

SUPPLEMENTARY DATA

Supplementary Table 1. Distribution and association of factors related to autoimmune reversion by number of autoantibodies previously expressed at any time point during the follow-up

	Single, GADA			Single, IAA			Single, IA2A	Two Abs*	Three Abs*
	Total N (% Revert)	Months to Reversion (median)	Multivariate HR (95%CI) (* p<0.05)	Total N (% Revert)	Months to Reversion (median)	Multivariate HR (95%CI) (* p<0.05)	Total N (% Revert)	Total N (% Both Reverted)	Total N (% All Reverted)
Overall	45/242 (18.6)	8.8		72/245 (29.4)	10.1		1/13 (7.7)	4/338 (1.2)	1/210 (0.5)
HLA-DR genotype									
DR3/4	17/122 (13.9)	8.8	ref	29/124 (23.4)	9.9	ref	0/4 (0)	2/198 (0.1)	1/121 (0.8)
DR4/4	10/39 (25.6)	6.0	1.52 (0.67 - 3.48)	13/42 (31.0)	6.5	1.62 (0.77 - 3.40)	1/4 (25.0)	0/54 (0)	0/46 (0)
DR4/8	7/24 (29.2)	12.0	1.52 (0.60 - 3.84)	17/52 (32.7)	13.3	1.05 (0.55 - 2.01)	0/3 (0)	2/45 (4.0)	0/27 (0)
DR3/3	10/54 (18.5)	8.4	1.15 (0.51 - 2.63)	9/14 (64.3)	11.8	2.67 (1.14 - 6.24)	0/1 (0)	0/25 (0)	0/6 (0)
FDR specific**	1/3 (1.0)	14.6	3.04 (0.26 - 36.2)	4/13 (30.8)	12.3	3.39 (0.87 - 13.2)	0/1 (0)	0/16 (0)	0/10 (0)
First Degree Relative									
No	41/196 (20.9)	8.8	ref	61/191 (31.9)	10.0	ref	1/10 (10.0)	4/256 (1.6)	1/160 (0)
Yes	4/46 (8.7)	11.8	0.55 (0.16 - 1.92)	11/54 (20.4)	11.8	0.63 (0.28 - 1.41)	0/3 (0)	0/82 (0)	0/50 (0)
Country of Residence									
US	18/95 (18.9)	11.4	ref	21/69 (30.4)	8.6	ref	0/3 (0)	1/109 (0.9)	0/68 (0)
Finland	7/47 (14.9)	12.0	1.87 (0.66 - 5.30)	21/79 (26.6)	9.3	0.81 (0.40 - 1.62)	1/2 (50.0)	1/91 (1.1)	0/63 (0)
Germany	1/10 (10.0)	12.0	0.69 (0.09 - 5.51)	4/18 (22.2)	18.8	1.33 (0.37 - 4.74)	0/2 (0)	0/27 (0)	0/13 (0)
Sweden	19/90 (21.1)	6.0	1.42 (0.69 - 2.92)	26/79 (32.9)	12.9	0.82 (0.44 - 1.53)	0/6 (0)	2/111 (1.8)	1/66 (0)
Gender									
Male	22/132 (16.7)	7.5	ref	39/142 (27.5)	9.3	ref	1/11 (9.1)	1/194 (0.5)	1/123 (0)
Female	23/110 (20.9)	9.4	1.45 (0.76 - 2.74)	33/103 (32.0)	11.6	0.83 (0.47 - 1.46)	0/2 (0)	3/144 (2.1)	0/87 (0)
Age at Seroconversion (months)									
≤12	10/20 (50.0)	6.7	ref	18/71 (25.4)	9.5	ref	0.0 (0)	0(0)	0(0)
>12 and ≤24	10/44 (22.7)	11.6	0.51 (0.20 - 1.31)	21/76 (27.6)	12.1	0.82 (0.40 - 1.69)	1/1 (100)	0/97 (0)	1/42 (2.4)
>24 and ≤48	19/88 (21.6)	8.8	0.24 (0.10 - 0.59)*	25/70 (35.7)	9.6	0.68 (0.35 - 1.34)	0/4 (0)	3/134 (2.2)	0/95 (0)
>48	6/90 (6.0)	10.7	0.07 (0.02 - 0.21)*	8/28 (28.6)	8.4	0.60 (0.24 - 1.48)	0/8 (0)	1/107 (0.9)	0/73 (0)
Ab level at baseline (SD)								GADA: IAA: IA2A	GADA: IAA: IA2A
positive (0 - <1 SD)	35/170 (20.6)	9.0	ref	45/162 (27.8)	10.0	ref	1/9 (11.1)	2/157: 2/222: 1/51	1/119: 1/156: 0/94
positive (≥1 to 3 SD)	9/49 (18.4)	6.2	0.44 (0.19 - 1.00)	18/55 (32.7)	11.8	0.70 (0.38 - 1.29)	0/2 (0)	0/72: 0/46: 0/27	0/60: 0/34: 1/60
positive (≥3 SD)	1/23 (4.3)	5.5	0.14 (0.02 - 1.07)	9/28 (32.1)	9.3	0.32 (0.13 - 0.79)*	0/2 (0)	0/47: 0/25: 1/30	0/31: 0/20: 0/56
Ab level from baseline to persistent sample									
Decrease	30/71 (42.3)	6.7	ref	41/83 (49.4)	7.8	ref	0/1 (0)	0/60: 4/89: 2/28	0/52: 0/52: 0/32
Increase	15/171 (8.8)	10.1	0.18 (0.09 - 0.35)*	31/162 (19.1)	12.1	0.32 (0.19 - 0.56)*	1/12 (8.3)	2/215: 0/202: 0/80	1/158: 1/158: 1/174

*Not mutually exclusive – children with two Abs who later developed a third are included in three Absoverall total N.

**First degree relative (FDR) Specific HLA-DR includes DR3/9, DR4/1, DR4/4b, DR4/9, and DR4/13 (8).

Ab=autoantibody

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