

SUPPLEMENTARY DATA

Supplementary Table S1. Type 1 Diabetes TrialNet Study Group

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Wiltshire, J. Krebs, P. Cresswell, H. Faherty, C. Ross; Norfolk, VA- A. Vinik, P. Barlow, M. Bourcier, M.L. Nevoret; North Adelaide, Australia- J. Couper, S. Beresford; Norwich, UK- N. Thalagne, H. Roper, J. Gibbons, J. Hill, S. Balleaut, C. Brennan, J. Ellis-Gage, L. Fear, T. Gray, L. Jones, C. McNerney, L. Pointer, N. Price, K. Few, D. Tomlinson; Nottingham, UK- L. Denvir, J. Drew, T. Randell, P. Mansell, S.A Bell, S. Butler, Y. Hooton, H. Navarra, A. Roper, G. Babington, L. Crate, H. Cripps, A. Ledlie, C. Moulds, R. Norton, B. Petrova, O. Silkstone, C. Smith; Oak Lawn, IL- K. Ghai, M. Murray, V. Viswanathan, M. Henegan, O. Kawadry; Oakland, CA- J.A. Olson, L. Patterson, T. Ahmad, B. Flores; Oklahoma City, OK- D. Domek, S. Domek, K. Copeland, M. George, J. Less, T. Davis, M. Short; Olympia Fields, IL- A. Dwarakanathan, P. O'Donnell; Omaha, NE- B. Boerner, L. Larson, M. Phillips, M. Rendell, K. Larson, C. Smith, K. Zebrowski, L. Kuechenmeister, M. Thevarayapillai; Orange, CA- M. Daniels, H. Speer, N. Forghani, R. Quintana, C. Reh, A. Bhangoo; Orlando, FL- P. Desrosiers, L. Ireland, T. Mislá, C. Torres, S. Wells, J. Villar, M. Yu, D. Berry, D. Cook, J. Soder, A. Powell; Ormskirk, UK- M. Ng, M. Morrison, Z. Haslam; Ottawa, ON- M. Lawson, B.

