**Table S4：**

**The results of univariate logistic regression analysis were corrected by FDR using BH method**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Variables** | **Femoral neck** |  |  | **Total hip** |  |
| **OR** | **95% CI** | ***P*** | **FDR- *P*** |  | **OR** | **95% CI** | ***P*** | **FDR- *P*** |
| **Unadjusted** |  |  |  |  |  |  |  |  |  |
| Chest expansion | 0.81 | 0.70 to 0.94 | 0.005 | 0.017 |  | 0.86 | 0.74 to 0.99 | 0.038 | 0.056 |
| BASMI | 1.21 | 1.05 to 1.39 | 0.007 | 0.015 |  | 1.17 | 1.01 to 1.34 | 0.032 | 0.056 |
| BASFI | 1.04 | 0.88 to 1.24 | 0.640 | 0.662 |  | 1.15 | 0.98 to 1.36 | 0.095 | 0.095 |
| Total mSASSS | 1.02 | 1.01 to 1.03 | 0.003 | 0.011 |  | 1.02 | 1.00 to 1.03 | 0.011 | 0.030 |
| ASDAS-CRP | 1.22 | 0.84 to 1.78 | 0.286 | 0.393 |  | 1.45 | 0.99 to 2.12 | 0.057 | 0.063 |
| Diagnosis duration | 1.04 | 0.99 to 1.10 | 0.157 | 0.247 |  | 1.07 | 1.01 to 1.13 | 0.019 | 0.042 |
| BMI | 0.92 | 0.84 to 1.00 | 0.054 | 0.099 |  | 0.88 | 0.80 to 0.97 | 0.010 | 0.030 |
| Night pain | 0.96 | 0.83 to 1.11 | 0.598 | 0.662 |  | 1.16 | 1.00 to 1.34 | 0.048 | 0.059 |
| PGA | 1.03 | 0.90 to 1.19 | 0.662 | 0.662 |  | 1.16 | 1.01 to 1.35 | 0.041 | 0.056 |
| Sacroiliitis average | 2.08 | 1.44 to 3.02 | 0.001 | 0.006 |  | 1.90 | 1.31 to 2.75 | 0.001 | 0.005 |
| Hip involvement | 2.08 | 1.55 to 5.20 | 0.001 | 0.006 |  | 2.90 | 1.55 to 5.43 | 0.001 | 0.005 |

BASMI, Bath Ankylosing Spondylitis Metrology Index; BASFI, Bath Ankylosing Spondylitis Functional Index;

BMI, body boss index; PGA, patient global assessment. FDR, False Discovery Rate. OR, odds ratio; 95% CI,

95% confidence interval. Sacroiliitis average, means average radiological grade of the sacroiliac joint.