

Table S4. Risk of JIA overall and by subgroups in patients diagnosed with celiac disease at age <18 years and sibling comparators

Group	N (%)		N events (%)		Incidence rate (95% CI) per 10,000 PY		HR* (95%CI)	HR** (95%CI)
	Celiac disease	Siblings	Celiac disease	Siblings	Celiac disease	Siblings		
Overall	6 703 (100%)	9 089 (100%)	29 (0.4%)	19 (0.2%)	5.9 (3.7-8.0)	3.0 (1.6-4.3)	1.94 (0.98-3.83)	1.87 (0.91-3.82)
Follow-up								
0-<1y	6 703 (100%)	9 089 (100%)	4 (0.1%)	2 (0.0%)	6.1 (0.1-12.0)	2.3 (0.0-5.4)	6.25 (0.33-118.50)	4.25 (0.16-109.89)
1-<5y	6 463 (96.4%)	8 551 (94.1%)	16 (0.2%)	10 (0.1%)	6.9 (3.5-10.2)	3.3 (1.3-5.4)	2.49 (0.96-6.47)	3.18 (1.12-9.02)
5-<10y	4 793 (71.5%)	6 126 (67.4%)	8 (0.2%)	6 (0.1%)	5.1 (1.6-8.7)	3.0 (0.6-5.4)	0.91 (0.23-3.65)	0.90 (0.22-3.64)
≥10y	1 617 (24.1%)	2 063 (22.7%)	1 (0.1%)	1 (0.0%)	2.5 (0.0-7.4)	2.2 (0.0-6.4)	-	-
≥1y	6 463 (96.4%)	8 551 (94.1%)	25 (0.4%)	17 (0.2%)	5.8 (3.5-8.1)	3.1 (1.6-4.6)	1.69 (0.81-3.55)	1.82 (0.85-3.91)
Sex								
Females	4 262 (63.6%)	4 379 (48.2%)	23 (0.5%)	8 (0.2%)	7.3 (4.3-10.3)	2.7 (0.8-4.5)	6.73 (1.25-36.29)	12.78 (1.57-104.26)
Males	2 441 (36.4%)	4 710 (51.8%)	6 (0.2%)	11 (0.2%)	3.3 (0.7-6.0)	3.3 (1.3-5.2)	0.89 (0.18-4.35)	0.66 (0.12-3.78)
Age								
<5y	1 862 (27.8%)	2 473 (27.2%)	8 (0.4%)	5 (0.2%)	4.1 (1.2-6.9)	2.1 (0.3-4.0)	-	-
5y - <10y	2 180 (32.5%)	2 999 (33.0%)	12 (0.6%)	8 (0.3%)	6.6 (2.9-10.3)	3.2 (1.0-5.5)	0.66 (0.08-5.44)	1.07 (0.06-18.24)
10y - <15y	1 951 (29.1%)	2 550 (28.1%)	7 (0.4%)	6 (0.2%)	6.7 (1.7-11.6)	4.5 (0.9-8.2)	1.77 (0.01-296.90)	0.50 (0.00-256.98)
15y - <18y	710 (10.6%)	1 067 (11.7%)	2 (0.3%)	0	17.9 (0.0-42.7)	0	-	-
Year								
2004-2009	3 537 (52.8%)	4 770 (52.5%)	18 (0.5%)	12 (0.3%)	5.9 (3.2-8.6)	3.1 (1.4-4.9)	1.62 (0.69-3.77)	1.61 (0.65-4.03)
2010-2017	3 166 (47.2%)	4 319 (47.5%)	11 (0.3%)	7 (0.2%)	5.8 (2.4-9.3)	2.8 (0.7-4.9)	5.97 (0.84-42.70)	7.06 (0.98-50.67)
Year – First 5 years of follow-up								
2004-2009	3 537 (52.8%)	4 770 (52.5%)	10 (0.3%)	7 (0.1%)	6.3 (2.4-10.2)	3.4 (0.9-6.0)	2.76 (0.81-9.45)	2.51 (0.66-9.54)
2010-201	2 638 (39.4%)	3 588 (39.5%)	8 (0.3%)	5 (0.1%)	6.7 (2.1-11.4)	3.2 (0.4-5.9)	4.33 (0.63-29.50)	5.17 (0.70-37.89)
Country of birth								
Nordic	6 570 (98.0%)	8 791 (96.7%)	29 (0.4%)	19 (0.2%)	6.0 (3.8-8.1)	3.1 (1.7-4.5)	1.94 (0.98-3.83)	1.87 (0.91-3.82)
Other	132 (2.0%)	297 (3.3%)	0	0	0	0	-	-

*Conditioned on matching set (family) and adjusted for age and sex;

**Conditioned on matching set and further adjusted for age, sex, Nordic country of birth, and time dependent medical comorbidities (Type 1 diabetes, Autoimmune thyroid disease, Inflammatory bowel disease, and Systemic lupus erythematosus)