

Supplementary Table 1. Baseline characteristics of non-inflammatory bowel disease and inflammatory bowel disease participants in the prematching and postmatching cohorts across different propensity score matching models

Characteristics	Prematching cohort			Postmatching cohort (Baseline model)			Postmatching cohort (Model 1)			Postmatching cohort (Model 2)			Postmatching cohort (Model 3)		
	Non-IBD, <i>n</i> = 240765	IBD, <i>n</i> = 2906	SMD	Non-IBD, <i>n</i> = 2810	IBD, <i>n</i> = 2810	SMD	Non-IBD, <i>n</i> = 2906	IBD, <i>n</i> = 2906	SMD	Non-IBD, <i>n</i> = 2903	IBD, <i>n</i> = 2903	SMD	Non-IBD, <i>n</i> = 2889	IBD, <i>n</i> = 2889	SMD
Demographics characteristics															
Age in yr, mean (SD)	58.0 (16.7)	57.9 (17.2)	-0.005	59.6 (16.0)	58.3 (17.1)	-0.078	57.8 (17.2)	57.9 (17.2)	0.008	57.6 (17.1)	57.9 (17.2)	0.016	60.0 (16.3)	58.0 (17.1)	-0.118 ^a
Male sex, <i>n</i> (%)	88640 (36.8)	1120 (38.5)	0.017	1039 (37)	1072 (38.1)	0.012	1121 (38.6)	1120 (38.5)	0.003	1146 (39.5)	1119 (38.5)	0.012	1031 (35.7)	1103 (38.2)	0.03
Race/ethnicity, <i>n</i> (%)			0.186 ^a			0.014			0.001			0.011			0.003
Non-Hispanic White	129991 (54)	2110 (72.6)		2067 (73.6)	2029 (72.2)		2108 (72.5)	2110 (72.6)		2141 (73.8)	2109 (72.6)		2099 (72.7)	2095 (72.5)	
Non-Hispanic Black	48152 (20)	294 (10.1)		269 (9.6)	293 (10.4)		290 (10)	294 (10.1)		278 (9.6)	294 (10.1)		287 (9.9)	294 (10.2)	
Hispanic	41853 (17.4)	251 (8.6)		231 (8.2)	250 (8.9)		255 (8.8)	251 (8.6)		225 (7.8)	251 (8.6)		241 (8.3)	251 (8.7)	
Non-Hispanic Asian	6508 (2.7)	41 (1.4)		39 (1.4)	40 (1.4)		42 (1.4)	41 (1.4)		44 (1.5)	41 (1.4)		45 (1.6)	41 (1.4)	
Other	14261 (5.9)	210 (7.2)		204 (7.3)	198 (7)		211 (7.3)	210 (7.2)		215 (7.4)	208 (7.2)		217 (7.5)	208 (7.2)	
Annual Income, <i>n</i> (%)			0.103 ^a			0.019			0.003			0.015			0.004
< \$35000	77590 (32.2)	697 (24)		624 (22.2)	678 (24.1)		700 (24.1)	697 (24)		698 (24)	697 (24)		691 (23.9)	696 (24.1)	
\$35-75000	43279 (18)	590 (20.3)		562 (20)	572 (20.4)		593 (20.4)	590 (20.3)		547 (18.8)	590 (20.3)		596 (20.6)	589 (20.4)	
> \$75000	69422 (28.8)	1138 (39.2)		1138 (40.5)	1086 (38.6)		1128 (38.8)	1138 (39.2)		1170 (40.3)	1135 (39.1)		1132 (39.2)	1123 (38.9)	
Education, <i>n</i> (%)			0.129 ^a			0.008			0.003			0.004			0.017
Highest grade: ~11	22377 (9.3)	81 (2.8)		96 (3.4)	81 (2.9)		83 (2.9)	81 (2.8)		94 (3.2)	81 (2.8)		79 (2.7)	81 (2.8)	
Highest grade: 12 to some college	106082 (44.1)	1115 (38.4)		1065 (37.9)	1088 (38.7)		1125 (38.7)	1115 (38.4)		1103 (38)	1115 (38.4)		1071 (37.1)	1115 (38.6)	
