**Appendices C. Demographic and Clinical Features**

**1. Demographic information of the** **primary dataset.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Primary dataset | Ankle Instability(n=18) | Healthy Control(n=22) | P value |  |
| Sex (female/male) | 5/13 | 4/18 | 0.732 |  |
| Age (years) | 30.00 ± 6.74 | 27.50 ± 6.05 | 0.224 |  |
| BMI (kg/m2) | 23.29 ± 3.22 | 22.67 ± 2.31 | 0.485 |  |
| Ethnic background |  |  | 1.000 |  |
|  G | 18 (100%) | 22 (100%) |  |  |
| CAIT (scores) | 12.00 [7.00, 14.50] | 30.00 [30.00, 30.00] | <0.001 |  |
| Tegner (scores) | 4.50 [2.00, 6.00] | 6.00 [5.25, 7.00] | 0.027 |  |
| VAS (scores) | 2.55 [1.30, 4.35] | 0.00 [0.00, 0.00] | <0.001 |  |
| Injured Ankle (L/R)  | 11/7 | - | - |  |
| Duration from the initial sprain to scanning (months) | 11.00 [7.00, 36.00] | - | - |  |

BMI, Body Mass Index; CAIT, Cumberland ankle instability tool; VAS, Visual Analogue Scale.

**2. Demographic information of the UK Biobank dataset.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UK Biobank dataset | Ankle Instability(n=16) | Healthy Control (n=69) | P value |  |
| Sex (female/male) | 11/5 | 50/19 | 1.000 |  |
| Age (years) | 61.00 ± 10.27 | 60.86 ± 7.24 | 0.947 |  |
| BMI (kg/m2) | 26.79 ± 4.06 | 27.58 ± 4.26 | 0.501 |  |
| Ethnic background |  |  | 0.821 |  |
| A | 64 (92.8%) | 15 (93.8%) |  |  |
|  B | 1 (1.4%) | 1 (6.2%) |  |  |
|  C | 1 (1.4%) | 0 (0.0%) |  |  |
|  D | 1 (1.4%) | 0 (0.0%) |  |  |
| E | 1 (1.4%) | 0 (0.0%) |  |  |
|  F | 1 (1.4%) | 0 (0.0%) |  |  |
| Time gap between diagnosis and scanning (months) | 82.68 [43.85, 191.71] | - | - |  |

BMI, Body Mass Index.