**Supplementary files.**

**Supplementary table S1. ICD-9- Diagnoses**

|  |  |
| --- | --- |
| **555** | **CD** |
| 5550 | Small bowel regional enteritis. Crohn’s disease of duodenum, ileum, jejunum; ileitis: regional, segmental, terminal |
| 5551 | Large bowel regional enteritis. Crohn’s disease of colon, large bowel, rectum; granulomatous, regional or transmural colitis: granulomatous, regional, transmural |
| 5552 | Small and large bowel regional enteritis. Ileo-colitis regional |
| 5559 | Regional enteritis unspecified. Crohn’s disease NOS, regional enteritis NOS |
|  |  |
| **556** | **Ulcerative colitis** |
| 5560 | Ulcerative enterocolitis (chronic) |
| 5561 | Ulcerative ileo-colitis (chronic) |
| 5562 | Ulcerative proctitis (chronic) |
| 5563 | Ulcerative proctosigmoiditis (chronic) |
| 5564 | Colonic pseudopolyposis |
| 5565 | Ulcerative colitis (chronic) left-sided |
| 5566 | Ulcerative colitis (chronic) generalized. Pancolitis |
| 5568 | Other ulcerative colitis |
| 5569 | Ulcerative colitis + unspecified. Ulcerative enteritis NOS |

**Supplementary Table S2. Mortality rates according to age group**.

|  |  |  |  |
| --- | --- | --- | --- |
| Age group | Population | Deaths | Mortality rates x 1,000 population |
|   | CD | UC | No IBD | CD | UC | No IBD | CD | UC | No IBD |
| 0-4 | 61 | 39 | 360979 | 0 | 0 | 446 | 0.0 | 0.0 | 1.2 |
| 5-9 | 139 | 75 | 422805 | 0 | 1 | 275 | 0.0 | 13.3 | 0.7 |
| 10-14 | 168 | 119 | 404940 | 0 | 0 | 283 | 0.0 | 0.0 | 0.7 |
| 15-19 | 372 | 194 | 362949 | 0 | 0 | 162 | 0.0 | 0.0 | 0.4 |
| 20-24 | 606 | 363 | 354245 | 0 | 0 | 221 | 0.0 | 0.0 | 0.6 |
| 25-29 | 961 | 695 | 399173 | 0 | 0 | 273 | 0.0 | 0.0 | 0.7 |
| 30-34 | 1223 | 1154 | 493321 | 1 | 1 | 398 | 0.8 | 0.9 | 0.8 |
| 35-39 | 1564 | 1879 | 635111 | 2 | 4 | 536 | 1.3 | 2.1 | 0.8 |
| 40-44 | 1764 | 2394 | 672979 | 6 | 3 | 825 | 3.4 | 1.3 | 1.2 |
| 45-49 | 1457 | 2291 | 602514 | 9 | 6 | 1154 | 6.2 | 2.6 | 1.9 |
| 50-54 | 1361 | 2396 | 546651 | 10 | 11 | 1780 | 7.3 | 4.6 | 3.3 |
| 55-59 | 1095 | 2336 | 484631 | 16 | 18 | 2279 | 14.6 | 7.7 | 4.7 |
| 60-64 | 878 | 2073 | 417899 | 10 | 22 | 3000 | 11.4 | 10.6 | 7.2 |
| 65-69 | 751 | 1961 | 381369 | 12 | 30 | 3899 | 16.0 | 15.3 | 10.2 |
| 70-74 | 668 | 1824 | 326015 | 27 | 30 | 4984 | 40.4 | 16.4 | 15.3 |
| 75-79 | 469 | 1371 | 241655 | 30 | 56 | 6672 | 64.0 | 40.8 | 27.6 |
| 80-84 | 476 | 1413 | 235323 | 48 | 92 | 11244 | 100.8 | 65.1 | 47.8 |
| 85-89 | 322 | 880 | 159402 | 48 | 106 | 14213 | 149.1 | 120.5 | 89.2 |
| >89 | 162 | 470 | 98139 | 24 | 75 | 16693 | 148.1 | 159.6 | 170.1 |