**Supplementary Table 1 Univariable analyses of initial model (all variables)**

|  |  |  |
| --- | --- | --- |
| **Variables at baseline** | **Univariable**  **OR (95%CI) *p*-value** | |
| Duration of disease | 1.00 (0.96-1.05) | 0.79 |
| Age | 0.96 (0.93-1.00) | 0.03 |
| Gender, male | 0.77 (0.29- 2.02) | 0.59 |
| **Ethnic group**  Chinese | Reference |  |
| Non-Chinese | 1.13 (0.39-3.23) | 0.83 |
| **Type of housing** |  |  |
| Public | Reference |  |
| Private | 0.89 (0.34-2.34) | 0.81 |
| **Employment status** |  |  |
| Employed | Reference |  |
| Unemployed | 1.04 (0.46-2.33) | 0.93 |
| **Education level** |  |  |
| Low | Reference |  |
| Intermediate | 1.31 (0.27- 6.34) | 0.74 |
| High | 0.90 (0.17-4.69) | 0.90 |
| High BASDAI(≥4) | 1.79 (0.82-3.93) | 0.15 |
| **SF-36** |  |  |
| High PCS (>50) | 0.85 (0.32-2.25) | 0.75 |
| High MCS (>50) | 0.24 (0.05-1.04) | 0.06 |
| Elevated CRP | 1.35 (0.46- 3.99) | 0.58 |
| ESR | 1.02 (1.00-1.03) | 0.02 |
| **Comorbidities** |  |  |
| Hyperlipidemia | 0.82 (0.26-2.57) | 0.74 |
| Hypertension | 0.50 (0.11-2.25) | 0.36 |
| Peptic ulcer disease | 3.78 (1.14-12.5) | 0.03 |
| Skin symptoms | 0.75 (0.09-6.32) | 0.79 |
| Past surgery | 0.82 (0.33-2.05) | 0.67 |
| **Lack of good response to NSAIDs** |  |  |
| Good response | Reference |  |
| No/Poor response | 3.15 (1.39-7.18) | <0.01 |

**Abbreviations:** **Abbreviations:** BASDAI, Bath Ankylosing Spondylitis Disease Activity Index;

CRP, C-Reactive Protein; ESR, Erythrocyte Sedimentation Rate; NSAID, Nonsteroidal Anti-inflammatory

Drug; MCS, Mental Component Summary; PCS, Physical Component Summary; S.D., Standard Deviation;

SF-36, Short Form-36 Health Survey; AxSpA, Axial Spondyloarthritis; Education (low), up to secondary

school; Education (Intermediate), up to high school/diploma or equivalent; Education (High), at least

university degree