eTable 1. Association between asthma (restrictive definition) and CD (any age after the age of 1)

	CD absent	CD present	Total
Asthma absent	118,782 (99.57%)	518 (0.43%)	119,300 (100%)
Asthma present	27,685 (99.23%)	**214 (0.77%)**	27,899 (100%)
Total	146,467 (99.50%)	732 (0.50%)	147,199 (100%)

p-value for Pearson Chi square <0.001
CD: coeliac disease

eTable 2. Risk factors of CD according to asthma (restrictive definition) and antibiotic exposure for asthma occurring at any time and preceding CD

Risk factor	CD cases (n=732)	Person-years (n= 1,197,873)	Crude IRR (95% CI)	Adjusted IRR (95% CI)*
Asthma (at any time) No Yes	518 214	912,472 285,402	1 **1.48** (1.26-1.74)	1 **1.45** (1.24-1.71)
Any antibiotic in the first year of life No Yes	411 321	712,481 485,392	1 **1.19** (1.03-1.38)	1 **1.16** (1.00-1-38)
	CD cases^ (n=660)	**Person-years^ (n= 1,197,712)**	**Crude IRR^ (95% CI)**	**Adjusted IRR^ (95% CI)***
Asthma (preceding CD)^ No Yes	518 142	912,472 285,240	1 0.97 (0.80-1.17)	1 0.95 (0.79-1.15)
Any antibiotic in the first year of life^ No Yes	378 282	712,397 485,315	1 1.14 (0.98-1.32)	1 1.14 (0.98-1.33)

Poisson regression models adjusted for sex and year of birth
*mutually adjusted for either asthma or antibiotic exposure
^excluding 72 asthma cases with CD diagnosis before asthma
CD: coeliac disease; CI: confidence interval; IRR: incident rate ratio

eTable 3. Risk factors of CD according to asthma (restrictive definition) and antibiotic exposure. Analysis stratified by age at CD identification for asthma occurring at any time and preceding CD

RISK FACTOR	CD identified at 1-3 years of age (n=200)		CD identified at (3-5] years of age (n=183)		CD identified at >5 years of age (n=349)	
	Crude IRR (95% CI)	adjusted* IRR (95% CI)	Crude IRR (95% CI)	adjusted* IRR (95% CI)	Crude IRR (95% CI)	adjusted* IRR (95% CI)
Asthma (at any time)	**1.51** (1.10-2.09)	**1.44** (1.04-1.99)	**1.47** (1.06-2.05)	**1.47** (1.05-2.04)	**1.46** (1.16-1.83)	**1.45** (1.16-1.83)
Any antibiotic in the first year of life	**1.58** (1.20-2.09)	**1.54** (1.16-2.03)	1.06 (0.79-1.43)	1.03 (0.76-1.38)	1.07 (0.87-1.33)	1.04 (0.84-1.29)
	CD identified at 1-3 years of age (n=162)^		CD identified at 4-5 years of age (n=159)^		CD identified at >5 years of age (n=339)^	
	Crude IRR (95% CI)	adjusted* IRR (95% CI)	Crude IRR (95% CI)	adjusted* IRR (95% CI)	Crude IRR (95% CI)	adjusted* IRR (95% CI)
Asthma (before CD diagnosis)^	**0.40** (0.23-0.70)	**0.38** (0.22-0.66)	0.76 (0.50-1.17)	0.76 (0.50-1.17)	**1.33** (1.05-1.68)	**1.33** (1.05-1.68)
Any antibiotic in the first year of life^	**1.52** (1.11-2.06)	**1.59** (1.17-2.17)	0.98 (0.71-1.34)	1.00 (0.72-1.37)	1.06 (0.86-1.32)	1.04 (0.84-1.68)

Poisson regression models adjusted for sex and year of birth
*mutually adjusted for either asthma or antibiotic exposure
^ excluding 72 asthma cases with CD diagnosis before asthma
CD: coeliac disease; CI: confidence interval; IRR: incident rate ratio