Highest grade: College graduate	104712 (43.5)	1638 (56.4)		1581 (56.3)	1571 (55.9)		1630 (56.1)	1638 (56.4)		1633 (56.3)	1635 (56.3)		1671 (57.8)	1621 (56.1)	
Current smoker, <i>n</i> (%)	38002 (15.8)	249 (8.6)	0.079	263 (9.4)	246 (8.8)	0.008	253 (8.7)	249 (8.6)	0.005	254 (8.7)	249 (8.6)	0.002	242 (8.4)	249 (8.6)	0.008
Alcohol use, <i>n</i> (%)	210909 (87.6)	2651 (91.2)	0.036	2576 (91.7)	2565 (91.3)	0.004	2664 (91.7)	2651 (91.2)	0.004	2654 (91.4)	2648 (91.2)	0.005	2665 (92.2)	2634 (91.2)	0.011
Pneumococcal vaccination, <i>n</i> (%)	22391 (9.3)	556 (19.1)	0.098	414 (14.7)	519 (18.5)	0.037	309 (10.6)	554 (19.1)	0.102 ^a	309 (10.6)	554 (19.1)	0.084	437 (15.1)	555 (19.2)	0.041
Baseline comorbid conditions, <i>n</i> (%)															
Myocardial infarction	13827 (5.7)	185 (6.4)	0.006	165 (5.9)	179 (6.4)	0.005	158 (5.4)	185 (6.4)	0.009	159 (5.5)	185 (6.4)	0.009	235 (8.1)	183 (6.3)	0.018
Congestive heart failure	22610 (9.4)	298 (10.3)	0.009	315 (11.2)	292 (10.4)	0.008	249 (8.6)	298 (10.3)	0.017	257 (8.9)	297 (10.2)	0.014	377 (13)	297 (10.3)	0.028
Peripheral vascular disease	27546 (11.4)	530 (18.2)	0.068	560 (19.9)	513 (18.3)	0.017	328 (11.3)	530 (18.2)	0.07	525 (18.1)	527 (18.2)	0.001	450 (15.6)	529 (18.3)	0.027
Cerebrovascular disease	25894 (10.8)	400 (13.8)	0.03	401 (14.3)	391 (13.9)	0.004	314 (10.8)	400 (13.8)	0.03	391 (13.5)	398 (13.7)	0.002	382 (13.2)	400 (13.8)	0.006
Chronic pulmonary disease	68781 (28.6)	1121 (38.6)	0.1 ^a	1128 (40.1)	1085 (38.6)	0.015	826 (28.4)	1121 (38.6)	0.102 ^a	1130 (38.9)	1118 (38.5)	0.004	1062 (36.8)	1119 (38.7)	0.02
Rheumatic disease	14152 (5.9)	404 (13.9)	0.08	468 (16.7)	398 (14.2)	0.025	165 (5.7)	404 (13.9)	0.082	358 (12.3)	402 (13.8)	0.015	734 (25.4)	401 (13.9)	0.115 ^a
Dementia	3054 (1.3)	39 (1.3)	0.001	36 (1.3)	38 (1.4)	0.001	37 (1.3)	39 (1.3)	0.001	46 (1.6)	39 (1.3)	0.002	41 (1.4)	39 (1.3)	0.001
Hemiplegia or paraplegia	4922 (2)	67 (2.3)	0.003	59 (2.1)	67 (2.4)	0.003	43 (1.5)	67 (2.3)	0.008	80 (2.8)	67 (2.3)	0.004	74 (2.6)	67 (2.3)	0.002
Diabetes mellitus without complication	27043 (11.2)	322 (11.1)	0.002	310 (11)	314 (11.2)	0.001	293 (10.1)	322 (11.1)	0.01	338 (11.6)	322 (11.1)	0.006	326 (11.3)	321 (11.1)	0.002
Diabetes mellitus with complication	24754 (10.3)	308 (10.6)	0.003	351 (12.5)	305 (10.9)	0.016	274 (9.4)	308 (10.6)	0.012	307 (10.6)	307 (10.6)		358 (12.4)	308 (10.7)	0.017