SUPPLEMENTARY DATA

Bradley, J. Courtney, C. Richardson, C. Watson, E. Keely, D. DeCurtis; Palm Beach Gardens, FL- M. Vaccarcello-Cruz, Z. Torres, K. Sandberg; Pensacola, FL- H. Hsiang, B. Joy, D. McCormick, A. Powell, H. Jones, J. Bell, S. Hargadon, S. Hudson, M. Kummer; Peoria, IL- S. Sauder, E. Sutton, K. Gensel, R. Aguirre-Castaneda, V. Benavides Lopez, D. Hemp, S. Allen, J. Stear; Perth, Australia- E. Davis, T. Jones, A. Roberts, J.A Dart, N. Paramalingam; Philadelphia, PA- L.E. Levitt Katz, N. Chaudhary; K.M. Murphy, S.M. Willi, B. Schwartzman; Phoenix, AZ- C. Kapadia, D. Larson, D. McClellan, G. Shaibai, L.A. Kelley, G. Villa, C. Kelley, R. Diamond, M. Kabbani, T. Dajani, F. Hoekstra, M. Magorno; Pittsburgh, PA- J. Holst, V. Chauhan, N. Wilson, P. Bononi, M. Sperl; Plymouth, UK- A. Millward, M. Eaton, L. Dean; Portland, ME- J. Olshan, H. Renna, C. Milliard; Portland, OR- D. Snyder, S. Beaman, K. Burch, J. Chester, A. Ahmann, B. Wollam, D. DeFrang, R. Fitch, K. Jahnke, K. Hanavan, B. Klopfenstein, L. Nicol, R.W. Bergstrom, T. Noland; Poughkeepsie, NY- J. Brodksy, L. Bacon; Providence, RI- J.B. Quintos, L.S. Topor, S. Bialo, B. Bancroft, A.G. Soto; Raleigh, NC- W. Lagarde, H. Lockemer, T. Vanderploeg; Rancho Cucamonga, CA- M.A Ibrahim, M. Huie, V. Sanchez; Rapid City, SD- R. Edelen, R. Marchiando, J. Palmer, T. Repas, M. Wasson, P. Auken, J. Culbertson, T. Kieffer, D. Voorhees, T. Borgwardt, L. DeRaad; Reno, NV- K. Eckert; Richland, WA- E. Isaacson, H. Kuhn, A. Carroll, M. Schubert; Richmond, VA- G. Francis, S. Hagan, T. Le, M. Penn, E. Wickham; Rio Piedras, PR- C. Leyva, K. Rivera, J. Padilla, I. Rodriguez; Rochester, NY- N. Jospe, J. Czyzyk, B. Johnson; Sacramento, CA- U. Nadgir, N. Marlen, G. Prakasam, C. Rieger, N. Glaser, E.C. Heiser, B. Harris; Salt Lake City, UT C. Foster, H. Slater, K. Wheeler, D.L Donaldson, M. Murray; San Antonio, TX- D.E. Hale, R. Tragus, D.R. Word, J. Lynch, L. Pankratz, W. Rogers; San Diego, CA- R. Newfield, S. Holland, M. Hashiguchi, M. Gottschalk, A. Philis-Tsimikas, R. Rosal, S. Franklin, S.M. Guardado; San Francisco, CA- N. Bohannon, M. Garcia; San Jose, CA- T. Aguinaldo, J. Phan, V. Barraza, D. Cohen; Santa Barbara, CA- J. Pinsker, U. Khan, J. Wiley, L. Jovanovic; Santa Clara, CA- P. Misra, M. Wright, D. Cohen, K. Huang; Scottsbluff, NE- M. Skiles, S. Maxcy; Seattle, WA- C. Pihoker, K. Cochrane, J. Fosse, S. Kearns, M. Klingsheim; Sheffield, UK- N. Wright, L. Viles, H. Smith, S. Heller, M. Cunningham, A. Daniels, L. Zeiden, J. Field, R. Walker; Sioux Falls, SD- K.J. Griffin, L. Bartholow, C. Erickson, J. Howard, B. Krabbenhoft, C. Sandman, A. Vanveldhuizen, J. Wurlger, A. Zimmerman, K. Hanisch, L. Davis-Keppen; South Brisbane, Australia- A. Cotterill, J. Kirby, M. Harris, A. Schmidt; Spokane, WA- C. Kishiyama, C. Flores, J. Milton, W. Martin, C. Whysham, A. Yerka, T. Freels, J.M. Hassing, J. Webster; Springfield, IL- R. Green, P. Carter, J. Galloway, D. Hoelzer, S. Roberts, S. Said, P. Sullivan; Springfield, MA- H.F. Allen, E. Reiter, E. Feinberg, C. Johnson; St. John's, NL- L.A. Newhook, D. Hagerty; St. Louis, MO- N.H. White, L. Levandoski; St. Paul, MN- J. Kylo, M. Johnson, C. Benoit; St. Petersburg, FL- P. Iyer, F. Diamond, H. Hosono, S. Jackman, L. Barette, P. Jones; Syracuse, NY- I. Sills, S. Bzdick, J. Bulger, R. Weinstock; Taunton, UK- I. Douek, R. Andrews, G. Modgill, G. Gyorffy, L. Robin, N. Vaidya, S. Crouch, K. O'Brien, C. Thompson, N. Thorne; Toledo, OH- J. Blumer, J. Kalic, L. Klepek, J. Paulett, B. Rosolowski, J. Horner, M. Watkins; Topeka, KS- J.L Casey, K. Carpenter, C. Burns, J. Horton, C. Pritchard, D. Soetaert, A.G. Wynne; Torrance, CA- K. Kaiserman, M. Halvorson; Tucson, AZ- C. Chin, O.Y. Molina, C. Patel, R. Senguttuvan, M. Wheeler, O. Furet, C. Steuhm; Tulsa, OK- D.H Jolley, S. Goudeau, L. Chalmers, D. Greer; Vancouver, B.C- C. Panagiotopoulos, D.L. Metzger, D. Nguyen, M. Horowitz; Walnut Creek, CA- M.P. Christiansen, E. Glades, C. Morimoto, M. Macarewich, R. Norman, K. Patin, C. Vargas, A. Barbanica, A. Yu; Washington D.C- P. Vaidyanathan, W. Osborne, R. Mehra; Wenatchee, WA- S. Kaster, S. Neace, J. Horner; Wilmington, DE- G. Reeves, C. Cordrey, L. Marrs, T. Miller, S. Dowshen, D. Doyle; Winnipeg, Manitoba- S. Walker, D. Catte, H. Dean; Winston-Salem, NC- M. Drury-Brown, B. Hackman; Worcester, MA- M.M.C Lee, S. Malkani, K. Cullen, K. Johnson; Yuma, AZ- P. Hampton, M. McCarrell, C. Curtis, E. Paul, Y. Zambrano.

