## SUPPLEMENTAL DATA

**Table S1.** Baseline clinical characteristics and comorbidities of patients with AS and their matched controls

| Comorbidities                        | Patients with AS | Matched controls | P value |
|--------------------------------------|------------------|------------------|---------|
|                                       | N = 6679         | N = 19,951       |         |
| Comorbidities, n (%)                  |                  |                  |         |
| Asthma                               | 145 (2.2)        | 218 (1.1)        | < 0.001 |
| Cardiovascular disease               | 2295 (34.4)      | 5849 (29.3)      | < 0.001 |
| Angina                               | 79 (1.2)         | 146 (0.7)        | < 0.001 |
| Atherosclerosis                      | 482 (7.2)        | 1,139 (5.7)      | < 0.001 |
| Cerebrovascular disease/stroke       | 110 (1.6)        | 260 (1.3)        | 0.038   |
| Coronary artery disease              | 322 (4.8)        | 743 (3.7)        | < 0.001 |
| Hypertension                         | 2053 (30.7)      | 5267 (26.4)      | < 0.001 |
| Myocardial infarction                | 84 (1.3)         | 178 (0.9)        | 0.009   |
| Peripheral vascular disease          | 110 (1.6)        | 311 (1.6)        | 0.617   |
| Venous thromboembolism               | 77 (1.2)         | 167 (0.8)        | 0.019   |
| Depression                           | 712 (10.7)       | 1152 (5.8)       | < 0.001 |
| Diabetes                             | 656 (9.8)        | 2113 (10.6)      | 0.075   |
| Dyslipidemia                         | 1564 (23.4)      | 4439 (22.3)      | 0.048   |
| Gastrointestinal ulcers              | 75 (1.1)         | 79 (0.4)         | < 0.001 |
| Malignancies                         | 450 (6.7)        | 1,094 (5.5)      | < 0.001 |
| Multiple sclerosis                   | 31 (0.5)         | 51 (0.3)         | 0.008   |
| Osteoporosis                         | 259 (3.9)        | 191 (1.0)        | < 0.001 |
| Parkinson disease                    | 17 (0.3)         | 43 (0.2)         | 0.561   |
| Sleep apnea                          | 585 (8.8)        | 1008 (5.1)       | < 0.001 |
| Conditions associated with AS, n (%) |  |  |
|-------------------------------------|---|---|
| Spinal fracture                     | 59 (0.9) | 39 (0.2) | < 0.001 |
| Inflammatory bowel disease          | 439 (6.6) | 128 (0.6) | < 0.001 |
| Crohn disease                       | 281 (4.2) | 57 (0.3) | < 0.001 |
| Ulcerative colitis                  | 192 (2.9) | 81 (0.4) | < 0.001 |
| Psoriasis                           | 138 (2.1) | 171 (0.9) | < 0.001 |
| Uveitis                             | 654 (9.8) | 45 (0.2) | < 0.001 |

AS ankylosing spondylitis, *ICD-9-CM* International Classification of Diseases, Ninth Revision, Clinical Modification