**Supplemental Digital Content 2.** **Subject characteristics used for association analysis of fatigue fracture in J-HAP (n = 1636)**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Fatigue fracture  n = 216 | No fatigue fracture  n = 1420 | *P*-value |
| Sex |  |  | **0.012**a |
| Male, n (%) | 132 (61.1) | 989 (69.7) |  |
| Female, n (%) | 84 (38.9) | 431 (30.4) |  |
| Age, y | 20.8 ± 3.8 | 20.4 ± 2.4 | **0.040**b |
| Competitive level |  |  | **<0.001**a |
| International, n (%) | 33 (15.3) | 144 (10.1) |  |
| National, n (%) | 135 (62.5) | 772 (54.4) |  |
| Regional, n (%) | 36 (16.7) | 304 (21.4) |  |
| Others, n (%) | 12 (5.6) | 200 (14.1) |  |
| Main sport |  |  | **0.006**a |
| Track & field, n (%) | 76 (35.2) | 371 (26.1) |  |
| Soccer, n (%) | 91 (42.1) | 606 (42.7) |  |
| Others, n (%) | 49 (22.7) | 443 (31.2) |  |
| Playing years in main sport, y | 11.1 ± 3.9 | 11.1 ± 3.9 | 0.965b |

Values are presented as the means ± SD unless noted otherwise. Bold emphasis: *P* < 0.05. a *P*-value by the Pearson’s χ2 test, b *P*-value by the unpaired t-test.