SUPPLEMENTARY DATA

Supplementary Table S2. List of SNPs in the T1D GRS and their weights. The 10 first SNPs are included in the T1D GRS-10.

SNP	Gene	Odds Ratio	Weight	Effect Allele
rs2187668, rs7454108	DR3/DR4-DQ8	48.18	3.87	
	DR3/DR3	21.12	3.05	
	DR4-DQ8/DR4-DQ8	21.98	3.09	
	DR4-DQ8/X	7.03	1.95	
	DR3/X	4.53	1.51	
rs1264813	HLA_A_24	1.54	0.43	T
rs2395029	HLA_B_5701	2.5	0.92	T
rs3129889	HLA_DRB1_15	14.88	2.70	A
rs2476601	PTPN22	1.96	0.67	A
rs689	INS	1.75	0.56	T
rs12722495	IL2RA	1.58	0.46	T
rs2292239	ERBB3	1.35	0.30	T
rs10509540	C10orf59	1.33	0.29	T
rs4948088	COBL	1.3	0.26	C
rs7202877		1.28	0.25	G
rs12708716	CLEC16A	1.23	0.21	A
rs3087243	CTLA4	1.22	0.20	G
rs1893217	PTPN2	1.2	0.18	G
rs11594656	IL2RA	1.19	0.17	T
rs3024505	IL10	1.19	0.17	G
rs9388489	C6orf173	1.17	0.16	G
rs1465788		1.16	0.15	C
rs1990760	IFIH1	1.16	0.15	T
rs3825932	CTSH	1.16	0.15	C
rs425105		1.16	0.15	T
rs763361	CD226	1.16	0.15	T
rs4788084	IL27	1.16	0.15	C
rs17574546		1.14	0.13	C
rs11755527	BACH2	1.13	0.12	G
rs3788013	UBASH3A	1.13	0.12	A
rs2069762	IL2	1.12	0.11	A
rs2281808		1.11	0.10	C
rs5753037		1.1	0.10	T

Supplementary Table S3. Definitions

Time to clinical T1D: Time from the initial autoantibody determination to T1D diagnosis or last visit for those who had not progressed to T1D.

Persistent single autoantibody positivity (SA+): Having two consecutive autoantibody evaluations that were positive for the same autoantibody (to GAD65, insulin or IA-2A) within one year.

Time to progression to multiple autoantibody positivity (MA+): Time from being identified as SA+ (i.e. the first of the two autoantibody determinations that were positive) to the date when the subject was identified as having MA+ (i.e. ≥ 2 positive autoantibodies). Those who were still SA+ at the last autoantibody evaluation were censored at their last autoantibody determination.

SUPPLEMENTARY DATA

Supplementary Table S4. Baseline characteristics of study participants (n=1,244)

<i>Age when first identified as autoantibody positive: Years</i>	
Median	11.1
Mean	16.0
Range	1.2 to 51.8
SD	12.77
Missing	1
<i>Sex: n (%)</i>	
Female	648 (52.1%)
Male	592 (47.6%)
Missing	4 (0.3%)
<i>Race: n (%)</i>	
White	1,099 (88.3%)
Black/African-American	30 (2.4%)
Asian/Pacific Islander	30 (2.4%)
American Indian/Alaskan Native	15 (1.2%)
Multiracial	26 (2.1%)
Unknown/refused/missing	72 (5.8%)
<i>Ethnicity: n (%)</i>	
Hispanic or Latino	111 (8.9%)
Not Hispanic or Latino	1,089 (87.5%)
Unknown/refused/missing	44 (3.5%)
<i>Autoantibody number when first identified as positive: n (%)</i>	
Single positive autoantibody	291 (23.4%)
Multiple positive autoantibodies	953 (76.6%)
<i>DPTRS</i>	
Median	6.6
Range	1.8 to 24.4
Missing	110

Abbreviations: DPTRS: Diabetes Prevention Trial Risk Score. Ab+: autoantibody-positive

SUPPLEMENTARY DATA

Supplementary Table S5. Univariate and multivariable results for various risk factors in models for time to progression to T1D in all at-risk Aab+ relatives of T1D probands.