Renal disease	25000 (10.4)	444 (15.3)	0.049	453 (16.1)	425 (15.1)	0.01	278 (9.6)	444 (15.3)	0.057	436 (15)	442 (15.2)	0.002	413 (14.3)	442 (15.3)	0.01
Mild liver disease	31823 (13.2)	721 (24.8)	0.116 ^a	708 (25.2)	684 (24.3)	0.009	350 (12)	721 (24.8)	0.128 ^a	739 (25.5)	719 (24.8)	0.007	511 (17.7)	717 (24.8)	0.071
Moderate to severe liver disease	3103 (1.3)	90 (3.1)	0.018	97 (3.5)	84 (3)	0.005	34 (1.2)	90 (3.1)	0.019	89 (3.1)	89 (3.1)		64 (2.2)	89 (3.1)	0.009
Peptic ulcer disease	8843 (3.7)	350 (12)	0.084	350 (12.5)	319 (11.4)	0.011	95 (3.3)	350 (12)	0.088	323 (11.1)	347 (12)	0.008	152 (5.3)	348 (12)	0.068
Any solid tumor	24499 (10.2)	435 (15)	0.048	468 (16.7)	418 (14.9)	0.018	299 (10.3)	435 (15)	0.047	409 (14.1)	432 (14.9)	0.008	376 (13)	435 (15.1)	0.02
Lymphoma or leukemia	5943 (2.5)	121 (4.2)	0.017	144 (5.1)	116 (4.1)	0.01	90 (3.1)	121 (4.2)	0.011	114 (3.9)	121 (4.2)	0.002	125 (4.3)	121 (4.2)	0.001
Metastatic solid tumor	9460 (3.9)	181 (6.2)	0.023	162 (5.8)	177 (6.3)	0.005	113 (3.9)	181 (6.2)	0.023	190 (6.5)	181 (6.2)	0.003	160 (5.5)	180 (6.2)	0.007
AIDS	4076 (1.7)	31 (1.1)	0.006	≤ 20 ^b	29 (1)	0.003	26 (0.9)	31 (1.1)	0.002	39 (1.3)	31 (1.1)	0.003	23 (0.8)	30 (1)	0.002
CCI score (SD)	3.66 (3.55)	4.56 (4.04)	0.236 ^a	4.81 (3.9)	4.59 (4.02)	-0.055	3.54 (3.52)	4.56 (4.04)	0.27 ^a	4.51 (4.23)	4.55 (4.03)	0.01	4.58 (3.95)	4.57 (4.04)	-0.002
Baseline medications, <i>n</i> (%)															
Systemic steroids	117134 (48.7)	2207 (75.9)	0.273 ^a	2141 (76.2)	2113 (75.2)	0.01	1492 (51.3)	2207 (75.9)	0.246 ^a	1694 (58.4)	2204 (75.9)	0.176 ^a	2243 (77.6)	2190 (75.8)	0.018
Anti-TNF inhibitor	2154 (0.9)	858 (29.5)	0.286 ^a	745 (26.5)	762 (27.1)	0.006	32 (1.1)	858 (29.5)	0.284 ^a	48 (1.7)	855 (29.5)	0.278 ^a	818 (28.3)	841 (29.1)	0.008
Calcineurin inhibitor	9779 (4.1)	303 (10.4)	0.064	342 (12.2)	285 (10.1)	0.02	118 (4.1)	303 (10.4)	0.064	192 (6.6)	302 (10.4)	0.038	363 (12.6)	299 (10.3)	0.022
Immunomodulators	5939 (2.5)	908 (31.2)	0.288 ^a	841 (29.9)	812 (28.9)	0.01	77 (2.6)	908 (31.2)	0.286 ^a	131 (4.5)	906 (31.2)	0.267 ^a	935 (32.4)	891 (30.8)	0.015

^adenotes SMD ≥ 0.1, which indicates significant difference between non-IBD and IBD group.

^bValues for certain groups with counts less than or equal to 20 are reported as "≤ 20" according to *All of Us* Data Dissemination Policy.

AIDS: Acquired immunodeficiency syndrome; CCI: Charlson Comorbidity Index; IBD: Inflammatory bowel disease; SD: Standard deviation; SMD: Standardized mean difference; TNF: Tumor necrosis factor.