

## Supplementary material

**Supplementary Table 1** Country of birth and residence of couples included in the web survey (n=58)

Country	Country of birth <sup>a</sup> n (%)	Country of residence <sup>b</sup> n (%)
Italy	26	25
Portugal	11	11
Spain	7	7
Netherlands	3	3
Belgium	2	3
Ireland	2	2
Australia	1	1
Malta	2	2
Belgium-Romania	1	0
Portugal-Angola	1	0
Portugal-Brazil	1	0
France	0	1

Missing data from: <sup>a</sup>1 couple, <sup>b</sup>3 couples

**Supplementary Table 2** Demographic and clinical characteristics of children included in the web survey

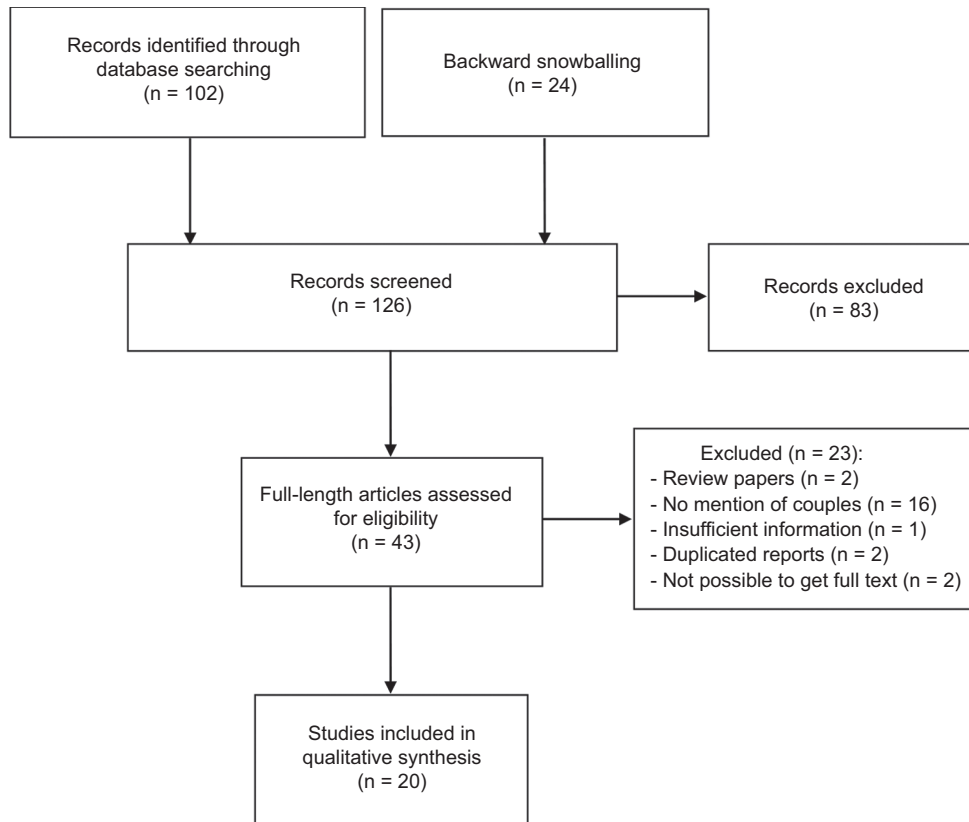
Children	Sex	IBD	IBD in parents	Other IMID in parents	Age of diagnosis	Smoking habits	Delivery mode	Breast-feeding	Exposure to antibiotics
Child 1	Female	CD	CD-UC	Yes	15	Never	C-section	No	No
Child 2	Female	CD	CD-IC	No	15	Never	Vaginal	6-12M	Yes
Child 3	Female	UC	UC-UC	Yes-No	7	Never	Vaginal	No	Yes
Child 4	Female	UC	UC-UC	No	14	Never	Vaginal	6-12M	Yes
Child 5	Female	UC	CD-UC	No	17	Never	Vaginal	6-12M	Yes
Child 6	Missing	IC	CD-UC	No	Missing	Ever	Missing	Missing	Missing

CD, Crohn's disease; IBD, inflammatory bowel disease; IC, indeterminate colitis; IMID, immune-mediated disease; M, months; UC, ulcerative colitis

**Supplementary Table 3** Predictive factors for developing inflammatory bowel disease in children (n=65)

Factors	Children with IBD (n=6)	Children without IBD (n=59)	P-value
Delivery mode, n (%)			
Vaginal	4 (80%)	40 (71%)	0.999
C-section	1 (20%)	16 (29%)	
Breast-feeding, n (%) <sup>b</sup>	3 (60%)	46 (79%)	0.307
Exposure to antibiotics, n (%) <sup>b</sup>	4 (80%)	40 (69%)	0.999
Other IMID in parents, n (%)			
One or both parents	2 (33%)	26 (44%)	0.692
Both parents	1 (17%)	8 (14%)	0.999

IBD, inflammatory bowel disease; IMID, immune-mediated disease. Missing data from: <sup>a</sup>4 children, <sup>b</sup>2 children



Supplementary Figure 1 PRISMA diagram detailing the literature search