Factors	<i>Univariate models</i>		<i>Multivariable model</i>		<i>Best Multivariable model</i>	
	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
T1D GRS*	1.70 (1.43-2.02)	<0.0001	1.29 (1.06-1.57)	0.011	1.29 (1.06-1.56)	0.009
Age at Aab+ determination	0.974 (0.966-0.982)	<0.0001	1.01 (1.004-1.02)	0.008	1.01 (1.003-1.02)	0.008
DPT-1 Risk Score	2.06 (1.95-2.18)	<0.0001	2.07 (1.94-2.20)	<0.0001	2.08 (1.96-2.21)	<0.0001
Multiple Aab+	3.28 (2.47-4.34)	<0.0001	2.49 (1.83-3.4)	<0.0001	2.62 (1.92-3.57)	<0.0001
HLA DR3/DR4	1.57 (1.24-1.98)	0.0002	--	--	--	--
Male	1.12 (0.93-1.34)	0.23	0.98 (0.81-1.20)	0.87	--	--
Hispanic (vs. non-Hispanic)	1.17 (0.85-1.60)	0.34	1.07 (0.76-1.52)	0.70	--	--

*HR corresponding to an increase in GRS by 0.05. Abbreviations: Aab+: Islet autoantibody positive, DPTRS: Diabetes Prevention Trial Risk Score, T1D GRS: Type 1 diabetes genetic risk score

SUPPLEMENTARY DATA

Supplementary Table S5A.

Factors	Univariate models		Multivariable model		Best Multivariable model	
	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
T1D GRS ≥ 0.250	1.95 (1.49-2.55)	<0.0001	1.41 (1.06-1.88)	0.017	1.45 (1.09-1.92)	0.01
Age at Aab+ determination	0.974 (0.966- 0.982)	<0.0001	1.01 (0.997-1.02)	0.014	1.01 (1.002-1.02)	0.015
DPT-1 Risk Score	2.06 (1.95-2.18)	<0.0001	2.07 (1.6-2.2)	<0.0001	2.07 (1.95-2.2)	<0.0001
Multiple Aab+	3.28 (2.47-4.34)	<0.0001	2.56 (2.1-3.5)	<0.0001	2.69 (1.97-3.66)	<0.0001
HLA DR3/DR4	1.57 (1.24-1.98)	0.0002	--	--	--	--
Male	1.12 (0.93-1.34)	0.23	0.985 (0.79-1.2)	0.88	--	--
Hispanic (vs. non- Hispanic)	1.17 (0.85-1.60)	0.34	1.04 (0.58-1.47)	0.83	--	--

SUPPLEMENTARY DATA

Supplementary Table S5B. Univariate and multivariable results for various risk factors in models for time to progression to T1D at-risk Aab+ relatives of T1D probands *with baseline DPT-1 Risk Score ≤ 7.0*.

Factors	<i>Univariate models</i>		<i>Multivariable model</i>		<i>Best Multivariable model</i>	
	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
T1D GRS*	1.94 (1.41-2.69)	<0.0001	1.66 (1.18-2.34)	0.003	1.68 (1.21-2.34)	0.002
Age at Aab+ determination	0.98 (0.97-0.997)	0.016	1.01 (0.997-1.03)	0.12	1.01 (0.996-1.03)	0.14
DPT-1 Risk Score	2.12 (1.63-2.74)	<0.0001	2.16 (1.6-2.92)	<0.0001	2.08 (1.96-2.21)	<0.0001
Multiple Aab+	4.18 (2.52-6.96)	<0.0001	3.51 (2.1-5.88)	<0.0001	2.62 (1.92-3.57)	<0.0001
HLA DR3/DR4	1.54 (0.97-2.46)	0.068	--	--	--	--
Male	1.27 (0.9-1.79)	0.17	1.13 (0.79-1.62)	0.50	--	--
Hispanic (vs. non-Hispanic)	1.04 (0.55-1.99)	0.90	1.11 (0.58-2.13)	0.76	--	--

*HR corresponding to an increase in GRS by 0.05. Abbreviations: Aab+: Islet autoantibody positive, DPTRS: Diabetes Prevention Trial Risk Score, T1D GRS: Type 1 diabetes genetic risk score

