

Supplemental Table 2. Number of events, total risk time, incidence rate (IR) per 10,000 person-years and hazard ratios (HR) with 95% confidence intervals (CI) of the examined outcomes in mothers of children with atopic dermatitis (AD) compared with mothers of non-AD children.

	Risk time	Events	IR	95% CI	Crude model			Model 1			Model 2		
					HR	95% CI	p	aHR	95% CI	p	faHR	95% CI	p
Depression													
Mother of non-AD child	615,433	682	11.08	(11.72-17.48)	ref								
Mother of AD child	67,074	96	14.31	(10.28-11.95)	1.31	(1.06-1.63)	0.013	1.29	(1.03-1.60)	0.025	1.20	(0.95-1.51) 0.131	
Anxiety													
Mother of non-AD child	615,493	517	8.40	(7.71-9.16)	ref								
Mother of AD child	67,129	71	10.58	(8.38-13.35)	1.26	(0.98-1.62)	0.067	1.24	(0.96-1.59)	0.103	1.19	(0.90-1.55) 0.219	
Adjustment disorder													
Mother of non-AD child	617,769	614	9.94	(9.18-10.76)	ref								
Mother of AD child	67,274	95	14.12	(11.54-17.27)	1.43	(1.15-1.78)	0.001	1.37	(1.10-1.71)	0.006	1.29	(1.02-1.64) 0.033	
Substance abuse													
Mother of non-AD child	616,875	400	6.48	(5.88-7.15)	ref								
Mother of AD child	67,362	50	7.42	(5.63-9.79)	1.13	(0.84-1.51)	0.428	1.14	(0.84-1.54)	0.396	1.10	(0.80-1.52) 0.543	
Self-harming behavior													
Mother of non-AD child	621,382	49	0.79	(0.60-1.04)	ref								
Mother of AD child	67,744	4	0.59	(0.22-1.57)	0.76	(0.27-2.10)	0.592	0.90	(0.32-2.55)	0.837	0.74	(0.25-2.18) 0.581	
Suicide													
Mother of non-AD child	621,674	17	0.27	(0.17-0.44)	ref								
Mother of AD child	67,761	3	0.44	(0.14-1.37)	1.59	(0.46-5.42)	0.462	1.49	(0.39-5.69)	0.556	1.78	(0.39-8.15) 0.458	
Antidepressants													
Mother of non-AD child	487,368	9678	198.58	(194.66-202.57)	ref								
Mother of AD child	54,566	1270	232.74	(220.29-245.90)	1.17	(1.10-1.24)	0.000	1.14	(1.08-1.22)	0.000	1.05	(0.98-1.12) 0.154	
Antidepressants for depression													
Mother of non-AD child	532,419	7845	147.35	(144.12-150.64)	ref								
Mother of AD child	59,101	934	158.03	(148.22-168.50)	1.07	(1.00-1.14)	0.066	1.03	(0.96-1.11)	0.372	0.95	(0.89-1.03) 0.220	
Antidepressants for anxiety													
Mother of non-AD child	596,768	2963	49.65	(47.89-51.47)	ref								
Mother of AD child	65,065	380	58.40	(52.82-64.58)	1.17	(1.05-1.30)	0.004	1.16	(1.04-1.29)	0.008	1.06	(0.95-1.19) 0.292	
Anxiolytics													
Mother of non-AD child	556,217	5014	90.14	(87.68-92.67)	ref								
Mother of AD child	60,658	667	109.96	(101.93-118.63)	1.22	(1.12-1.32)	0.000	1.20	(1.11-1.31)	0.000	1.12	(1.03-1.23) 0.009	
Anxiolytics for anxiety/calming													
Mother of non-AD child	589,227	3977	67.50	(65.43-69.63)	ref								
Mother of AD child	64,161	487	75.90	(69.45-82.95)	1.13	(1.03-1.24)	0.011	1.13	(1.02-1.24)	0.015	1.05	(0.95-1.16) 0.373	
Psychiatrist consultation													
Mother of non-AD child	595,550	2814	47.25	(49.75-61.19)	ref								
Mother of AD child	65,063	359	55.18	(45.54-49.03)	1.15	(1.03-1.29)	0.011	1.10	(0.98-1.23)	0.106	1.02	(0.90-1.15) 0.774	
Psychologist consultation													
Mother of non-AD child	528,355	8848	167.46	(164.01-170.99)	ref								

Mother of AD child	58,281	1137	195.09 (184.07-206.76)	1.15 (1.09-1.23)	0.000	1.14 (1.07-1.21)	0.000	1.07 (1.00-1.14)	0.050
Migraine									
Mother of non-AD child	614,479	1024	16.66 (15.67-17.72)	ref					
Mother of AD child	66,921	140	20.92 (17.73-24.69)	1.26 (1.05-1.50)	0.011	1.19 (0.99-1.43)	0.060	1.09 (0.90-1.32)	0.392
Other headache syndromes									
Mother of non-AD child	616,255	760	12.33 (11.49-13.24)	ref					
Mother of AD child	67,044	116	17.30 (14.42-20.76)	1.40 (1.15-1.70)	0.001	1.35 (1.10-1.65)	0.003	1.25 (1.01-1.55)	0.042
Fibromyalgia									
Mother of non-AD child	620,972	165	2.66 (2.28-3.10)	ref					
Mother of AD child	67,646	26	3.84 (2.62-5.64)	1.45 (0.96-2.19)	0.080	1.35 (0.88-2.07)	0.171	1.12 (0.72-1.76)	0.616
Migraine medication									
Mother of non-AD child	551,715	5530	100.23 (97.63-102.91)	ref					
Mother of AD child	60,901	715	117.40 (109.11-126.33)	1.16 (1.08-1.26)	0.000	1.15 (1.07-1.25)	0.000	1.06 (0.97-1.15)	0.199
Pain medication									
Mother of non-AD child	428,023	20961	489.72 (483.13-496.39)	ref					
Mother of AD child	47,234	2680	567.38 (456.30-589.28)	1.18 (1.13-1.22)	0.000	1.15 (1.10-1.20)	0.000	1.07 (1.03-1.12)	0.002
Opioids only									
Mother of non-AD child	478,582	12505	261.29 (256.75-265.91)	ref					
Mother of AD child	52,552	1660	315.88 (301.04-331.44)	1.22 (1.16-1.29)	0.000	1.20 (1.14-1.27)	0.000	1.11 (1.05-1.18)	0.000
Sleep medication									
Mother of non-AD child	560,175	6179	110.30 (107.59-113.09)	ref					
Mother of AD child	61,228	792	129.35 (120.65-138.68)	1.17 (1.09-1.26)	0.000	1.17 (1.09-1.26)	0.000	1.11 (1.02-1.20)	0.013
Divorce									
Mother of non-AD child	293,865	6067	206.46 (201.33-211.72)	ref					
Mother of AD child	31,000	703	226.78 (210.62-244.17)	1.10 (1.01-1.20)	0.028	1.11 (1.02-1.21)	0.014	1.13 (1.03-1.23)	0.043

AD = atopic dermatitis, IR = incidence rate, HR = hazard ratio, CI = confidence interval, p = p value, ref = reference group. Model 1 was adjusted for sex, age, mother's atopic disease, index child's psychiatric disease, socioeconomic status, having a later AD child and history of outcome. Model 2 was further adjusted for index child's atopic comorbidity. Analysis for divorce was only conducted on mothers being married at index and was further adjusted for length of marriage at index. Bold marking indicates statistical significance after Bonferroni correction.