**Supplementary Table 1: Univariate analyses.**

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| --- | --- | --- | --- |
| **Variables** | **OR** | **95% CI** | ***P*-value** |
| Age | 1.091 | 0.84–1.43 | 0.521 |
| Female | 0.987 | 0.98–1.00 | 0.013\* |
| BMI | 0.998 | 0.98–1.02 | 0.868 |
| Family history | 1.331 | 1.00–1.78 | 0.052\* |
| Onset age of PsA | 0.981 | 0.97–0.99 | <0.001\* |
| Onset age of psoriasis | 0.986 | 0.98–1.00 | 0.013\* |
| Course of PsA (>5 years) | 1.331 | 1.01–1.75 | 0.039\* |
| Dactylitis | 0.966 | 0.74–1.26 | 0.803 |
| Nail disease | 1.083 | 0.82–1.43 | 0.572 |
| Uveitis | 1.663 | 0.92–3.02 | 0.095\* |
| IBD | 0.951 | 0.48–1.88 | 0.886 |
| Peripheral arthritis | 1.387 | 0.88–2.19 | 0.159 |
| Axial involvement | 2.275 | 1.73–2.99 | <0.001\* |
| PASI | 1.025 | 1.01–1.04 | ＜0.001\* |
| SJC66 | 1.024 | 1.01–1.04 | 0.001\* |
| TJC68 | 1.036 | 1.02–1.05 | < 0.001\* |
| HLA-B27 positive | 1.311 | 0.95–1.81 | 0.099\* |
| ESR | 1.004 | 1.00–1.01 | 0.113 |
| CRP | 1.004 | 1.00–1.01 | 0.068\* |
| DAS28-CRP | 1.261 | 1.14–1.40 | <0.001\* |
| DAPSA | 1.020 | 1.01–1.03 | <0.001\* |

\**P*<0.05. PsA: Psoriatic arthritis; OR: Odds ratio; CI: Confidence interval; BMI: Body mass index; HLA-B27: Human leukocyte antigen; IBD: Inflammatory bowel diseases; SJC: Swollen joint count; TJC: Tender joint count; PASI: Psoriasis Area and Severity Index; DAS28-CRP: Disease Activity Score 28-CRP; DAPSA: Disease Activity in Psoriatic Arthritis; ESR: Erythrocyte sedimentation rate; CRP: C reactive protein.

**Supplementary Table 2: Collinearity analysis of variables.**

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| **Variables** | **Tolerance** | **Variance inflation factor** |
| Age | 0.111 | 9.003 |
| Family history | 0.949 | 1.053 |
| Onset age of PsA | 0.103 | 9.737 |
| Onset age of psoriasis | 0.533 | 1.876 |
| Course of PsA (>5 years) | 0.413 | 2.420 |
| Uveitis | 0.943 | 1.060 |
| Axial involvement | 0.922 | 1.085 |
| PASI | 0.890 | 1.124 |
| SJC | 0.137 | 7.292 |
| TJC | 0.149 | 6.695 |
| HLA-B27 | 0.897 | 1.115 |
| CRP | 0.458 | 2.185 |
| DAS28-CRP | 0.245 | 4.086 |
| DAPSA | 0.041 | 24.259 |

CRP: C reactive protein; DAPSA: Disease Activity in Psoriatic Arthritis; DAS28-CRP: Disease Activity Score 28-CRP; HLA-B27: Human leukocyte antigen; PASI: Psoriasis Area and Severity Index; PsA: Psoriatic arthritis; SJC: Swollen joint count; TJC: Tender joint count.