SUPPLEMENTARY DATA

Factors	<i>Univariate models</i>		<i>Multivariable model</i>		<i>Best Multivariable model</i>	
	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
T1D GRS ≥ 0.250	2.66 (1.55-4.55)	0.0004	2.11 (1.23-3.62)	0.007	2.20	0.004
Age at Aab+ determination	0.98 (0.97-0.997)	0.016	1.01 (0.99-1.03)	0.23	1.009 (0.99-1.02)	0.27
DPT-1 Risk Score	2.12 (1.63-2.74)	<0.0001	2.08 (1.55-2.80)	<0.0001	2.19 (1.64-2.92)	<0.0001
Multiple Aab+	4.18 (2.52-6.96)	<0.0001	3.63 (2.17-6.07)	<0.0001	3.87 (2.33-6.44)	<0.0001
HLA DR3/DR4	1.54 (0.97-2.46)	0.068	--	--	--	--
Male	1.27 (0.9-1.79)	0.17	1.12 (0.78-1.6)	0.53	--	--
Hispanic (vs. non-Hispanic)	1.04 (0.55-1.99)	0.90	1.07 (0.56-2.05)	0.84	--	--

SUPPLEMENTARY DATA

Supplementary Table S6. Univariate and multivariable results for various risk factors in models for time to progression to T1D in multiple Aab+ relatives of T1D probands.

Factors	<i>Univariate models</i>		<i>Multivariable model</i>		<i>Best Multivariable model</i>	
	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
T1D GRS*	1.59 (1.33-1.89)	<0.0001	1.26 (1.02-1.59)	0.021	1.27 (1.05-1.54)	0.015
Age at multiple Aab+ determination	0.97 (0.96-0.98)	<0.0001	1.01 (0.998-1.02)	0.10	1.01 (0.998-1.02)	0.12
DPT-1 Risk Score	2.03 (1.91-2.15)	<0.0001	2.03 (1.91-2.16)	<0.0001	2.04 (1.92-2.18)	<0.0001
HLA DR3/DR4	1.39 (1.1-1.77)	0.0065	--	--	--	--
Male	1.15 (0.95-1.38)	0.15	1.004 (0.82-1.23)	0.97	--	--
Hispanic (vs. non-Hispanic)	1.25 (0.9-1.73)	0.18	1.08 (0.75-1.54)	0.69	--	--

*HR corresponding to an increase in GRS by 0.05. Abbreviations: Aab+: Islet autoantibody positive, DPTRS: Diabetes Prevention Trial Risk Score, T1D GRS: Type 1 diabetes genetic risk score

SUPPLEMENTARY DATA

Supplementary Table S6A.

Factors	<i>Univariate models</i>		<i>Multivariable model</i>		<i>Best Multivariable model</i>	
	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
T1D GRS ≥ 0.250	1.89 (1.43-2.50)	<0.0001	1.38 (1.03-1.84)	0.032	1.42 (1.07-1.90)	0.017
Age at multiple Aab+ determination	0.97 (0.96-0.98)	<0.0001	1.01 (0.998-1.02)	0.14	1.007 (0.997-1.02)	0.16
DPT-1 Risk Score	2.03 (1.91-2.15)	<0.0001	2.03 (1.91-2.17)	<0.0001	2.05 (1.92-2.18)	<0.0001
HLA DR3/DR4	1.39 (1.1-1.77)	0.0065	--	--	--	--
Male	1.15 (0.95-1.38)	0.15	1.008 (0.82-1.23)	0.94	--	--
Hispanic (vs. non-Hispanic)	1.25 (0.9-1.73)	0.18	1.04 (0.73-1.49)	0.81	--	--

SUPPLEMENTARY DATA

Supplementary Table S6B. Univariate and multivariable results for various risk factors in models for time to progression to T1D in multiple Aab+ relatives of T1D probands *with baseline DPT-1 Risk Score ≤ 7.0*.

