**Table 1:** Descriptive statistics for symptomatic OA and asymptomatic OA participants in each study group

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| --- | --- | --- | --- | --- | --- |
| **Cohort name** | Genetics of Osteoarthritis and Lifestyle | Hertfordshire Cohort Study | Chingford study | Tasmanian Older Adult Cohort | Clearwater Osteoarthritis Study |
| **Cohort acronym** | GOAL | HCS | Chingford | TASOAC | COS |
| **Reference for cohort details** | (Valdes et al 2011) | (Ahie Sayer et al 2004) | (Hart & Spector 1993) | (Saunders et al 2011) | (Wilder et al 2002) |
| **Country of origin** | UK | UK | UK | Australia | USA |
| rs11688000  HWE1 p-value | 0.49 | 0.94 | 0.22 | 0.72 | 0.23 |
| **Symptomatic knee OAa** | n=1232 | n=86 | n=71 | n=94 | n=83 |
| Mean age (SD) | 68.4 (7.2) | 65.3 (2.8) | 55.7 (5.8) | 65.0 (7.2) | 64.8 (7.8) |
| % Female | 47.89% | 45.30% | 100% | 41.50% | 67.50% |
| Mean BMI kgm-2 (SD) | 31.2 (5.4) | 29.7 (5.4) | 26.7 (3.4) | 31.3 (6.3) | 28.7 (5.0) |
| % K/L≥3 | 95.62% | 39.53% | 43.66% | 42.55% | 38.55% |
| *TACR1* rs11688000 G allele frequency | 0.361 | 0.337 | 0.324 | 0.298 | 0.337 |
|  |  |  |  |  |  |
| **Asymptomatic knee OAa** | n=383 | n=44 | n=220 | n=145 | n=92 |
| Mean age (SD) | 69.0 (6.8) | 65.2 (2.4) | 55.7 (5.9) | 65.7 (7.6) | 63.8 (9.4) |
| % Female | 43.90% | 31.80% | 100% | 56.55% | 60.90% |
| Mean BMI kgm-2 (SD) | 28.9 (4.9) | 28.4 (4.0) | 26.3 (4.4) | 28.1 (4.3) | 26.4 (5.0) |
| % K/L≥3 | 67.40% | 15.90% | 28.18% | 24.83% | 20.65% |
| *TACR1* rs11688000 G allele frequency | 0.401 | 0.398 | 0.388 | 0.372 | 0.413 |

1Hardy Weinberg equilibrium p-value