trollhättan - Trollhättan Hospital</b>	Fors	Hans	Local Investigator
	<b>SWE07 - Norrköping - Vrinnevi Hospital</b>	Nordwall	Maria	Local Investigator
	<b>SWE08 - Borås - Borås Hospital</b>	Lindh	Agne	Local Investigator
	<b>SWE09 - Karskrona - Karlskrona Hospital</b>	Edenwall	Hans	Local Investigator
	<b>SWE10 - Örebro - University Hospital</b>	Åman	Jan	Local Investigator
	<b>SWE11 - Jönköping - Ryhovs Hospital</b>	Johansson	Calle	Local Investigator
<b>Switzerland</b>	<b>SWT01 - Zürich - University Children's Hospital</b>	Gadient Konrad Schoenle	Margrit Daniel Eugen	Local Coordinator National Investigator National Investigator
<b>USA</b>	<b>USA01 - Pittsburgh - Children's Hospital of Pittsburgh</b>	Becker	Dorothy	USA National Investigator / Pittsburgh Local Investigator
		Daftary Klein	Ashi Mary Beth	Co-Investigator Pittsburgh Coordinator
		Gilmour	Carol	Co-Investigator
	<b>USA02 - Seattle - VA Puget Sound Health Care</b>	Palmer Malone	Jerry Patty	Local Investigator Coordinator

**System and University of Washington**

<b>USA03 - St. Louis - Washington University</b>	Tanner-Blasiar	Marilyn	Coordinator	
	White	Neil	Local Investigator	
	<b>USA04 - Los Angeles - Mattel Children's Hospital of UCLA</b>	Devaskar	Uday	Local Investigator
		Horowitz	Heather	Coordinator/dietitian
		Rogers	Lisa	Coordinator/dietitian
	<b>USA05 - Ponce - Ponce School of Medicine</b>	Colon	Roxana	Coordinator
Frazer		Teresa	Co-Investigator	
Torres		Jose	Local Investigator	
<b>USA06 - New York - Naomie Berrie Diabetes Center</b>	Goland	Robin	Local Investigator	
	Greenberg	Ellen	Coordinator	
	Schachner	Holly	Co-Investigator	
	Softness	Barney	Co-Investigator	

**Laboratories**

<b>HLA-typing Laboratory - Turku - Finland</b>	Ilonen	Jorma	Head of HLA-typing Laboratory
<b>HLA-typing Laboratory - Pittsburgh - PA - USA</b>	Trucco	Massimo	Head of HLA-typing Laboratory
	Nichol	Lynn	Chief Technician
<b>Cow's Milk Antibody Laboratory - Helsinki - Finland</b>	Savilahti	Erkki	Head of Cow's Milk Antibody Laboratory
<b>Autoantibody Laboratory - Helsinki - Finland</b>	Härkönen	Taina	Co-Investigator
	Knip	Mikael	Head of Antibody Laboratory
<b>T-Cell Laboratory - Helsinki - Finland</b>	Vaarala	Outi	Head of T-cell Laboratory
	Luopajarvi	Kristiina	Co-Investigator

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