Factors	<i>Univariate models</i>		<i>Multivariable model</i>		<i>“Best” Multivariable model</i>	
	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
T1D GRS*	1.73 (1.25-2.38)	0.0008	1.59 (1.13-2.22)	0.007	1.63 (1.17-2.26)	0.004
Age at multiple Aab+ determination	0.98 (0.97-0.99)	0.004	1.01 (0.99-1.025)	0.31	1.008 (0.99-1.02)	0.36
DPT-1 Risk Score	2.16 (1.66-2.82)	<0.0001	2.16 (1.58-2.95)	<0.0001	2.26 (1.67-3.07)	<0.0001
HLA DR3/DR4	1.32 (0.83-2.11)	0.25	--	--	--	--
Male	1.32 (0.93-1.87)	0.12	1.10 (0.76-1.58)	0.61	--	--
Hispanic (vs. non-Hispanic)	1.23 (0.64-2.36)	0.54	1.19 (0.62-2.31)	0.60	--	--

*HR corresponding to an increase in GRS by 0.05. Abbreviations: Aab+: Islet autoantibody positive, DPTRS: Diabetes Prevention Trial Risk Score, T1D GRS: Type 1 diabetes genetic risk score

SUPPLEMENTARY DATA

Factors	Univariate models		Multivariable model		“Best” Multivariable model	
	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
T1D GRS ≥ 0.250	2.39 (1.39-4.09)	0.0015	1.94 (1.12-3.34)	0.017	2.07 (1.21-3.55)	0.008
Age at multiple Aab+ determination	0.98 (0.97-0.99)	0.004	1.007 (0.99-1.02)	0.44	1.006 (0.99-1.02)	0.49
DPT-1 Risk Score	2.16 (1.66-2.82)	<0.0001	2.09 (1.54-2.85)	<0.0001	2.20 (1.62-2.97)	<0.0001
HLA DR3/DR4	1.32 (0.83-2.11)	0.25	--	--	--	--
Male	1.32 (0.93-1.87)	0.12	1.09 (0.76-1.57)	0.64	--	--
Hispanic (vs. non-Hispanic)	1.23 (0.64-2.36)	0.54	1.15 (0.6-2.23)	0.67	--	--

SUPPLEMENTARY DATA

Supplementary Table S7. Univariate and multivariable results for various risk factors in models for time to progression to multiple positive autoantibodies in initially non-diabetic, single autoantibody positive relatives of T1D probands.

Factors	<i>Univariate models</i>		<i>Multivariable model</i>	
	HR (95% CI)	p-value	HR (95% CI)	p-value
T1D GRS*	1.43 (1.05-1.95)	0.024	1.49 (1.08-2.05)	0.015
Age at single Aab+ determination	0.995 (0.98-1.006)	0.4	0.994 (0.98-1.005)	0.29
IAA+ (vs. not)	0.78 (0.55-1.12)	0.18	0.78 (0.54-1.13)	0.19
HLA DR3/DR4	2.3 (1.37-3.86)	0.002	--	--
Male	1.09 (0.8-1.49)	0.58	1.10 (0.79-1.52)	0.57
Hispanic (vs. non-Hispanic)	0.93 (0.54-1.61)	0.8	0.98 (0.56-1.70)	0.93

*HR corresponding to an increase in GRS by 0.05. Abbreviations: Aab+: Islet autoantibody positive, DPTRS: Diabetes Prevention Trial Risk Score, T1D GRS: Type 1 diabetes genetic risk score

SUPPLEMENTARY DATA

Factors	<i>Univariate models</i>		<i>Multivariable model</i>		<i>“Best” Multivariable model</i>	
	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
T1D GRS ≥ 0.295	2.18 (1.42-3.34)	0.0004	2.27 (1.47-3.51)	0.0002	2.25 (1.46-3.45)	0.00023
Age at single Aab+ determination	0.995 (0.98-1.006)	0.4	0.995 (0.98-1.006)	0.37	--	--
IAA+ (vs. not)	0.78 (0.55-1.12)	0.18	0.75 (0.52-1.08)	0.12	0.75 (0.53-1.08)	0.12
HLA DR3/DR4	2.3 (1.37-3.86)	0.002	--	--	--	--
Male	1.09 (0.8-1.49)	0.58	1.12 (0.81-1.55)	0.50	--	--
Hispanic (vs. non-Hispanic)	0.93 (0.54-1.61)	0.8	0.90 (0.52-1.56)	0.71	--	--

SUPPLEMENTARY DATA

Supplementary Figure S1. Time to type 1 diabetes in initially non-diabetic, autoantibody positive relatives of patients, by DPTRS (≤ 7 vs. >7), number of positive autoantibodies (Ab) and T1DGRS (<0.25 vs. ≥ 0.25). Abbreviations: Ab: Autoantibody. DPTRS: Diabetes Prevention Trial Risk Score. T1D: Type 1 diabetes. GRS: Genetic risk score

