## Supplementary Material

**Appendix 1 The Spearman's correlation coefficient between variables**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variables | EQ-5D-5L | Age | Gender | BMI | Region | Education | HAQ-DI | SJC | TJC | ESR | CRP | DAS28-CRP | DAS28-ESR | PtAAP | PhGADA | PtGADA |
| EQ-5D-5L | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Age | -0.2046\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gender | -0.3176\*\* | -0.1340 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BMI | -0.1752\* | 0.0764 | -0.1058 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| Region | -0.1864\* | 0.4007\*\* | -0.0203 | -0.0062 | 1 |  |  |  |  |  |  |  |  |  |  |  |
| Education | 0.2743\*\* | -0.5726\*\* | -0.1489 | -0.0154 | -0.7128\*\* | 1 |  |  |  |  |  |  |  |  |  |  |
| HAQ-DI | -0.6998\*\* | 0.2232\*\* | 0.0518 | 0.0387 | 0.1158 | -0.1889\* | 1 |  |  |  |  |  |  |  |  |  |
| SJC | -0.0968 | 0.1140 | 0.0571 | -0.112 | -0.0536 | -0.0224 | 0.2169\*\* | 1 |  |  |  |  |  |  |  |  |
| TJC | -0.1983\*\* | 0.1887\* | 0.1091 | -0.0113 | 0.0398 | -0.1347 | 0.3226\*\* | 0.6826\*\* | 1 |  |  |  |  |  |  |  |
| ESR | -0.2148\*\* | 0.1701\* | 0.2829\*\* | -0.0393 | 0.0792 | -0.1438 | 0.1499\* | 0.3251\*\* | 0.2904\*\* | 1 |  |  |  |  |  |  |
| CRP | -0.0024 | -0.0672 | -0.1365 | -0.0145 | -0.0670 | 0.1317 | 0.1982\*\* | 0.1971\*\* | 0.1260 | 0.5179\*\* | 1 |  |  |  |  |  |
| DAS28-CRP | -0.1533\* | 0.0751 | 0.0115 | -0.0553 | 0.0132 | -0.0371 | 0.2337\*\* | 0.6687\*\* | 0.6748\*\* | 0.3702\*\* | 0.4330\*\* | 1 |  |  |  |  |
| DAS28-ESR | -0.2332\*\* | 0.0815 | 0.2223\*\* | -0.0650 | 0.0813 | -0.1518\* | 0.1369 | 0.6306\*\* | 0.6479\*\* | 0.5024\*\* | 0.1589\* | 0.8384\*\* | 1 |  |  |  |
| PtAAP | -0.3731\*\* | 0.1746\* | -0.0856 | 0.1080 | 0.0157 | -0.0479 | 0.3860\*\* | 0.1512\* | 0.1878\* | 0.2331\*\* | 0.2817\*\* | 0.3167\*\* | 0.1213 | 1 |  |  |
| PhGADA | -0.2040\*\* | 0.1887\* | -0.0539 | 0.0501 | 0.0294 | -0.1034 | 0.3267\*\* | 0.2948\*\* | 0.3066\*\* | 0.2809\*\* | 0.3062\*\* | 0.3222\*\* | 0.2033\*\* | 0.6067\*\* | 1 |  |
| PtGADA | -0.4018\*\* | 0.1772\* | -0.0692 | 0.1331 | 0.0653 | -0.0814 | 0.4313\*\* | 0.1826\* | 0.1992\*\* | 0.3089\*\* | 0.2774\*\* | 0.3429\*\* | 0.1801\* | 0.8169\*\* | 0.5678\*\* | 1 |

Note: \**p*<0.05, \*\* *p*<0.01; SJC: swollen joints count; TJC: tender joints count; ESR: erythrocyte sedimentation rate; CRP: high-sensitivity C-reactive protein; DAS28: 28 joint counts; PtAAP: the patient's assessment of arthritis pain; PtGADA: the patient's global assessment of disease activity; PhGADA: the Physician’s global assessment of disease activity.